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February 19, 2026

FILED VIA ELECTRONIC FILING

Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17105-3265

In re: Application of Pennsylvania-American Water Company under Sections 1102(a) and 1329 of the Pennsylvania Public Utility Code, 66 Pa C.S. §§ 1102(a) and 1329, for approval of (1) the transfer, by sale, to Pennsylvania-American Water Company, of substantially all of the assets, properties and rights related to the wastewater system owned and operated by the East Coventry Township, and (2) the rights of Pennsylvania-American Water Company to begin to offer or furnish wastewater service to the public in the Township of East Coventry, Chester County, Pennsylvania - Docket No: A-2025-3053487

Dear Secretary Homsher:

Enclosed for filing with the Pennsylvania Public Utility Commission (“PUC” or “Commission”) are the Responses of Pennsylvania-American Water Company (“PAWC”) to the 66 Pa. C.S. Section 1329 Application Completeness Review of Pennsylvania-American Water Company – Wastewater Division Acquisition of East Coventry Township’s Wastewater System at Docket No. A-2025-3053487 Missing Application Information, dated February 5, 2026 (“February 5 Letter”) circulated to PAWC from the Bureau of Technical Utility Services (“TUS”).

As further discussed within the Responses, PAWC believes several issues raised by TUS are outside the scope of the application completeness phase described in the Commission’s various implementation orders at Docket No. M-2016-2543193. By way of example, TUS is directing PAWC to make significant changes to its application, including but not limited to, removing millions of dollars in assets from its Engineering Assessment and revising several legal agreements related to the

Matthew L. Homsher, Secretary
February 19, 2026
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transaction. It is PAWC's position that TUS' direction is inconsistent with the Commission's implementation orders at Docket No. M-2016-2543193, which state that TUS should only confirm whether the Application Checklist is complete and "shall not refuse to perfect an application on the basis that the Bureau is dissatisfied with the quality of items submitted in response, or whether additional information may later be required."¹

PAWC reached out to TUS to schedule a conference call to discuss its concerns. Based on PAWC's subsequent call with TUS, it is apparent that PAWC and TUS have fundamentally different interpretations of Commission precedent at Docket No. M-2016-2543193. **Accordingly, if TUS does not agree with PAWC's positions in the attached Responses, PAWC respectfully requests that TUS reject its application at the above-referenced docket expeditiously so that PAWC may appeal this matter and seek guidance regarding these issues from the Commission pursuant to 52 Pa. Code § 5.44.**

Thank you for your attention to this matter. Please do not hesitate to contact me if you have any questions.

Sincerely,



Teresa K. Harrold

cc: Certificate of Service (*via electronic mail*)
Sean Donnelly, Bureau of Technical Utility Services (*via electronic mail*)
Dan Searfoorce, Bureau of Technical Utility Services (*via electronic mail*)
Paul Diskin, Bureau of Technical Utility Services (*via electronic mail*)

¹ *Implementation of Section 1329 of the Public Utility Code - Tentative Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered September 20, 2018) at 15; *Implementation of Section 1329 of the Public Utility Code - Final Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered July 2, 2024) at 53.

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

In re: Application of Pennsylvania-American Water :
Company under Sections 1102(a) and 1329 of the :
Pennsylvania Public Utility Code, 66 Pa C.S. §§ :
1102(a) and 1329, for approval of (1) the transfer, by :
sale, to Pennsylvania-American Water Company, of :
substantially all of the assets, properties and rights : Docket No. A-2025-3053487
related to the wastewater system owned and :
operated by the East Coventry Township, and (2) the :
rights of Pennsylvania- American Water Company to :
begin to offer or furnish wastewater service to the :
public in the Township of East Coventry, Chester :
County, Pennsylvania :

CERTIFICATE OF SERVICE

I hereby certify that I have served a true copy of the foregoing **Amended Application** upon the parties, listed below in accordance with the requirements of 52 Pa. Code §1.54 (relating to service by a party).

PARTIES SERVED VIA ELECTRONIC MAIL ON FEBRUARY 19, 2026

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***Attorneys for
Pennsylvania-American Water Company***

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

17. Checklist Item No. 14.a. – The Amended Application’s Appendix A-14-a included a copy of the direct testimony of Christina E. Chard (Chard Testimony). The Chard Testimony, Page 8 referenced PAWC Exhibit CEC-2. However, the Chard Testimony and the Amended Application do not include a copy of PAWC Exhibit CEC-2. Please provide a revised Appendix A-14-a that includes a copy of PAWC Exhibit CEC-2.

Response:

Please see **Amended Appendix A-14-a** for a complete copy of Dr. Christina Chard’s Testimony including PAWC Exhibit CEC-2.

Prepared by: Dr. Christina Chard, Senior Director Rates and Regulatory
American Water Works Service Company

Date: February 19, 2026

**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

AMENDED APPENDIX A-14-a

PAWC Statement No. 2 – Direct Testimony of Dr. Christina Chard

(including all Exhibits)

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

In re: Application of Pennsylvania-American :
Water Company under Sections 1102(a) and :
1329 of the Pennsylvania Public Utility Code, :
66 Pa C.S. §§ 1102(a) and 1329, for approval :
of (1) the transfer, by sale, to Pennsylvania- :
American Water Company, of substantially :
all of the assets, properties and rights related : Docket Nos. A-2025-3053487, et al.
to the wastewater system owned and operated :
by East Coventry Township, and (2) the rights :
of Pennsylvania-American Water Company :
to begin to offer or furnish wastewater service :
to the public in the Township of East :
Coventry, Chester County, Pennsylvania

**DIRECT TESTIMONY OF
DR. CHRISTINA E. CHARD ON BEHALF OF
PENNSYLVANIA-AMERICAN WATER COMPANY**

Date: October 8, 2025

PAWC Statement No. 3

**DIRECT TESTIMONY OF
DR. CHRISTINA E. CHARD**

Introduction

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Q. WHAT IS YOUR NAME AND ADDRESS?

A. My name is Christina Chard; my address is 1600 Pennsylvania Ave, Charleston WV 25302.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am employed by American Water Works Service Company (the “Service Company”) as the Senior Director of Rates and Regulatory for Pennsylvania-American Water Company (“PAWC” or “the Company”). The Service Company is a wholly owned subsidiary of American Water Works Company, Inc. (“American Water”) that provides services to PAWC and its affiliates.

Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A. I hold a doctorate degree in Executive Leadership, a Master’s degree in Forensic Accounting, and a Bachelor of Science Degree in Mathematics from the University of Charleston. I have also completed the National Association of Regulatory Utility Commissioners' utility ratemaking course and as of 2025 am serving as a coach/instructor for the course. I have served in progressively responsible state rates and regulatory support roles with American Water since 2018. Please see Appendix A to this testimony for additional details of my professional experience.

1 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE THE**
2 **PENNSYLVANIA PUBLIC UTILITY COMMISSION (THE “COMMISSION” OR**
3 **“PUC”)?**

4 **A.** Yes. I prepared and provided testimony in PAWC’s 2020 base rate case at Docket No. R-
5 2020-3019369. In addition, I have testified in numerous acquisition cases, surcharge
6 mechanism cases, the 2018 federal tax change investigation, and base rate cases before the
7 West Virginia Public Service Commission on behalf of another American Water
8 subsidiary, West Virginia-American Water. I also testified in an acquisition rulemaking
9 case before the Tennessee Public Utility Commission.

10
11 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

12 **A.** My testimony first addresses the financial fitness of PAWC to acquire and operate the
13 wastewater system (“System”) currently owned by East Coventry Township (the
14 “Township”), which PAWC has agreed to purchase (the “Transaction”). Second, my
15 testimony addresses: (a) the identification of ratemaking rate base as required in 66 Pa.
16 C.S § 1329 for PAWC’s acquisition of the System; (b) an overview of the rate provisions
17 contained in the Asset Purchase Agreement (“APA”) for PAWC’s acquisition of the
18 System; (c) the customer notices associated with the Transaction; (d) a description of
19 PAWC’s low-income programs; (e) an estimate of the range of transaction and closing
20 costs incurred by PAWC; (f) a statement regarding PAWC’s intentions with respect to
21 accrual of certain post-acquisition improvement costs and deferral of related depreciation;
22 (g) cost of service study in future rate cases; and, (h) the authentication of certain
23 Application appendices.

1 **PAWC’S Financial Fitness**

2 **Q. PLEASE DISCUSS PAWC’S FINANCIAL FITNESS.**

3 **A.** PAWC is the Commonwealth’s largest water and wastewater provider, with total assets of
4 \$7.9 billion and annual revenues of \$1.04 billion for 2024. For 2024, PAWC had operating
5 income of approximately \$498 million and net income of approximately \$314 million.
6 These operating results produced cash flows from operations of approximately \$615
7 million. Given its size, access to capital and its recognized strengths in system planning,
8 capital budgeting and construction management, PAWC is well-positioned from a
9 financial, managerial and technical perspective to ensure that high quality water and
10 wastewater service meeting all federal and state requirements is provided to the System’s
11 customers and maintained for PAWC’s existing customers.

12
13 **Q. PLEASE DISCUSS PAWC’S OVERALL FINANCIAL FITNESS AND ACCESS TO
14 CAPITAL TO ACQUIRE THE AUTHORITY’S SYSTEM.**

15 **A.** PAWC has strong operating cash flows and net income and, therefore, a strong balance
16 sheet. PAWC’s strong operating and financial performance allows it to obtain competitive
17 interest rates for long-term debt financing and access to equity investments from its parent
18 company. PAWC is a financially-sound business that can financially support the
19 acquisition of the Systems as well as the ongoing operating and investment commitments
20 that will be required to operate, maintain, and improve those assets in serving the public.

21 **Line of Credit**

22 PAWC presently has liquidity through a \$495 million line of credit through American
23 Water Capital Corp. (“AWCC”), a wholly owned subsidiary of American Water Works

1 Company, Inc. (“American Water”). PAWC’s strong credit ratings allow PAWC to obtain
2 additional capacity on this line of credit.

3 **Long Term Debt Financing**

4 PAWC carries a corporate credit rating of “A3” from Moody’s Investors Services and an
5 “A” rating from Standard and Poor’s Rating Services. PAWC obtains long-term debt
6 financing through AWCC at favorable interest rates and payment terms. When applicable,
7 PAWC also uses low-cost financing through the Pennsylvania Infrastructure Investment
8 Authority (“PENNVEST”) and the Pennsylvania Economic Development Financing
9 Authority (“PEDFA”).

10 **Equity Investments**

11 PAWC may obtain additional equity investments through American Water based on its
12 strong operating performance.

13
14 **Q. PLEASE EXPLAIN HOW PAWC INTENDS TO FUND THE TRANSACTION.**

15 **A.** PAWC will initially fund the Transaction with short-term debt and will later replace it with
16 a combination of long-term debt and equity capital.

17
18 **Q. WHAT IMPACT, IF ANY, DO YOU ANTICIPATE THAT THE ACQUISITION OF
19 THE SYSTEM WILL HAVE ON PAWC’S CORPORATE CREDIT RATINGS?**

20 **A.** As stated above, PAWC does not anticipate that the acquisition of the System will have a
21 significant impact on its credit ratings.

22 **Q. DO YOU ANTICIPATE THE TRANSACTION HARMING PAWC’S FINANCIAL
23 STATUS IN ANY MANNER?**

1 A. No. PAWC does not anticipate that the acquisition of the Systems will have a negative
2 impact on PAWC’s cash flows, credit ratings or access to capital and, therefore, will not
3 deteriorate in any manner PAWC’s ability to continue to provide safe, adequate, and
4 reasonable service to its existing customers at just and reasonable rates.

5

6 **Fair Market Value Ratemaking Rate Base**

7 **Q. PLEASE STATE THE RATE BASE REQUESTED IN THE APPLICATION**
8 **PURSUANT TO 66 PA. C.S § 1329.**

9 A. The negotiated purchase price for the acquired assets is \$7,000,000 and the average of the
10 appraisals of the buyer’s Utility Valuation Expert (“UVE”) and the seller’s UVE is
11 \$13,405,035. Accordingly, the negotiated purchase price of \$7,000,000 is the fair market
12 value for ratemaking purposes under Section 1329 (*i.e.* the lower of the negotiated purchase
13 price and the average of the UVEs’ appraisals). The fair market value as determined by
14 the Section 1329 process, in addition to the transaction and closing costs described below,
15 becomes part of PAWC’s rate base for ratemaking purposes. Note, however, that PAWC
16 reserves its right in future proceedings to make rate base claims related to the acquisition
17 as may otherwise be permitted under the Pennsylvania Public Utility Code (“Code”).

18

19 **Q. PLEASE SUMMARIZE HOW THE COMPANY PROPOSES TO RECORD THE**
20 **TRANSACTION.**

21 A. As shown on **Appendix A-15-f**, the Company seeks approval to record the \$7,000,000 net
22 value of the assets on its books. The Company requests to record the acquisition on a net
23 basis consistent with generally accepted accounting principles, which advise that property,

1 plant and equipment acquired in a business combination intended to be held and used
2 should be recognized and measured at fair value, and that the accumulated depreciation of
3 the acquiree is not carried forward in a business combination (*i.e.*, net presentation).¹
4 Permitting PAWC to use this accounting treatment for the assets would be consistent with
5 the Commission’s decision in *Application of Pennsylvania-American Water Company*
6 *under Section 1102(a) of the Pennsylvania Public Utility Code, 66 Pa. C.S. § 1102(a), for*
7 *Approval of the Transfer, by Sale, to Pennsylvania-American Water Company, of*
8 *Substantially All of the Assets, Properties and Rights Related to the Wastewater Collection*
9 *and Treatment System Owned by the York City Sewer Authority and Operated by the City*
10 *of York, Docket Nos. A-2021-3024681 et al. (Final Order entered April 14, 2022) ¶ 3(h)*
11 *and Application of Pennsylvania-American Water Company , pursuant to 66 Pa. C.S. §§*
12 *1102 and 1329 for Approval of the Acquisition of the Butler Area Sewer Authority, Docket*
13 *No. A-2022-3037047 (Order entered November 16, 2023) ¶ 14.*

14 Section 1329(c) provides that the “ratemaking rate base” is to be incorporated into
15 PAWC’s rate base. As discussed above, the Company requests the Commission approve
16 \$7,000,000 as the ratemaking rate base for the System.² Since Section 1329 does not
17 address the proper accounting treatment of the rate base or approval of a depreciation
18 reserve in determining the ratemaking rate base, the Company believes that recording
19 \$7,000,000, on a net basis, is appropriate and consistent with Section 1329.

¹ ASC 805-20 *Business Combinations – Identifiable Assets and Liabilities, and any Noncontrolling Interest* and ASC 820-10-30 *Fair Value Measurement – Initial Measurement*.

² “The ratemaking rate base of the selling utility shall be the lesser of the purchase price negotiated by the acquiring public utility or entity and selling utility or the fair market value of the selling utility.” 66 Pa. C.S. § 1329(c).

Asset Purchase Agreement Rate Provisions

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Q. PLEASE PROVIDE AN OVERVIEW OF THE RATE PROVISIONS OF THE APA.

A. Section 7.04 of the APA contains provisions related to rates. PAWC has committed to adopt, upon closing of the Transaction (“Closing”), the Township’s monthly base rates. These rates are shown on Schedule 6.10 to the APA.

The initial rates to be applicable to the former Township wastewater customers are set forth in the *pro forma* tariff supplement attached as **Appendix A-12** to the Application. System customers will be governed by rates for new East Coventry Rate Zone “XX.” After Closing, System customers will be subject to PAWC’s prevailing wastewater tariff on file with the Commission with respect to all rates other than base rates, such as capacity reservation fees, reconnection fees, and the like, as well as non-rate related terms and conditions of service.

Q. PLEASE PROVIDE AN OVERVIEW OF PAWC EXHIBIT CEC-2.

A. PAWC will implement the Township’s EDU allocations, consistent with the Section 1329 requirement to take on existing rates. PAWC’s current active tariff provides that for customers acquired by the Company through a purchase or acquisition, information on the equivalent dwelling units is available at the Company’s website. The EDU allocation for the Township that will be posted to PAWC’s website is attached to my testimony as **PAWC Exhibit CEC-2.**

Q. WHAT IMPACT, IF ANY, WILL THERE BE ON THE RATES OF THE TOWNSHIP’S CUSTOMERS AS A RESULT OF THE ACQUISITION OF THE SYSTEM?

1 A. There will be no immediate impact on the rates of the Township’s customers because
2 PAWC has committed to adopt, upon Closing, the Township’s rates in effect at the time of
3 Closing. PAWC expects to propose to move the Township’s rates toward consolidated
4 rates in future base rate cases. Subject to Commission approval, PAWC anticipates
5 allocating a portion of its wastewater revenue requirement to the combined water and
6 wastewater customer base, as permitted by 66 Pa. C.S. § 1311(c).

7

8 **Q. WHAT IMPACT, IF ANY, WILL THERE BE ON THE RATES OF PAWC’S**
9 **CURRENT WATER AND WASTEWATER CUSTOMERS AS A RESULT OF THE**
10 **ACQUISITION OF THE SYSTEM?**

11 A. There will be no immediate impact on the rates of PAWC’s current water and wastewater
12 customers. PAWC expects to include the Township’s wastewater system in PAWC’s
13 future base rate filings. Any impacts on the rates of PAWC’s existing water and wastewater
14 customers would occur only after a Commission decision in a base rate proceeding. A non-
15 binding estimate of possible rate impacts for existing water and wastewater customers is
16 shown in **Appendix A-18-d** and discussed in the Customer Notice section below. The
17 Township’s customers, as part of PAWC’s overall customer base, will become part of
18 PAWC’s overall cost allocation. Nothing contained in the APA would bind the
19 Commission or other interested parties in future ratemaking proceedings.

20

21 **Q. DOES PAWC SEEK THE AUTHORITY TO CHARGE NON-BASE RATES PRIOR**
22 **TO THE FIRST PAWC BASE RATE CASE IN WHICH THE SYSTEM IS**
23 **INCLUDED?**

1 A. Yes. PAWC is requesting authority from the Commission to approve collection of a
2 distribution system improvement charge (“DSIC”) related to the System in the future, prior
3 to the first base rate case in which the System plant-in-service is incorporated into rate
4 base. PAWC would not begin charging a DSIC until the eligible System plant is approved
5 by the Commission in an amendment to PAWC’s Long Term Infrastructure Improvement
6 Plan for wastewater.

7 **CUSTOMER NOTICE AND POTENTIAL RATE IMPACT**

8 **Q. IS PAWC PROVIDING NOTICE TO CUSTOMERS OF THE ACQUISITION?**

9 A. Yes. PAWC is providing notice of the acquisition to existing PAWC water and wastewater
10 customers as well as to the Township’s wastewater customers. The notices to PAWC
11 customers and Township wastewater customers are attached to the application as
12 **Appendix A-18-d**. These notices contain a non-binding estimate of the potential rate
13 impact of the acquisition.

14
15 **Q. HOW WERE THE ESTIMATES OF POTENTIAL RATE IMPACTS**
16 **CALCULATED FOR THE NOTICES PROVIDED IN APPENDIX A-18-D?**

17 A. These notices were prepared in accordance with the *2024 Final Supplemental*
18 *Implementation Order (“2024 FSIO”)*.³ This Order prescribes the form and calculation
19 of the notices for future Section 1329 acquisition proceedings. As required by the Order,
20 the notices included in **Appendix A-18-d** are calculated to show the impact as if the entire
21 revenue requirement deficiency were allocated to System customers, existing PAWC water

³ *Valuation of Acquired Municipal Water and Wastewater Systems – Act 12 of 2016 Implementation*, Docket No. M-2016-2543193 (Opinion and Order entered July 2, 2024) (“2024 FSIO”).

1 customers, and existing PAWC wastewater customers. The rate impacts resulting from
2 these calculations are discussed in more detail below.

3
4 **Q. PLEASE SUMMARIZE THE CALCULATION OF THE POTENTIAL RATE**
5 **IMPACT SHOWN IN THE NOTICE TO THE TOWNSHIP’S CUSTOMERS.**

6 **A.** As shown in **Appendix A-18-d**, the notice to Township customers shows the following
7 information regarding the potential rate impacts of the acquisition:

Rate Class	Average Usage	Estimated Monthly Increase	Estimated Percentage Increase
Residential	3,201 gal/month	\$44.41	65.0%
Commercial	22,094 gal/month	\$44.41	65.0%

8
9 The 82.8% increase shown in the chart above is calculated as 100% of the revenue
10 deficiency, divided by the Year One revenues of the System. The current average monthly
11 bill is calculated using the Township’s wastewater rates and the average usage for each
12 customer class as reflected in the filing of PAWC’s most recently approved base rate case
13 (Docket No. R-2023-3043189).

14
15 **Q. IF THIS TRANSACTION IS NOT APPROVED, WOULD THE TOWNSHIP’S**
16 **CUSTOMERS EXPERIENCE A RATE INCREASE?**

17 Yes, as further discussed in the direct testimony of the Township’s witness Ray
18 Kolb, if the Township is prevented from consummating the Proposed Transaction, it will
19 be required to fund the \$27 million expansion project itself. There are several ways the
20 Township could fund the project. First, the Township could raise the sewer rates for all

1 residents receiving services from the System to account for the cost of adding the Parker
2 Ford EDUs. In this scenario, the Township’s financial advisor estimates that the current
3 rate of \$68.33 will increase steadily over time, reaching \$128.66 per month in 2030, and
4 culminating in an estimated rate of \$152.00 per month in 2035.

5
6 **Q. PLEASE SUMMARIZE THE RATE IMPACT CALCULATION IN THE NOTICE**
7 **TO PAWC WASTEWATER CUSTOMERS.**

8 **A.** As shown in **Appendix A-18-d**, the notice to PAWC’s existing wastewater customers
9 shows the following information regarding the potential rate impacts of the acquisition:

10

Wastewater Rate Class	Average Usage	Estimated Monthly Increase	Estimated Percentage Increase
Residential	3,201 gal/month	\$0.44	0.40%
Commercial	22,094 gal/month	\$2.09	0.40%
Industrial	685,947 gal/month	\$60.47	0.40%

11
12 The 0.40% increase shown in the chart above is calculated by dividing 100% of the revenue
13 deficiency, by PAWC’s applicable wastewater revenues from PAWC’s most recent base
14 rate case.

15
16 **Q. PLEASE SUMMARIZE THE CALCULATION OF THE POTENTIAL RATE**
17 **IMPACT SHOWN IN THE NOTICE TO PAWC WATER CUSTOMERS.**

18 **A.** As shown in **Appendix A-18-d**, the notice to PAWC’s existing water customers shows the
19 following information regarding the potential rate impacts of the acquisition:

Water Rate Class	Average Usage	Estimated Monthly Increase	Estimated Percentage Increase
Residential	3,201 gal/month	\$0.08	0.10%
Commercial	22,094 gal/month	\$0.42	0.10%
Industrial	685,947 gal/month	\$8.86	0.10%

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The 0.10% increase shown in the chart above represents the potential impact on PAWC water customers if the revenue deficiency were entirely allocated to water customers. This allocation to water customers is divided by PAWC’s applicable water revenues from PAWC’s most recent base rate case.

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The current average monthly bill is shown at PAWC’s Zone 1 rates effective August 7, 2024 and the average usage for each customer class as reflected in the filing of PAWC’s most recent base rate case (Docket No. R-2023-3043189). The average monthly bill for PAWC Zone 1 customers after acquisition is calculated by increasing the average monthly bill amounts by the 0.10% increase, which was calculated as explained above. Please refer to **PAWC Exhibit CEC-1** for the calculation of the customer notice.

12

LOW-INCOME PROGRAMS

13

Q. PLEASE SUMMARIZE PAWC’S TARIFFED LOW INCOME DISCOUNTS.

14

A. PAWC’s low-income tariff rider provides low-income customers with discounts to fixed and volumetric charges. PAWC’s low-income discount includes four tiers of discount, with the discount level dependent on the customer’s percentage of Federal Poverty Level (“FPL”). The tariff discounts are summarized below.⁴

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⁴ Refer to Tariff Water-PA P.U.C. No. 5, page 17 and Tariff Wastewater PA P.U.C. No. 16, page 16.

Discount	Tier 1 (0-50% FPL)	Tier 2 (51-100% FPL)	Tier 3 (101-150% FPL)	Tier 4 (151-200% FPL)
Water Service Charge Discount	90%	75%	60%	30%
Water Usage Charge Discount	80%	65%	40%	20%
Wastewater Total Bill Discount	85%	73%	55%	37%

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Q. WILL TOWNSHIP CUSTOMERS BE ELIGIBLE FOR THESE DISCOUNTS UPON ACQUISITION?

A. Yes. Because PAWC is already the water provider for some Township customers, any customers enrolled in the low income discount for their water service will be automatically enrolled in the discount for wastewater service at the time of Closing. For those Township customers who are not currently a PAWC water customer, they will have the option of enrolling into the bill discount program for their wastewater bill if they meet the eligibility requirements.

In addition, the Company recently launched its Arrearage Management Program (“AMP”), which provides monthly forgiveness credits applied to customers’ account arrearages when customers make full and timely payments under the bill discount program. Finally, customers with a household income of 250% of the FPL and below are eligible for annual wastewater grants of up to \$500 under PAWC’s H2O Help to Others program.

1 **Q. PLEASE SUMMARIZE THE CURRENT COST OF PAWC’S LOW-INCOME**
2 **DISCOUNT PROGRAMS TO ITS LEGACY CUSTOMER BASE.**

3 **A.** PAWC’s low-income discount program provides discounts between 30% and 90% of the
4 water and wastewater bill to customers with an FPL of 200% or less. These discounts have
5 a small impact on customer’s bills of approximately \$2.41 per month for residential water
6 customers and approximately \$4.03 per month for residential wastewater customers.⁵

7 **TRANSACTION AND CLOSING COSTS**

8 **Q. PLEASE DESCRIBE THE ESTIMATED TRANSACTION AND CLOSING COSTS**
9 **FOR THE TRANSACTION.**

10 **A.** As set forth in the Commission’s *Final Implementation Order* at Docket No. M-2016-
11 2543193, transaction and closing costs include the UVE’s appraisal fee and the buyer’s
12 closing costs, including reasonable attorney fees. In accordance with the *Final*
13 *Implementation Order* and traditional ratemaking principles, reasonable transaction and
14 closing costs are not to be decided in this Application proceeding; instead, PAWC must
15 justify the costs by a “preponderance of the evidence” in a future base rate proceeding.

16 As a practical matter, the exact extent of such costs cannot be known at the time of
17 filing the Application and will not be finally known until after Closing. The costs depend
18 on a number of variables, including whether this Application is settled or fully litigated.
19 PAWC will track such costs and incorporate them into rate base in a future base rate
20 proceeding as appropriate. Nevertheless, attached to the Application as **Appendix A-10** is

⁵ The amounts shown in this paragraph are calculated as the discounted revenue divided by the number of residential customers at Docket No. R-2023-3043189.

1 PAWC's estimate of the anticipated transaction and closing costs (approximately \$1.025
2 million).

3 **POST-ACQUISITION IMPROVEMENT COSTS**

4 **Q. PLEASE STATE YOUR UNDERSTANDING OF SECTION 1329 WITH RESPECT**
5 **TO POST-ACQUISITION IMPROVEMENT COSTS.**

6 **A.** I am advised by counsel that Section 1329(f) allows "an acquiring public utility's post
7 acquisition improvements that are not included in a distribution system improvement
8 charge [to] accrue allowance for funds used during construction ["AFUDC"] after the date
9 the cost was incurred until the asset has been in service for a period of four years or until
10 the asset is included in the acquiring public utility's next base rate case, whichever is
11 earlier." Section 1329(f) also provides that "[d]epreciation on an acquiring public utility's
12 post-acquisition improvements that have not been included in the calculation of a
13 distribution system improvement charge shall be deferred for book and ratemaking
14 purposes."

15
16 **Q. DOES PAWC INTEND TO ACCRUE AFUDC FOR POST-ACQUISITION**
17 **IMPROVEMENTS?**

18 **A.** Yes. As summarized in the Direct Testimony of PAWC Witness Mr. Daniel Hufton, P.E.,
19 PAWC's Engineering Manager, PAWC Statement No. 2, PAWC will be making post-
20 acquisition improvements to the System. As such, PAWC will likely accrue AFUDC
21 consistent with what is permitted under Section 1329. PAWC will address any claims for
22 AFUDC in the first base rate proceeding in which the Township's assets are included.

23

1 **Q. DOES PAWC INTEND TO DEFER DEPRECIATION ON NON-DSIC-ELIGIBLE**
2 **POST-ACQUISITION IMPROVEMENTS FOR BOOK AND RATEMAKING**
3 **PURPOSES?**

4 **A.** Yes. Section 1329(f) permits such deferral of depreciation. The statute appears to allow
5 deferral without specific Commission approval; however, out of an abundance of caution,
6 PAWC is specifically petitioning the Commission, as part of this Application proceeding,
7 for permission to defer the depreciation for book and ratemaking purposes.

8 **COST OF SERVICE STUDY IN FUTURE BASE RATE CASE**

9 **Q. PLEASE DISCUSS THE SEPARATE COST OF SERVICE STUDY (“COSS”)**
10 **DIRECTIVE FROM THE ORDER APPROVING THE COMPANY’S LAST BASE**
11 **RATE CASE AT DOCKET NO. R-2023-3043189.**

12 **A.** Page 217 of the Commission Order approving the Company’s last base rate case included
13 a directive requiring PAWC to prepare separate COSSs for new Section 1329 acquisitions
14 in the first base rate proceeding where those systems are included in PAWC’s revenue
15 requirement.

16 In the first base rate case in which the Township is included, the Company will
17 complete a separate COSS for the Township’s system, and reflect a revenue requirement
18 separate from the existing SSS wastewater customers.

19 **AUTHENTICATION OF APPLICATION APPENDICES**

20 **Q. ARE YOU FAMILIAR WITH THE APPLICATION FILED BY PAWC IN THIS**
21 **PROCEEDING?**

22 **A.** Yes, I helped to prepare several of the appendices in support of the Application and I have
23 reviewed the final version of the Application and the appendices.

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Q. PLEASE IDENTIFY WHICH APPLICATION APPENDICES WERE PREPARED BY YOU OR UNDER YOUR SUPERVISION AND CONTROL?

A. Appendix A-10 is the Company’s estimate of the anticipated range of transaction and closing costs. The *pro forma* tariff supplement is attached as **Appendix A-12** to the Application. In addition, based on financial statements provided by the Township and on PAWC’s audited financial statements, the following appendices were prepared: **Appendix C** (audited balance sheet of the Township as of December 31, 2024), **Appendix D** (audited balance sheet of PAWC as of December 31, 2024), **Appendix E** (audited income statement of the Township for the 12 months ended December 31, 2024), **Appendix F** (audited income statement of PAWC for the 12 months ended December 31, 2024), **Appendix G** (*pro forma* balance sheet of PAWC, giving effect to the transfer), **Appendix H** (*pro forma* consolidated income statement of PAWC and the Township for 12 months) and **Appendix K** (estimated annual revenues and expenses).

Q. ARE APPENDICES A-10 AND A-12, APPENDICES C THROUGH H, AND APPENDIX K TRUE AND CORRECT TO THE BEST OF YOUR KNOWLEDGE, INFORMATION, AND BELIEF?

A. Yes.

CONCLUSION

Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes. However, I reserve the right to supplement my direct testimony as additional issues and facts arise during the course of the proceeding. Thank you.

APPENDIX A

From 2015 to 2017, I served as Assistant Professor and Director of the University of Charleston's Master of Forensic Accounting ("MFAcc") Program. I provided administrative oversight of the program to include curriculum development, faculty development and coordination, program assessment, recruiting, retention, marketing, and fiscal planning and management. I also served as faculty in the MFAcc program, teaching MFACC 624 - Data as Evidence which included data mining, probability concepts and calculations, link analysis, timelines and relationship charts, and applications of statistics in the courtroom. In addition, I taught the following undergraduate courses: BUSI 215 – Business Software, ACCT 460 – Accounting Information Systems, and ACCT 281 - Introduction to Forensic Accounting.

From 2010 to 2015, I served as Manager of Information Technology Services Expense Management for American Water ("AW"), responsible for managing operating and capital expenditures for the ITS department. I proposed and received approval for establishment of AW's first IT Finance team overseeing the management of IT related operating and capital funding projects across AW's subsidiaries. I was responsible for business planning and reporting, contracts processing, capital asset management, procurement of ITS goods/services, and budget management of \$70M+ annually. During this time, I also served as the ITS functional lead member of AW's Procure to Pay Service Delivery Council. I established the Centrally Sponsored Financial Model for use by the company in SAP and related system asset management post-system implementation. I established an annual CIO communication to state presidents, finance, rates, and capital leads within the operating companies for the purpose of communication business planning needs for information systems projects at enterprise and state levels

APPENDIX A

From 2003 to 2010, I served as Team Lead for the ITS Service Delivery department overseeing up to 9 states and service company locations with 22 support specialists for the delivery of information technology services such as local network, computer, and software support.

I also serve as a contract instructor and presenter for the National Association of Valuators and Analysts (NACVA), presenting on topics such as computer forensics and the digital age.

East Coventry Township Wastewater Customers

Wastewater

Rate Class	Average Usage	Monthly Bill at East Coventry Township Rates at Closing (1 EDU)	Potential Average Monthly Bill	Potential Increase
Residential	3,201 gal/month	\$68.33	\$112.74	\$44.41 or 65.0%
Commercial	22,094 gal/month	\$68.33	\$112.74	\$44.41 or 65.0%

PAWC Current Customers

Wastewater

Rate Class	Average Usage	Average Monthly Bill at PAWC Zone 1 Rates	Average Monthly Bill at PAWC Zone 1 Rate Adjusted for Potential Impact of Acquisition	Potential Increase
Residential	3,201 gal/month	\$109.55	\$109.99	\$0.44 or 0.4%
Commercial	22,094 gal/month	\$522.46	\$524.55	\$2.09 or 0.4%
Industrial	685,947 gal/month	\$15,117.93	\$15,178.40	\$60.47 or 0.4%

Water

Rate Class	Average Usage	Average Monthly Bill at PAWC Zone 1 Rates	Average Monthly Bill at PAWC Zone 1 Rate Adjusted for Potential Impact of Acquisition	Potential Increase
Residential	3,201 gal/month	\$78.89	\$78.97	\$0.08 or 0.1%
Commercial	22,094 gal/month	\$419.34	\$419.76	\$0.42 or 0.1%
Industrial	685,947 gal/month	\$8,863.12	\$8,871.98	\$8.86 or 0.1%

Pennsylvania American Water Company
Acquisition of Wastewater Assets of the East Coventry Township
Docket No. A-2025-3053487

East Coventry Township Wastewater

PAWC - Wastewater

PAWC - Water

Residential		
	Flat Rate per EDU	\$68.33
		\$68.33

Zone 1 - Residential		
	Service Charge	\$15.00
32.01	2.9539	94.55
		\$109.55

Zone 1 - Residential		
5/8"	Service Charge	\$18.80
32.01	1.8772	60.09
		\$78.89

Rate Impact $\frac{65.0\%}{\$44.41}$

Rate Impact $\frac{0.4\%}{\$0.44}$

Rate Impact $\frac{0.1\%}{\$0.08}$

Total \$112.74

Total \$109.99

Total \$78.97

Commercial		
	Flat Rate per EDU	\$68.33
		0.00
		\$68.33

Zone 1 - Commercial		
	Service Charge	\$36.70
220.94	2.1986	485.76
		\$522.46

Zone 1 - Commercial		
1"	Service Charge	\$48.40
160.00	1.8033	288.53
60.94	1.3523	82.41
220.94		
		\$419.34

Rate Impact $\frac{65.0\%}{\$44.41}$

Rate Impact $\frac{0.4\%}{\$2.09}$

Rate Impact $\frac{0.1\%}{\$0.42}$

Total \$112.74

Total \$524.55

Total \$419.76

Industrial		
	Flat Rate per EDU	N/A

Zone 1 - Industrial		
	Service Charge	\$36.70
6,859.47	2.1986	15,081.23
		15,117.93

Zone 1 - Industrial		
2"	Service Charge	\$224.00
160.00	1.6720	267.52
5,840.00	1.2860	7,510.24
859.47	1.0022	861.36
6,000.00		
		8,863.12

Rate Impact $\frac{N/A}{}$

Rate Impact $\frac{0.4\%}{\$60.47}$

Rate Impact $\frac{0.1\%}{\$8.86}$

Total

Total \$15,178.40

Total \$8,871.98

Pennsylvania American Water Company
 Acquisition of Wastewater Assets of the East Coventry Township
 Docket No. A-2025-3053487

Estimated Rate Increase

Increase applied to Acquired System Customers	
Revenue Requirement Increase	\$ 658,000
Current East Coventry Township Wastewater revenues	1,013,000
Estimated Increase to wastewater customers	65.0%

Amount of increase allocated to wastewater customers and applied to the revenues of existing PAWC wastewater customers:	
Revenue Requirement Increase	\$ 658,000
PAWC Wastewater Revenues (R-2023-3043189 Proof of Revenues excl. Other Operating Revenues & Contract Sales)	174,906,969
Estimated Increase to wastewater customers	0.4%

Amount of increase allocated to water customers:	
Revenue Requirement Increase	\$ 658,000
PAWC Water Revenues (R-2023-3043189 Proof of Revenues excl. Other Operating Revenues & Contract Sales)	890,733,518
Estimated Increase to Water Customers	0.1%

**Pennsylvania American Water Company
 Acquisition of Wastewater Assets of the East Coventry Township
 Docket No. A-2025-3053487**

Revenue Requirement Increase

Rate Base	\$	7,000,000	Appendix A-11
Rate of Return %		7.15%	See Calculations
Rate of Return		<u>501,000</u>	
O&M		741,000	Appendix K
Taxes Other		133,000	Appendix K
Depreciation		167,000	Appendix K
Taxes		129,000	See Calculations
Revenue Requirement		1,671,000	
East Coventry Township Wastewater Year-1 Revenues		1,013,000	Appendix K
Revenue Requirement Increase		658,000	

Pennsylvania American Water Company
Acquisition of Wastewater Assets of the East Coventry Township
Docket No. A-2025-3053487

Income Tax Calculation

Revenue Requirement	
Rate Base	\$ 7,000,000
Pretax ROR %	8.99%
Pretax ROR	629,000
Plus: O&M Expense	741,000
Taxes Other	133,000
Depreciation	167,000
Total Revenue Requirement	<u>1,670,000</u>

Income Tax Calculation	
Revenues	\$ 1,670,000
Less: O&M Expense	741,000
Taxes Other	133,000
Depreciation	167,000
Interest	151,000
SIT Taxable Income	478,000
State Income Tax Rate	7.49%
State Income Tax	36,000
FIT Taxable Income	442,000
Federal Income Tax Rate	21.00%
Federal Income Tax	93,000
Total Income Taxes	<u>129,000</u>

Interest	
Rate Base	\$ 7,000,000
Weighted Cost of Debt (2.03% + 0.12%)	2.15%
	<u>\$ 151,000</u>

Wastewater	Capital Structure	Cost Rate	Weighted Cost	Revenue Multiplier	Revenue Requirement
Long-Term Debt	42.73%	4.76%	2.03%		2.03%
Wastewater Financing	4.40%	2.67%	0.12%		0.12%
Preferred Stock	0.00%	0.00%	0.00%	1.36831	0.00%
Common Equity	52.87%	9.45%	5.00%	1.36831	6.84%
			<u>7.15%</u>		<u>8.99%</u>

Capital Structure, Cost of Debt, and Cost of Equity are based on PAWC's last wastewater base rate case. Docket No. R-2023-3043189, Order Entered July 22, 2024, page 200. State Income Tax Rate of 7.49% in effect 1/1/2026.

Revenue Multiplier

Statutory State Tax Rate	0.0749
Statutory Federal Tax Rate	0.21
1- State Tax Rate	0.9251
Fed Rate Times (1-State Tax Rate)	0.194271
Effective Tax Rate	0.269171
1-Eff Tax Rate	0.730829
Reciprocal	1.36831

Pennsylvania American Water Company
Acquisition of Wastewater Assets of the East Coventry Township
Docket No. A-2025-3053487

Operating Revenue Assumptions

Annual EDUS	Rate	Revenue
14,820	68.33	1,013,000
Total Revenues		\$1,013,000

**Pennsylvania American Water Company
Acquisition of Wastewater Assets of the East Coventry Township
Docket No. A-2025-3053487**

O&M and General Tax Assumptions

Operating and Maintenance Expenses

Labor and Labor Related	\$93,000
Fuel & Power	23,000
Waste Disposal	187,000
Management Fees	3,000
Contracted Services	9,000
Insurance Other Than Group	18,000
Maintenance	21,000
Customer Accounting	9,000
Rents	3,000
General Office Expense	2,000
Miscellaneous	373,000
Total O&M	\$741,000

General Taxes

Property Tax	\$127,000
Payroll Taxes	\$6,000
Total General Taxes	\$133,000

Related to Section A, Rule 26. Equivalent Dwelling Units or EDU

For existing customers in East Coventry that are connected to the system prior to the Company’s acquisition, the number of equivalent dwelling units is determined as follows:

Unit Schedule for East Coventry Municipal Sewer Authority	
Category	Units
Each Residential Dwelling	1
Non- Residential Unit a. Minimum (rounded up if fractional)	1

For non-residential users, the value of one (1) EDU is two hundred sixty-two and one half (262.5) U.S. gallons per day (gpd) of sewage discharge; or where public water service is available, two hundred (200) gpd of water based on maximum monthly water consumption over 24 months.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

In re: Application of Pennsylvania-American Water Company under Sections 1102(a) and 1329 of the Pennsylvania Public Utility Code, 66 Pa C.S.§§ 1102(a) and 1329, for approval of (1) the transfer, by sale, to Pennsylvania-American Water Company, of substantially all of the assets, properties and rights related to the wastewater system owned and operated by the East Coventry Township, and (2) the rights of Pennsylvania- American Water Company to begin to offer or furnish wastewater service to the public in the Township of East Coventry, Chester County, Pennsylvania

Docket No. A-2025-3053487, *et al.*

VERIFICATION

I, Dr. Christina E. Chard, hereby state that the facts set forth in PAWC Statement No. 3 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: February 19, 2026



Dr. Christina E. Chard
Senior Director of Rates and Regulatory
Pennsylvania-American Water Company

66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487

Set 2

18. Checklist Item No. 15.a. – Amended Appendix A-15-a included a copy of the amended Engineering Assessment (Amended Engineering Assessment) prepared by Carroll Engineering Corporation dated April 2024 and revised February 2025 and September 2025. In response to Deficiency Item No. 3, PAWC-WD indicated that the difference in number of total service connections between the Amended Engineering Assessment and the Application is due to the Coventry Chase development. Further, PAWC-WD also indicated that the gravity sewer mains and laterals (Coventry Chase Assets) within the Coventry Chase development have not yet been dedicated to East Coventry Township, which is expected to occur prior to the closing of the transaction. PAWC-WD also clarified that East Coventry Township is now billing wastewater customers connected to the Coventry Chase Assets. Checklist Item No. 15.a. requires the Engineering Assessment to provide an inventory of the used and useful plant assets to be transferred, and the Engineering Assessment does not include the Coventry Chase Assets. However, the Coventry Chase Assets are not currently owned by East Coventry Township. Please provide responses to the following:
- a. Provide evidence that East Coventry Township has accepted dedication of the Coventry Chase Assets from the developer of the Coventry Chase development and provide a revised Appendix A-15-a that includes an updated Amended Engineering Assessment with an accurate inventory of all the used and useful plant assets to be transferred; or
 - b. Provide a revised Amended Application along with all associated appendices that removes the Coventry Chase Assets from the East Coventry Township wastewater system assets that will be transferred as part of the proposed transaction.

Response:

Checklist Item No. 15.a. of Appendix A of the Commission’s 2024 Final Supplemental Implementation Order at Docket No. M-2016-2543193 requires PAWC to “provide an inventory of the used and useful plant assets to be transferred.” PAWC’s Engineering Assessment meets this requirement. As of the date the Engineering Assessment was prepared, East Coventry did not own

66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487

Set 2

the Coventry Chase sewer assets; therefore, the Engineering Assessment correctly did not include the Coventry Chase assets in its inventory of used and useful plant assets to be transferred. The Parties expect the assets to be dedicated to East Coventry before closing, which, consistent with the APA, would be transferred to PAWC at closing. It is common that capital projects are in progress during the pendency of a PUC acquisition proceeding that result in additional assets being dedicated to the acquiring utility prior to closing. The substance of the Engineering Assessment and the reasonableness of the assets included in it are substantive issues for the Commission's consideration in its final disposition of this matter, not an application completeness question for TUS.

The scope of TUS' authority to review Section 1329 applications is discussed extensively in the Commission's orders at Docket No. M-2016-2543193. The Commission explains:

The Commission would clarify here that [TUS] does not review the veracity or substantive quality of information that an applicant may submit to fulfill the threshold requirements of the Application Checklist. [TUS] is to evaluate only whether the Application Checklist is complete and responsive to the data requested. ***It shall not refuse to perfect an application on the basis that the Bureau is dissatisfied with the quality of items submitted in response, or whether additional information may later be required.***¹

In the Commission's most recent Final Supplemental Implementation Order at Docket No. M-2016-2543193, the Commission further noted:

¹ *Implementation of Section 1329 of the Public Utility Code - Tentative Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered September 20, 2018) at 15 (emphasis added). The subsequent Final Supplemental Implementation Order "did not alter [the Commission's] expectations regarding TUS's reviewing responsibilities of the Application filing." *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at fn. 6.

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

Acceptance of an application is not dependent upon the content of the responses to these new Checklist Items, but will only note whether the Checklist Items have been completed. As stated in the 2019 FSIO, the Bureau of Technical Utility Services (TUS) does not review the veracity or substantive quality of information that applicants submit to fulfill the Application Filing Checklist; it evaluates whether the Application Filing Checklist is complete.²

In fact, the Commission has recognized that requiring changes to the substance of 1329 applications during the application completeness phase creates a due process problem: “it would be premature and potentially violative of due process for the Commission to make a determination about this factual dispute without the development of a full evidentiary record.”³

Accordingly, PAWC requests that TUS accept its Engineering Assessment as complete.

Prepared by: **Michael Salvo, Director, Business Development
Pennsylvania-American Water Company**

Date: **February 19, 2026**

² *Implementation of Section 1329 of the Public Utility Code - Final Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered July 2, 2024) (“2024 FSIO”) at 53.

³ *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at 10.

66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487

Set 2

19. Checklist Item Nos. 15.a. and b. –The Amended Engineering Assessment’s Appendix B5, Land and Land Rights Item #16, included the North Coventry Municipal Authority Agreement, Wastewater Capacity Rights, with an original cost of \$2,353,000 in the inventory of East Coventry Township wastewater system used and useful assets to be transferred. Also, the Amended Application’s Appendix A-25-b included a copy of an Agreement (NCMA Agreement) by and between North Coventry Municipal Authority (NCMA), North Coventry Township and East Coventry Township dated January 27, 2004 relating to the conveyance and treatment of wastewater flows from East Coventry Township to the NCMA wastewater treatment plant of up to 510,000 gallons per day of wastewater. The NCMA Agreement’s Section 17.9, Successors and Assigns, states “East Coventry may not voluntarily assign this Agreement without the consent of [NCMA], except to a municipality authority incorporated by East Coventry, pursuant to applicable law. [...]” The Commission notes that the Application does not appear to include documentation from NCMA or North Coventry Township consenting to the assignment of the NCMA Agreement from East Coventry Township to PAWC-WD. Checklist Item Nos. 15.a. and b. require that the Amended Engineering Assessment provide an inventory of the used and useful plant assets, inclusive of all non-depreciable property, to be transferred. Please provide responses to the following:
- a. Provide a revised Amended Engineering Assessment that removes Item #16, NCMA Agreement, from Appendix B5 and the associated \$2,353,000 original cost from NARUC Account #353 to include revisions to the Amended Engineering Assessment’s Tables 1 and 4; and
 - b. Provide revised Amended Application Appendices A-5.1 and A-5.2 that reflect the revised Amended Engineering Assessment’s reduced original cost total of \$9,477,031.47 ($\$11,830,031.47 - \$2,353,000 = \$9,477,031.47$) to include any other appendices that reference or utilize the higher original cost for the East Coventry Township wastewater system assets to be transferred; or
 - c. Provide written evidence that NCMA and North Coventry Township have consented to the transfer of rights to the NCMA Agreement from East Coventry Township to PAWCWD.

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

Response:

- a-c. Checklist Item Nos. 15.a. and 15.b. of Appendix A of the Commission’s 2024 Final Supplemental Implementation Order at Docket No. M-2016-2543193 requires PAWC to provide “an inventory of the used and useful plant assets to be transferred” and “a list of all non-depreciable property such as land and rights-of-way.” PAWC’s Engineering Assessment meets both requirements. In the next phase of this application proceeding, PAWC will demonstrate that inclusion of the \$2,353,000 in capacity rights within the Engineering Assessment as an asset that will be transferred to PAWC at closing is reasonable and appropriate. PAWC will further explain why TUS’ legal interpretation of the 2004 North Coventry Township, North Coventry Municipal Authority, and East Coventry agreement (“NCMA Agreement”) is incorrect.

The scope of TUS’ authority to review Section 1329 applications is discussed extensively in the Commission’s orders at Docket No. M-2016-2543193. The Commission explains:

The Commission would clarify here that [TUS] does not review the veracity or substantive quality of information that an applicant may submit to fulfill the threshold requirements of the Application Checklist. [TUS] is to evaluate only whether the Application Checklist is complete and responsive to the data requested. ***It shall not refuse to perfect an application on the basis that the Bureau is dissatisfied with the quality of items submitted in response, or whether additional information may later be required.***⁴

In the Commission’s most recent Final Supplemental Implementation Order at Docket No. M-2016-2543193, the Commission further noted:

⁴ *Implementation of Section 1329 of the Public Utility Code - Tentative Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered September 20, 2018) at 15 (emphasis added). The subsequent Final Supplemental Implementation Order “did not alter [the Commission’s] expectations regarding TUS’s reviewing responsibilities of the Application filing.” *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at fn. 6.

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

Acceptance of an application is not dependent upon the content of the responses to these new Checklist Items, but will only note whether the Checklist Items have been completed. As stated in the 2019 FSIO, the Bureau of Technical Utility Services (TUS) does not review the veracity or substantive quality of information that applicants submit to fulfill the Application Filing Checklist; it evaluates whether the Application Filing Checklist is complete.¹⁵

In fact, the Commission has recognized that requiring changes to the substance of 1329 applications during the application completeness phase creates a due process problem: “it would be premature and potentially violative of due process for the Commission to make a determination about this factual dispute without the development of a full evidentiary record.”⁶

Accordingly, PAWC requests that TUS accept its Engineering Assessment as complete.

**Prepared by: Michael Salvo, Director, Business Development
Pennsylvania-American Water Company**

Date: February 19, 2026

⁵ 2024 FSIO at 53.

⁶ *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at 10.

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

20. Checklist Item No. 18.d.iv - In the Amended Application's Amended Appendix A-18-d, PAWC-WD's response to Checklist Item No. 18.d.iv indicated that the requirement for the notice sent to affected customers to include a statement that any promise to freeze rates may be unenforceable is not applicable to PAWC-WD for this filing. Please provide a revised Appendix A-18-d that provides a copy of the notice that will be sent to current East Coventry Township customers that includes a statement that any promise to freeze rates may be unenforceable.

Response:

Section 7.04 — *Initial and Future Rates* of the Asset Purchase Agreement (“APA”) (page 30) states that PAWC will implement the Seller’s wastewater rates in effect at Closing. The APA does not contain a promise for PAWC to freeze rates or a commitment to hold rates for any defined period. Therefore, including a statement in the Customer Notice that any promise to freeze rates may be unenforceable is not applicable because the proposed acquisition does not include a promise to freeze rates.

Nevertheless, in order to resolve the dispute with TUS on a relatively minor issue, PAWC added TUS’ requested language to **Amended Appendix A-18-d**. See attached.

Prepared by: Dr. Christina Chard, Senior Director Rates and Regulatory
American Water Works Service Company

Date: February 19, 2026

**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

Amended Appendix A-18-d

Updated Customer Notice

Bill Onsert for Current Customers

NOTICE OF PROPOSED WASTEWATER ACQUISITION AND RATE BASE ADDITION (Docket No. A-2025-3053487)

Dear Customer:

On _____, the Pennsylvania Public Utility Commission (“PUC”) conditionally accepted for filing the application of Pennsylvania-American Water Co. (“Pennsylvania-American” or “PAWC”) for approval to acquire the wastewater system assets owned and operated by the Township of East Coventry (“East Coventry”). East Coventry serves approximately 1,235 customers in Chester County. Pennsylvania-American’s application also requests that the PUC authorize an addition of \$7 million to Pennsylvania-American’s rate base pursuant to 66 Pa. C.S. § 1329. A utility’s rate base is the value of property used by the utility to provide service to its customers and is one of many components used to establish customer rates.

PAWC periodically makes applications to the PUC for newly acquired systems, which requires PAWC to send these types of notices. This notice is specific to the East Coventry acquisition. PAWC is not requesting a rate increase in this acquisition proceeding. Accordingly, this acquisition will not immediately, but may in the future, affect water and/or wastewater bills of Pennsylvania-American customers, including new East Coventry wastewater customers. Your current rates will not change as a result of this acquisition until the conclusion of Pennsylvania-American’s first base rate case where Pennsylvania-American requests and receives PUC approval to increase its rates. At that time, based on a preliminary analysis of the potential rate impacts, PAWC estimates that the rates of the average customer could increase. The amount of the increase will be determined in PAWC’s next base rate case and will be dependent on how the PUC chooses to apportion the increase among PAWC’s acquired and existing customers. Any promise to freeze rates may be unenforceable. The tables below present non-binding estimated incremental rate effects of the proposed rate base addition on PAWC’s existing water and wastewater customers.

Water Rate Class	Average Usage	Estimated Monthly Increase	Estimated Percentage Increase
Residential	3,201 gal/month	\$0.08	0.10%
Commercial	22,094 gal/month	\$0.42	0.10%
Industrial	685,947 gal/month	\$8.86	0.10%

Wastewater Rate Class	Average Usage	Estimated Monthly Increase	Estimated Percentage Increase
Residential	3,201 gal/month	\$0.44	0.40%
Commercial	22,094 gal/month	\$2.09	0.40%
Industrial	685,947 gal/month	\$60.47	0.40%

These amounts could change and will depend on how the PUC chooses to apportion any increase among different types of utility service, rate zones and classes of customers. For Pennsylvania-American customers in a rate zone other than Rate Zone 1, the potential rate impact could vary from the chart above.

PUC ROLE

The state agency that approves acquisitions and rates for regulated public utilities is the PUC. The PUC will review and investigate the proposed acquisition. After examining the evidence, the PUC may approve, modify or deny the acquisition and may approve, modify or deny the requested addition to rate base.

ACTIONS YOU CAN TAKE

You can support or challenge Pennsylvania-American's request by:

1. Sending a letter to the PUC. You can tell the PUC why you support or object to the application in your letter. This information can be helpful when the PUC investigates the application. Send your letter to the Pennsylvania Public Utility Commission, Post Office Box 3265, Harrisburg, PA 17105-3265.
2. Attending or presenting testimony at a PUC public input hearing. You can attend or be a witness at a PUC public input hearing. The PUC holds public input hearings if it opens an investigation of Pennsylvania-American's transaction and if there is enough interest in the case. At these hearings, you can present your views in person to the PUC judge and to company representatives. Testimony under oath becomes part of the application case record. The PUC holds these hearings in the service area of the company. For more information, call the PUC at 1-800-692-7380.
3. Filing a protest or a petition to intervene. If you want to be a party to the case, you must file a protest or a petition to intervene. You then have an opportunity to take part in all the hearings about the proposed acquisition. You can receive copies of all materials distributed by the other parties. Filings must be made with the Secretary of the Pennsylvania Public Utility Commission at P.O. Box 3265, Harrisburg, PA 17105-3265, with a copy served on Pennsylvania-American's counsel at:

Adeolu A. Bakare, Esquire
McNees Wallace & Nurick LLC
100 Pine Street
Harrisburg, PA 17101
Telephone: 717-237-5290
Email: abakare@mcneeslaw.com

The documents filed in support of the application are available on the PUC's website at www.puc.pa.gov, and for inspection and copying at the Office of the Secretary of the PUC between 8 a.m. and 4:30 p.m., Monday through Friday, and at Pennsylvania-American's offices at 852 Wesley Drive, Mechanicsburg, PA 17055. The PUC docket number is A-2025-3053487. For more information, you may contact the PUC's Bureau of Consumer Services at 1-800-692-7380.

Direct Mailing to East Coventry Customers

NOTICE OF PROPOSED WASTEWATER ACQUISITION AND RATE BASE ADDITION (Docket No. A-2025-3053487)

On _____, the Pennsylvania Public Utility Commission (“PUC”) conditionally accepted for filing the application of Pennsylvania-American Water Co. (“Pennsylvania-American” or “PAWC”) for approval to acquire the wastewater system assets owned and operated by the Township of East Coventry (“East Coventry”). East Coventry serves approximately 1,235 customers in Chester County. Pennsylvania-American’s application also requests that the PUC authorize an addition of \$7 million to Pennsylvania-American’s rate base pursuant to 66 Pa. C.S. § 1329. A utility’s rate base is the value of property used by the utility to provide service to its customers and is one of many components used to establish customer rates.

PAWC periodically makes applications to the PUC for newly acquired systems, which requires PAWC to send these types of notices. This notice is specific to the East Coventry acquisition. PAWC is not requesting a rate increase in this acquisition proceeding. Accordingly, this acquisition will not immediately, but may in the future, affect water and/or wastewater bills of Pennsylvania-American customers, including new East Coventry wastewater customers. Your current rates will not change as a result of this acquisition until the conclusion of Pennsylvania-American’s first base rate case where Pennsylvania-American requests and receives PUC approval to increase its rates. At that time, based on a preliminary analysis of the potential rate impacts, PAWC estimates that the rates of the average customer could increase. The amount of the increase will be determined in PAWC’s next base rate case and will be dependent on how the PUC chooses to apportion the increase among PAWC’s acquired and existing customers. Any promise to freeze rates may be unenforceable. The tables below present non-binding estimated incremental rate effects of the proposed rate base addition on PAWC’s existing water and wastewater customers.

Rate Class	Average Usage	Estimated Monthly Increase	Estimated Percentage Increase
Residential	3,201 gal/month	\$44.41	65.0%
Commercial	22,094 gal/month	\$44.41	65.0%

These amounts could change and will depend on how the PUC chooses to apportion any increase among different types of utility service, rate zones and classes of customers. For Pennsylvania-American customers in a rate zone other than Rate Zone 1, the potential rate impact could vary from the chart above.

PUC ROLE

The state agency that approves acquisitions and rates for regulated public utilities is the PUC. The PUC will review and investigate the proposed acquisition. After examining the evidence, the PUC may approve, modify or deny the acquisition and may approve, modify or deny the requested addition to rate base.

ACTIONS YOU CAN TAKE

You can support or challenge Pennsylvania-American’s request by:

1. Sending a letter to the PUC. You can tell the PUC why you support or object to the application in your letter. This information can be helpful when the PUC investigates the application. Send your letter to the Pennsylvania Public Utility Commission, Post Office Box 3265, Harrisburg, PA 17105-3265.
2. Attending or presenting testimony at a PUC public input hearing. You can attend or be a witness at a PUC public input hearing. The PUC holds public input hearings if it opens an investigation of Pennsylvania-American’s transaction and if there is enough interest in the case. At these hearings, you can present your views in person to the PUC judge and to company representatives. Testimony under oath becomes part of

the application case record. The PUC holds these hearings in the service area of the company. For more information, call the PUC at 1-800-692-7380.

3. Filing a protest or a petition to intervene. If you want to be a party to the case, you must file a protest or a petition to intervene. You then have an opportunity to take part in all the hearings about the proposed acquisition. You can receive copies of all materials distributed by the other parties. Filings must be made with the Secretary of the Pennsylvania Public Utility Commission at P.O. Box 3265, Harrisburg, PA 17105-3265, with a copy served on Pennsylvania-American's counsel at:

Adeolu A. Bakare, Esquire
McNees Wallace & Nurick LLC
100 Pine Street
Harrisburg, PA 17101
Telephone: 717-237-5290
Email: abakare@mcneeslaw.com

The documents filed in support of the application are available on the PUC's website at www.puc.pa.gov, and for inspection and copying at the Office of the Secretary of the PUC between 8 a.m. and 4:30 p.m., Monday through Friday, and at Pennsylvania-American's offices at 852 Wesley Drive, Mechanicsburg, PA 17055. The PUC docket number is A-2025-3053487. For more information, you may contact the PUC's Bureau of Consumer Services at 1-800-692-7380.

66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487

Set 2

21. Checklist Item No. 22.a. – In response to Deficiency Item No. 8, PAWC-WD indicated that the Application is consistent with the DEP-approved Act 537 Official Sewage Facilities Plan for East Coventry Township. Additionally, PAWC-WD indicated that the Parker Ford Act 537 Plan Special Study was submitted to DEP but has not yet been approved. PAWC-WD asserts that there is no Commission requirement to include special studies as part of Section 1329 applications and that DEP approval of the Parker Ford Act 537 Plan Special Study is a condition precedent to closing of the transaction. The Commission's notes that DEP approved Act 537 Special Studies are changes that supersede elements of sewage facilities planning approved by a previous Act 537 Plan and related Updates, Special Studies, Planning Modules, etc., which collectively represent a municipality's current DEP-approved Act 537 Plan. Checklist Item No. 22.a. requires the application to demonstrate compliance with the DEP-approved Act 537 Official Sewage Facilities Plans for the affected municipalities (including the extent of the requested service territory). Please provide evidence that the Application is compliant with the DEP-approved Act 537 Official Sewage Facilities Plans to include a revised Appendix A-22-b that provides a copy of the DEP-approved Parker Ford Act 537 Plan Special Study along with a copy of the DEP approval letter inclusive of any conditions.

Response:

Checklist Item No. 22.a. of Appendix A of the Commission's 2024 Final Supplemental Implementation Order at Docket No. M-2016-2543193 requires PAWC to demonstrate compliance with the DEP-approved Act 537 Official Sewage Facilities Plans for the affected municipalities (including the extent of the requested service territory). PAWC's application meets this requirement. East Coventry's DEP-approved Act 537 Plan was attached to PAWC's application. In Appendix A-22-a, PAWC confirmed that its application is consistent with the DEP-approved Act 537 Plan, which identifies the Parker Ford area as a public sewer service area. PAWC's requested service territory, which includes the area surrounding East Coventry's existing assets and a sewer system extension to the Parker Ford area, is consistent with the DEP-approved Act 537 plan. PAWC's application is verified so Appendix A-22-a should be the only evidence needed for TUS to consider this application item complete.

Nevertheless, TUS raises several concerns about the merits of this component of PAWC's application exceeding its authority under the Commission's

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

implementation orders related to Section 1329 applications. The scope of TUS' authority to review Section 1329 applications is discussed extensively in the Commission's orders at Docket No. M-2016-2543193. The Commission explains:

The Commission would clarify here that [TUS] does not review the veracity or substantive quality of information that an applicant may submit to fulfill the threshold requirements of the Application Checklist. [TUS] is to evaluate only whether the Application Checklist is complete and responsive to the data requested. ***It shall not refuse to perfect an application on the basis that the Bureau is dissatisfied with the quality of items submitted in response, or whether additional information may later be required.***⁷

In the Commission's most recent Final Supplemental Implementation Order at Docket No. M-2016-2543193, the Commission further noted:

Acceptance of an application is not dependent upon the content of the responses to these new Checklist Items, but will only note whether the Checklist Items have been completed. As stated in the 2019 FSIO, the Bureau of Technical Utility Services (TUS) does not review the veracity or substantive quality of information that applicants submit to fulfill the Application Filing Checklist; it evaluates whether the Application Filing Checklist is complete.⁸

⁷ *Implementation of Section 1329 of the Public Utility Code - Tentative Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered September 20, 2018) at 15 (emphasis added). The subsequent Final Supplemental Implementation Order "did not alter [the Commission's] expectations regarding TUS's reviewing responsibilities of the Application filing." *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at fn. 6.

⁸ 2024 FSIO at 53.

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

In fact, the Commission has recognized that requiring changes to the substance of 1329 applications during the application completeness phase creates a due process problem: “it would be premature and potentially violative of due process for the Commission to make a determination about this factual dispute without the development of a full evidentiary record.”⁹

Checklist Item No. 22.a. does not require PAWC to include Act 537 special studies under review by DEP as part of a Section 1329 application. Act 537 special studies are completed in every wastewater system acquisition to reflect the change in ownership from the Seller to PAWC and are typically approved by DEP within the weeks prior to closing after the Commission’s final order on the Section 1329 application. In a November 10, 2025, letter to East Coventry, DEP intends to follow this same approach for this special study explaining that “DEP cannot approve the Parker Ford Special Study until...the sale has been finalized.” See **PAWC-21_Attachment**.¹⁰

In the next phase of the proceeding, PAWC will demonstrate that its acquisition including the extension of service to the Parker Ford area as detailed in the special study is reasonable and in the public interest. While as part of a final order approving this transaction, the Commission may require DEP approval of the Parker Ford special study as a condition of closing, TUS does not have the authority to prevent PAWC’s Section 1329 application from being accepted because DEP has not yet approved the special study.

For the foregoing reasons, PAWC requests that TUS accept **Appendix A-22** of PAWC’s application as complete.

Prepared by: Michael Salvo, Director, Business Development
Pennsylvania-American Water Company

Date: February 19, 2026

⁹ *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at 10.*

¹⁰ The Township, however, has continued to work with DEP to obtain approval as soon as possible.

**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

PAWC-21 Attachment

November 10, 2025, DEP Letter Regarding Parker Ford Act 537 Plan Update – Parker Ford
Special Study



Pennsylvania Department of Environmental Protection

November 10, 2025

SENT VIA ELECTRONIC MAIL ONLY

Mr. Eugene C. Briggs, Jr., Manager
East Coventry Township
855 Ellis Woods Road
Pottstown, PA 19465
info@eastcoventry-pa.gov

Re: Act 537 Plan Update
Parker Ford Special Study
APS ID 1149364, Auth ID 1547313
East Coventry Township
Chester County

Dear Mr. Briggs:

The Department of Environmental Protection (DEP) has received the resubmission of the proposed Official Sewage Facilities Plan Update for East Coventry Township (Township), Chester County, titled *East Coventry Township Parker Ford Area Act 537 Special Study* (Special Study), as prepared by ARRO Consulting, Inc., dated August 2021, and revised July 2025. The Special Study is being submitted to DEP in accordance with the provisions set forth by Section 5 of the Pennsylvania Sewage Facilities Act and Chapter 71, the Administration of Sewage Facilities Program.

The Special Study states that the Township proposes sell its wastewater collection and conveyance system to Pennsylvania American Water. Please be aware that since the implementation of the selected alternative (extension of public sewer to the Parker Ford area) will be the responsibility of Pennsylvania American Water, DEP cannot approve the Parker Ford Special Study until planning for the Township's system sale has been completed and the sale has been finalized.

In addition, DEP's review of the Special Study has indicated that further information is required. Reconsideration of the Special Study will occur when DEP receives a resubmission of the full Special Study, including attachments, that addresses the following:

Executive Summary

1. Please update the finance section of the Executive Summary to incorporate the Township's decision to implement the proposed infrastructure improvements through the sale of the Township's sewage facilities.

2. Since the Township has selected to sell its wastewater treatment facilities to Pennsylvania American Water, please indicate whether the Implementation Schedule shown in the Executive Summary is still applicable to the project, and update the schedule as necessary. Please also provide a column in the Implementation Schedule indicating the entity responsible for each milestone.
3. Please update the Implementation Schedule with milestones for the following:
 - a. The finalization of the sale of the Township's system;
 - b. The adoption of the grinder pump ordinance;
 - c. The design completion for Phase II and Phase III;
 - d. The submission and approval of permits for Phase II and Phase III;
 - e. The start of construction for Phase II and Phase III; and
 - f. The completion of construction for Phase II and Phase III.

Section II (Physical & Demographic Analysis)

4. Please provide mapping showing the properties served by public water in the Parker Ford area.

Section IV (Future Growth & Land Development)

5. Please update Section IV.B.3 (Future Growth Areas and Projections) with the following, as provided in Comment 15 of the Township's response letter dated July 18, 2025, (Response Letter):
 - a. The total number of existing equivalent dwelling units (EDU) in the Parker Ford service area;
 - b. The total existing flow in gallons per day (gpd);
 - c. The total number of proposed EDUs for future development;
 - d. The total projected flow for future development in gpd;
 - e. The number of EDUs proposed for each Phase;
 - f. The flow in gpd proposed for each Phase; and
 - g. The Township's flow rate in gpd/EDU.

Section V (Alternatives to Provide New or Improved Wastewater Disposal Facilities)

6. Please update Section V.A.1 with the Township's existing flows as provided in the Township's Response Letter. Section VI.A.2 (Chapter 94 Report) and Section VII.C.2 (Required Ordinances, Standards, Regulations & Intermunicipal Agreements) should also be updated with the current flows.

Section VI (Evaluation of Alternatives)

7. Since the Parker Ford sewer extension will be tributary to the Township's existing pump station located in Towpath Park, please revise Section VI to provide an analysis of the capacity of, and current flows to, the Towpath Park pump station and force main, demonstrating that the existing conveyance facilities can accept the flows from the Parker Ford area without creating a hydraulic or organic overload or a projected hydraulic or organic overload. DEP suggests that the Special Study be updated to note that the Towpath Park Pump Station is also referred to as the Main Pump Station or PS-1.
8. DEP acknowledges that the Township has requested wastewater treatment capacity information from NCMA but has not yet received it. However, as requested in Comment 4 of DEP's review letter dated January 14, 2022, (Review Letter), documentation from NCMA must be provided, certifying that the treatment facility can accept the flows from the Parker Ford area without creating a hydraulic or organic overload or a projected hydraulic or organic overload.

In addition, Section VI.A.2 should be amended with the total hydraulic and organic capacity of the NCMA treatment plant and the existing total flows tributary to the treatment plant in order to show the treatment plant has capacity to accept the Parker Ford service area flows.

9. Comment 12 of DEP's Review Letter notified the Township that the Phase I archeological survey recommended by the Pennsylvania Historical and Museum Commission (PHMC) should be completed during planning. In response, the Township conducted a geomorphological study, which concluded that Phase I archeological testing is not recommended for the site. Please provide clearance documentation from PHMC indicating that the *Geomorphology Report*, prepared by Skelly and Loy, dated September 2022, was submitted to PHMC for review, and PHMC concurs with the assessment that further Phase I reporting is no longer recommended for the proposed pump station site. Section VI.B should be updated accordingly.
10. The following comments pertain to Section VI.D (Preliminary Cost Opinions):
 - a. The total cost for the NCMA treatment option's pump station and force main listed on Page 27 (\$3,000,000) is different than the total cost listed on page 28 (\$3,466,501). Please update the pump station and force main calculations and total costs for consistency.

- b. Please update Section VI.D with a grand total cost that includes the pump station, force main, and collection system costs for the selected NCMA treatment option. DEP notes that the costs listed on page 28 for the proposed collection and conveyance systems total \$21,423,219. However, the Township's Response Letter states the total cost for the collection and conveyance systems is \$26,790,000. If changes are made to the collection and conveyance costs in Section VI.D, please also update the costs in the Executive Summary for consistency.
 - c. In response to Comment 8 of DEP's Review Letter, the Township's Response Letter states that the Coventry Terrace Mobile Home Park wastewater treatment plant will not have to be decommissioned immediately since it is located outside the 150-foot sewer line radius. Please update Section VI.D the following additional information:
 - i. Whether there is any plan to decommission the Coventry Terrace wastewater treatment plant in the future;
 - ii. A timeframe for the wastewater treatment plant decommissioning and connection to public sewer, if applicable; and
 - iii. Whether any of the mobile homes located within 150 feet of the proposed sewer will be required to connect to public sewer once it becomes available.
 - d. Please specify if the provided tapping fees and rates pertain to the Township's or Pennsylvania American Water's construction, ownership, operation and maintenance of the proposed collection and conveyance systems. If the listed rates and fees are the Township's, please update Section VI.D with Pennsylvania American Water's expected rates and fees.
 - e. Please update Section VI.D to include any additional fees and cost estimates to which the property owners may be subject (e.g., lateral construction, grinder pump purchase, etc.).
11. Comment 5 of the Township's Response Letter described how the Township will ensure that the sewage disposal needs of the Parker Ford service area will be met prior to the completion of the three phases of the selected alternative. Please update Section VI.F (Immediate or Phased Implementation) with this information.
 12. Section VI.G (Ability of the Township to Implement the Alternative) should be updated to reflect the Township's decision to sell the municipal wastewater treatment facilities.

Section VII (Institutional Evaluation)

13. Section VII evaluates the Township's ability to implement the selected alternative. However, since the Township has elected to sell their wastewater treatment system, and Pennsylvania American Water will be executing the Special Study, all subsections in Section VIII should be

updated to also discuss Pennsylvania American Water's ability to implement the selected alternative.

14. Comment 3 of DEP's Review Letter requested that documentation be provided from NCMA stating that they have reviewed the Special Study and found it consistent with the existing Intermunicipal Agreement (*Agreement among North Coventry Municipal Authority and North Coventry Township and East Coventry*, enacted January 27, 2004). The Township's Response Letter states that the Township spoke with the NCMA engineer on January 16, 2023; however, documentation was not received from NCMA and was, therefore, not provided with the Special Study resubmission.

Please provide documentation from NCMA confirming the selected alternative is consistent with the Intermunicipal Agreement. Section VII.C.2 should also be updated with NCMA's consistency determination.

DEP notes that the proposed Parker Ford service area shown on the plan titled *Act 537 Plan Parkerford Area Planning Area*, prepared by ARRO Consulting, Inc., dated June 2021, differs from the service area map titled *Figure 2: Planning Areas*, prepared by Motley Engineering Co., Inc., dated October 20, 1999, last revised January 7, 2003, and approved with the Act 537 Plan Update issued October 6, 2003. Specifically, a portion of the Township within the southeast corner (including Parcels 18-5-146 and 18-5-146.1, the majority of Parcels 18-5-142 and 18-5-143, and portions of 8 other smaller parcels) is within in the current Parker Ford service area but not within the service area approved in 2003. Since the Intermunicipal Agreement references the 2003 Planning Areas map as showing the official service area tributary to NCMA's treatment facility, please indicate whether the Intermunicipal Agreement will require revision to update the sewer service area. A copy of the revised Intermunicipal Agreement or verification that the current Intermunicipal Agreement pertains to the entire proposed Parker Ford service area should be provided.

15. In response to Comment 13 of DEP's Review Letter requesting easement documentation for the proposed sewage facilities through private property, the Township stated that easement acquisition will not occur until the design phase of the project. The Township must show that the proposed plan is implementable by providing easement documentation during the planning process. Alternatively, the Township may provide confirmation that the Township has the authority and is willing to condemn easements for the benefit of Pennsylvania American Water if necessary for project completion. Section VII.C.3 should be updated accordingly with easement information.

Section VIII (Selected Wastewater Treatment and Institutional Alternative)

16. Since Coventry Terrace will not be required to connect to public sewer, please update Section VIII with the selected alternative for the mobile home park. Please ensure that operation and maintenance considerations for the Coventry Terrace sewage facilities are also addressed in this section. DEP suggests that the Township enact an oversight agreement with Coventry Terrace, if an agreement is not currently in place, to ensure that adequate long-term operation and maintenance is provided for the private sewage facilities for as long as the mobile home park

retains them. Please be aware that additional sewage facilities planning may be required once Coventry Terrace proposes to connect to public sewer.

17. Comment 8 of DEP's Review Letter requested that the resubmission discuss the timing of the connection of the Parker Ford properties to public sewer. While the Township's Response Letter and updated Special Study narrative state that only those properties within 150 feet of the sewer will be required to connect, the response did not discuss the timing of those connections. Please revise Section VIII to indicate the following:
 - a. Whether the properties in the Parker Ford service area located within 150 feet of the sewer will be required to connect immediately after the sewer becomes available; and
 - b. If properties will *not* be required to connect immediately, a list of the triggers (e.g., onlot system malfunction, failed septic certification, property sale, etc.) that will mandate connection to public sewer.
18. Please update Section VIII.A.3 to indicate that Pennsylvania American Water, and not the Township, will own, operate and maintain the proposed collection and conveyance system. Section VIII.A.3 should also include a discussion of the operation and maintenance requirements for the properties in the Parker Ford service area prior to their connection to public sewer.

Wastewater Needs Projections Table

19. The notes section at the bottom of the Wastewater Needs Projections Table has been partially truncated. A copy of the table that includes the full table notes should be provided. Please ensure that the notes include the following:
 - a. Clarification of the value used for people per household. The table notes state this value was rounded up, presumably to 3 people per household, as used for the existing residential connections. However, a rate of 2.62 people per household seems to have been used for calculating the population for future residential development.
 - b. The formula for the values in the EDU column of the Future Development section of the table; and
 - c. The formula for the values in the Population column of the Future Development section of the table.
20. DEP suggests that the Wastewater Needs Projections Table is amended with the following:
 - a. Labels for the existing development and future development sections of the table; and
 - b. A column indicating the Phase during which each property will have access to sewer.

21. It appears that the flow from the properties zoned industrial was not included in the EDU count for future development. Please recalculate the proposed future EDUs and update the Wastewater Needs Projections Table. The total EDU count, tapping fee per EDU, and Sewer Rate Projections Table (if applicable) in Section VI.D of the Special Study should also be updated.
22. The number of existing EDUs (384) multiplied by the Township's EDU rate (263 gpd/EDU, as specified in the Township's Response Letter) does not equal the calculated existing flow in gpd (100,920 gpd). While 263 gpd/EDU was used as the flow rate for existing single-EDU residential properties, it appears that 262.5 gpd/EDU was used for existing multi-EDU residential properties and commercial/industrial properties. (A flow rate of 262.5 gpd/EDU was also used for all future development independent of zoning.) Please revise the Wastewater Needs Projections Table to use a consistent flow rate. The number of EDUs multiplied by the flow rate should equal the flow in gpd.
23. The Intermunicipal Agreement established a planning flow of 300 gallons per day (gpd) per EDU. Since the Township's current EDU rate of 263 gpd/EDU is different than the previously established rate, please provide documentation from NCMA that they agree with the Township's flow rate per EDU.

PNDI

24. The Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt, dated August 15, 2022, is over two years old and therefore is no longer valid. Please provide a current PNDI receipt with any required clearance letters from the reviewing agencies. Additionally, it appears that the 2022 PNDI did not include Saylor's Mill Road or a portion of Wells Road proposed to be served by public sewer in the search area. All proposed areas of disturbance should be included in the PNDI search.

Public Comments

25. The Township's letter to George and Melissa Reitnour dated July 21, 2025, sent in response to Reitnours' comment letter dated March 17, 2020, stated that "the exhibit showing the planned sanitary sewer main (low pressure sewer main on Saylor's Mill Road) shall be modified so that it more clearly depicts the extension of the sewer main to serve the properties along that Road; including 151 Saylor's Mill Road." Please indicate whether the exhibit has been updated as described, and, if so, provide a copy of the revised mapping.

Public Notice

26. Since the proposed implementation of the selected alternative has changed, a new public notice and 30-day comment period are required. Please ensure that the public notice includes the expected user fees and costs associated with the project. The Township may wish to submit a draft version of the public notice to DEP for review before it is published.

Resolution of Adoption

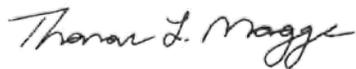
27. Due to the significant change to the Special Study regarding the sale of the Township's sewage facilities, the Special Study must be readopted. Please provide a copy of the new Resolution for Plan Revision with the resubmission of the project.

DEP must receive an electronic copy of the module. Electronic document submittal may be made through the DEP Public Upload with Electronic Payment form, which can be found on the DEP website at <https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>. The resubmission should be made under the originally assigned Reference Number 333069. **Please forward the upload confirmation to Suzanne Banks at subanks@pa.gov** in order to avoid delays.

We will be unable to approve the Special Study until the information requested above is provided. When the necessary revisions have been completed, DEP will reinitiate the review in accordance with the provisions of Chapter 71, Administration of the Sewage Facilities Program. Please note that your responses to these questions may generate additional DEP review comments.

If there are any questions concerning the information required, please contact Suzanne Banks at 484.250.5179 or subanks@pa.gov.

Sincerely,



Thomas L. Magge
Regional Manager
Clean Water

cc: Chester County Health Department (via email)
Chester County Planning Department (via email)
Chester County Conservation District (via email)
North Coventry Municipal Authority (via email)
ARRO Consulting, Inc. (via email)
Pennsylvania American Water (via email)
Planning Section

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

22. Checklist Item No. 22.b. – In response to Deficiency Item No. 9, PAWC-WD indicated that an Amended Appendix A-22-b.2 was attached that included Appendices A through T for the Parker Ford Act 537 Special Study. However, Amended Appendix A-22-b.2 was not included with the deficiency responses or the Amended Application. Please provide a complete copy of Amended Appendix A-22-b.2 including all appendices.

Response:

Please see attached **Amended Appendix A-22-b.2** that includes the appendices. The Parker Ford Act 537 special study has been updated since PAWC's original filing and the most recent study, with appendices, is attached.

Prepared by: Michael Salvo, Director, Business Development, Pennsylvania-American Water Company

Date: February 19, 2026

**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

Amended Appendix A-22-b.2

Act 537 East Coventry Special Study – Parker Ford

East Coventry Township
Parker Ford Area
Act 537 Special Study

August 2021

Rev. July 2025

Rev. February 2026

Engineer's Project No. 10953.04

Prepared By:



ARRO Consulting, Inc.
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Birdsboro, PA 19508

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EXECUTIVE SUMMARY

This Act 537 Special Study (Special Study) was prepared for East Coventry Township (Township) at the request of the Pennsylvania Department of Environmental Protection (PA DEP) in accordance with Act 537 entitled the Pennsylvania Sewage Facilities Act, Title 25, Chapter 71 of the Pennsylvania Code and the Pennsylvania Department of Environmental Protection Act 537 Plan Content and Environmental Assessment Checklist. This Special Study addresses the requirements necessary to implement public sanitary sewer service to the Parker Ford planning area. (See Appendix E for planning area map)

The Plan is comprised of the following components addressed in the Plan of Study:

- I. Previous Wastewater Planning
- II. Physical and Demographic Analysis
- III. Existing Sewage Facilities in the Planning Area
- IV. Future Growth and Development
- V. Alternatives to provide for new or improved wastewater disposal facilities
- VI. Evaluation of Alternatives
- VII. Institutional Evaluation
- VIII. Selected Wastewater Treatment and Institutional Alternative

The primary focus of the Plan is to evaluate alternatives to provide for public wastewater collection and conveyance facilities to the Parker Ford area located in the southeastern corner of the Township.

To meet the wastewater conveyance needs of the planning area, it is proposed that the Township implement the construction of a regional pump station and force main to serve the planning area and convey the wastewater to the Towpath Park Pump Station and ultimately the North Coventry WWTP.

The Engineer's opinions of probable construction cost (planning level costs) for the selected alternative is for the following wastewater collection and conveyance components:

- Construct a regional pump station that will serve the Parker Ford Planning Area.

- Construct a 6-inch force main that will extend from the proposed regional pump station to East Coventry Township’s existing pump station at Towpath Park.
- Utilize the currently allocated capacity available to the Township at the North Coventry Wastewater Treatment Plant in accordance with the current Intermunicipal Agreement

Total Cost (Pump Station and Force Main): \$3,466,501

Total Cost (Collection System):

- Planning Area (East) Phase I: \$6,032,867
- Planning Area (Central) Phase II: \$5,659,640
- Planning Area (West) Phase III: \$6,273,211
- Engineering/Surveying/Legal/Permitting: \$5,358,055

The approximate phasing of collection system construction is shown on the Exhibit found in Appendix H.

The Township has considered funding the project via potential grants and bonds. The Township also has also looked toward the pursuit of the sale of its sanitary sewer system. Given the constraints associated with the Township funding a project of this magnitude (from a cost perspective), the sale of the system appears to be the best means toward implementing the plan for public sewers in the Parker Ford area. If the sale of the Township’s collection/conveyance system would not take place, then the extending of public sanitary sewers to the Parker Ford area will not move forward.

If the Township moves forward with the sale of the sanitary sewer system, a separate Act 537 Special Study that is specific to the sale, would be prepared for the Department’s review and approval.

The following is a schedule for implementing the proposed alternative:

Description	Date (months after DEP approval and establishing of the system sale.)	Responsible Entity
PA DEP Planning Approval and Finalize the System Acquisition by PA American Water.	-----	Township/PA American
Start Design of the Collection/Conveyance System (Phases I) and the Pump Station.	1	PA American Water
Municipal Adoption of the Grinder Pump Ordinance	2	Township
Prepare and Submit the Part II Permit Application, CCCD Permit Application, and PADOT Highway Occupancy Permit Application (Phase I).	6	PA American Water
Receive Permit Approvals (Phase I)	9	PA American Water
Start Construction (Phase I)	12	PA American Water
Complete Construction (Phase I)	24	PA American Water
Initiate design for Phases II and III	26	PA American Water
Prepare and Submit the Part II Permit Application, CCCD Permit Application, and PADOT Highway Occupancy Permit Application (Phases II and III).	32	PA American Water
Receive permit approvals for Phases II and III	35	PA American Water
Start Construction for Phases II and III	38	PA American Water
Complete Construction for Phases II and III	50	PA American Water

I. PREVIOUS WASTEWATER PLANNING

A. Identify and Discuss Existing Wastewater Planning

1. *Previous Act 537 Planning*

An Act 537 Sewage Facilities Plan, last revised in June 2003, was prepared for East Coventry Township. This was a Special Study. The primary purpose of the Special Study was to consider the implementation of public collection and conveyance to needs areas of the Township.

Prior to this Special Study, the Township prepared and submitted an Act 537 Plan in 1997. The focus of both the 1997 and 2003 Plans was to provide public wastewater services to identified needs areas in the Township.

2. *Planning Not Done in Accordance with an Approved Implementation Schedule*

There has been no planning by the Township that has not been completed in accordance with an approved implementation schedule.

3. *Additional Planning*

If the Township moves forward with the sale of the sanitary sewer system, a separate Act 537 Special Study, that is specific to the sale, would be prepared for the Department's review and approval.

4. *Planning Via Planning Modules or Addenda.*

Currently, any proposed development must submit planning modules in accordance with prescribed planning requirements to amend the Township's 537 Plan.

II. PHYSICAL AND DEMOGRAPHIC ANALYSIS

A. Identify Planning Area, Municipal Boundaries, and Service Area Boundaries Through Mapping

This Act 537 Special Study is being prepared to address the sewage facilities needs of the Parker Ford planning area currently served by on-lot disposal systems. Parker Ford is located in the southeastern corner of the Township. Refer to the Plan in Appendix E that shows the boundary for the planning area addressed in this Special Study.

B. Identify the Physical Characteristics of the Planning Area

East Coventry Township is located in Chester County, southeast of Pottstown, PA. The topography of the planning area varies from a low elevation of 110 feet near the Schuylkill River to an elevation of 200 feet near Saylor's Mill Road. A topographical map of the area is found in Appendix B.

In addition, the wetlands per the National Wetlands Inventory Map are detailed on the map found in Appendix K.

C. Soils Analysis

In the identified planning area, most areas are served by on-lot disposal systems. A general overview of the soils types for the Parker Ford Area show that most of the soils are very limited or somewhat limited in terms of being able to support on-lot treatment and disposal of domestic wastewater. Color-coded soils mapping found in Appendix A illustrates this.

D. Geological Features of the Planning Area

The primary geologic formation in the planning area is:

1. Brunswick

The Brunswick formation is “characterized by reddish brown shale, mudstone, and siltstone. The topography of this formation is characterized by rolling hills.” (Pottstown Metropolitan Regional Comprehensive Plan).

E. Topography

As referenced in Section II.B. of this Plan, the topography of the planning area varies from a low elevation of 110 feet near the Schuylkill River to an elevation of 200 feet near Saylor’s Mill Road. A topographical map of the area is presented in Appendix B.

F. Potable Water Supply Information

The planning area is served by a mix of private wells and a public water supplier. Refer to the map in Appendix W that shows the current public water distribution system.

G. Wetlands

There are some wetlands within the planning area on the Pigeon Creek. See the map found in Appendix K. The source for the wetlands information is the National Wetlands Inventory Mapping provided by the U.S. Fish and Wildlife Service. Freshwater forested/shrub wetlands are generally located adjacent to and along the Pigeon Creek and the Schuylkill River. It appears that the wetlands, given their location, will be minimally impacted by existing and proposed wastewater facilities.

III. EXISTING FACILITIES IN THE PLANNING AREA

A. Identify and Describe Municipal Sewage Systems in the Planning Area

1. *Location, Size, and Ownership of Facilities*

There are collection/conveyance facilities in developments adjacent to but outside of the planning area. These facilities were addressed as part of the 537 Planning prepared in the early 2000's. The Township owns and maintains their sanitary sewer collection and conveyance systems under Water Quality Management Permit No. 1503417. This collection and conveyance system serves primarily residential areas that cover several watersheds in the northcentral part of the Township. Wastewater in these watersheds flows by gravity to one of five pumping stations which ultimately convey the wastewater to a wastewater treatment plant operated by the North Coventry Municipal Authority.

2. *Narrative and Schematic Diagram of the Basic Treatment Process*

Since the focus of this Special Study is to address the wastewater needs associated with the Parker Ford planning area, a narrative and schematic diagram of the basic treatment process is not applicable.

3. *Description of Problems with the Existing Facilities*

Currently, there are no public wastewater facilities in the planning area. The existing public facilities identified in Section III.A.1., are operating satisfactorily with no malfunctions.

4. *On-Going Upgrades or Expansion of Facilities*

Currently, there are no ongoing upgrades or facility expansions in progress.

5. *Operations and Maintenance Requirements and the Status of Past and Present Compliance*

The Township is the facility permittee and the owner. They perform routine maintenance on the collection and conveyance system to keep the facilities operating satisfactorily.

B. Individual and Community On-Lot Disposal Systems (OLDS)

1. Sewage Needs Identification Guidance Assessment

All properties within the planning area utilize on-lot disposal systems. A sewage need identification survey was completed in accordance with PA DEP guidance. Table 1 in Appendix C provides the results of this survey. The Exhibits also found in Appendix C further summarize these findings.

Statistically, there were 234 surveys that the Township mailed and were received by property owners. Of those surveys, 86 were completed and returned to the Township (37%). Of the returned surveys, 58 systems were field verified (25%) and well water samples taken and analyzed as required.

In general terms, well water sampling revealed that total coliform appears to be prevalent in the planning area. In a number of instances, fecal coliform was detected. The Environmental Protection Agency's (EPA) maximum contaminant level (MCL) for Total and Fecal Coliform is zero. In other words, samples containing levels greater than zero are an indicator of the potential for groundwater contamination. Detected levels of both Total and Fecal Coliform can be attributed to surrounding environmental factors; one of which may be malfunctioning OLDS. Most of the nitrate results reflect levels between 5 mg/L and 10 mg/L. There are a number of instances where nitrate levels exceed 10

mg/L. EPA has stated, "While nitrate does occur naturally in groundwater, concentrations greater than 3 mg/L generally indicate contamination." EPA also stated, "a more recent nationwide study found that concentrations over 1 mg/L indicate human activity (Dubrovsky et al. 2010)" EPA has set the MCL for nitrates at 10 mg/L. However, EPA has tabulated nationwide concentrations of nitrate concentrations greater than 5 mg/L. This appears to be a strong indication that EPA feels this is a good measure of assessing those areas that have the potential to approach or exceed the MCL for nitrates.

OLDS surveys revealed indicators of systems that have the potential for malfunction due to the age of the system and /or the potential for malfunction due to "observed conditions" in and around these systems (e.g. green/lush grass, spongy areas, ponding, odors). It was observed from the survey results that many systems are 30 years of age or older. Some property owners indicated that they were not certain of the age of their systems. In EPA's Handbook for Managing Onsite and Clustered (Decentralized) Wastewater Treatment Systems", it indicates that more than half of the existing systems (nationwide) are more than 30 years old. Surveys indicate at least 10 percent of these systems might not be functioning properly. Age of an OLDS is an indicator of the potential for malfunction especially for those systems that have not been regularly maintained or inspected.

The "observed conditions," referenced above, are also an indicator of systems that are potentially malfunctioning or suspected of malfunctioning.

Specific statistics to the Parker Ford planning area are (for the OLDS surveys completed and returned to the Township):

1. OLDS that equal or exceed 30 years of age – 44%
2. OLDS that equal or exceed 30 years of age or have an unknown age – 67%
3. OLDS where "observed" conditions are a concern – 24%

Specific statistics to the Parker Ford planning area are (for the well water samples that were taken):

1. Samples indicating Total Coliform – 37%
2. Samples indicating Fecal Coliform – 7%
3. Samples indicating nitrate levels greater than 5 mg/L – 74%
4. Samples indicating nitrate levels greater than 10 mg/L – 9%

Based on these survey results and the predictive indicators established by the EPA, there appears to be a basis for concern relative to continued use of OLDS in the Parker Ford area.

2. Sewage Enforcement Officer Data Review and Mapping Review

Sixty-four of the 86 survey responses indicate that their OLDS are 25+ years old, and this is very likely the trend for the properties that did not respond to the base survey. These older systems are more likely to not be functioning properly due to age and lack of maintenance/attention. Their age also increases their risk for malfunctions moving forward, if they are working properly now.

For the Planning Area as a whole, a large number of the properties are under one (1) acre in size, and many are less than half acre. If a malfunction were to occur on one of these properties, a proper system replacement would be very difficult due to the small property footprints and layouts. Many of the properties close to an acre in size have the principal structure centrally located on the property. This limits the space available if a system malfunction were to require a new absorption area due to the current minimum horizontal isolation distance requirements.

A large portion of the area's properties are thin and long. These layouts make it very difficult to site a new absorption area on the property. When horizontal

isolation distances for property lines and drinking-water wells are taken into account, properly placing an absorption area becomes very difficult. Fifteen (15) of the 86 surveys state that the drinking water well isolation distances are currently considerably under the required horizontal isolation distances for such facilities, and 29 of the 86 surveys state that their drinking water well is at or just beyond the 100-foot minimum. Many of these properties would not be able to maintain this distance if their system were to require a new absorption area.

Another problem compounding the small property concerns is the soils underlying Planning area. While many of the soils are listed as moderately to well drained, a large number of the properties are underlain with soil types with shallow depths to the restrictive layer. These depths typically require an elevated sand mound or an alternative treatment technology. Elevated sand mounds and alternative technologies require large footprints that would be difficult to site on the majority of the properties in the Planning area.

From a theoretical perspective, the nitrate levels measured are also concerning. While four (4) of all the sampled wells measured nitrate levels exceeding 10mg/L, 28 of the tested wells had levels between 5 mg/L and 10 mg/L. Only 11 were measured with concentrations below 5 mg/L. With the large amount of rain experienced in the last year, these concentration levels were most likely reduced because of the larger-than-usual volume of water present in these wells. I suspect that these concentrations would trend towards and exceed the 10 mg/L level with the typical rainfall levels.

Three (3) of the 43 tests detected levels of fecal coliform, and as expected, total coliforms were also detected at these locations. But the larger number of total coliform detections can be associated with a large number pollution sources; not just sewage.

C. Wastewater Sludge and Septage Generation

Septage currently generated by the existing OLDS in the planning area, is managed via the Township's current septage management program.

IV. FUTURE GROWTH AND LAND DEVELOPMENT

A. Identification of Municipal and County Planning Documents

1. *Identify Land Use Plans and Zoning Maps*

The Chester County Comprehensive Plan entitled “Landscapes3” establishes guidelines for the following land use categories.

- Growth Management
- National Resource Protection and Open Space
- Agricultural and Farmland Protection

The categories are used to provide the municipalities with “planning strategies to assist them in implementing their growth boundaries.”

The Township has several municipal planning documents that govern Land Use and Zoning. These include:

- Pottstown Metropolitan Regional Comprehensive Plan (Updated 2015)
- East Coventry Township Comprehensive Plan – Sections 1-8 (Adopted May 2003)
- East Coventry Township Comprehensive Plan – Section 9 (Adopted May 2013)
- Chester County Northern Federation Open Space Plan (Adopted April 2012)
- East Coventry Open Space Recreation and Environmental Resource Plan (Adopted 2017)
- PA Act 209 – Land Use Assumption Report 2009 – 2019

A zoning map showing the designated zoning districts is found in Appendix D.

2. *Identify Zoning Regulations That Establish Lot Sizes*

The Zoning Ordinance adopted by the Township establishes the criteria for lot sizes for the following zoning districts in the planning area. Zoning mapping is found in Appendix D.

Zoning District		Minimum Lot Area (Based on Single Family Development)
R2	Low Density Residential District	0.75 Acre
R3	Medium Density Residential	0.5 Acre
LI	Limited Industrial	3.0 Acres
C	Commercial	1.0 Acre

B. Description of Future Growth and Development

1. *Areas with Existing Development and Plotted Subdivisions*

Existing development and plotted subdivisions are described on the map and table found in Appendix E.

2. *Land Use Designations*

Land use in East Coventry Township is governed by the Township's Zoning Ordinance. Land use in the planning area is given the following designations per the zoning ordinance.

- R-2 Low Density Residential
- R-3 Medium Density Residential
- LI Limited Industrial
- C Commercial

3. *Future Growth Areas and Projections*

For the planning area identified for this Special Study, there are areas that have existing development and areas that are planned for growth. The planned

growth and needs are identified on Table 2 found in Appendix F and on the Exhibit found in Appendix F.

The total average daily wastewater flow needs for the planning area, as identified on the Exhibit found in Appendix F, are 182,642 gpd.

More specifically:

- The total number of Existing EDUs is 384.
- The number of Existing EDU's for industrial properties is 25.
- The number of Existing EDUs for commercial properties is 53.
- The number of Existing EDUs for residential properties is 306.
- The number of future residential EDUs is 70
- The number of existing EDUs per Phase:
 - Phase I – 98 EDUs
 - Phase II – 86 EDUs
 - Phase III – 200 EDUs
- The flow rate per EDU is 263 gpd.

A regional pump station is proposed to serve the planning area. This station will have a peak capacity of: $182,642 \text{ gpd} \times 3.75 \text{ peaking factor} = 684,907 \text{ gpd}$ (475 gpm) A 6-inch force main will be needed.

4. *Subdivision Regulations as they Pertain to Planned Developments*

East Coventry Township has established guidelines for development, use, and protection of land. The guidelines are established in the Township's Zoning Ordinance.

The Zoning Ordinance regulates:

- Building height, area, and location on the lot;
- Flood plains and uses within the flood plains;
- Where certain land uses are allowed to occur in the Township;

- Quality, location, or size of signs;
- Minimum lot areas for various uses.

5. *Required Sewage Planning*

Sections V and VI of this Special Study will examine the technical alternatives necessary to meet the sewage facilities needs of the planning area. Projected wastewater flows for the planning area are classified by origin.

V. ALTERNATIVES TO PROVIDE NEW OR IMPROVED WASTEWATER DISPOSAL FACILITIES

A. Identify Alternatives

1. *Regional Wastewater Treatment Concepts*

There are two (2) potential regional treatment concepts. These include installation of a public collection/conveyance system to convey wastewater to either East Vincent Township for treatment and disposal or to North Coventry Township for treatment and disposal.

East Vincent Township was contacted regarding the availability of treatment capacity and related costs (see letter and reply found in Appendix G). The Township replied to this inquiry and stated that they would be willing to convey and treat wastewater from the Parker Ford planning area. However, this would require upgrades to the existing Veterans Center Wastewater Treatment Plant (325,000 gpd) to accommodate East Coventry Township's projected needs.

There is capacity available at the North Coventry Township WWTP to accommodate 0.184 mgd. East Coventry Township currently has an allocation of 510,000 gpd. Of that allocation; the Township currently utilizes 142,807 gpd.

The 2003 Township-wide Act 537 Plan (as approved by PA DEP) details an Alternative that provides for public sewer service to the Parker Ford area. The plan found in Appendix H provides an update conceptual layout of a proposed public collection and conveyance system.

2. *Extension of Existing Municipal Sewage Facilities to Areas in Need*

Currently, there are no public collection and conveyance facilities that serve the planning area. A "Sewage Need Identification" survey was completed to further

assess potential needs. As discussed in Section III of this Plan, the results of this survey is found in Appendix C.

The primary alternative to meet those needs is to implement and extend a public collection and conveyance system to the needs areas and decommission the private on-lot disposal systems. The collection and conveyance system could be extended in phases. Refer to the exhibit found in Appendix H. Phase I would cover the area from Linfield/Bethel Church Roads north to Wells Road. Phase II would cover the area from Wells Road north to Anderson Road. Phase III covers the area from Anderson Road north to Sanatoga Road.

3. *Continued Use of Existing Community Treatment Facilities*

In the planning area, there is one (1) community treatment facility. This system serves the Coventry Terrace Mobile Home Park. It has a capacity of 31,500 gpd and discharges its effluent to the Pigeon Creek. According to the most current discharge monitoring report, their NPDES Permit Number is 0050076.

A file review was completed at PA DEP's offices (records retention) and it was found that treatment plant operation was generally satisfactory. A Notice of Violation (NOV) was issued in 2012. This NOV was issued due to no secondary containment being provided for sodium hypochlorite, thus allowing for release to the surface on ground. It is important to note that the Pigeon Creek has a high quality/trout stocking classification.

4. *New Sewage Systems and Treatment*

This Plan is examining the wastewater needs and the impact of those needs on the planning area.

A number of sewage systems and related treatment options were considered in the approved 2003 Plan and have been considered here as well. These include:

- a. A²O Process
- b. SBR Process

c. Oxidation Ditch Process

Refer to the exhibit found in Appendix I that shows the conceptual locations for these facilities. They are shown as Treatment sites A, B, and C respectively. Treatment sites A and B are relatively close to the planning area identified in this Special Study. However, both are within the 100 year floodplain. Both sites are within approximately 1/3 to 1/2 miles of the Parker Ford area.

Treatment site C is outside of the 100 year floodplain but is over 2.5 miles from the Parker Ford area.

Environmental constraints to implement the three above treatment options on sites A, B, and C were investigated through the completion of PNDI searches for each option. The Pennsylvania Fish and Boat Commission and the U.S. Fish and Wildlife Service have concluded that the proposed treatment plant sites will impact the Eastern Redbelly Turtle and the Bog Turtle. This could be a significant hurdle for the construction of these facilities. In addition, the PHMC has identified the potential for archaeological resources at each of the proposed treatment plant sites.

5. *Repair and Replacement of Existing Collection and Conveyance System Components*

In the planning area, all properties are served by private on-lot disposal systems, or in the case of the mobile home park, served by a small private collection and treatment system. Repair and replacement of existing collection and conveyance system components is not applicable to this Plan.

6. *Alternative Methods of Collection and Conveyance to Serve Areas in Need*

Most of the proposed collection system will be traditional gravity sewer main. A few locations will require low pressure sewer. Those properties being served by

low pressure sewer systems will need to own and maintain their respective grinder pump systems.

B. Use of Individual Disposal Systems

Properties in the planning area are served by private individual on-lot disposal systems. A sewage needs survey was completed in accordance with PA DEP "SEWAGE NEEDS GUIDANCE" documentation. The findings are found in Appendix C.

C. Use of Existing Sewage Treatment Facilities

There are two (2) options to collect and convey wastewater to existing sewage treatment facilities. These include:

- A. Collect and convey wastewater to the North Coventry Township Wastewater Treatment Plant.
- B. Collect and convey wastewater to the Veterans Center Wastewater Treatment Plant located in East Vincent Township.

Currently, East Coventry Township has allocated capacity available in the North Coventry Township facility via Intermunicipal Agreement. That is not the case for the treatment facilities in East Vincent Township.

D. Community Land Disposal

Assessment of alternatives based on the use of community land disposal is not applicable to this Special Study.

E. Retaining Tank

The use of retaining tanks will not be evaluated as part of this Special Study.

F. Septage Management

East Coventry Township, as part of their Township code, has a chapter (Chapter 18) dedicated to “Sewers and Sewage Disposal”. Part 2 of this chapter is titled “Management of Individual and Community On-lot Disposal Systems”. Refer to Part 2 found in Appendix J. This has been adopted by the Township in an effort to manage on-lot systems throughout the Township as well as within the planning area.

G. Non-Structural Comprehensive Planning Alternatives

It is not anticipated that there will be any modifications to the Township Comprehensive Plan. Non-structural comprehensive planning alternatives shall not be addressed as part of this Special Study.

H. No Action Alternative

1. *Water Quality and Public Health*

If a public wastewater collection and conveyance system is not implemented, water quality and public health may be impacted. OLDS that are malfunctioning or have the potential to malfunction would continue to be utilized and could impact local groundwater conditions.

2. *Growth Potential*

Growth potential is governed by the local zoning ordinance and by availability of developable land. Lack of a public collection and conveyance system will not impact growth potential. However, the potential for availability of public sanitary sewer may be found as favorable to some developers.

3. *Community and Economic Conditions*

No action to providing public collection and conveyance facilities could play a role in the decision-making process for local businesses to relocate to or from the Parker Ford area.

4. *Recreational Opportunities*

A no-action alternative for this Special Study would not have an impact on recreational opportunities.

5. *Drinking Water Sources*

If a public collection and conveyance system is not constructed, OLDS that are malfunctioning or have the potential to malfunction would continue to be utilized and could impact local groundwater conditions.

6. *Other Environmental Issues*

If the proposed collection and conveyance system are not constructed, it does not appear that other environmental issues would be impacted.

VI. EVALUATION OF ALTERNATIVES

A. Consistency Determination

1. *Clean Stream Law*

The construction of upgrades to the conveyance facilities in the planning area does not conflict with the Clean Stream Law. Flow generated by the planning area will ultimately be treated at the North Coventry Township WWTP and disposed of in accordance with requirements and NPDES limits set forth by PA DEP.

2. *Chapter 94 Report*

The East Coventry Township 2024 Chapter 94 Report indicates that the North Coventry WWTP has capacity and reserved allocation to meet current flow needs based on the needs identified in this Special Study.

The Chapter 94 Report shows that the Township currently utilizes 142,807 gpd at the North Coventry plant. Flows projected for the planning area equate to 182,642 gpd (475 gpm). These projections fall within the Township's remaining allocation (510,000 allocated – 142,807 used = 367,193 gpd available at that facility). The allocated amount of 510,000 gpd was identified in the 2003 537 Plan that was approved by PA DEP. The approval letter is provided in Appendix U along with the executed Intermunicipal Agreement among East Coventry Township, the North Coventry Municipal Authority, and North Coventry Township. This Intermunicipal Agreement also identifies an allocated capacity for East Coventry Township of 510,000 gpd.

The 2024 Chapter 94 Report also indicates that East Coventry Township's Main Pump Station (PS-1) at Towpath Park, has the following:

Average Flow (GPD) =	142,807
Projected Flow (GPD) =	182,642 (from Parker Ford)

Total (GPD) =	325,449
Permitted Avg Flow (GPD) =	510,000 (Capacity of PS-1)
Peak Sizing of (GPD) =	1,728,000

As a consequence, there is available capacity in PS-1.

Organically, there appears to be no permit limit associated with organic loading at the treatment plant as identified in the plant’s NPDES permit.

It should be noted that although this Special Study for the Parker Ford area identifies approximately 70 additional EDUs beyond that which was identified in the 2003 Plan, EDUs will continue to be managed such that flows will be well within the capacity allocation identified in the Intermunicipal Agreement and remain consistent with prior planning.

3. *Clean Water Act (Title II)*

This Act and the Federal Water Quality Act establish specific planning requirements for wastewater facilities planning. These requirements only apply to municipalities intending to apply for financial assistance from the Federal Government for the construction of sewage facilities. Since the funding of the construction of the alternatives would be through financial contributions by the municipality, this analysis is not applicable.

4. *Comprehensive Plans*

The Chester County Planning Commission (CCPC) Comprehensive Plan, entitled “Landscapes3,” was adopted in November of 2018. The alternatives to provide public sanitary sewer service to accommodate needs areas in the planning area is consistent with the implementation strategy, policies and goals of the current Landscapes3 as shown in the Utilities and Infrastructure section of the plan.

East Coventry Township adopted the Pottstown Metropolitan Regional Comprehensive Plan in June 2015.

In September 2002, Chester County adopted a water resources management plan, titled 'Watersheds'. This is an element of the County's Comprehensive Plan. In Part 4 of the Plan (Goals and Objectives – Achieving the Vision), Goal 7 describes the need to integrate utility and municipal planning to meet future water supply and wastewater needs.

It further discusses the need to delineate municipal planned public water/wastewater service areas and evaluate infrastructure alternatives. This Special Study is consistent with the objectives set forth in Watersheds.

5. *Antidegradation Requirements Contained in Chapters 93, 95 and 102 of the Clean Water Act*

Implementation of any of the alternatives for this Special Study will not impact the antidegradation requirements contained in Chapters 93, 95, 102 of the Clean Water Act.

6. *State Water Plans*

There are no anticipated conflicts with the State Water Plan for this submission.

7. *Pennsylvania's Prime Agricultural Land Policy*

East Coventry Township is committed to protecting prime agricultural land within the Township's boundaries.

For the planning area in this Special Study, the Township's Zoning Ordinance and Comprehensive Plan give the land area residential, office/business park, open space, village mixed use, and frontage commercial designations. The development of this land is consistent with its land use designation.

It should be noted that the Chester County Planning Commission's agricultural conservation easement plan indicates that there are no agricultural conservation easements in planning area. This plan was developed by the Chester County Department of Open Space Preservation utilizing information from the County Agricultural Preservation Board and the Chester County Bureau of Land Records. The latest update is January 2014.

8. *County Stormwater Management Plan*

A County-wide PA Act 167 Stormwater Management Plan (SWMP) has been completed and approved for Chester County. The Pigeon Creek Watershed is a part of this Plan. PA DEP approved it July 2013. The Pigeon Creek is designated as a high-quality trout stocking stream. From a consistency perspective, it appears that the concept to provide sewer service to existing and potential development is consistent with the SWMP. This Special Study planning area falls within the Pigeon Creek Watershed and the prescribed system improvements not only to accommodate existing and future flows but provide for minimizing inflow and infiltration of stormwater into the sanitary sewer system.

9. *Wetlands Protection*

There are some wetlands within the planning area along the Pigeon Creek. See the map found in Appendix K. The source for the wetlands information is the National Wetlands Inventory Mapping provided by the U.S. Fish and Wildlife Service. Freshwater forested/shrub wetlands are generally located adjacent to and along the Pigeon Creek and the Schuylkill River. It appears that the wetlands, given their location, will be minimally impacted by existing and proposed wastewater facilities.

10. *Protection of Threatened, Rare, and Endangered Plant and Animal species (PNDI)*

A Pennsylvania National Diversity Inventory (PNDI) search (Appendix L) was conducted for the areas of proposed infrastructure. The PA Fish and Boat Commission and the U.S. Fish and Wildlife Service have concluded that proposed treatment plant sites will impact the Eastern Redbelly Turtle and the Bog Turtle respectively. Potential inconsistencies have been resolved.

11. *Historic and Archaeological Resource Protection*

The Pennsylvania Historic and Museum Commission (PHMC) were contacted to determine if there were any potential conflicts with proposed infrastructure. PHMC identified the potential for archaeological resources at each of the proposed treatment plan sites (See Appendix M). Potential inconsistencies have been resolved.

B. Resolution of Inconsistencies

Upon review of the constraints discussed in items 1 through 11, any potential inconsistencies have been resolved.

C. Alternative Evaluation with Respect to Applicable Water Quality Standards and Effluent Limitations

The planned alternatives to provide a sanitary sewer collection and conveyance system for this planning area will not impact water quality standards or effluent limitation. Wastewater will be discharged to the existing public collection and conveyance system. Ultimately, wastewater will be treated at the North Coventry Township WWTP.

D. Preliminary Cost Opinions

Planning-level cost opinions were developed for the primary alternatives discussed in Section V. These cost opinions reflect the following:

Treatment/Conveyance Options:

Potential Treatment Site A:

- A²O Process \$5,381,000
- Sequencing Batch Reactor Process \$5,110,000
- Oxidation Ditch Process \$5,691,000
- Pump Station \$ 660,000
- Force Main \$ 260,000

Potential Treatment Site B:

- A²O Process \$5,381,000
- Sequencing Batch Reactor Process \$5,110,000
- Oxidation Ditch Process \$5,691,000
- Pump Station \$ 660,000
- Force Main \$ 390,000

Potential Treatment Site C:

- A²O Process \$5,381,000
- Sequencing Batch Reactor Process \$5,110,000
- Oxidation Ditch Process \$5,691,000
- Pump Station \$ 660,000
- Force Main \$1,890,000

North Coventry Township (North Coventry WWTP):

- Treatment Plant (Existing) \$ 0.00
- Pump Station (Parker Ford PS) \$ 759,000
- Force Main (Along Rt. 724) \$2,707,501

East Vincent Township (Veterans Center WWTP):

- Treatment Plant (Expansion) \$3,500,000
- Pump Station \$ 660,000
- Force Main \$ 468,000

Cost Comparison Treatment/Pump Station/Force Main:

Site A – Total = \$6,030,000*

[Treatment + Pump Station + Force Main]

Site B – Total = \$6,160,000*

Site C – Total = \$7,660,000*

** Using SBR as the process since it is the least expensive of the treatment options.*

Site North Coventry WWTP – Total = \$3,466,501

Site East Vincent WWTP – Total = \$4,628,000

The collection system has been broken into sub areas. The collection system cost opinions are:

Total Cost (Pump Station and Force Main): \$3,466,501

Total Cost (Collection System):

- Planning Area (East) Phase I: \$6,032,867
- Planning Area (Central) Phase II: \$5,659,640
- Planning Area (West) Phase III: \$6,273,211
- Engineering/Surveying/Legal/Permitting: \$5,358,055

Note: Only those structures that are within 150 feet of the proposed public sewer will be required to connect. The Coventry Terrace Mobile Home park's WWTP is outside of the 150 foot connection radius along with many of the units in the MHP. The WWTP would not have to be decommissioned immediately. Refer to: East Coventry Township - Chapter 18: Sewers and Sewage Disposal, § 18-303: Connection With and Use of Public Sewers. <https://ecode360.com/31111921>

Currently, there are no plans to decommission the Coventry Terrace wastewater treatment plant in the future. Mobile homes that may be located within 150 feet of the proposed sewer will not be required to connect to public sewer (once it is available).

Tapping Fees and Rates: Tapping fee (for the total projected EDUs of 454 (existing plus future) would be \$65,806 per EDU. This includes the Special Purpose portion of the Tapping Fee as well as the East Coventry base portion of the Tapping Fee. These are East Coventry Township Rates and Tapping Fees. If the sale of the Township sewer infrastructure were to proceed and the sale were to move forward, PAWC would commit to assume East Coventry's existing rates at closing and upon closing all of the existing homes in the Parker Ford area would be considered bonified and as such not subject to any tap in fee pending a final decision by the PUC on the approval of the sale.

It should be noted that the anticipation of future industrial EDUs is nebulous and are not factored into the projected rates. The rates shown below are conservative. Future industrial construction could help to offset these rates.

Currently, the user rates would be:

EAST COVENTRY TOWNSHIP - SEWER RATE PROJECTIONS											
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
All Customers Contribute to PF	\$185	\$261	\$299	\$321	\$360	\$386	\$441	\$441	\$441	\$450	\$456
Non-PF Customers if Only PF Customers Contribute to PF	\$185	\$205	\$205	\$205	\$205	\$205	\$205	\$205	\$205	\$205	\$205
PF Customers if Only PF Customers Contribute to PF	\$185	\$185	\$185	\$300	\$532	\$648	\$879	\$996	\$1,228	\$1,228	\$1,227

Note - Projections are estimated and subject to material change based on variety of factors.

Property owners that must connect to the proposed collection system (when it becomes available) will need to hire plumbers to extend service from their property to the point of connection at the edge of the right of way. Costs for connection will vary.

Typically, costs may range from \$3,000 to \$8,000 per house. Plumber work would include sewer installation (from lateral connection to house) and OLDS decommissioning. This cost-range is an approximation and it will depend on physical constraints such as depth of service, rock in the excavation, distance to the sewer main, etc.

E. Analysis of Available Funding Methods

This section of the Plan addresses methods available to finance the proposed Phases. Three (3) financing alternatives exist for this particular project.

1. *Municipal Bond Issue*

a. *General*

There are several types of bonds; some are taxable and some are tax-exempt. However, the general classification of municipal bonds usually refers to tax-exempt bonds. There are three (3) types of municipal bonds generally used in financing public works.

- *General Obligation Bonds* are tax-free bonds that are secured by the pledge of the full faith, credit, and taxing power of the issuing agency. This means that this type of bond is backed by all of the taxes on real estates and personal property within the jurisdiction of the issuing agency. It involves minimum risk to the investor and therefore requires a lower rate of interest than other types of bonds.

- ▶ *Dedicated Tax Bonds* are payable only from the proceeds from a special tax and are not guaranteed by the full faith, credit and taxing power of the issuing agency. Examples of special dedicated taxes are the special assessments against property which is adjacent to and the principal beneficiary of the

improvement, and gasoline taxes used to finance highway construction.

- ▶ *Revenue Bonds* are payable from revenues derived from the use of the improvement such as tolls, sewer bills, or rents paid by the users of the improvement and do not otherwise represent an obligation of the issuing agency. Revenue bonds are not ordinarily subject to statutory or constitutional debt limitations. They are often issued by commissions, authorities, and other public agencies created for the specific purpose of financing, constructing, and operating essential public projects.

Typically, municipal bonds are sold to an investment-banking firm, which then resells the bonds to individual investors. The advantage of municipal bonds to the investor is their tax-free status. A bond discount (a percentage of the total bond issue) serves as the investment banker's commission. Before bonds are sold, they must be rated on the basis of risk to the investor by a rating agency such as Standard and Poor's or Moody's. The higher the rating, the lower the risk to the investor and, consequently, the lower the interest rate paid on the bond.

The legal instrument, which sets the rules that must be observed by the issuing agency, is the Trust Indenture. The Trust Indenture is prepared by the Bond Counsel and must be printed along with the bonds. Due to specific requirements as to the denominations of the bonds and methods and materials for printing, printing costs can be substantial. A trustee is required to administer the bond issue and insure the terms of the Trust Indenture are observed. This results in an Annual Trustee Fee. Investment bankers indicate that it does not pay to extend the term beyond 25 years because the interest rate increases dramatically.

b. Advantages of Municipal Bond Issue Funding

- ▶ This program affords long-term fixed rate financing.
- ▶ Tax-exempt municipal bonds are in high demand.
- ▶ There is local investment opportunity.
- ▶ Municipal credit is established.
- ▶ It retains flexibility for future borrowing.

c. *Disadvantages of Municipal Bond Issue Funding*

- ▶ A cover may be required.
- ▶ A Debt Service Reserve Fund is generally required.
- ▶ There are trustee fees and costs of preparing a Trust Indenture.

2. *Bank Loan*

Another financing option for the implementation of this project is the bank loan. There are four (4) basic categories of bank loans. These are:

- ▶ Real Estate Loans (Mortgage)
- ▶ Participation and Interbank Loans
- ▶ Installment Loans (Personal)
- ▶ Municipal Infrastructure

Of the four (4) types, a municipal infrastructure loan would be the most applicable to this project.

Loans may be made on a demand or time basis. A demand basis loan allows the bank to call for repayment at any time, or the borrower can repay when convenient. A time basis loan provides for a specific loan maturity date.

The credit is extended on the basis of an analysis of all available information pertaining to the customer and the bank's confidence in that customer's ability and willingness to repay.

For this planned project, it appears that it would be prudent to seek a time basis loan. An interest rate offering would be established, and an amortization schedule set. Interest rates are very low at this time and makes this a very attractive financing option.

Advantages of the Bank Loan Financing

- ▶ Ability to shop around for a loan structure that best fits the customer's needs.
- ▶ Flexibility in establishing repayment schedules.
- ▶ Working with and through a local financial institution.
- ▶ Municipal credit is established.
- ▶ Ability to obtain fixed rate financing.

Disadvantages of Bank Loan Financing

- ▶ Interest rates are charged for loan repayment.
- ▶ Processing fees may be required.
- ▶ Processing and issuances fees may be expensive.

3. Pennsylvania Infrastructure Investment Authority (PennVest Authority)

General

The PennVest Authority was formed by the Commonwealth of Pennsylvania. Its legislative intent was to recognize that the health of millions of citizens of the Commonwealth is at risk due to substandard and deteriorated water and wastewater systems.

Advantages of the PennVest Authority Funding

- The interest rates available even in the highest bracket are less than market value for a Municipal Bond Issue.
- Program management is greatly influenced by PADEP, which is the same agency that approves the Township's Act 537 Plan.
- Issuance (financial services) costs are relatively low compared to issuance costs of a municipal bond issue.

Disadvantages of the PennVest Authority Funding

- Compare the interest rate and terms of the loan or bond issue. Is it to the Township's advantage to seek a loan? Bear in mind that the program was conceived to assist communities with high unemployment rates and low average family incomes. East Coventry Township may not qualify for financial assistance.
- How long can the Township wait to start construction? Would it qualify for emergency funding? Would the Township qualify for a letter of no prejudice if construction were started?
- There can be delays in obtaining the PennVest Authority check. A line of credit may be needed.
- The Township may need to tolerate and afford the governmental requirements, such as meeting certain additional planning requirements, documentation, record keeping, filing, etc.
- The application process may be lengthy due to there being only two (2) PennVest Authority Board meetings each year and an increasing backlog of applications to be processed.
- There is much competition for the low interest funding.
- Municipal guaranty is required.

- Future borrowing by the Township may be limited by required loan documents.
- PA DEP may not approve design for financing and, after great delay, the financing process would have to be restarted through a second alternative method of financing.

4. Direct Funding by the Township

A fourth financing option for the implementation of this project is direct funding by the Township. This would involve capital expenditures by the Township from its own capital funds.

Advantages of Direct Funding

- Avoid any third-party involvement. Payment for services can be made directly to the manufacturer or contractor by the Township.
- There are no interest rate charges.
- Bank processing and issuance fees are avoided.
- Remove the burden of having to wait for financing, making stop-gap payments, and completing all of the paperwork that goes with obtaining a grant, loan, or other financial assistance.

Disadvantages of Direct Funding

- There are no disadvantages to this method of financing aside from making sure that capital will be available.

5. Funding Through Grants

Another financing option is to seek grants for the implementation of the project. Funding through grants and the opportunity to utilize these monies can be

rather variable depending on whether or not certain programs are funded by the State at any given time. The Commonwealth Financing Authority, in conjunction with the Department of Community and Economic Development, will issue notices letting applicants know when grant programs are in effect and applications for grant monies can be submitted.

Advantages of Direct Funding

- There are no interest or rate charges.
- Multiple processing fees are avoided.
- Avoids the delays and the potential uncertainty associated with a PennVest loan.
- Monies are available at no interest and no repayment is required.

Disadvantages of Direct Funding

- Application documentation must be prepared.
- Availability of grant monies can vary from year to year depending on the State budget.
- There is uncertainty as to whether or not a municipality's grant application will be accepted.
- There typically is a one-time processing fee.

6. Sale of the System

The financing for the implementation of this project is the sale of the system by the Township. Given the difficulty and timing constraints to win grants to fully pay for the project and the Township's financial constraints, the Township is considering the sale of its sanitary sewer system and the responsibility to provide sewers to Parker Ford area to an outside entity, who will fully fund the project pending PUC approval of the application.

F. Immediate or Phased Implementation

Phased implementation will be as shown in the implementation schedule and shown on the graphic found in Appendix H.

Please note: The Township shall work closely with the CCHD (as the designated SEO) to monitor the needs in the Parker Ford area. The Township shall utilize the Septage Management Program that is in place and is a part of the Township Code (Chap. 18, Part 2, "Management of Individual and Community On-Lot Disposal Systems") to handle instances related to regulatory matters. If a property owner requests to install a new OLDS, this request will need to go through the CCHD. Any new development (and related developers) shall be made aware that this sewage facilities planning is in place and will let that decision be made by the developer to move forward with new development or hold.

G. Ability of the Township to Implement the Alternative

Given the difficulty and timing constraints to win grants to fully pay for the project and the Township's financial constraints, the Township is considering the sale of its sanitary sewer system and the responsibility to provide sewers to Parker Ford area to PA American, who will fully fund the project pending PUC approval of the application. If the sale of the system were to not take place, the plan to move ahead with the construction of public sewers in the Parker Ford area would also not take place.

VII. INSTITUTIONAL EVALUATION

A. Analysis of the Township, Past Actions, and Present Performance

1. *Financial and Debt Status*

The Township is a well-established entity that will be able to oversee the implementation of the proposed technical alternative. Financially, through the funding mechanisms identified above, the construction of the proposed conveyance facilities can be accomplished. Ultimately, the Township will take dedication of these facilities and will be required to operate and maintain them. The funds for facility O&M are planned to originate from the Township's Sewer Fund.

If the Township and PA American were to complete the sale of the wastewater collection and conveyance system, PA American would have the financial means to implement this Plan.

2. *Available Staff and Administrative Resources*

The Township is governed by a five-member Board of Supervisors elected at-large, who each serve six-year terms that include executive and legislative responsibilities. Others associated with the Township are:

- ▶ Township Manager
- ▶ Director of Public Works
- ▶ Solicitor
- ▶ Consulting Engineer

The Township has staff and administrative resources in place. However, if the Township and PA American were to complete the sale of the wastewater collection and conveyance system, PA American would have the necessary staff and administrative resources to implement this Plan.

3. *Existing Legal Authority*

As provided for under Pennsylvania Law, the Township has the necessary legal authority to oversee the implementation of the technical alternatives presented in this Special Study.

If the Township and PA American were to complete the sale of the wastewater collection and conveyance system, PA American would have the legal authority to implement this Plan.

B. Institutional Alternatives Necessary to Implement the Technical Alternative

1. *Need for a New Authority*

East Coventry Township does not have an Authority in place at this time. It is not deemed necessary that a new Authority be established to meet the needs of the alternatives identified in this Special Study. The Township and public works personnel are capable of implementing the identified alternatives.

2. *Function of the Authority*

This is not applicable given that there is no sewer authority in place at this time.

3. *Cost of Administration*

This is not applicable given that there is no sewer authority in place at this time.

C. Administrative and Legal Activities to be Completed and Adopted to Ensure the Implementation of the Technical Alternative

1. *Legal Authorities of Incorporation*

No new wastewater Authorities of Incorporation are necessary and there will be no changes to the Township's structure to implement these projects.

2. *Required Ordinances, Standards, Regulations, and Intermunicipal Agreements*

East Coventry Township entered into an Intermunicipal Capacity Reservation Agreement with North Coventry Township and the North Coventry Municipal Authority providing for an allocation of 510,000 gpd at the North Coventry Township WWTP. To date, in accordance with Chapter 94 Reporting, the Township currently uses 142,807 gpd of that allocated capacity.

If the sale of the system to PA American is completed, an Agreement of Sale would be needed along with the detailing of responsibilities of both the Township and PA American.

3. *Provisions of Rights-of-Way, Easements, and Land Transfers*

Proposed wastewater collection and conveyance system components will extend primarily through the streets and public rights of way. As the need arises, to acquire an easement from property owners, it will be broached at that time. The Township does have the legal means and authority to condemn easements, if necessary, for project completion.

4. *Other Sewage Facilities Plan Adoptions*

If the Township moves forward with the sale of the sanitary sewer system, a separate Act 537 Special Study, that is specific to the sale, would be prepared for the Department's review and approval.

5. *Legal Documents*

Revisions to intermunicipal agreements are not necessary for this Special Study. If the sale of the system to PA American is completed, an Agreement of Sale would be needed along with the detailing of responsibilities of both the Township and PA American.

6. *Dates and Timeframes of 1 Through 5 Above*

The dates and timeframes for the items in this section are found in the implementation schedule in the Executive Summary of this Plan.

D. Selected Institutional Alternative

The selected institutional alternative would be to make no changes to the existing municipal structure and proceed to sell the sanitary sewer system to PA American Water Company.

VIII. SELECTED WASTEWATER TREATMENT AND INSTITUTIONAL ALTERNATIVE

A. Identify the Chosen Technical Alternative

The selected alternative which best meets the wastewater treatment needs of the proposed and existing development in the planning area is:

Alternative #2:

Construct a public collection system (in phases) along with a regional pump station and force main. Collected wastewater shall be conveyed to the North Coventry Township WWTP for treatment and disposal.

1. *Existing Wastewater Disposal Needs*

Within the planning area, wastewater disposal needs are currently met through the use of individual on-lot disposal systems and in the case of the Coventry Terrace mobile home park, a package wastewater treatment plant. Given the age of some of the existing OLDS and given that some OLDS have given indications of potentially failing, other means for collection, conveyance, and treatment of wastewater must be implemented.

For the existing Coventry Terrace WWTP, this plant shall remain in place and will not be required to connect to the planned public sewer system. It will continue to discharge treated effluent to the Pigeon Creek in accordance with the requirements of the most current NPDES Permit (Permit #0050076).

2. *Future Wastewater Treatment Needs*

Future wastewater disposal needs, identified in Section IV of this Plan show that in order to serve existing development, and future development, a central regional pump station will be needed to convey wastewater to the North Coventry WWTP.

Once public sanitary sewer becomes available to properties located in the Parker Ford planning area, properties located within 150 feet of the public sewers will be required to connect to the collection system.

3. *Operations and Maintenance Considerations*

If the sale of the Township's public sanitary sewer system to PA American is completed, the proposed wastewater facilities will be owned, operated, and maintained by PA American. Should the sale not be completed, then the sewerage of the Parker Ford area would not move forward.

Prior to completion of and connection to the public sewer system, properties within the Parker Ford planning area (that are on OLDS) shall continue to be operated and maintained within the guidelines of the Township's current Septage Management Ordinance.

The Coventry Terrace WWTP, referenced in VIII.1. above, shall continue to be owned, operated, and maintained by the ownership of the Coventry Terrace Mobile Home Park. It is understood that if the mobile home park were to consider connection to the Parker Ford public sewer system, additional 537 Planning may be required.

4. *Cost Effectiveness*

In accordance with the cost opinions for the alternatives presented in Section VI of this study, the construction of a public collection system, along with a pump station to convey wastewater to the North Coventry WWTP is the most cost affective approach. Since this WWTP already exists and plant capacity is available to East Coventry Township, additional capital funds to construct new facility, expand an existing facility, or purchase treatment capacity, will not be necessary. Construction of the regional pump station can follow under the purview of the Township. The environmental benefits of regionalizing the

conveyance system and connecting existing OLDS to the public sewer system outweigh the financial implications.

5. *Available Management and Administrative Systems*

The Township has the management and administrative staff in place to implement the selected alternative.

6. *Available Financing Methods*

Of the financing methods discussed in Section VI, each method has some potential viability. However, please refer to Section VIII.B. for the selected capital financing plan.

7. *Environmental Soundness*

Environmentally, the North Coventry Township WWTP can adequately treat the projected average and peak flows within the permitted concentration limits.

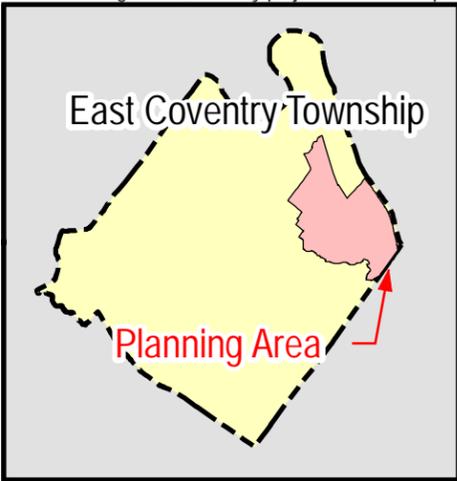
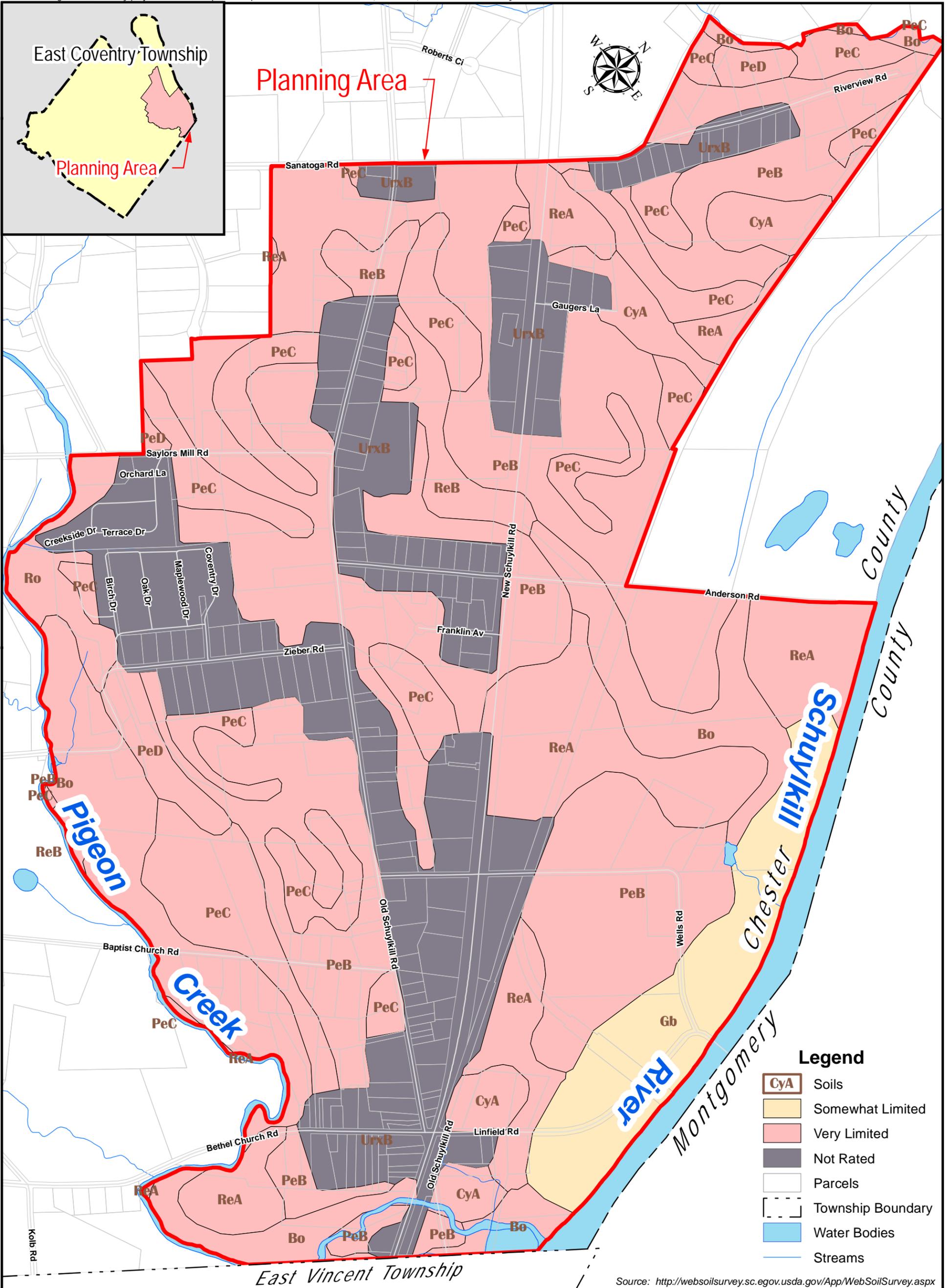
B. Selected Capital Financing Plan

The Township has considered funding the project via potential grants and bonds. The Township also has also looked toward the pursuit of the sale of its sanitary sewer system. Given the constraints associated with the Township funding a project of this magnitude (from a cost perspective), the sale of the system appears to be the best means toward implementing the plan for public sewers in the Parker Ford area pending PUC approval. If the sale of the Township's collection/conveyance system would not take place, then the extending of public sanitary sewers to the Parker Ford area will not move forward.

APPENDICES

APPENDIX A

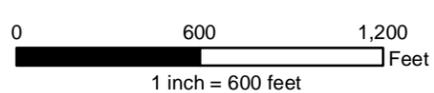
Soils



Legend

- Soils
- Somewhat Limited
- Very Limited
- Not Rated
- Parcels
- Township Boundary
- Water Bodies
- Streams

Source: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>



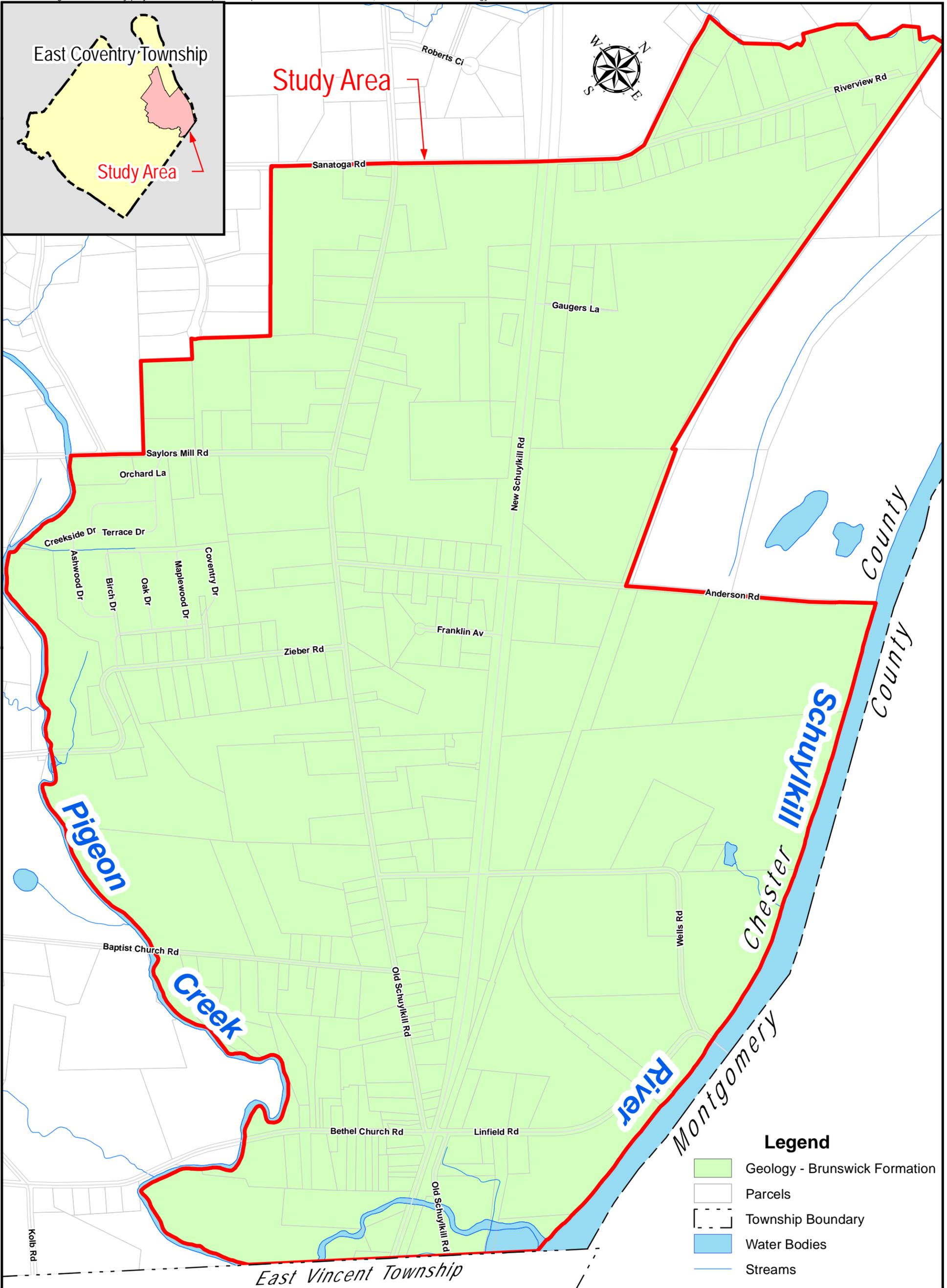
Act 537 Plan
Parkerford Area
SOILS SUITABILITY

June 2021

Prepared by:
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321 North Furnace Street, Suite 200
Birdsboro, PA 19508
610-374-5285

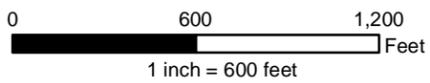


EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
855 Ellis Woods Road
Pottstown, PA 19465
610-495-5443



Legend

- Geology - Brunswick Formation
- Parcels
- Township Boundary
- Water Bodies
- Streams



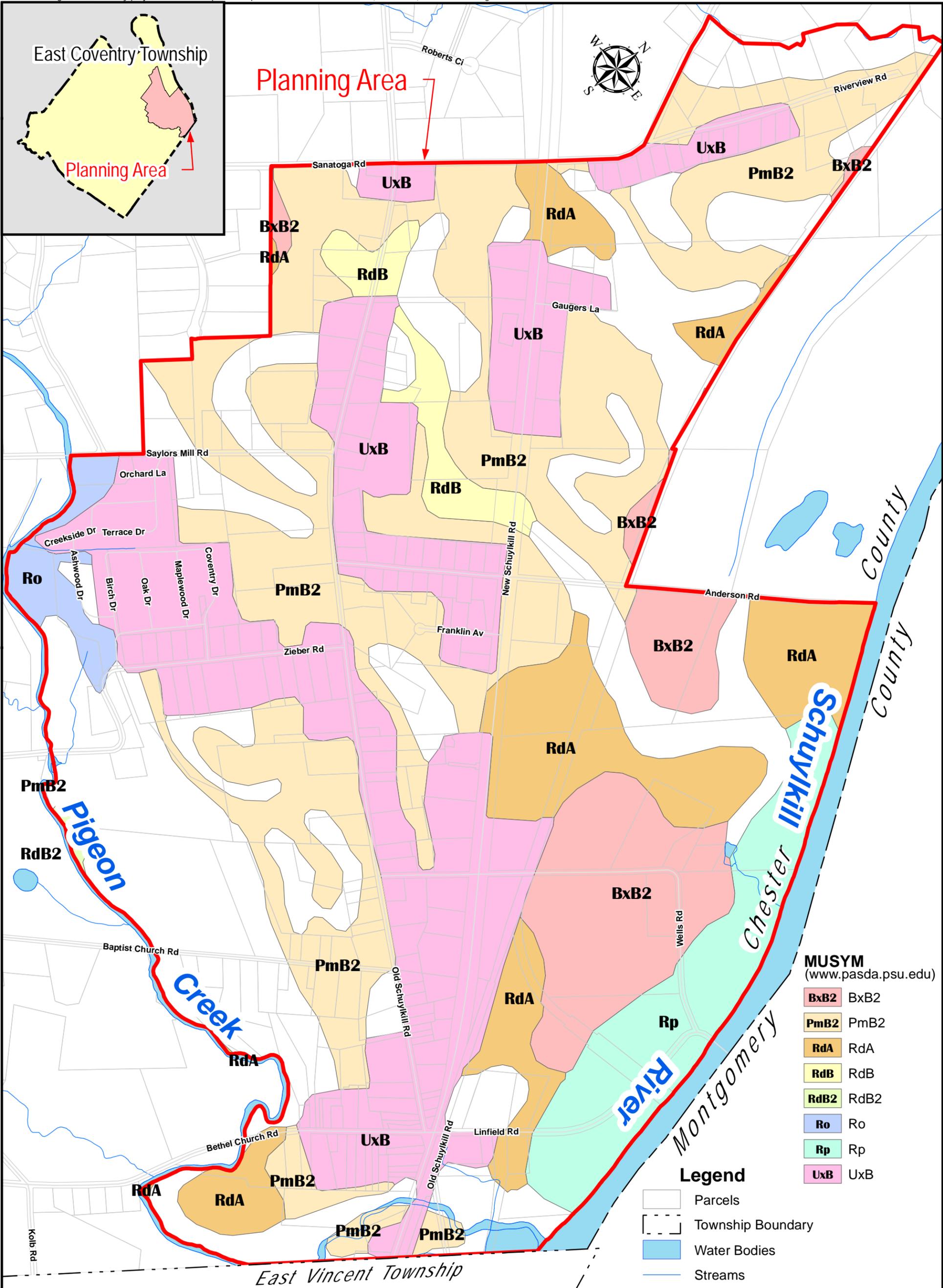
Act 537 Plan
Parkerford Area
GEOLOGY

June 2021

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610-374-5285



EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
855 Ellis Woods Road
Pottstown, PA 19465
610-495-5443



0 600 1,200
1 inch = 600 feet

Act 537 Plan
Parkerford Area

PRIME AGRICULTURAL AREAS

June 2021

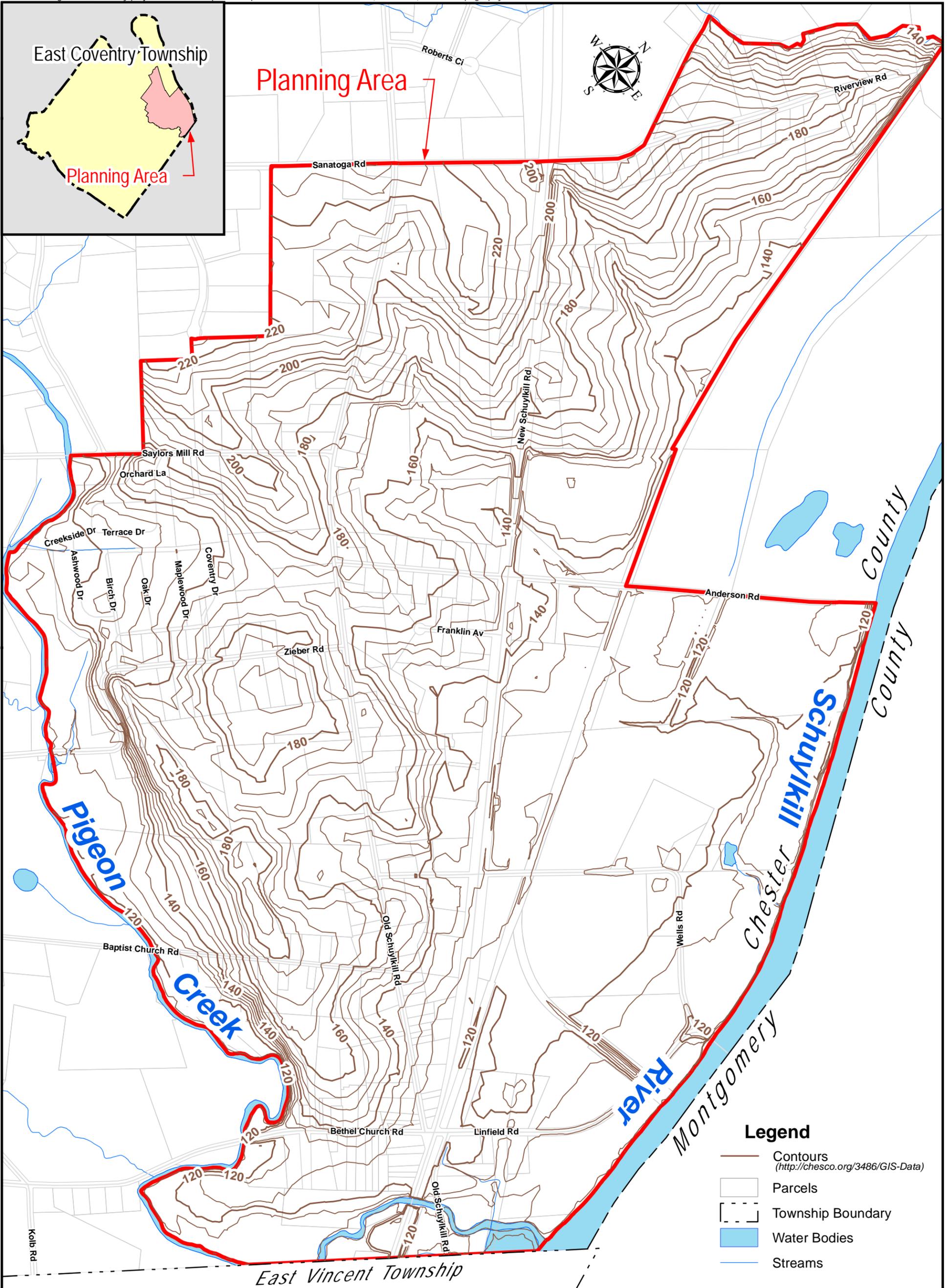
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EAST COVENTRY TOWNSHIP
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APPENDIX B

Topography



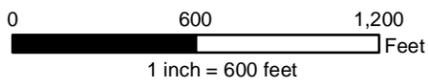
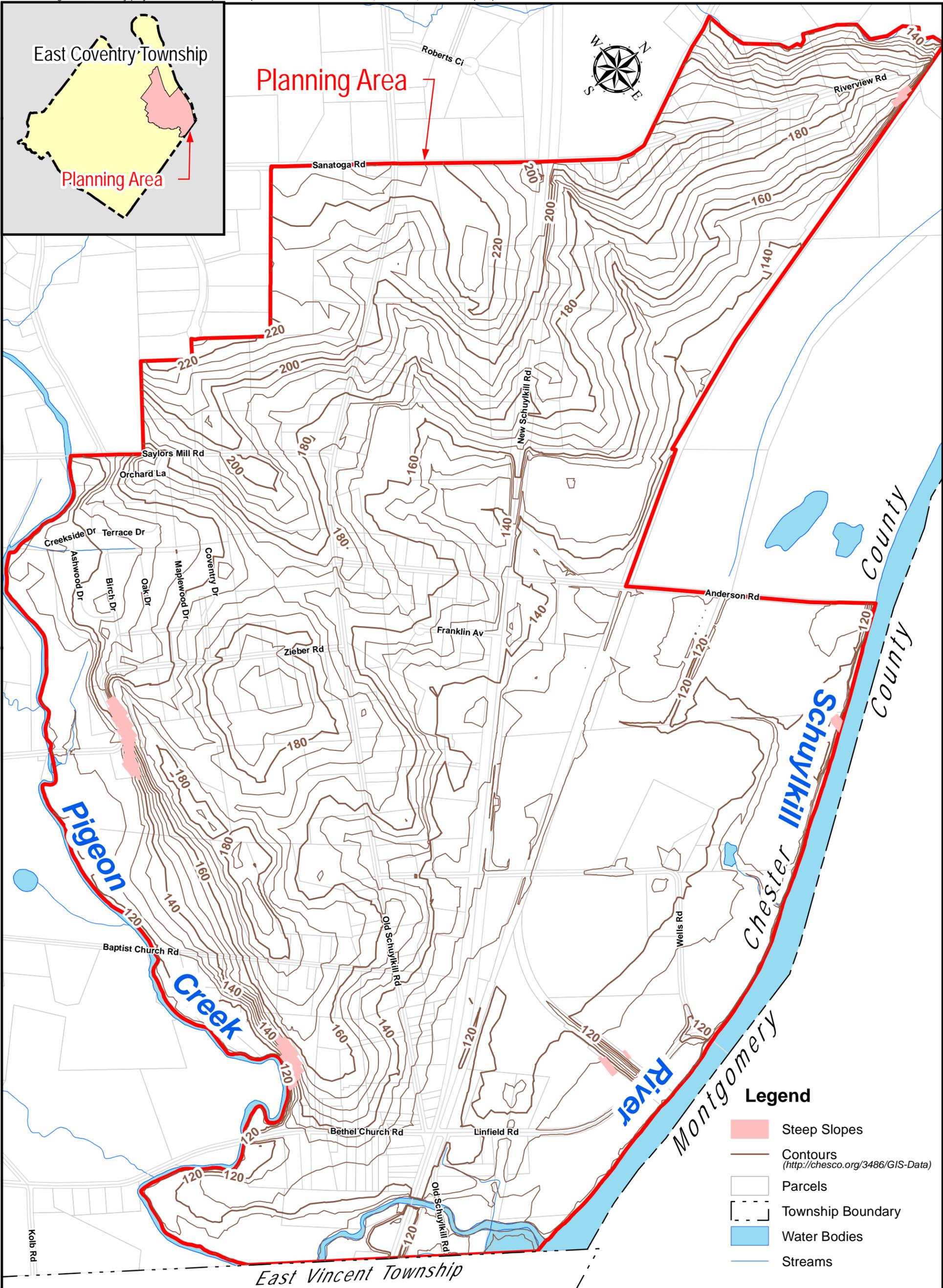
Act 537 Plan
Parkerford Area
TOPOGRAPHY

June 2021

Prepared by:
ARRG
321 North Furnace Street, Suite 200
Birdsboro, PA 19508
610-374-5285



EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
855 Ellis Woods Road
Pottstown, PA 19465
610-495-5443



Act 537 Plan
Parkerford Area
STEEP SLOPE

June 2021

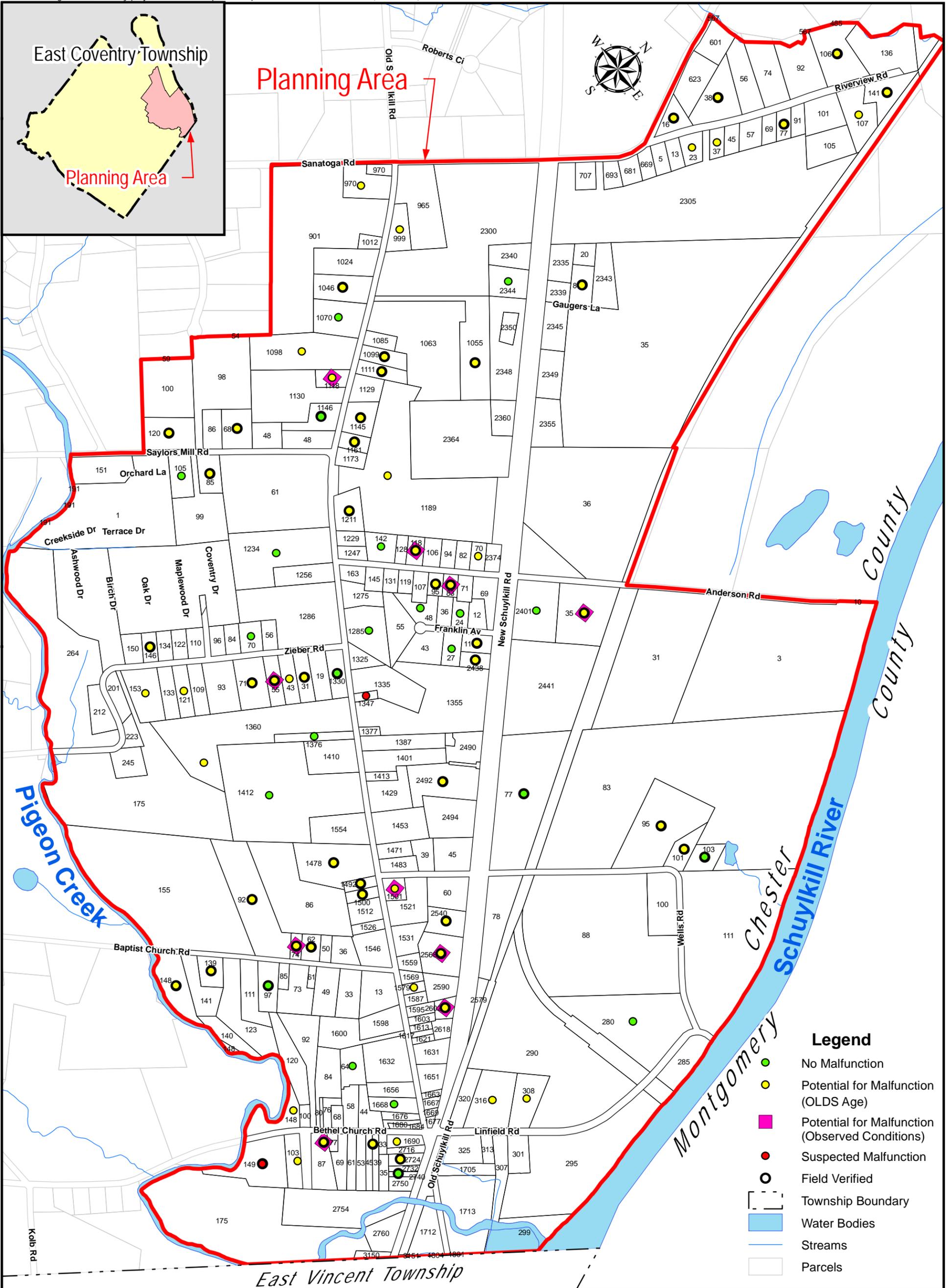
Prepared by:
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610-374-5285



EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
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Pottstown, PA 19465
610-495-5443

APPENDIX C

*Results from OLDS Surveys
and Well Water Sampling*



0 600 1,200
1 inch = 600 feet

Act 537 Plan Parkerford Area

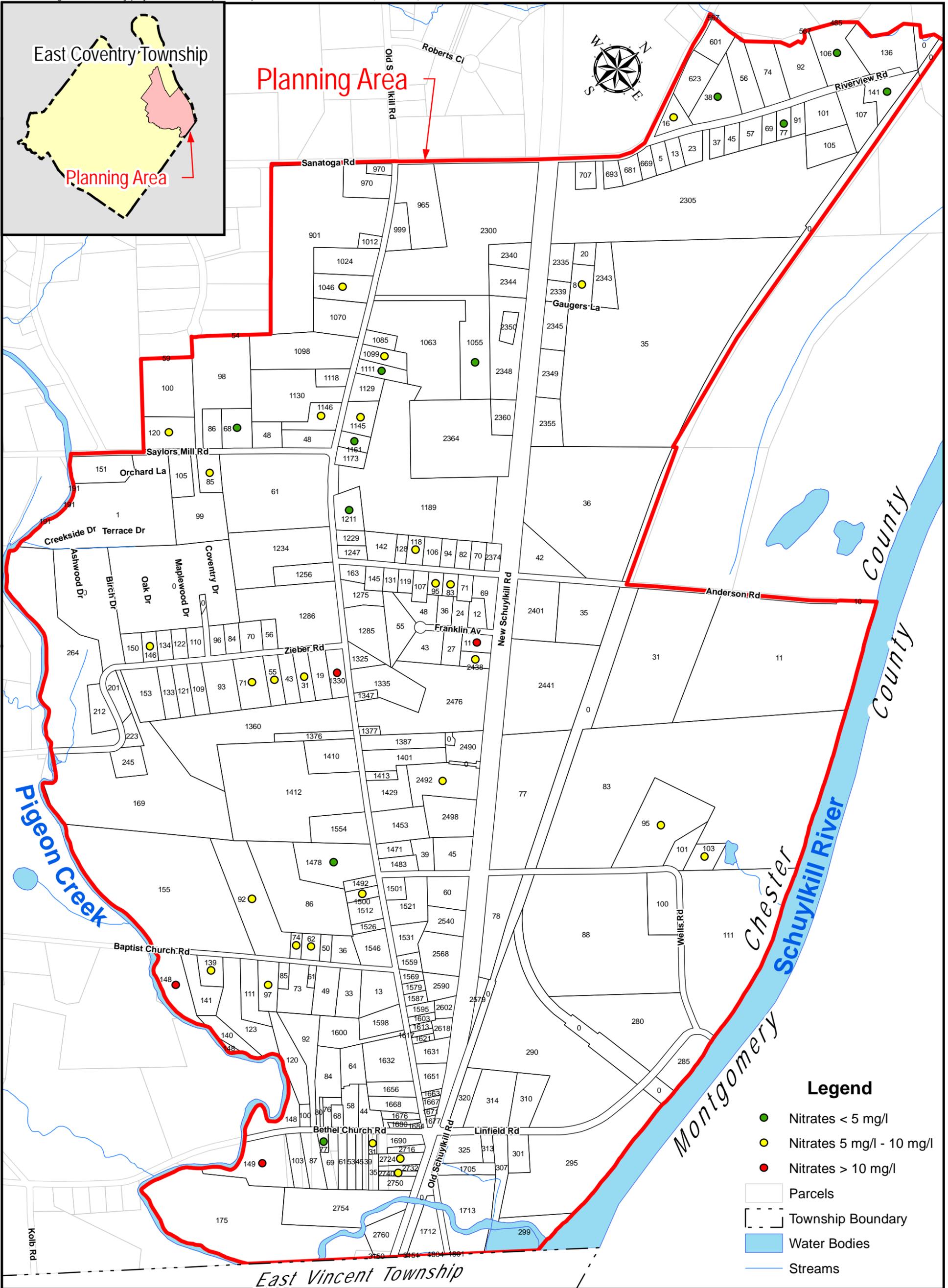
OLDS SURVEYS AND FIELD VERIFICATIONS

June 2021

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Act 537 Plan Parkerford Area

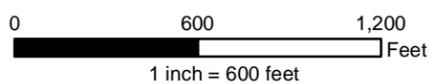
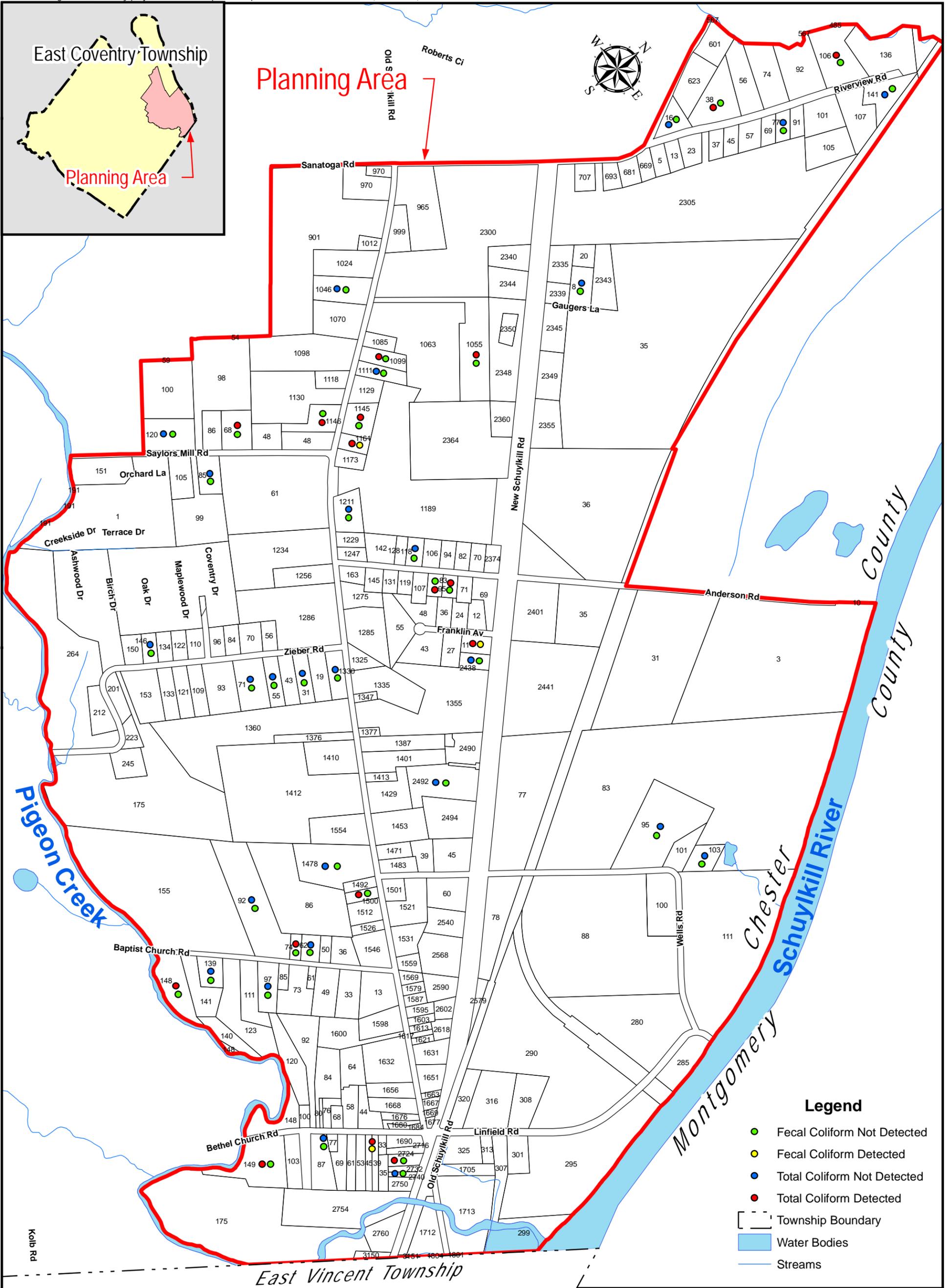
WELL WATER SAMPLE RESULTS (NITRATES)

June 2021

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EAST COVENTRY TOWNSHIP
 Chester County, Pennsylvania
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Act 537 Plan
 Parkerford Area
**WELL WATER SAMPLE RESULTS
 (COLIFORM)**

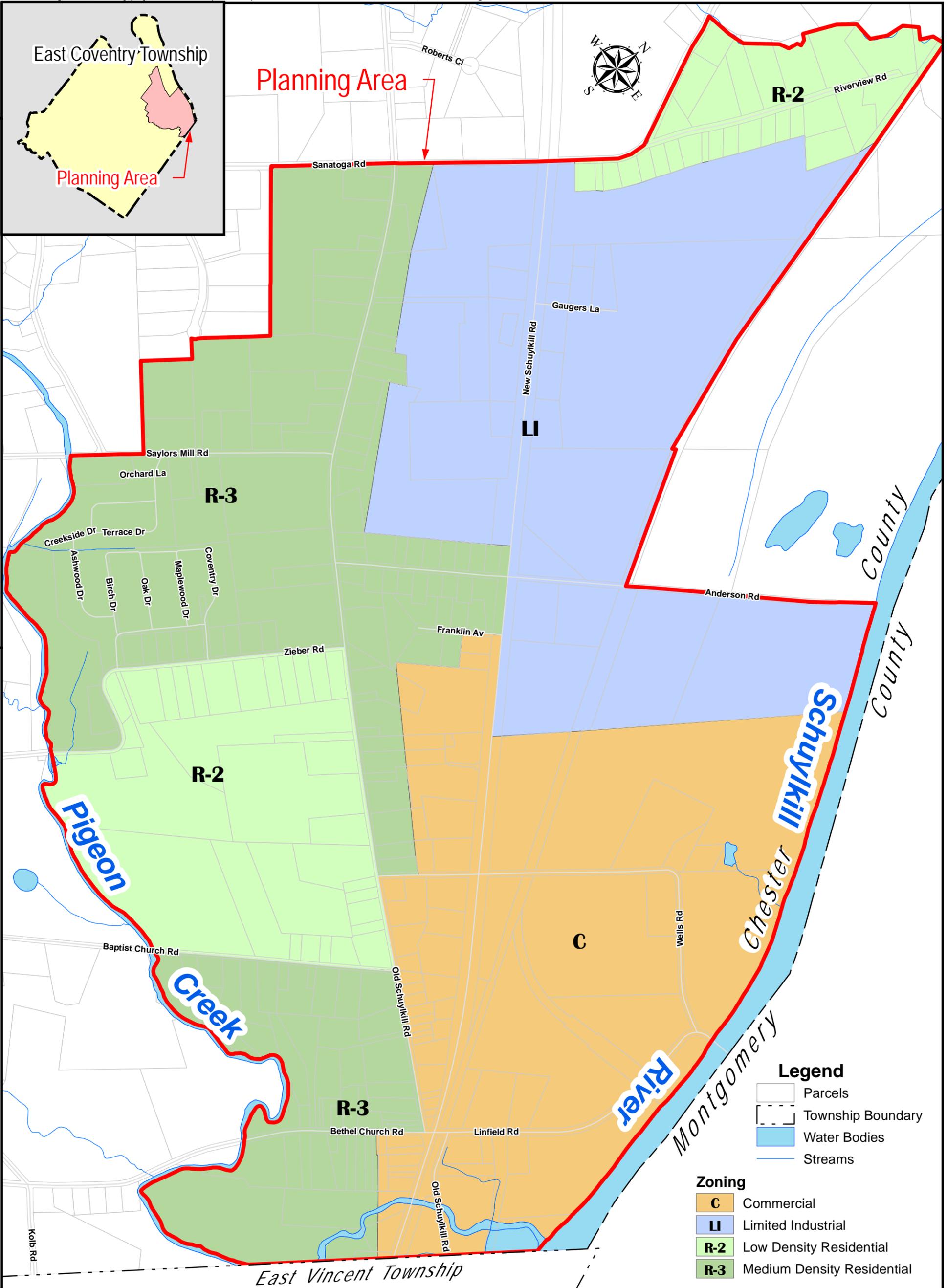
June 2021



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 Chester County, Pennsylvania
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 610-495-5443

APPENDIX D

Zoning



Act 537 Plan
Parkerford Area
ZONING

June 2021

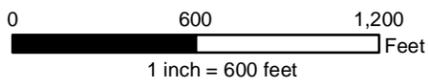
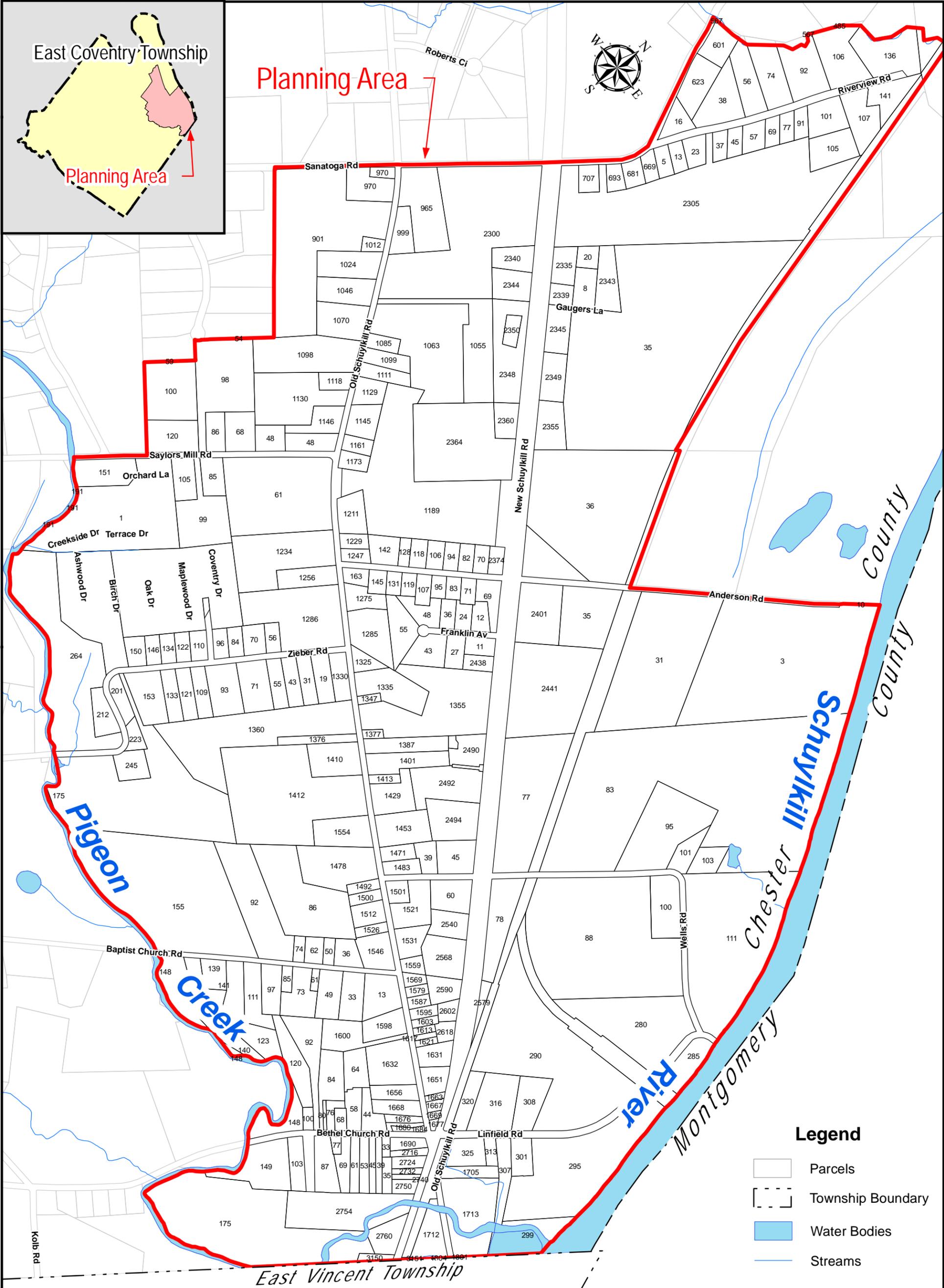
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APPENDIX E

Existing Development



Act 537 Plan
Parkerford Area
PLANNING AREA

June 2021

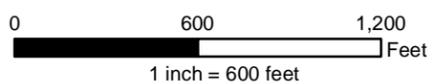
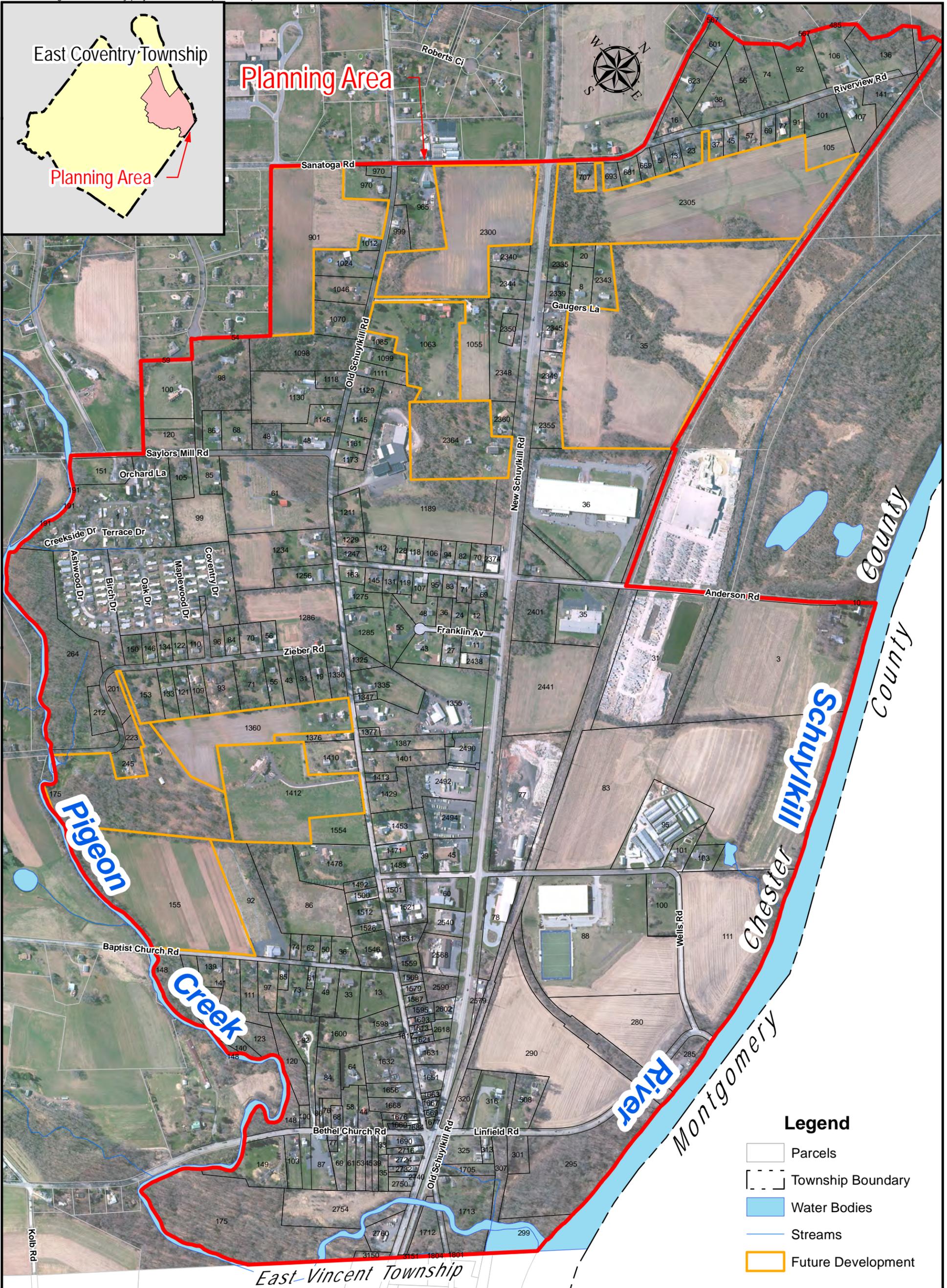
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APPENDIX F

Future Growth and Wastewater Needs



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Act 537 Plan
 Parkerford Area
FUTURE DEVELOPMENT

June 2021



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Legend

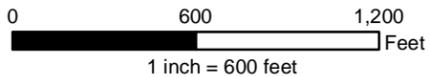
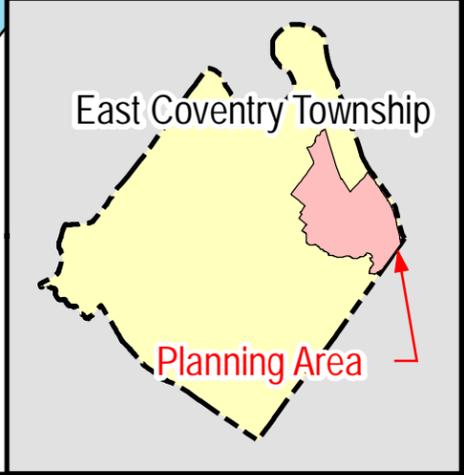
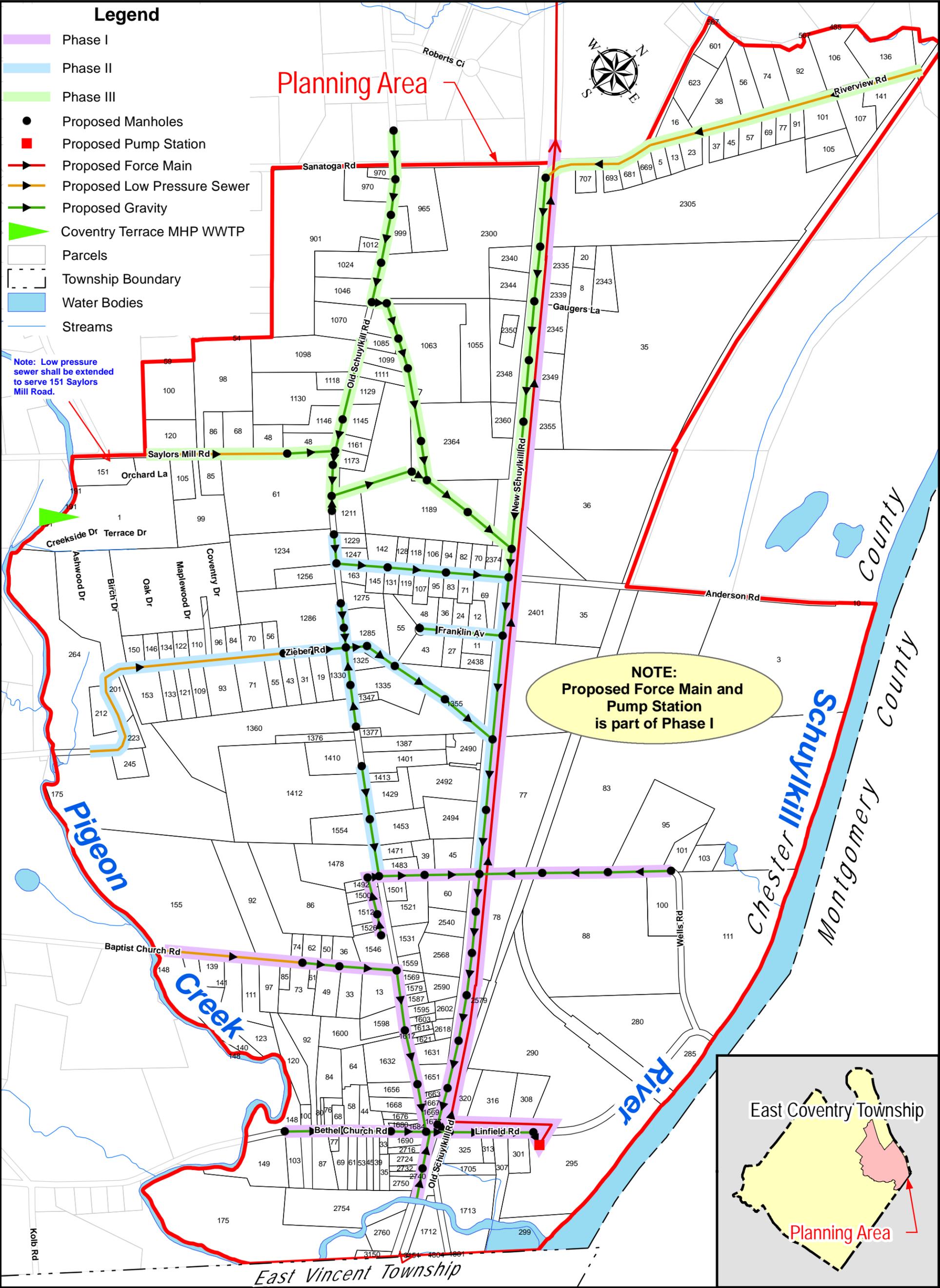
- Phase I
- Phase II
- Phase III
- Proposed Manholes
- Proposed Pump Station
- Proposed Force Main
- Proposed Low Pressure Sewer
- Proposed Gravity
- Coventry Terrace MHP WWTP
- Parcels
- Township Boundary
- Water Bodies
- Streams

Planning Area



Note: Low pressure sewer shall be extended to serve 151 Saylor's Mill Road.

NOTE:
Proposed Force Main and Pump Station is part of Phase I



Act 537 Plan
Parkerford Area

CONCEPTUAL SANITARY SEWER LAYOUT
PHASING PLAN: PHASES I, II, & III

June 2021

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EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
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**East Coventry Township
Wastewater Needs Projections
Last Updated December 2025**

Development Type	Parcel Designation (6)	Phase for Connection	Address Number	Parcel Address	Total Acreage	Estimate Percent Buildable	Adjusted Acreage (1)	Current (2) Zoning Designation	Current Zoning Description	EDUs	GPD/EDU (7)	GPD/Acre (3)	Projected Wastewater Need (GPD) (4)	Population (5)	Comments
Future	1802 0026000	See Note (8) below.	2305	2305 NEW SCHUYLKILL RD	23.20	70%	16.2	LI	Limited Industrial			1000	16,240		
	1805 0001020	See Note (8) below.	35	35 GAUGERS LA	33.10	75%	24.8	LI	Limited Industrial			1000	24,825		
	1805 0101000	See Note (8) below.	155	155 KOLB RD	41.80	50%	20.9	R2	Low Density Residential	27.87	262.5		7,315	73.01	
	1805 0103000	See Note (8) below.	175	175 ZIEBER RD	13.10	50%	6.6	R2	Low Density Residential	8.73	262.5		2,293	22.88	
	1805 0117000	See Note (8) below.	1412	1412 OLD SCHUYLKILL RD	10.50	85%	8.9	R2	Low Density Residential	11.90	262.5		3,124	31.18	
	1805 0043000	See Note (8) below.	2364	2364 NEW SCHUYLKILL RD	7.50	80%	6.0	LI	Limited Industrial			1000	6,000		
	1804 0067000	See Note (8) below.	1063	1063 OLD SCHUYLKILL RD	6.60	75%	5.0	LI	Limited Industrial			1000	4,950		
	1804 0136000	See Note (8) below.	901	901 SANATOGA RD	12.60	85%	10.7	R3	Medium Density Residential	21.42	262.5		5,623	56.12	
	1804 0065000	See Note (8) below.	2300	2300 NEW SCHUYLKILL RD	14.10	80%	11.3	LI	Limited Industrial			1000	11,280		
Existing	1805 0016020	See Note (8) below.	35	ANDERSON RD	3.00			LI	Limited Industrial	1.00	262.5		263	2.62	
	1805 0007000	See Note (8) below.	36	ANDERSON RD	16.00			LI	Limited Industrial	1.00	262.5		263		Taylor Industries
	1805 0008000	See Note (8) below.	42	ANDERSON RD	2.60			LI	Limited Industrial	5.00	262.5		1,313		Bushwick Metals
	1805 0059000	See Note (8) below.	69	ANDERSON RD	0.97			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0057000	See Note (8) below.	70	ANDERSON RD	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0060000	See Note (8) below.	71	ANDERSON RD	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0056000	See Note (8) below.	82	ANDERSON RD	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0061000	See Note (8) below.	83	ANDERSON RD	0.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0055000	See Note (8) below.	94	ANDERSON RD	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0062000	See Note (8) below.	95	ANDERSON RD	0.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0054000	See Note (8) below.	106	ANDERSON RD	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0063000	See Note (8) below.	107	ANDERSON RD	0.49			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0053000	See Note (8) below.	118	ANDERSON RD	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0064000	See Note (8) below.	119	ANDERSON RD	0.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0052000	See Note (8) below.	126	ANDERSON RD	0.34			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0065000	See Note (8) below.	131	ANDERSON RD	0.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0051000	See Note (8) below.	142	ANDERSON RD	0.95			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0066000	See Note (8) below.	145	ANDERSON RD	0.50			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0067000	See Note (8) below.	163	ANDERSON RD	0.44			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129050	See Note (8) below.	13	BAPTIST CHURCH RD	1.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129040	See Note (8) below.	33	BAPTIST CHURCH RD	1.10			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0124000	See Note (8) below.	36	BAPTIST CHURCH RD	0.74			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129030	See Note (8) below.	49	BAPTIST CHURCH RD	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0125000	See Note (8) below.	50	BAPTIST CHURCH RD	0.32			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0130000	See Note (8) below.	61	BAPTIST CHURCH RD	0.17			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0126000	See Note (8) below.	62	BAPTIST CHURCH RD	0.51			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0129020	See Note (8) below.	73	BAPTIST CHURCH RD	1.40			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0127000	See Note (8) below.	74	BAPTIST CHURCH RD	0.31			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0131000	See Note (8) below.	85	BAPTIST CHURCH RD	0.28			R2	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0128000	See Note (8) below.	92	BAPTIST CHURCH RD	4.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0132000	See Note (8) below.	97	BAPTIST CHURCH RD	1.00			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0134000	See Note (8) below.	111	BAPTIST CHURCH RD	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0134030	See Note (8) below.	123	BAPTIST CHURCH RD	2.10			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0134010	See Note (8) below.	139	BAPTIST CHURCH RD	0.76			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0031000	See Note (8) below.	31	BETHEL CHURCH RD	0.16			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0030010	See Note (8) below.	35	BETHEL CHURCH RD	0.36			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0030000	See Note (8) below.	39	BETHEL CHURCH RD	0.38			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0020000	See Note (8) below.	44	BETHEL CHURCH RD	0.71			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0029000	See Note (8) below.	45	BETHEL CHURCH RD	0.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0028000	See Note (8) below.	53	BETHEL CHURCH RD	0.52			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0022000	See Note (8) below.	58	BETHEL CHURCH RD	0.68			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0027000	See Note (8) below.	61	BETHEL CHURCH RD	0.53			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129080	See Note (8) below.	64	BETHEL CHURCH RD	1.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0023000	See Note (8) below.	68	BETHEL CHURCH RD	0.29			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0026000	See Note (8) below.	69	BETHEL CHURCH RD	0.72			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0024000	See Note (8) below.	76	BETHEL CHURCH RD	0.22			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0025000	See Note (8) below.	77	BETHEL CHURCH RD	0.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0024010	See Note (8) below.	80	BETHEL CHURCH RD	0.26			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129090	See Note (8) below.	84	BETHEL CHURCH RD	1.50			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0145000	See Note (8) below.	91	BETHEL CHURCH RD	1.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129100	See Note (8) below.	92	BETHEL CHURCH RD	2.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0133000	See Note (8) below.	100	BETHEL CHURCH RD	0.28			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0144000	See Note (8) below.	103	BETHEL CHURCH RD	0.89			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0143000	See Note (8) below.	149	BETHEL CHURCH RD	3.80			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0069010	See Note (8) below.	11	FRANKLIN AV	0.47			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0068010	See Note (8) below.	12	FRANKLIN AV	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0068020	See Note (8) below.	24	FRANKLIN AV	0.50			R3	Medium Density Residential	1.00	262.5		263	2.62	
1805 0068050	See Note (8) below.	27	FRANKLIN AV	0.57			R3	Medium Density Residential	1.00	262.5		263	2.62		
1805 006802A	See Note (8) below.	36	FRANKLIN AV	0.46			R3	Medium Density Residential	1.00	262.5		263	2.62		
1805 0068090	See Note (8) below.	43	FRANKLIN AV	1.10			C	Commercial	1.00	262.5		263			
1805 0068070	See Note (8) below.	48	FRANKLIN AV	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62		
1805 0068080	See Note (8) below.	55	FRANKLIN AV	1.10			R3	Medium Density Residential	1.00	262.5		263	2.62		
1805 0001010	See Note (8) below.	8	GAUGERS LA	1.00			LI	Limited Industrial	1.00	262.5		263			
1805 000101A	See Note (8) below.	20	GAUGERS LA	0.48			LI	Limited Industrial	1.00	262.5		263			
1805 0028000	See Note (8) below.	285	LINFIELD RD	1.19			C	Commercial	1.00	262.5		263			
1805 0025000	See Note (8) below.	310	LINFIELD RD	1.30			C	Commercial	1.00	262.5		263			

**East Coventry Township
Wastewater Needs Projections
Last Updated December 2025**

Development Type	Parcel Designation (6)	Phase for Connection	Address Number	Parcel Address	Total Acreage	Estimate Percent Buildable	Adjusted Acreage (1)	Current (2) Zoning Designation	Current Zoning Description	EDUs	GPD/EDU (7)	GPD/Acre (3)	Projected Wastewater Need (GPD) (4)	Population (5)	Comments
	1805 0033000	See Note (8) below.	313	LINFIELD RD	0.48			C	Commercial	1.00	262.5		263		
	1805 0023000	See Note (8) below.	318	LINFIELD RD	3.20			C	Commercial	1.00	262.5		263		
	1805 0002000	See Note (8) below.	2335	NEW SCHUYLKILL RD	0.97			LI	Limited Industrial	1.00	262.5		263		
	1805 0003000	See Note (8) below.	2339	NEW SCHUYLKILL RD	0.56			LI	Limited Industrial	1.00	262.5		263		
	1805 0039000	See Note (8) below.	2340	NEW SCHUYLKILL RD	1.00			LI	Limited Industrial	1.00	262.5		263		
	1805 0001000	See Note (8) below.	2343	NEW SCHUYLKILL RD	1.40			LI	Limited Industrial	1.00	262.5		263		
	1805 0040000	See Note (8) below.	2344	NEW SCHUYLKILL RD	1.00			LI	Limited Industrial	1.00	262.5		263		
	1805 0004000	See Note (8) below.	2345	NEW SCHUYLKILL RD	1.20			LI	Limited Industrial	1.00	262.5		263		
	1805 0041000	See Note (8) below.	2348	NEW SCHUYLKILL RD	2.60			C	Commercial	1.00	262.5		263		
	1805 0005000	See Note (8) below.	2349	NEW SCHUYLKILL RD	1.00			C	Commercial	1.00	262.5		263		Sport Utility/Motor Bike Dealer
	1805 0041010	See Note (8) below.	2350	NEW SCHUYLKILL RD	0.45			C	Commercial	1.00	262.5		263		
	1805 0006000	See Note (8) below.	2355	NEW SCHUYLKILL RD	1.70			C	Commercial	1.00	262.5		263		
	1805 0042000	See Note (8) below.	2360	NEW SCHUYLKILL RD	0.95			C	Commercial	1.00	262.5		263		
	1805 0058000	See Note (8) below.	2374	NEW SCHUYLKILL RD	0.76			C	Commercial	1.00	262.5		263		
	1805 0070000	See Note (8) below.	2438	NEW SCHUYLKILL RD	0.46			C	Commercial	1.00	262.5		263		
	1805 0073000	See Note (8) below.	2476	NEW SCHUYLKILL RD	7.80			C	Commercial	1.00	262.5		263		
	1805 008401A	See Note (8) below.	2490	NEW SCHUYLKILL RD	1.36			C	Commercial	1.00	262.5		263		
	1805 0084010	See Note (8) below.	2492	NEW SCHUYLKILL RD	2.79			C	Commercial	1.00	262.5		263		Hansberry Enterprises
	1805 0084020	See Note (8) below.	2498	NEW SCHUYLKILL RD	2.30			C	Commercial	2.00	262.5		525		Verizon
	1805 0085030	See Note (8) below.	2540	NEW SCHUYLKILL RD	1.00			C	Commercial	1.00	262.5		263		West Dairy
	1805 0085010	See Note (8) below.	2568	NEW SCHUYLKILL RD	2.17			C	Commercial	1.33	262.5		350		Berks East Gymnastics Center
	1805 0020000	See Note (8) below.	2579	NEW SCHUYLKILL RD	0.22			C	Commercial	1.00	262.5		263		
	1805F0008000	See Note (8) below.	2602	NEW SCHUYLKILL RD	0.42			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0033000	See Note (8) below.	2716	NEW SCHUYLKILL RD	0.26			LI	Limited Industrial	1.00	262.5		263		
	1805F0034000	See Note (8) below.	2724	NEW SCHUYLKILL RD	0.42			LI	Limited Industrial	1.00	262.5		263		
	1805F0035000	See Note (8) below.	2732	NEW SCHUYLKILL RD	0.21			LI	Limited Industrial	1.00	262.5		263		
	1805F0036000	See Note (8) below.	2740	NEW SCHUYLKILL RD	0.23			LI	Limited Industrial	1.00	262.5		263		
	1805 0146000	See Note (8) below.	2760	NEW SCHUYLKILL RD	1.30			LI	Limited Industrial	1.00	262.5		263		
	1804 0065010	See Note (8) below.	965	OLD SCHUYLKILL RD	3.50			C	Commercial	1.00	262.5		263		
	1804 0137000	See Note (8) below.	970	OLD SCHUYLKILL RD	1.10			C	Commercial	1.00	262.5		263		
	1804 0138000	See Note (8) below.	970	OLD SCHUYLKILL RD	0.39			C	Commercial	1.00	262.5		263		
	1804 0066000	See Note (8) below.	999	OLD SCHUYLKILL RD	0.51			C	Commercial	1.00	262.5		263		
	1804 0139000	See Note (8) below.	1012	OLD SCHUYLKILL RD	0.30			C	Commercial	1.00	262.5		263		
	1804 0140000	See Note (8) below.	1024	OLD SCHUYLKILL RD	1.70			C	Commercial	1.00	262.5		263		
	1804 0140020	See Note (8) below.	1046	OLD SCHUYLKILL RD	1.60			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0067010	See Note (8) below.	1055	OLD SCHUYLKILL RD	3.50			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0140010	See Note (8) below.	1070	OLD SCHUYLKILL RD	1.80			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0068000	See Note (8) below.	1085	OLD SCHUYLKILL RD	0.48			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0141000	See Note (8) below.	1098	OLD SCHUYLKILL RD	3.70			C	Commercial	1.00	262.5		263		
	1804 0069010	See Note (8) below.	1099	OLD SCHUYLKILL RD	0.74			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0069020	See Note (8) below.	1111	OLD SCHUYLKILL RD	0.80			C	Commercial	1.00	262.5		263		
	1804 0142000	See Note (8) below.	1118	OLD SCHUYLKILL RD	0.55			C	Commercial	1.00	262.5		263		
	1804 0070000	See Note (8) below.	1129	OLD SCHUYLKILL RD	0.86			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0143000	See Note (8) below.	1130	OLD SCHUYLKILL RD	3.90			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0045000	See Note (8) below.	1145	OLD SCHUYLKILL RD	1.00			C	Commercial	1.00	262.5		263		
	1805 0046000	See Note (8) below.	1161	OLD SCHUYLKILL RD	0.46			C	Commercial	1.00	262.5		263		
	1805 0047000	See Note (8) below.	1173	OLD SCHUYLKILL RD	0.52			C	Commercial	1.00	262.5		263		
	1805 0044000	See Note (8) below.	1189	OLD SCHUYLKILL RD	14.90			C	Commercial	1.00	262.5		263		
	1805 0049000	See Note (8) below.	1211	OLD SCHUYLKILL RD	1.20			C	Commercial	1.00	262.5		263		
	1805 0050010	See Note (8) below.	1229	OLD SCHUYLKILL RD	0.46			C	Commercial	1.00	262.5		263		
	1805 0093090	See Note (8) below.	1234	OLD SCHUYLKILL RD	4.90			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0050000	See Note (8) below.	1247	OLD SCHUYLKILL RD	0.46			C	Commercial	1.00	262.5		263		
	1805 0093000	See Note (8) below.	1256	OLD SCHUYLKILL RD	1.30			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0068060	See Note (8) below.	1275	OLD SCHUYLKILL RD	1.00			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0068000	See Note (8) below.	1285	OLD SCHUYLKILL RD	2.00			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0089000	See Note (8) below.	1286	OLD SCHUYLKILL RD	5.60			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0114000	See Note (8) below.	1330	OLD SCHUYLKILL RD	0.83			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0072010	See Note (8) below.	1335	OLD SCHUYLKILL RD	2.50			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0072000	See Note (8) below.	1347	OLD SCHUYLKILL RD	0.20			C	Commercial	1.00	262.5		263		
	1805 0071000	See Note (8) below.	1352	OLD SCHUYLKILL RD	0.41			C	Commercial	1.00	262.5		263		
	1805 0115000	See Note (8) below.	1360	OLD SCHUYLKILL RD	7.30			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0116000	See Note (8) below.	1376	OLD SCHUYLKILL RD	0.68			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0074000	See Note (8) below.	1377	OLD SCHUYLKILL RD	0.19			C	Commercial	1.00	262.5		263		
	1805 0075000	See Note (8) below.	1387	OLD SCHUYLKILL RD	1.30			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0077000	See Note (8) below.	1401	OLD SCHUYLKILL RD	1.40			R2	Low Density Residential	1.00	262.5		263		
	1805 0117020	See Note (8) below.	1410	OLD SCHUYLKILL RD	2.00			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0079000	See Note (8) below.	1413	OLD SCHUYLKILL RD	0.28			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0080000	See Note (8) below.	1429	OLD SCHUYLKILL RD	1.60			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0081000	See Note (8) below.	1453	OLD SCHUYLKILL RD	1.60			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0083010	See Note (8) below.	1471	OLD SCHUYLKILL RD	0.52			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0118000	See Note (8) below.	1478	OLD SCHUYLKILL RD	2.60			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0082000	See Note (8) below.	1483	OLD SCHUYLKILL RD	0.70			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0119000	See Note (8) below.	1492	OLD SCHUYLKILL RD	0.32			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0120000	See Note (8) below.	1500	OLD SCHUYLKILL RD	0.34			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0086000	See Note (8) below.	1501	OLD SCHUYLKILL RD	0.59			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0121000	See Note (8) below.	1512	OLD SCHUYLKILL RD	0.69			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 008502A	See Note (8) below.	1521	OLD SCHUYLKILL RD	1.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0122000	See Note (8) below.	1526	OLD SCHUYLKILL RD	0.31			R3	Medium Density Residential	1.00	262.5		263	2.62	

**East Coventry Township
Wastewater Needs Projections
Last Updated December 2025**

Development Type	Parcel Designation (6)	Phase for Connection	Address Number	Parcel Address	Total Acreage	Estimate Percent Buildable	Adjusted Acreage (1)	Current (2) Zoning Designation	Current Zoning Description	EDUs	GPD/EDU (7)	GPD/Acre (3)	Projected Wastewater Need (GPD) (4)	Population (5)	Comments
	1805 0085020	See Note (8) below.	1531	OLD SCHUYLKILL RD	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0123000	See Note (8) below.	1546	OLD SCHUYLKILL RD	1.30			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0087000	See Note (8) below.	1559	OLD SCHUYLKILL RD	0.43			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0002000	See Note (8) below.	1569	OLD SCHUYLKILL RD	0.27			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0003000	See Note (8) below.	1579	OLD SCHUYLKILL RD	0.26			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0001010	See Note (8) below.	1587	OLD SCHUYLKILL RD	0.26			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0004000	See Note (8) below.	1595	OLD SCHUYLKILL RD	0.33			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129060	See Note (8) below.	1598	OLD SCHUYLKILL RD	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129070	See Note (8) below.	1600	OLD SCHUYLKILL RD	1.30			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0009010	See Note (8) below.	1603	OLD SCHUYLKILL RD	0.31			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0005000	See Note (8) below.	1613	OLD SCHUYLKILL RD	0.17			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0006000	See Note (8) below.	1617	OLD SCHUYLKILL RD	0.12			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0007000	See Note (8) below.	1621	OLD SCHUYLKILL RD	0.15			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0009020	See Note (8) below.	1631	OLD SCHUYLKILL RD	0.91			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0129010	See Note (8) below.	1632	OLD SCHUYLKILL RD	2.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0010000	See Note (8) below.	1651	OLD SCHUYLKILL RD	0.79			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0014000	See Note (8) below.	1656	OLD SCHUYLKILL RD	0.77			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0011010	See Note (8) below.	1663	OLD SCHUYLKILL RD	0.19			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0011000	See Note (8) below.	1667	OLD SCHUYLKILL RD	0.13			LI	Limited Industrial	4.00	262.5		1,050		MacKissic Materials
	1805F0015000	See Note (8) below.	1668	OLD SCHUYLKILL RD	0.77			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0012000	See Note (8) below.	1669	OLD SCHUYLKILL RD	0.09			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0016000	See Note (8) below.	1676	OLD SCHUYLKILL RD	0.25			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0018000	See Note (8) below.	1680	OLD SCHUYLKILL RD	0.13			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0017000	See Note (8) below.	1684	OLD SCHUYLKILL RD	0.22			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805F0032000	See Note (8) below.	1690	OLD SCHUYLKILL RD	0.53			LI	Limited Industrial	1.00	262.5		263		
	1805 0036000	See Note (8) below.	1713	OLD SCHUYLKILL RD	4.30			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0144000	See Note (8) below.	10146	OLD SCHUYLKILL RD	1.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1802 0021000	See Note (8) below.	5	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0020000	See Note (8) below.	13	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0001000	See Note (8) below.	16	RIVERVIEW RD	1.20			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0019000	See Note (8) below.	23	RIVERVIEW RD	0.71			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0018010	See Note (8) below.	37	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0002030	See Note (8) below.	38	RIVERVIEW RD	1.50			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0018020	See Note (8) below.	45	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0018000	See Note (8) below.	57	RIVERVIEW RD	0.77			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0018030	See Note (8) below.	69	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0018040	See Note (8) below.	77	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0018050	See Note (8) below.	91	RIVERVIEW RD	0.48			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0017010	See Note (8) below.	101	RIVERVIEW RD	1.50			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0002070	See Note (8) below.	106	RIVERVIEW RD	2.70			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0017000	See Note (8) below.	107	RIVERVIEW RD	1.70			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0016000	See Note (8) below.	141	RIVERVIEW RD	1.10			R2	Low Density Residential	1.00	262.5		263	2.62	
	1801 0037000	See Note (8) below.	567	SANATOGA RD	5.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1802 0002020	See Note (8) below.	601	SANATOGA RD	1.50			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0002010	See Note (8) below.	623	SANATOGA RD	1.50			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0022000	See Note (8) below.	669	SANATOGA RD	0.46			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0023000	See Note (8) below.	681	SANATOGA RD	0.68			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0024000	See Note (8) below.	693	SANATOGA RD	0.46			R2	Low Density Residential	1.00	262.5		263	2.62	
	1802 0025000	See Note (8) below.	707	SANATOGA RD	0.62			R2	Low Density Residential	1.00	262.5		263	2.62	
	1804 0145000	See Note (8) below.	48	SAYLORS MILL RD	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0145010	See Note (8) below.	48	SAYLORS MILL RD	0.92			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0088000	See Note (8) below.	61	SAYLORS MILL RD	8.40			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0146020	See Note (8) below.	68	SAYLORS MILL RD	1.10			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0094000	See Note (8) below.	85	SAYLORS MILL RD	0.92			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0146010	See Note (8) below.	86	SAYLORS MILL RD	0.76			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0146000	See Note (8) below.	98	SAYLORS MILL RD	4.71			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0147010	See Note (8) below.	100	SAYLORS MILL RD	3.80			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0095000	See Note (8) below.	105	SAYLORS MILL RD	1.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0147000	See Note (8) below.	120	SAYLORS MILL RD	1.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0149010	See Note (8) below.	151	SAYLORS MILL RD	1.80			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0150000	See Note (8) below.	191	SAYLORS MILL RD	2.20			R3	Medium Density Residential	1.00	262.5		263	2.62	
	2101 0029000	See Note (8) below.	3152	SCHUYLKILL RD	17.70			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1804 0149000	See Note (8) below.	1	TERRACE DR	9.70			R3	Medium Density Residential	43.00	262.5		11,288	112.66	Mobile Home Park Units (Coventry Terrace)
	1805 0096000	See Note (8) below.		TERRACE DR	6.50			R3	Medium Density Residential	28.00	262.5		7,350	73.36	Mobile Home Park Units (Coventry Terrace)
	1805 0093070	See Note (8) below.		TERRACE DR	11.10			R3	Medium Density Residential	58.00	262.5		15,225	151.96	Mobile Home Park Units (Coventry Terrace)
	1805 0083000	See Note (8) below.	39	WELLS RD	0.66			C	Commercial	4.67	262.5		1,226		Longstreth Sporting Goods
	1805 0084000	See Note (8) below.	45	WELLS RD	1.80			C	Commercial	2.00	262.5		525		Field Hockey Training Center
	1805 0085000	See Note (8) below.	60	WELLS RD	1.80			C	Commercial	1.00	262.5		263		
	1805 0017000	See Note (8) below.	77	WELLS RD	8.40			C	Commercial	1.00	262.5		263		Quarry Cut (Quarry Stone)
	1805 0019000	See Note (8) below.	78	WELLS RD	2.90			C	Commercial	1.00	262.5		263		Longstreth Distribution Center
	1805 0018000	See Note (8) below.	88	WELLS RD	16.00			C	Commercial	1.00	262.5		263		Greenhouses
	1805 0014010	See Note (8) below.	95	WELLS RD	5.20			C	Commercial	1.00	262.5		263		
	1805 0018010	See Note (8) below.	100	WELLS RD	2.00			R3	Medium Density Residential	1.00	262.5		263	2.62	
	1805 0014000	See Note (8) below.	101	WELLS RD	1.66			C	Commercial	1.00	262.5		263		
	1805 001302A	See Note (8) below.	103	WELLS RD	1.00			C	Commercial	1.00	262.5		263		Essence of Stone
	1805 0114020	See Note (8) below.	19	ZIEBER RD	0.89			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0114010	See Note (8) below.	31	ZIEBER RD	0.74			R2	Low Density Residential	1.00	262.5		263	2.62	
	1805 0113000	See Note (8) below.	43	ZIEBER RD	0.79			R2	Low Density Residential	1.00	262.5		263	2.62	

APPENDIX G

East Vincent Township Capacity Request and Response



East Coventry Township

Info@eastcoventry-pa.gov
www.eastcoventry-pa.gov

855 Ellis Woods Road
Pottstown, PA 19465
Phone: 610-495-5443
Fax: 610-495-9925

July 31, 2018

Mary Flagg, Township Manager
East Vincent Township
262 Ridge Road
Spring City, PA 19475

RE: East Coventry Township; Chester County;
Act 537 Plan/Special Study;
Capacity Inquiry.

Dear Mary:

East Coventry Township (Township) is currently preparing an Act 537 Sewage Facilities Plan (Special Study). This Special Study is being prepared to address the planning requirements necessary to meet the public wastewater needs of the Parker Ford area of the Township. Attached is map outlining this planning area for your reference.

From the planning needs that we have evaluated to date, we estimate a public wastewater need of 182,483 gallons per day (Average Daily Flow). This estimate is based on: 306 existing residential EDUs; 78 existing commercial EDUs; 70 future residential EDUs; and 241 future commercial EDUs.

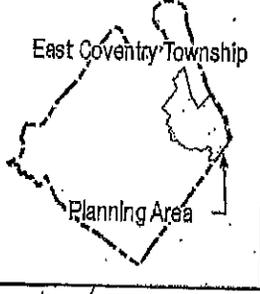
Given the proximity of the planning area to East Vincent Township (East Vincent) we would like to know if East Vincent has the requisite collection, conveyance, and treatment capacity to accommodate the above public wastewater flow or, if not, interest in expanding capacity to accommodate public wastewater flow from East Coventry Township.

The Township would like to thank East Vincent in advance for consideration of this inquiry. Please let us know if your system can accommodate the projected flow. If you have any questions, please contact me at 610-495-5443 or at brodgers@eastcoventry-pa.gov.

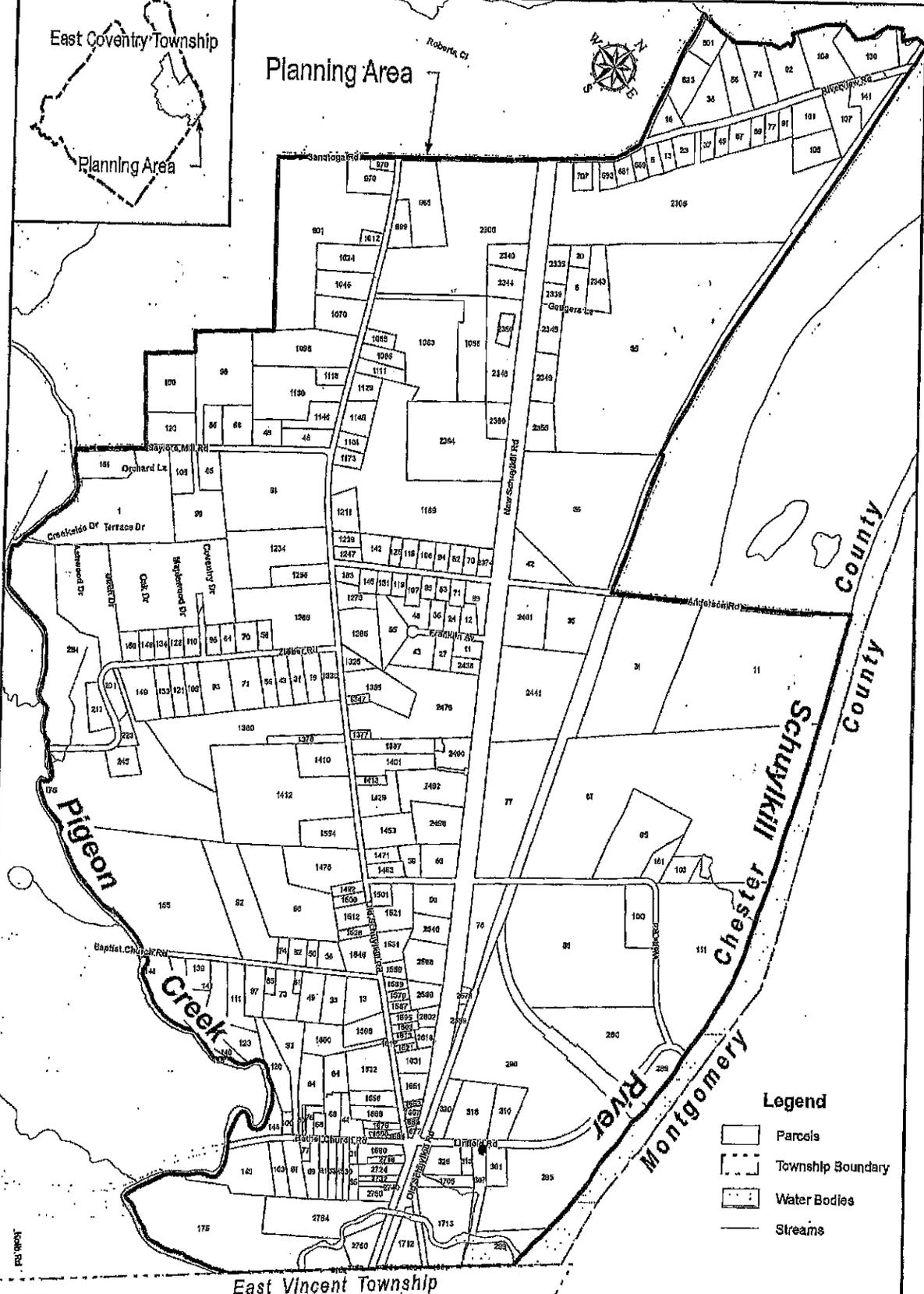
Sincerely,

Bernard A. Rodgers
Township Manager

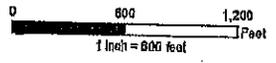
Enclosure



Planning Area



- Legend**
- Parcels
 - Township Boundary
 - Water Bodies
 - Streams



Prepared by:
ARRO
 360 West Main Street, Suite 200
 Trappe, PA 19428
 610-495-0433

Act 537 Plan Parkerford Area PLANNING AREA

June 2018



EAST COVENTRY TOWNSHIP
 Chester County, Pennsylvania
 855 Ellis Woods Road
 Pottstown, PA 19485
 610-495-5443



4259 W. Swamp Road
Suite 410
Doylestown, PA 18902

www.cksenineers.com
215.340.0600

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March 29, 2019
Ref: #7600-110

East Coventry Township
855 Ellis Woods Road
Pottstown, PA 19465

Attention: David G. Kraynik, Township Manager

Reference: East Coventry Township – Sanitary Sewer Capacity Inquiry

Dear Mr. Kraynik:

On behalf of East Vincent Township, I am replying to East Coventry's letter dated July 31, 2018. As indicated in East Coventry's letter, the Township is currently preparing an Act 537 Sewage Facilities Plan (Special Study). This Special Study is being prepared to address the planning requirements necessary to meet the public wastewater needs of the Parker Ford area of the Township. East Coventry estimates a public wastewater need of 182,483 gallons per day (average daily flow). This estimate is based on: 306 existing residential EDUs; 78 existing commercial EDUs; 70 future residential EDUs; and 241 future commercial EDUs. Given the proximity of the planning area to East Vincent Township, East Coventry would like to know if East Vincent has the requisite conveyance and treatment capacity to accommodate the estimated public wastewater flow or, if not, an interest in expanding the capacity to accommodate the projected wastewater flow from East Coventry Township.

As explained in our meeting of February 20, 2018, East Vincent Township has an interest in providing sanitary sewer service to the Parker Ford area of East Coventry Township; however, does not have the treatment capacity to serve the estimated 695 total EDUs.

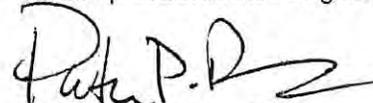
In order to provide the requested wastewater treatment, an upgrade to East Vincent Township's Veterans Center WWTP will be needed. The Veterans Center Plant currently has a permitted annual average capacity of 325,000 gpd and a hydraulic (Chapter 94) capacity of 400,000 gpd. In 2018, the annual average daily flow to the Plant was 283,000 gpd and the maximum consecutive three-month flow averaged 302,000 gpd. In addition, the small amount of excess capacity in the Plant has been allocated to serve existing and planned development within East Vincent Township. As a result, an upgrade of the Plant would be required. Such an upgrade would consist of constructing a pair of Sequential Batch Reactors (SBRs) identical to the existing pair at the Plant, along with blower facilities and aerobic digestion facilities. In addition, the existing distribution box at the head of the Plant will need to be reconstructed along with reconfiguring various piping and valving within the Plant. Lastly, the return sludge pumps for the Plant, as well as the centrifuge, would need to be evaluated to determine if sufficient capacity is available in those components. However, please note the existing influent screen, effluent screen, and UV disinfection at the Plant should be adequate for the additional flow. In addition, the existing interceptor sewer in Pennhurst Road and Commonwealth Drive

has the capacity for conveyance of the additional flow. This interceptor consists of a 32-inch brick pipe and the nearest connection point for East Coventry is in the intersection of Pennhurst Road and Brown Drive. CKS estimates that an upgrade of Plant as described would be in the magnitude of \$3,500,000. Please note this is a ballpark estimate for preliminary discussion between the Townships.

Attached for your convenience are two summaries prepared in evaluating service to East Coventry Township. The first summary outlines an analysis of the Veterans Center WWTP and the preliminary scope of upgrade needed. The second summary outlines the costs associated with sanitary sewer service for East Coventry Township. Please note this cost summary includes estimates of costs associated with the collection and conveyance systems required for service to East Coventry Township. In addition, the current tapping fee for East Vincent Township is also included in the analysis. East Vincent Township's current tapping fee is \$8,304 and includes both the collection and treatment components of the tapping fee. As pointed out in our recent meeting, the costs presented in this summary are worst case scenario. East Vincent Township would be willing to further evaluate these costs in conjunction with East Coventry Township to determine a more accurate and appropriate cost, if so desired. Further, as also discussed in our recent meeting, East Vincent Township currently has development proposal(s) which might be interested in sharing in the cost of an upgrade to the wastewater treatment plant. That is something East Vincent Township is also willing to explore with East Coventry Township.

I trust this letter clearly responds to East Coventry's capacity inquiry. If you have any questions or require any additional information, please do not hesitate to contact Mary Flagg, the Township Manager, or myself.

Very truly yours,
CKS ENGINEERS, INC.
Township Wastewater Engineers



Patrick P. DiGangi, P.E.

PPD/klk
Enclosures

cc: Mary E. Flagg, Township Manager (w/encl.)
Jason J. Herron, Esquire, Wisler Pearlstine, LLP (w/encl.)
Brady L. Flaharty, P.E., Arro Consulting (w/encl.)
File (w/encl.)



4259 W. Swamp Road
Suite 410
Doylestown, PA 18902

www.cksengineers.com
215.340.0600

Ref: #7600-110
February 20, 2019

**EAST VINCENT TOWNSHIP
VETERANS CENTER WWTP
PRELIMINARY UPGRADE ANALYSIS**

WWTP Permitted Capacity: 325,000 gpd - Average Annual; 400,000 gpd - Hydraulic/Ch. 94;
1.6 mgd – Peak Wet Weather. Duplicate capacity evaluation:

- A. INFLUENT SCREEN: 3.0 mgd Max (31" Screen)
- B. SBR'S: 4.8 Hour (288 Min.) Cycle with 72 Minute Decant - 5 Cycles/Day
- * 288 Minute Cycle + 72 Minute Decant = 4 SBR Decants/Cycle (currently 2)
Decant Rate = 1,293 gpm Norm; 2,222 gpm Peak
 - * Blowers: 1 per SBR + 1 per Digester
 - Air-On Cycle = 96 Minutes: May require additional two Blowers for SBR
 - Air for Digesters has some flexibility
- C. EFFLUENT SCREEN: 2,222 gpm peak
Follow Decant Cycle
- D. UV DISINFECTION: 2,222 gpm peak
Follow Decant Cycle
- E. CENTRIFUGE: Feed rate or time of use may be able to increase but must evaluate.
Alternative – Next larger centrifuge

PRELIMINARY SCOPE OF UPGRADE REQUIRED:

- Reconstruct D-Box
- Two SBR's with Blowers
- Two Digesters with Blowers and Waste Sludge and Decant
- Look at Return Sludge Pumps
- Add Waste Sludge Valving
- Add Decant Piping
- Look at Centrifuge

PPD/kk



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Ref: #7600-110
 February 20, 2019

**EAST COVENTRY – SANITARY SEWER FEASIBILITY
 (PRELIMINARY \$)**

A. SERVICE REQUIRED BY EAST COVENTRY

306 EDUs	-	Existing Residential
78 EDUs	-	Existing Commercial
70 EDUs	-	Future Residential
<u>241 EDUs</u>	-	Future Commercial
695 EDUs	Total x 260 GPD/EDU =	180,700 GPD ADF (182,483 BY EC)

B. EAST COVENTRY – CONSTRUCTION COST

\$ 3,500,000	Plant Upgrade (100% of Cost)
\$ 7,000,000	Collection System within EC (46,000 LF)
<u>\$ 2,600,000</u>	Conveyance w/in EVT
\$13,100,000	- Say \$15,000,000 + 695 EDUs = \$21,582/EDU

C. EAST COVENTRY PER EDU COST

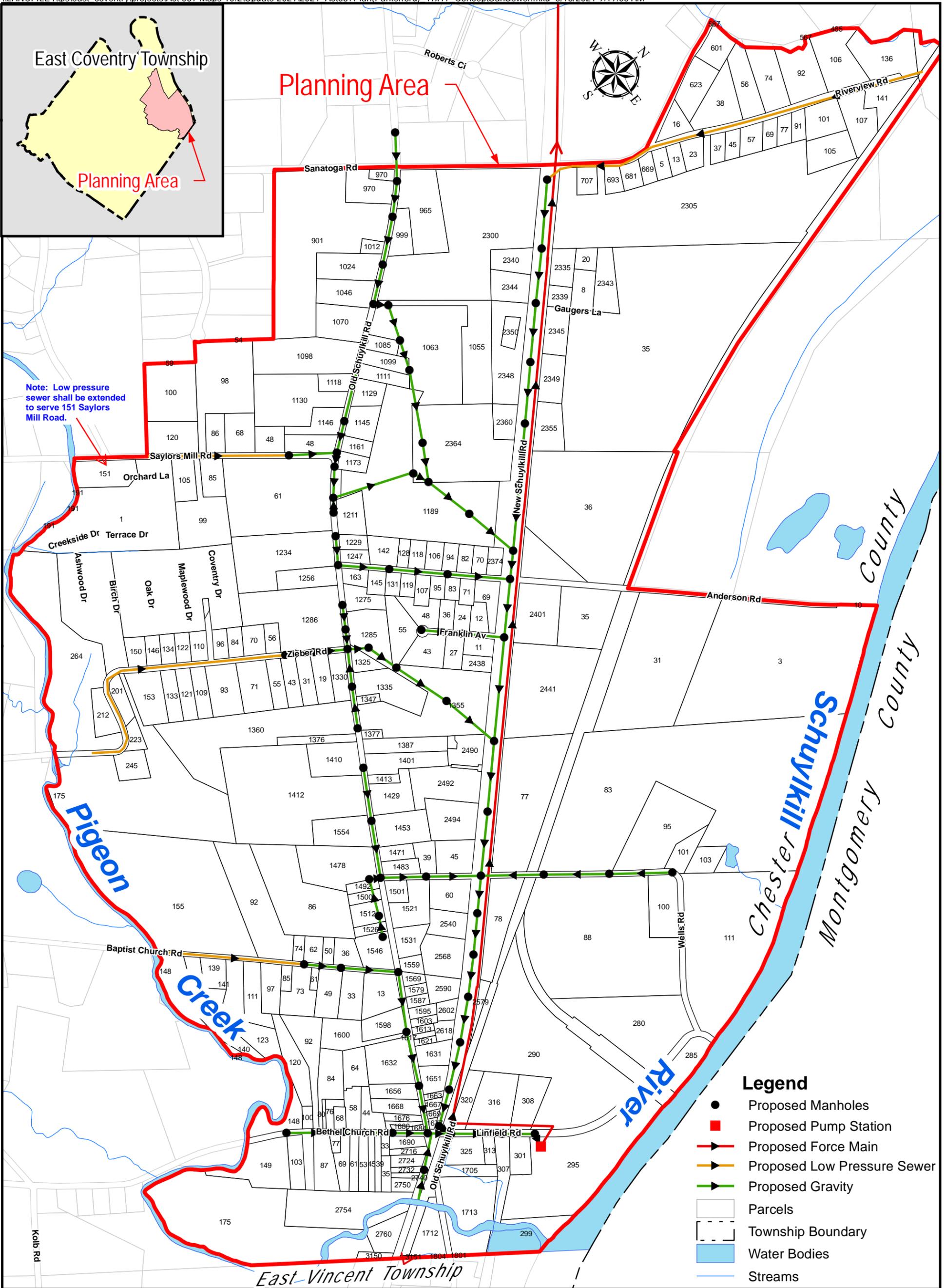
\$21,582	Construction
<u>\$ 8,304</u>	EVT Current Tapping Fee (Possibly Recalculate)
\$29,886	SUBTOTAL
<u>+ 4,000</u>	Individual Lot Connection
\$33,886	TOTAL COST/EDU

Note: Plant upgrade is for another 325,000 gpd. At 260 gpd/EDU, this results in an additional 1,250 EDUs of capacity. At 695 EDUs, East Coventry would occupy 55.6% of that capacity (695/1,250 = 55.6%).

PPD/kkk

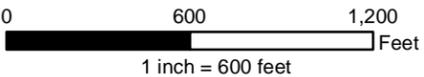
APPENDIX H

Conceptual Layout for Collection/Conveyance System



Note: Low pressure sewer shall be extended to serve 151 Saylor's Mill Road.

- Legend**
- Proposed Manholes
 - Proposed Pump Station
 - ▶ Proposed Force Main
 - ▶ Proposed Low Pressure Sewer
 - ▶ Proposed Gravity
 - ▭ Parcels
 - - - Township Boundary
 - Water Bodies
 - Streams



Act 537 Plan
Parkerford Area

CONCEPTUAL SANITARY SEWER LAYOUT

June 2021

Prepared by:
ARRG
321 North Furnace Street, Suite 200
Birdsboro, PA 19508
610-374-5285



EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
855 Ellis Woods Road
Pottstown, PA 19465
610-495-5443

Legend

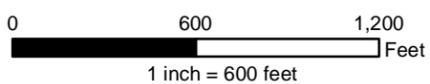
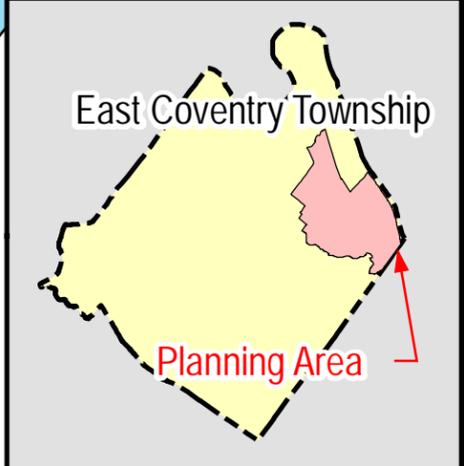
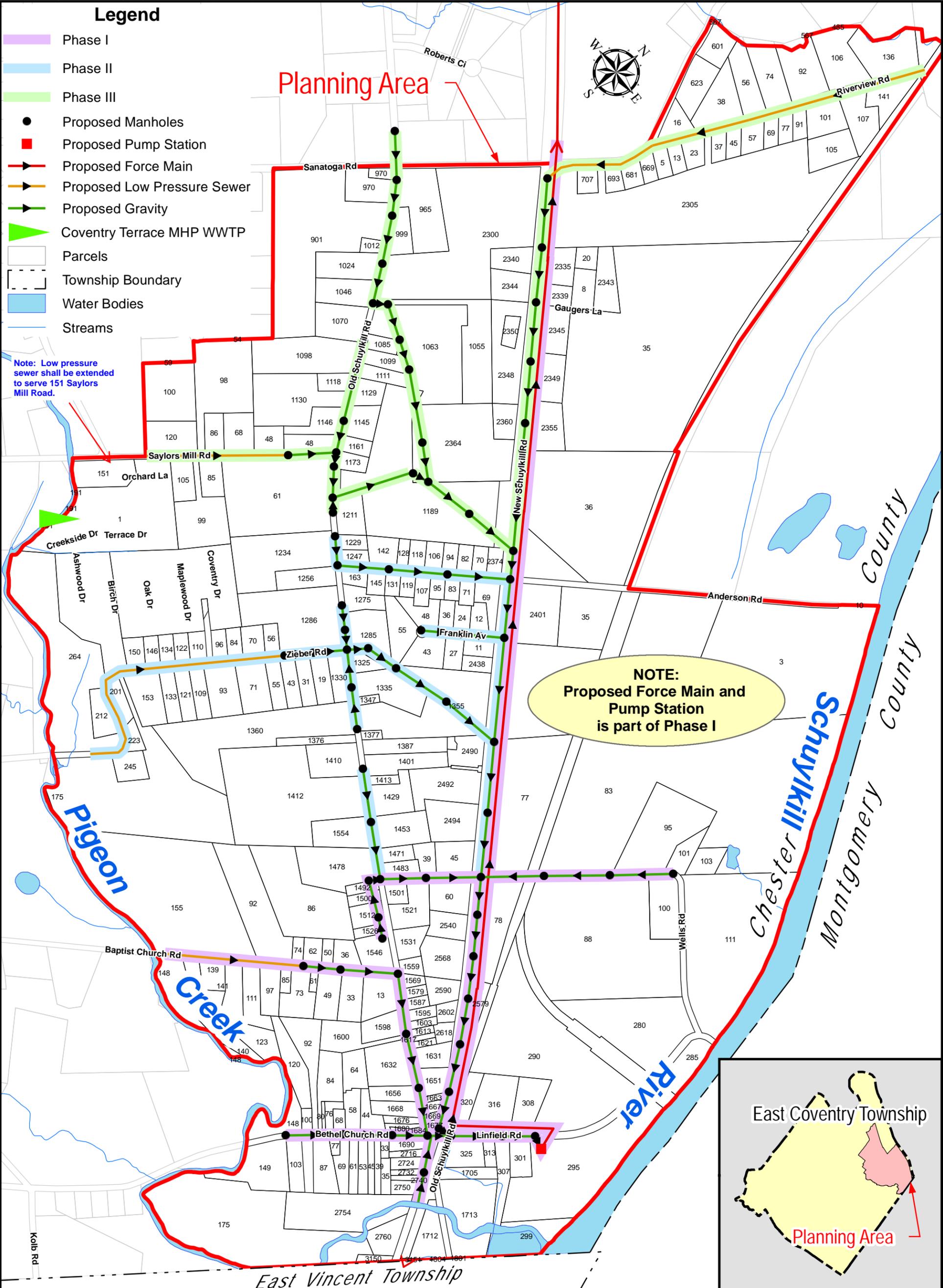
- Phase I
- Phase II
- Phase III
- Proposed Manholes
- Proposed Pump Station
- Proposed Force Main
- Proposed Low Pressure Sewer
- Proposed Gravity
- Coventry Terrace MHP WWTP
- Parcels
- Township Boundary
- Water Bodies
- Streams

Planning Area



Note: Low pressure sewer shall be extended to serve 151 Saylor's Mill Road.

NOTE:
Proposed Force Main and Pump Station is part of Phase I



Act 537 Plan
Parkerford Area

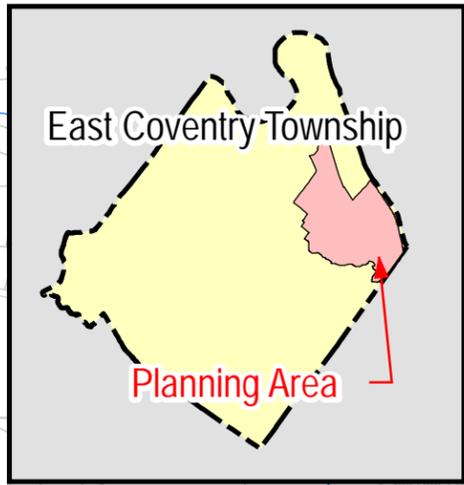
CONCEPTUAL SANITARY SEWER LAYOUT
PHASING PLAN: PHASES I, II, & III

June 2021

Prepared by:
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Birdsboro, PA 19508
610-374-5285

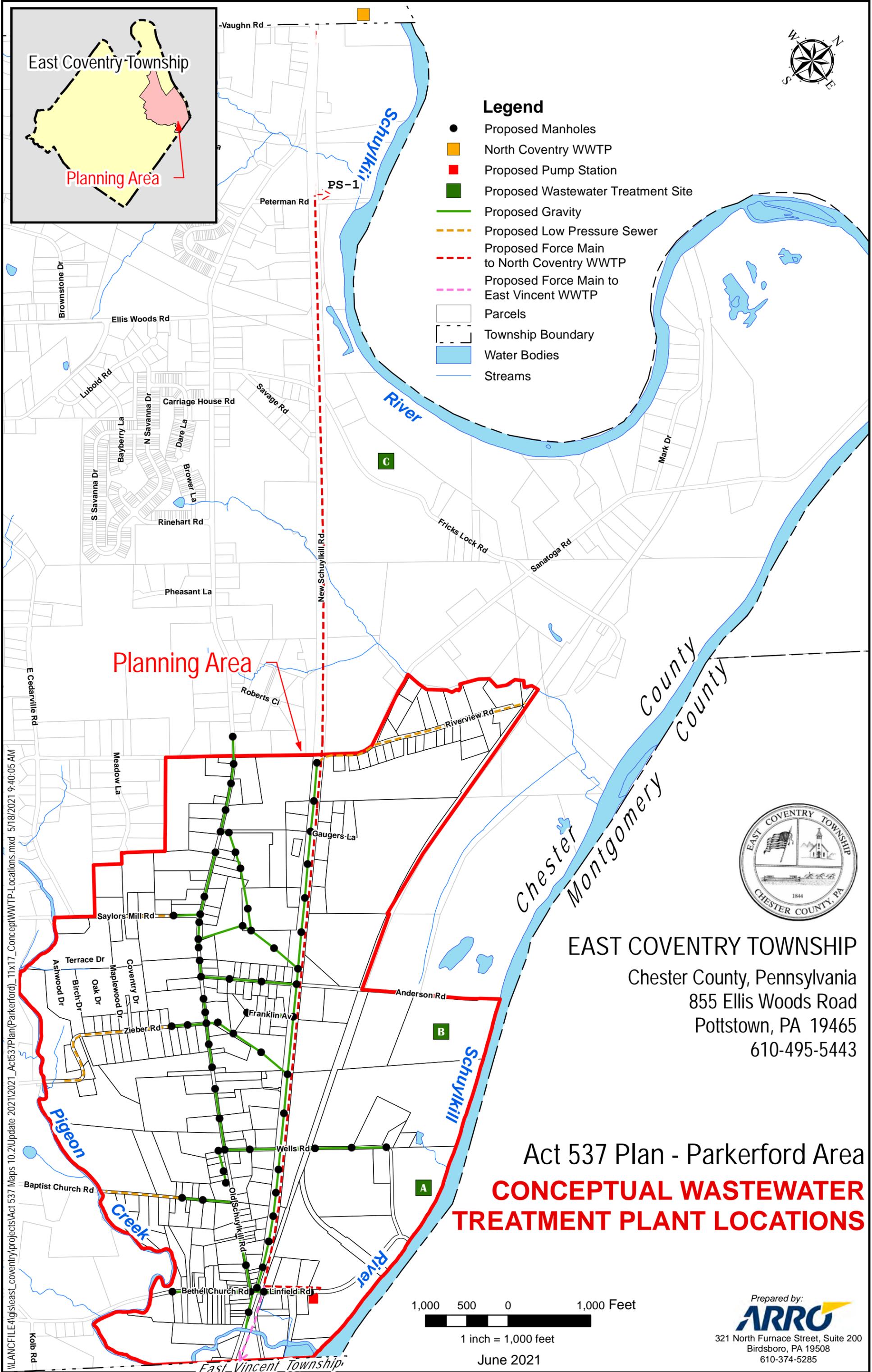


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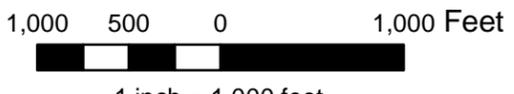
Legend

- Proposed Manholes
- North Coventry WWTP
- Proposed Pump Station
- Proposed Wastewater Treatment Site
- Proposed Gravity
- - - Proposed Low Pressure Sewer
- - - Proposed Force Main to North Coventry WWTP
- - - Proposed Force Main to East Vincent WWTP
- ▭ Parcels
- - - Township Boundary
- Water Bodies
- Streams



EAST COVENTRY TOWNSHIP
 Chester County, Pennsylvania
 855 Ellis Woods Road
 Pottstown, PA 19465
 610-495-5443

**Act 537 Plan - Parkerford Area
 CONCEPTUAL WASTEWATER
 TREATMENT PLANT LOCATIONS**



1 inch = 1,000 feet

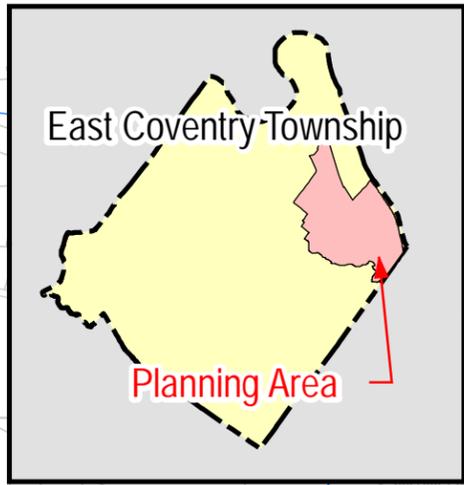
June 2021

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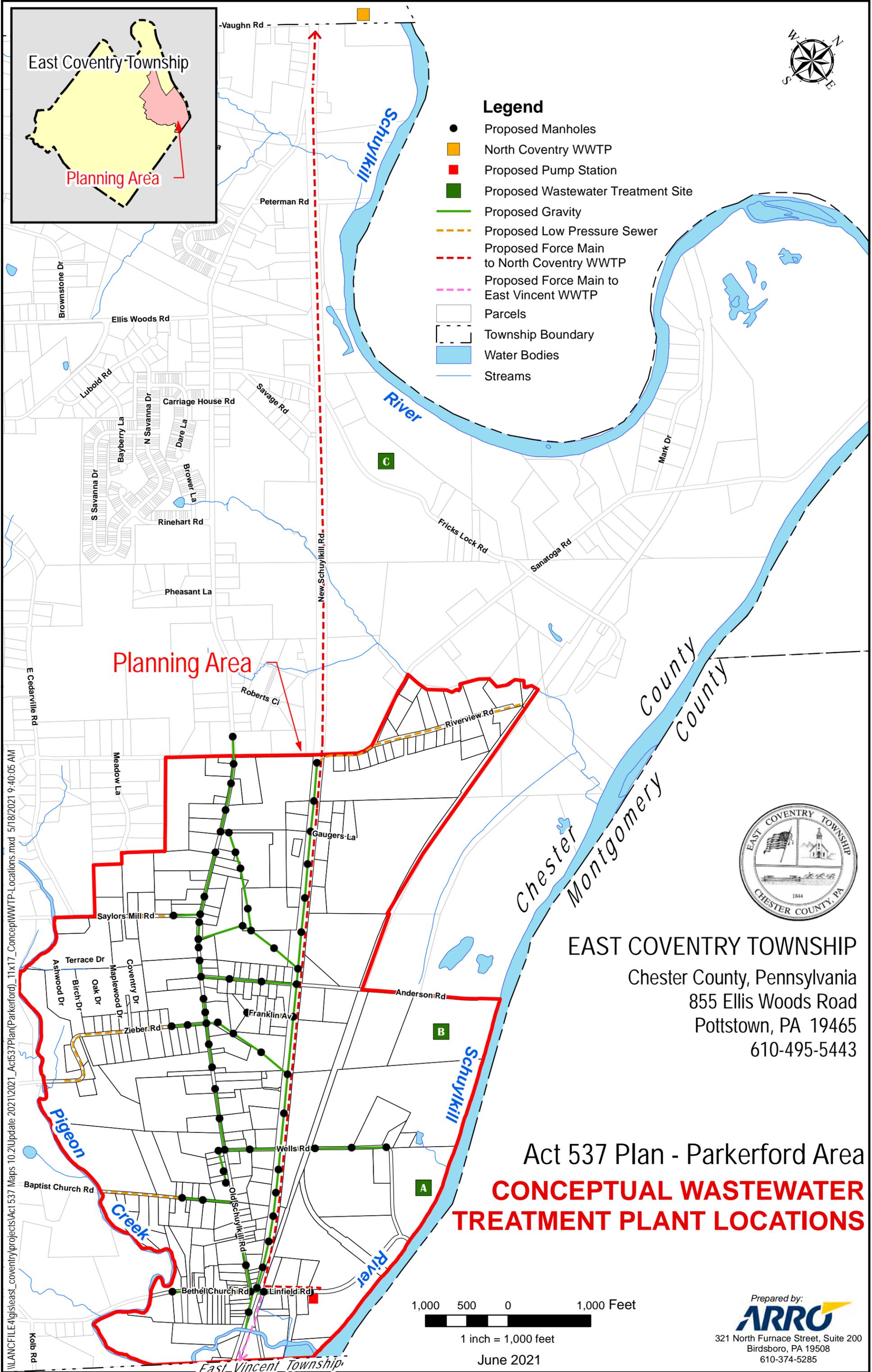
APPENDIX I

Conceptual Locations for Wastewater Treatment Facilities



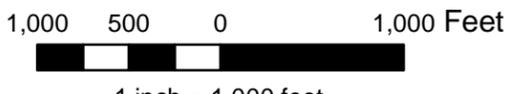
Legend

- Proposed Manholes
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Act 537 Plan - Parkerford Area
CONCEPTUAL WASTEWATER TREATMENT PLANT LOCATIONS



1 inch = 1,000 feet

June 2021

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APPENDIX J

Septage Management Ordinance

Township of East Coventry, PA
Friday, December 2, 2016

Chapter 18. Sewers and Sewage Disposal

Part 2. MANAGEMENT OF INDIVIDUAL AND COMMUNITY ON-LOT SEWAGE SYSTEMS

§ 18-201. Short Title; Introduction; Purpose.

[Ord. 105, 10/16/2000, § 1]

1. This Part shall be known and may be cited as the "Sewage Management Program Ordinance of East Coventry Township."
2. In accordance with the Clean Streams Law and the Pennsylvania Sewage Facilities Act, the Township has the power and duty to provide for adequate sewage treatment facilities and for the protection of the public health by prohibiting the discharge of untreated or inadequately treated sewage. In particular, the rules and regulations promulgated by PaDEP under the Pennsylvania Sewage Facilities Act and the Clean Streams Law require the Township to assure proper operation and maintenance of sewage facilities within its borders by the establishment of a sewage management program and the official sewage facilities plan of the Township states that it is necessary to formulate and implement such sewage management program.
3. The purpose of this Part is to establish and provide for such sewage management program for individual on-lot sewage systems and community on-lot sewage systems within the Township.

§ 18-202. Definitions and Interpretation.

[Ord. 105, 10/16/2000, § 1]

1. General.
 - A. The captions used in this Part are for convenience only and shall not control or affect the meaning or construction of any or the provisions of this Part.
 - B. Unless otherwise expressly stated, or where the context clearly indicates otherwise, the words and phrases defined in this section shall be construed throughout this Part to have the meanings indicated in this section, whether such words and phrases appear in this Part with initial capitalization, full capitalization or otherwise.
 - C. Except as may be otherwise provided in this Part and/or if the context clearly indicates otherwise, all words and phrases appearing in this Part which are not defined in this section and which also appear in the PaDEP rules and regulations at 25 Pa. Code, Chapters 71, 72 and/or 73, shall be construed throughout this Part to have the same meanings as defined or used in the PaDEP rules and regulations at 25 Pa.Code, Chapters 71, 72 and/or 73.

- D. The present tense of any word or phrase used in this Part includes the future, the singular number includes the plural and the plural the singular, and the masculine gender includes the feminine and neuter.
 - E. Whenever appearing in this Part, the word "shall" is always mandatory; the word "may" is always permissible; the words and phrases "person," "landowner," "lot owner" and "owner" include a corporation, unincorporated association, partnership or other legal entity, as well as an individual; the word "building" includes a structure and shall be construed as if followed by the phrase "or part thereof"; and the words and phrases "such as," "including," and the like are intended to introduce matters which are illustrative of the meaning of the sentence, clause or phrase in which such words or phrases appear without limiting or derogating from the general application of the sentence, clause or phrase in which such words or phrases appear.
 - F. Unless specifically provided otherwise herein, any reference in this Part to any other ordinance of the Township, to any federal or state law or statute, to any regulation, study, map, survey, publication or other matter issued or prepared by the Board of Supervisors or any officer or official thereof, and/or by any federal or state public body or any public officer or official thereof, shall include such other ordinance, law, statute, regulation, study, map, survey, publication or other matter, with all amendments and supplements thereto and any new ordinance, law, statute, regulation, study, map, survey, publication or other matter substituted for the same, as in force at the time of application under this Part.
 - G. Unless specifically provided otherwise herein, any reference in this Part to any governmental agency, department, board, commission or other public body, or to any public officer or other public official shall include an entity or official which or who succeeds to substantially the same functions as those performed by such public body or official at the time of application under this Part.
2. Specific Definitions.
- A. The following words and phrases, when used in this Part, shall have the same meanings as defined in the PaDEP rules and regulations at 25 Pa.Code, Chapters 71, 72 and/or 73, unless the context clearly indicates otherwise:
 - (1) Community on-lot sewage system.
 - (2) Holding tank.
 - (3) Individual on-lot sewage system.
 - (4) Individual spray irrigation system.
 - (5) Lot.
 - (6) Retaining tank.
 - (7) Sewage.
 - (8) Sewage facilities.
 - (9) Treatment tank.
 - B. The following words and phrases, when used in this Part, shall have the following meanings, unless the context clearly indicates otherwise:

AUTHORIZED AGENT

The Code Enforcement Officer, the local agency sewage enforcement officer, an employee of the Township, a professional engineer, a plumbing inspector or any other

qualified or licensed person who is authorized to function within specified limits as an agent of the Township to administer or enforce the provisions of this Part.

BOARD OF SUPERVISORS

The Board of Supervisors of the Township.

CODE ENFORCEMENT OFFICER

The Code Enforcement Officer of the Township.

HEALTH DEPARTMENT

The Chester County Health Department.

HOLDING TANK ORDINANCE

Part 1, entitled "Holding Tanks," of Chapter 18 of the Code of Ordinances of the Township of East Coventry.

LOCAL AGENCY LAW

Subchapter B of Chapter 5 and Subchapter B of Chapter 7 of Title 2 of Pennsylvania Consolidated Statutes, 2 Pa. C.S.A. §§ 551 -- 555, 751 -- 754.

MALFUNCTION

A condition which occurs when an on-lot sewage system discharges sewage onto the surface of the ground, into ground waters of the Commonwealth of Pennsylvania, into surface waters of the Commonwealth, backs up into a building connected to the system or in any manner causes a nuisance or hazard to the public health or pollution of ground or surface water or contamination of public or private drinking water wells. A system shall be considered to be malfunctioning if any of the foregoing conditions occurs for any length of time during any period of the year.

OFFICIAL SEWAGE FACILITIES PLAN

The comprehensive plan, including all revisions thereto, for the provision of adequate sewage systems adopted by the Township and submitted to and approved by PaDEP as provided in and by the Pennsylvania Sewage Facilities Act and the regulations of PaDEP promulgated thereunder.

ON-LOT SEWAGE SYSTEM

An individual on-lot sewage system; a community on-lot sewage system.

PADEP

The Department of Environmental Protection of the Commonwealth of Pennsylvania.

PENNSYLVANIA SEWAGE FACILITIES ACT

The Act of January 24, 1966, P.L. (1965) 1535, as amended, 35 P.S. § 750.1 et seq.

SEWAGE ENFORCEMENT OFFICER OR LOCAL AGENCY SEWAGE ENFORCEMENT OFFICER

The Health Department Sewage Enforcement Officer.

THE CLEAN STREAMS LAW

The Act of June 27, 1937, P.L. 1987, No. 394, as amended, 35 P.S. § 691.1 et seq.

TOWNSHIP

East Coventry Township, Chester County, Pennsylvania.

§ 18-203. Requirements.

[Ord. 105, 10/16/2000, § 1]

1. Applicability.
 - A. The requirements of this Part shall be applicable to individual on-lot and community on-lot sewage systems which exist within the municipal limits of the Township on the effective date of this Part or which may be installed within the municipal limits of the Township after the effective date of this Part.
 - B. With respect to holding tanks which exist within the municipal limits of the Township on the effective date of this Part or which may be installed within the municipal limits of the Township after the effective date of this Part, the requirements of this Part and the requirements of the holding tank ordinance shall apply. In the event of an inconsistency between or among the provisions of this Part and the provisions of the holding tank ordinance, the most restrictive provision shall govern.
2. Specific Requirements.
 - A. The proper operation, maintenance and repair of an on-lot sewage system shall be the responsibility of the lot owner on which the system is located; however, the operation, maintenance and repair shall be subject to the continuing surveillance and periodic inspection by the Township, its authorized agent and/or the Sewage Enforcement Officer.
 - (1) The legal authority for such periodic inspection and for the entry upon lands for such inspection is, without limitation, the Pennsylvania Sewage Facilities Act and the PaDEP rules and regulations thereunder.
 - (2) It is the policy of the Township that such periodic inspection shall apply to those on-lot sewage systems that are identified by the Code Enforcement Officer, the Health Department and/or PaDEP as (i) needing periodic inspection to provide long-term property operation; or (ii) not properly functioning because of inadequate operation and maintenance.
 - (3) The schedule of inspections for each on-lot sewage system, identified for such periodic inspection, shall be established by the Code Enforcement Officer.
 - (4) Notification of the owner of the land on which each on-lot sewage system identified for such periodic inspection is located, of the foregoing inspection policy and of the established inspection schedule for the system shall be given, in writing, by the Code Enforcement Officer by any one or more of the following means: (i) handing the notification to the owner wherever he may be found; (ii) mailing the notification to the owner, by certified mail, postage prepaid, return receipt requested, to the address of the land or to the last known address of the owner as appearing on the most current Chester County tax assessment records for the land; or (iii) leaving the notification for the owner at the address of the land.
 - B. It shall be the responsibility of the owner of a lot on which an on-lot sewage system is located to have the system pumped in accordance with the schedule set forth in § 18-204 of this Part and to otherwise maintain, repair and replace the system as necessary to prevent the malfunctioning of the system. Such pumping and other necessary maintenance, repair and replacement shall be in accordance with the standards provided by the PaDEP rules and regulations at 25 Pa.Code § 71.73(b)(2).

- C. The construction, repair and/or replacement of on-lot sewage systems shall be subject to the issuance of appropriate permits by the Health Department.

§ 18-204. On-Lot Sewage System Maintenance and Operation.

[Ord. 105, 10/16/2000, § 1]

1. Treatment Tank Systems.
 - A. The owner of a lot on which is located a treatment tank system existing on the effective date of this Part, or installed after the effective date of this Part, shall have each tank pumped and the contents thereof disposed of at a licensed sewage disposal facility by a septic tank contractor licensed by PaDEP and/or the Health Department at least once every three years or whenever an inspection of the tank reveals that the tank is filled with solids or scum in excess of $\frac{1}{3}$ of the liquid depth of the tank. The owner shall submit proof of the pumping and disposal to the Code Enforcement Officer in the form of a receipted bill issued by the contractor or such other proof as shall be acceptable to the Code Enforcement Officer. The initial and subsequent three year pump and disposal periods, as well as the dates by which proof of the pumping and disposal is to be submitted to the Code Enforcement office, shall be as established under Subsection 1B below.
 - B. The Board of Supervisors shall, by resolution: (i) divide the geographic area of the Township into as many districts as the Board deems appropriate; (ii) designate each such district on a map of the Township; (iii) assign dates to each district on which the initial and subsequent three year pumping and disposal periods shall commence for treatment tank systems existing in the district on the effective date of this Part and for treatment tank systems installed in the district after the effective date of this Part; and (iv) assign dates to each district by which the proof of the initial and subsequent pumping and disposal of a treatment tank system shall be submitted to the Code Enforcement Officer for treatment tank systems existing in the district on the effective date of this Part and for treatment tank systems installed in the district after the effective date of this Part.
2. Retaining Tank Systems.
 - A. The owner of a lot on which is located a retaining tank or a sewage treatment system designed or operated as a retaining tank shall enter into a written contract with a septic tank contractor licensed by PaDEP and/or the Health Department requiring periodic pumping and disposal of the tanks contents in accordance with the schedule required by the permit which authorized the installation and use of the retaining tank. The contract shall be valid and in effect, and shall be maintained valid and in effect by the owner of the lot at all times during which the retaining tank is utilized.
 - B. For a retaining tank existing on the effective date of this Part, a copy of the contract shall be filed by the lot owner with the Code Enforcement Officer by within 90 days after the effective date of this Part. For a tank installed after the effective date of this Part, a copy of the contract shall be filed by the lot owner with the Code Enforcement Officer within 90 days after the installation of the system. A copy of any revisions or amendments to the contract and a copy of any new contracts shall be filed with the Code Enforcement officer within 30 days after the effective date of any such revision, amendment or new contract.
3. Stream Discharge Systems.
 - A.

The owner of a lot on which a stream discharge sewage system exists on the effective date of this Part shall register the system with the Township within 90 days following the effective date of this Part by filing a copy of the current PaDEP permit, together with any other information required by the Code Enforcement officer to verify the current validity of the permit and with copies of any tests performed during the 12 months immediately preceding the registration which verify the operational integrity of the system.

- B. The owner of a lot on which a stream discharge sewage system is installed after the effective date of this Part shall register the system with the Township within 90 days after such installation by filing a copy of the current PaDEP permit, together with any other information required by the Code Enforcement Officer to verify the current validity of the permit and with copies of any tests performed at any time prior to the registration which verify the operational integrity of the system.
 - C. Each stream discharge system shall be operated and maintained at all times through a maintenance agreement between the owner of the lot on which the system is located and an individual, firm or corporation experienced in the operation and maintenance of stream discharge systems. A copy of the maintenance agreement shall be filed with the Code Enforcement Officer at the time the system is registered with the Township. A copy of any revisions or amendments to the maintenance agreement and a copy of any new maintenance agreement shall be filed with the Code Enforcement Officer within 30 days after the effective date of any such revision, amendment or new agreement.
 - D. The Code Enforcement officer or other authorized agent shall arrange for periodic inspections of such approved and permitted stream discharge systems by PaDEP as required.
4. Individual Residential Spray Irrigation Systems.
- A. Each individual residential spray irrigation system shall be operated and maintained at all times in accordance with rules and regulations of PaDEP at 25 Pa. Code § 73.167, and through a maintenance agreement between the owner of the lot on which the system is located and an individual, firm or corporation experienced in the operation and maintenance of individual residential spray irrigation systems.
 - B. A copy of the maintenance agreement, for an individual residential spray irrigation system existing on the effective date of this Part shall be filed with the Code Enforcement Officer within 90 days after the effective date of this Part. A copy of the maintenance agreement for a system installed after the effective date of this Part shall be filed with the Code Enforcement officer within 90 days after such installation. A copy of any revisions or amendments to the maintenance agreement and a copy of any new maintenance agreement shall be filed with the Code Enforcement Officer within 30 days after the effective date of any such revision, amendment or new agreement.
5. Change of Ownership. Prior to the conveyance of any lot containing an on-lot sewage system, the sewage system shall be pumped and its contents disposed of as required by this section unless the owner files with the Township a receipt issued by a septic tank contractor licensed by PaDEP and/or the Health Department demonstrating that the system was pumped out within the six-month period immediately preceding the conveyance. Following the conveyance of the lot, the new owner shall be subject to the provisions of this Part.
6. Classification. If the type of an on-lot sewage system is unknown, the system shall be classified as a treatment tank system.
7. Location of Systems. If the owner of any lot, which is served by or on which is located an on-lot sewage system, demonstrates to the Code Enforcement Officer that the location of the system is

unknown to the lot owner, the owner shall then proceed to have the system located and pumped in accordance with the following schedule:

- A. The lot owner shall have the on-lot sewage system located by a date established by Code Enforcement Officer.
- B. The lot owner shall have the on-lot sewage system pumped within 60 days after the date on which the system is located.
- C. The lot owner shall then have the on-lot sewage system pumped in accordance with the next scheduled pumping cycle as provided in this section.

§ 18-205. Promulgation of Regulations.

[Ord. 105, 10/16/2000, § 1]

In addition to the requirements specified in this section and other provisions of this Part, the Board of Supervisors may, by resolution, promulgate such forms and regulations for the administration and enforcement of this Part as the Board shall deem necessary. Failure of a lot owner to receive or secure any required form shall not constitute a defense to the enforcement or penalty provisions of this Part.

§ 18-206. Report to Health Department.

[Ord. 105, 10/16/2000, § 1]

When the Township becomes aware of a violation of this Part and/or the regulations of the Health Department, the violation shall be reported to the Health Department and shall become subject to the rules and regulations of the Health Department.

§ 18-207. Enforcement and Appeals.

[Ord. 105, 10/16/2000, § 1]

1. The Code Enforcement officer shall have the power and authority to determine all issues relating to compliance with the provisions of this Part and to bring and prosecute, in the name of the Township, enforcement and penalty proceedings for violations of the provisions of this Part.
2. Appeals from determinations or interpretations of the provisions of this Part by the Code Enforcement officer shall be taken to the Board of Supervisors within 30 days from the date of such determination or interpretation. Appeals shall be heard and determined in accordance with the provisions of the Local Agency Law. The Board of Supervisors may request documentation and consult with the Township Engineer or other competent or qualified person as the Board determines necessary for a proper resolution of the appeal and may impose the reasonable costs thereof upon the appellant. Notwithstanding the foregoing, the Board of Supervisors shall have no jurisdiction to hear or determine any appeal from the action of the Code Enforcement Officer in prosecuting a violation of this Part in a summary proceeding before a District Justice or other tribunal having jurisdiction.

§ 18-208. Violations and Penalties.

[Ord. 105, 10/16/2000, § 1]

- 1.

Any person, who fails or refuses to comply with any provision of or any regulation promulgated under this Part or with any lawful notice, order or direction of the Code Enforcement Officer or authorized agent issued pursuant to this Part shall be in violation of this Part and guilty of a summary offense and, upon conviction, shall pay a fine of not less than \$100 and not more than \$1,000 (or such other maximum fine as may be prescribed by applicable law), together with the costs of prosecution and, upon default in payment of the fine and costs, shall be subject to imprisonment to the maximum extent allowed by law for the punishment of summary offenses. Each day or portion thereof during which any violation of this Part is found to exist shall constitute a separate offense punishable by like fine and imprisonment.

2. The penalties set forth in Subsection 1 shall not be in limitation of, but shall be in addition to, such other or further remedies as may be available to the Township in law or in equity for the failure or refusal to comply with, or for any other violation of, any provision of or any regulation promulgated under this Part or any lawful notice, order or direction of the Code Enforcement officer or authorized agent issued pursuant to this Part.

§ 18-209. Fee Schedule.

[Ord. 105, 10/16/2000, § 1]

The Board of Supervisors shall, by resolution, adopt a fee schedule for the administration of this Part. The schedules shall be subject to review and revision from time to time and at any time as the Board may deem necessary.

§ 18-210. Decommissioning of On-Lot Sewage Disposal Systems.

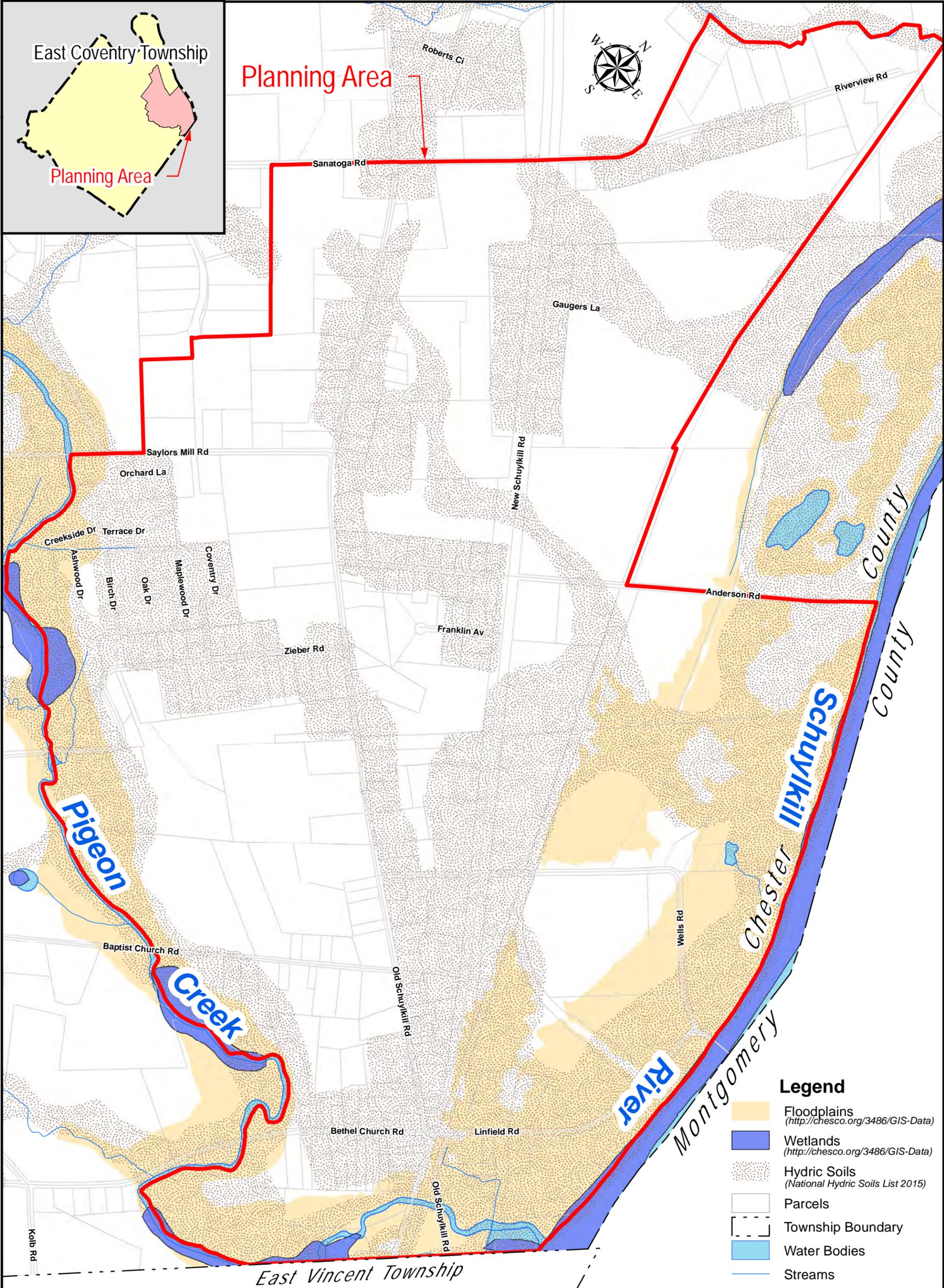
[Ord. 105, 10/16/2000; as added by Ord. 145, 7/14/2008, § 1]

It shall be unlawful for any person owning or occupying a property on which there is a building required to be connected to a public sewer under the provisions of § 18-303 hereof to construct or use on such property any privy, privy vault, cesspool, septic tank or other device for the disposal of sanitary sewage, and any such prohibitive device(s) shall have the contents removed and disposed of at a waste water treatment facility at the owner's expense. The tank(s) shall be cleaned and disinfected with at least 5% sodium hypochlorite (common household bleach) solution which could require five gallons of such material. The tank(s) shall be crushed and filled in with gravel or dirt within 90 days following the date on which the aforesaid connection is required to be made at the owner's sole expense, provided that reinforced concrete tanks must be cleaned, disinfected and filled within the said time period but need not be crushed. Tile fields may be abandoned in place with no other action taken by the owner.

APPENDIX K



Wetlands Mapping



Planning Area



East Coventry Township

Planning Area

Pigeon

Creek

River

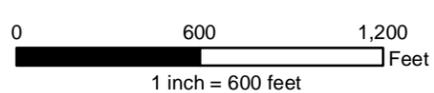
Schuylkill

Montgomery

Chester County

Legend

-  Floodplains
(<http://chesco.org/3486/GIS-Data>)
-  Wetlands
(<http://chesco.org/3486/GIS-Data>)
-  Hydric Soils
(National Hydric Soils List 2015)
-  Parcels
-  Township Boundary
-  Water Bodies
-  Streams



Act 537 Plan
Parkerford Area

FLOODPLAINS, WETLANDS & HYDRIC SOILS

June 2021

Prepared by:
ARRC
321 North Furnace Street, Suite 200
Birdsboro, PA 19508
610-374-5285



EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania
855 Ellis Woods Road
Pottstown, PA 19465
610-495-5443

APPENDIX L

PNDI Correspondence



December 2, 2025

IN REPLY REFER TO

SIR# 56685

ARRO Consulting, Inc.
Bill Bohner Jr
321 N. Furnace Street
Birdsboro, Pennsylvania 19508

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 762244_2
East Coventry Twp. Parker Ford Sanitary Sewer Collection System
East Coventry Township: CHESTER County**

Dear Bill Bohner Jr:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish and Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish and Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 or c-kgipe@pa.gov and refer to the SIR # 56685. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

CAU//KDG/dn



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Ecological Services Field Office
110 Radnor Road Suite 101
State College, PA 16801-7987
Phone: (814) 234-4090 Fax: (814) 234-0748

In Reply Refer To:
Project code: 2026-0021302
Project Name: Parker Ford Act 537 Sewage Facilities Plan

12/01/2025 21:42:20 UTC

Federal Nexus: no
Federal Action Agency (if applicable): East Coventry township

Subject: Technical assistance for 'Parker Ford Act 537 Sewage Facilities Plan'

Dear Bill Bohner:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on December 01, 2025, for 'Parker Ford Act 537 Sewage Facilities Plan' (here forward, Project). This project has been assigned Project Code 2026-0021302 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

Species	Listing Status	Determination
Tricolored Bat (<i>Perimyotis subflavus</i>)	Proposed Endangered	NLAA

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species and/or critical habitat listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

Coordination with the Service is complete. This letter serves as technical assistance. All conservation measures should be implemented as proposed. Thank you for considering federally listed species during your project planning.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Pennsylvania Ecological Services Field Office and reference Project Code 2026-0021302 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Parker Ford Act 537 Sewage Facilities Plan

2. Description

The following description was provided for the project 'Parker Ford Act 537 Sewage Facilities Plan':

Planned construction of sanitary sewer main and a pump station. The sewer main and pump station will be located within the road right of way and through only a few areas of previously disturbed private property.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@40.2081474,-75.5930739195841,14z>



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Note for projects in Pennsylvania: Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer ‘yes’ to this question.

No

6. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

Automatically answered

No

7. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

8. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

No

9. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

10. Will the action result in effects to a culvert or tunnel at any time of year?

No

11. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

12. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

13. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

No

14. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

15. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

No

16. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

17. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note: For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

No

18. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

19. Will the action include drilling or blasting?

No

20. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

No

21. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

No

22. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

23. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

24. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

25. Is the project related to the production of coal, including projects that support the mining of coal, as well as the production and/or distribution of energy produced from coal?

No

26. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

Yes

27. Will the proposed action result in the cutting of entire trees outside of the currently maintained utility right-of-way?

No

28. Will tree trimming, limbing, or cutting be used to expand the footprint of any currently maintained utility rights-of-way?

No

29. Will tree trimming, limbing, or cutting in currently maintained utility rights-of-way occur during the pup season? **Note:** Bat activity periods for your state can be found in Appendix 2 of the Service's [Northern Long-eared Bat and Tricolored Bat Voluntary Environmental Review Process for Development Projects](#).

No

30. Will the proposed action result in the use of prescribed fire?

Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

No

31. Does the action area intersect the tricolored bat species list area?

Automatically answered

Yes

32. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

Automatically answered

No

33. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

34. Has a presence/probable absence bat survey targeting the [tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

35. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

Yes

36. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

37. Do you have any documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

0.6

IPAC USER CONTACT INFORMATION

Agency: East Coventry township
Name: Bill Bohner
Address: 321 N. Furnace Street
Address Line 2: Suite 200
City: Birdsboro
State: PA
Zip: 19508
Email: bill.bohner@arroconsulting.com
Phone: 6104952102

1. PROJECT INFORMATION

Project Name: **East Coventry Twp. Parker Ford Sanitary Sewer Collection System**

Date of Review: **11/24/2025 02:19:21 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **50.40 acres**

County(s): **Chester**

Township/Municipality(s): **East Coventry Township**

ZIP Code:

Quadrangle Name(s): **PHOENIXVILLE**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **Pigeon Creek; Sprogles Run-Schuylkill River**

Decimal Degrees: **40.208859, -75.600371**

Degrees Minutes Seconds: **40° 12' 31.8938" N, 75° 36' 1.3355" W**

2. SEARCH RESULTS

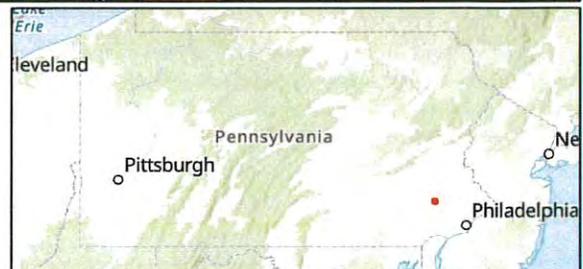
Agency	Results	Response
PA Game Commission	Conservation Measure	No Further Review Required, See Agency Comments
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	Potential Impact	MORE INFORMATION REQUIRED, See Agency Response

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

East Coventry Twp. Parker Ford Sanitary Sewer Collection System

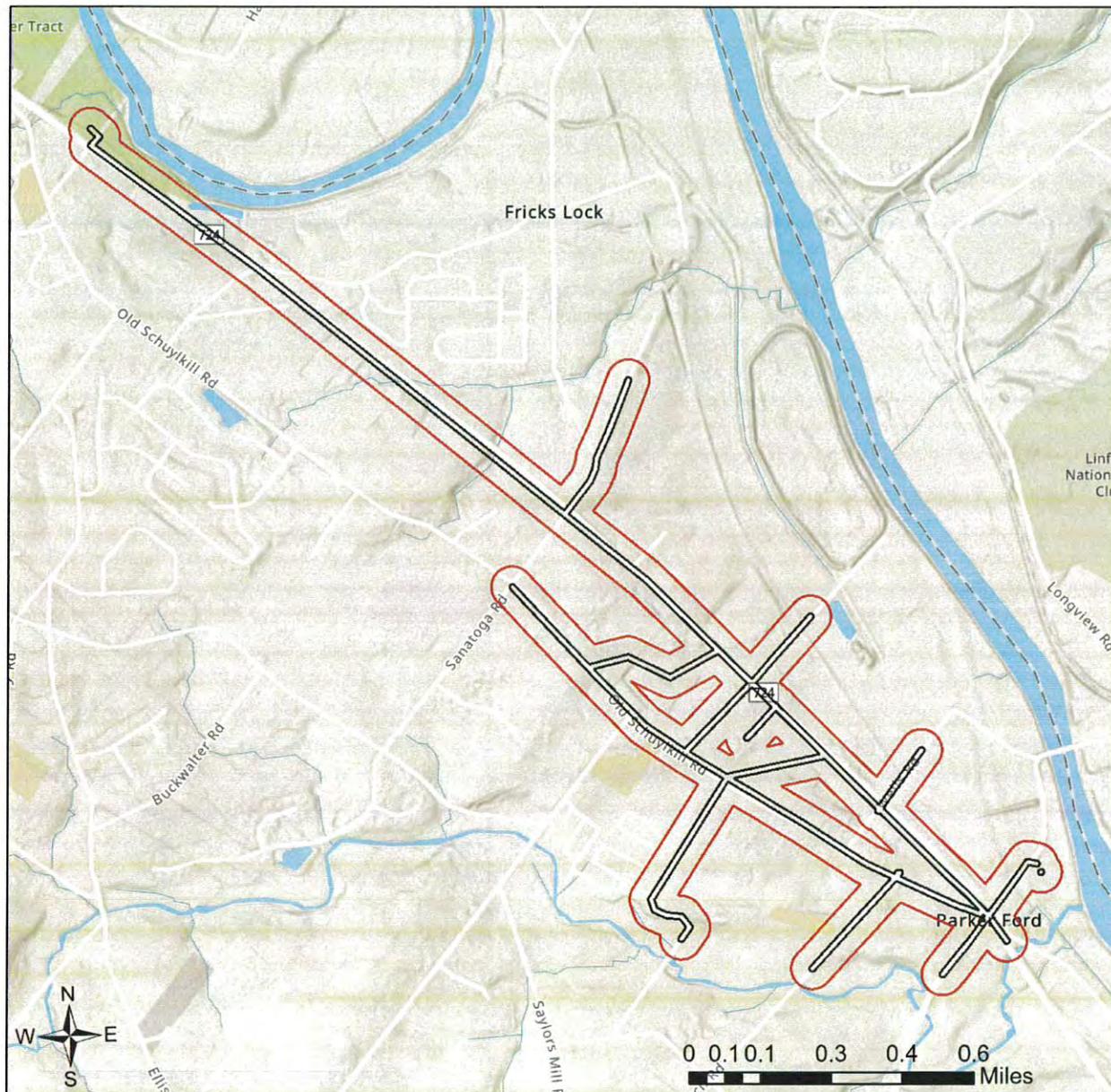


-  Buffered Project Boundary
-  Project Boundary

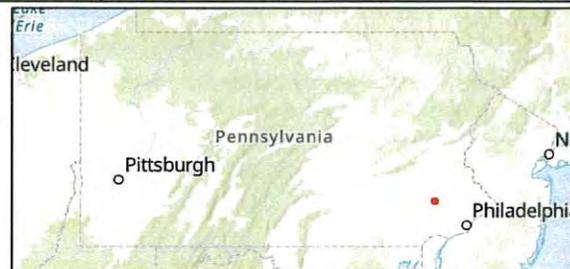


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

East Coventry Twp. Parker Ford Sanitary Sewer Collection System



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: The entire project will occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, or railroad bed.

Q2: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats?

Your answer is: No

Q3: Will the action include disturbance to trees such as tree cutting (or other means of knocking down, or bringing down trees, tree topping, or tree trimming), pesticide/herbicide application or prescribed fire?

Your answer is: No

Q4: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?

Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Conservation Measure: Potential impacts to state and federally listed species which are under the jurisdiction of both the Pennsylvania Game Commission (PGC) and the U.S. Fish and Wildlife Service may occur as a result of this project. As a result, the PGC defers comments on potential impacts to federally listed species to the U.S. Fish and Wildlife Service. No further coordination with the Pennsylvania Game Commission is required at this time.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

Information Request: Your project is within the range of the federally listed bog turtle. Enter project information into IPaC (<http://ecos.fws.gov/ipac/>). Follow the step-by-step process to review this project's potential effect on federally listed species. For step-by-step instructions, please see our Project Review Page (<https://www.fws.gov/office/pennsylvania-ecological-services/project-revi...>)

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must submit their project using [IPaC](#), following the [USFWS Project Submission](#) Instructions. USFWS will not accept or review project materials uploaded via the Conservation Explorer.

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: William L. Bohner Jr. P.E.
Company/Business Name: ARRO Consulting, Inc.
Address: 321 N. Furnace St. Suite 200
City, State, Zip: Birdsboro, PA 19508
Phone: (610) 495-2102 Fax: ()
Email: bill.bohner@ARROconsulting.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.


applicant/project proponent signature

11/26/25
date



ARRO Consulting, Inc.
321 North Furnace Street, Ste 200
Birdsboro, PA 19508
P: (610) 374-5285

November 26, 2025

PA Fish and Boat Commission
Division of Environmental Services
595 East Rolling Ridge Drive
Bellefonte, PA 16823

RE: PA Natural Diversity Inventory;
East Coventry Township Act 537 Plan;
Parker Ford Planning Area.
ARRO # 10953.04

Dear Fish and Boat Commission,

East Coventry Township has prepared an Act 537 Plan/Special Study to examine the alternatives for implementing a public sanitary sewer collection/conveyance system to serve the Parker Ford Planning Area located in the northeastern part of the Township.

The Special Study's selected alternative is to implement a collection and conveyance system as depicted on the attached exhibit. This system is expected to follow existing roadways with just a few exceptions where easements may be required for extending gravity sewer main across the adjacent properties. These properties have been previously disturbed and are occupied by homes and structures. Based on the location of proposed sewer mains, wetlands are expected to be avoided.

We respectfully request your review and consideration of clearance for this Act 537 Planning alternative.

If you have any questions, please email me at bill.bohner@arroconsulting.com or call me at 610-495-2102.

Sincerely,

A handwritten signature in blue ink, appearing to read "William L. Bohner, Jr.", is written over a light blue circular stamp.

William L. Bohner, Jr., P.E.
Project Manager

Enclosures

Corporate Headquarters - 108 West Airport Road, Lititz, PA 17543
P: (717) 569-7021 | www.arroconsulting.com

1. PROJECT INFORMATION

Project Name: **East Coventry Twp. Parker Ford Sanitary Sewer Collection System**

Date of Review: **11/24/2025 02:19:21 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **50.40 acres**

County(s): **Chester**

Township/Municipality(s): **East Coventry Township**

ZIP Code:

Quadrangle Name(s): **PHOENIXVILLE**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **Pigeon Creek; Sprogles Run-Schuylkill River**

Decimal Degrees: **40.208859, -75.600371**

Degrees Minutes Seconds: **40° 12' 31.8938" N, 75° 36' 1.3355" W**

2. SEARCH RESULTS

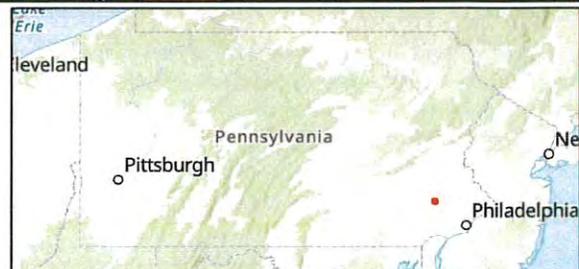
Agency	Results	Response
PA Game Commission	Conservation Measure	No Further Review Required, See Agency Comments
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	Potential Impact	MORE INFORMATION REQUIRED, See Agency Response

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

East Coventry Twp. Parker Ford Sanitary Sewer Collection System

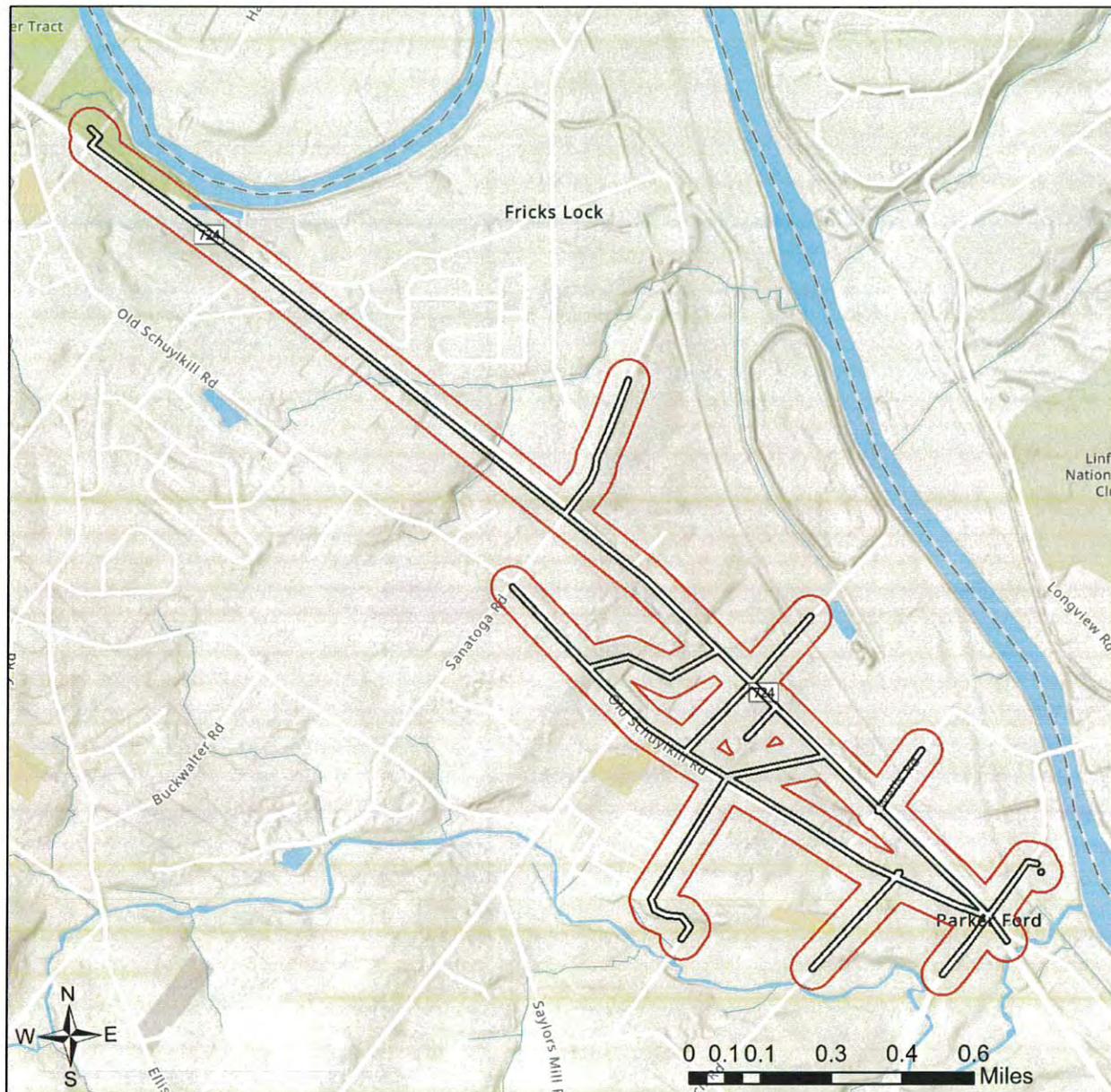


-  Buffered Project Boundary
-  Project Boundary

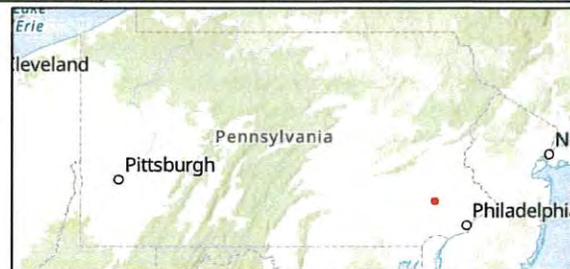


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

East Coventry Twp. Parker Ford Sanitary Sewer Collection System



-  Buffered Project Boundary
-  Project Boundary



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: The entire project will occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, or railroad bed.

Q2: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats?

Your answer is: No

Q3: Will the action include disturbance to trees such as tree cutting (or other means of knocking down, or bringing down trees, tree topping, or tree trimming), pesticide/herbicide application or prescribed fire?

Your answer is: No

Q4: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?

Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Conservation Measure: Potential impacts to state and federally listed species which are under the jurisdiction of both the Pennsylvania Game Commission (PGC) and the U.S. Fish and Wildlife Service may occur as a result of this project. As a result, the PGC defers comments on potential impacts to federally listed species to the U.S. Fish and Wildlife Service. No further coordination with the Pennsylvania Game Commission is required at this time.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service

RESPONSE:

Information Request: Your project is within the range of the federally listed bog turtle. Enter project information into IPaC (<http://ecos.fws.gov/ipac/>). Follow the step-by-step process to review this project's potential effect on federally listed species. For step-by-step instructions, please see our Project Review Page (<https://www.fws.gov/office/pennsylvania-ecological-services/project-revi...>)

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Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

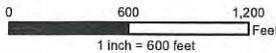
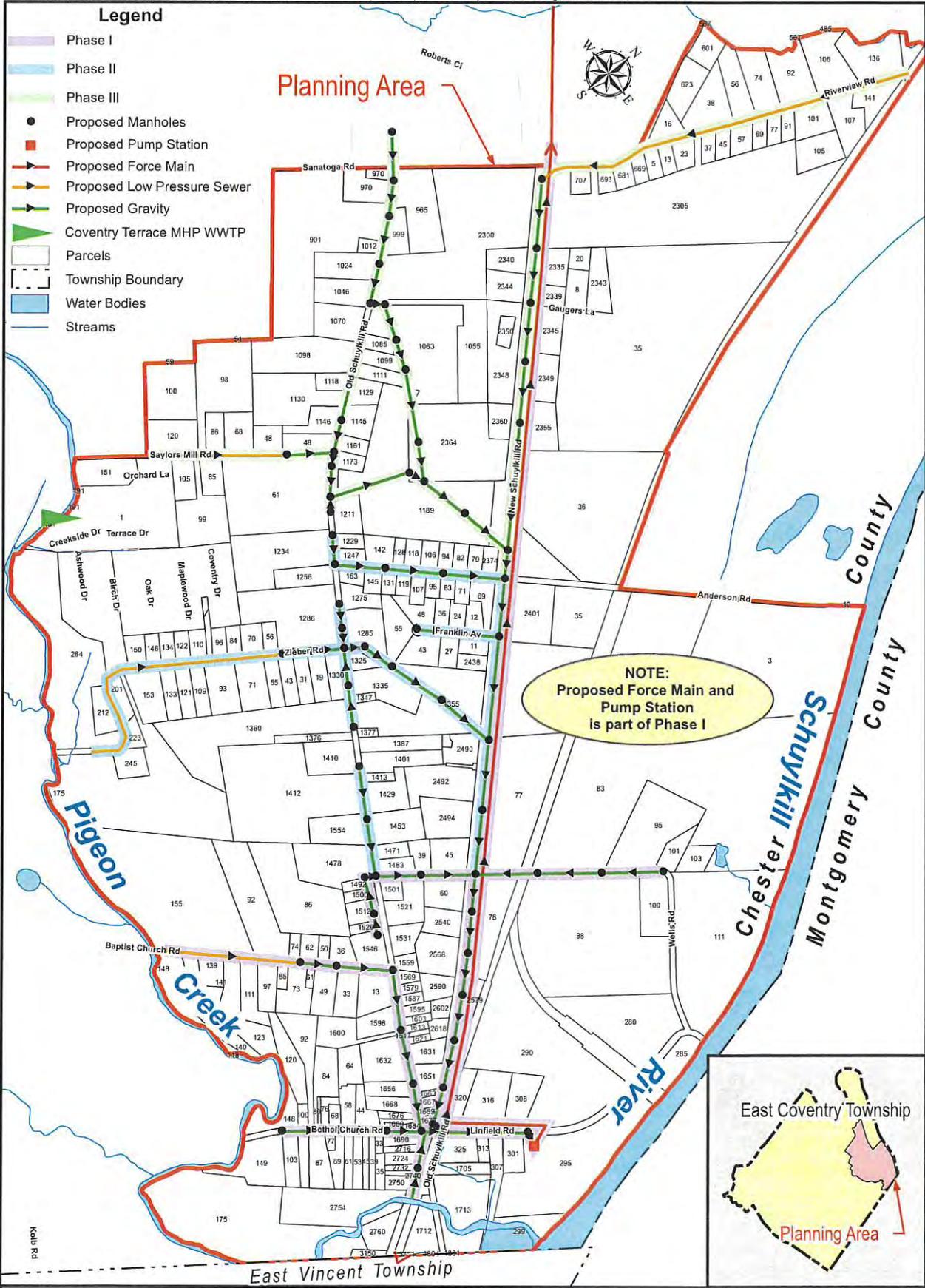
Name: William L. Bohner Jr. P.E.
Company/Business Name: ARRO Consulting, Inc.
Address: 321 N. Furnace St. Suite 200
City, State, Zip: Birdsboro, PA 19508
Phone: (610) 495-2102 Fax: ()
Email: bill.bohner@ARROconsulting.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.


applicant/project proponent signature

11/26/25
date



Prepared by:
ARRO
 321 North Furnace Street, Suite 200
 Birdsboro, PA 19508
 610-374-5285

**Act 537 Plan
 Parkerford Area
 CONCEPTUAL SANITARY SEWER LAYOUT
 PHASING PLAN
 June 2021**



EAST COVENTRY TOWNSHIP
 Chester County, Pennsylvania
 855 Ellis Woods Road
 Pottstown, PA 19465
 610-495-5443



APPENDIX M

PHMC Correspondence



December 1, 2025

Sent Via PA-SHARE

RE: ER Project # 2017PR14169.004, PARKEFORD ACT 537 PLAN SPECIAL STUDY,
Department of Environmental Protection, East Coventry Township, Chester County

Dear Submitter,

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Archaeological Resources

*No Archaeological Concerns - Environmental Review - No Historic Properties -
Archaeological*

Based on the information received and available within our files, it is our opinion that there are no archaeological historic properties (resources listed in or eligible for listing in the National Register) present within the area of potential effect at the proposed wastewater pump station. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Justin McKeel at jusmckeel@pa.gov.

Sincerely,

Barbara Frederick
Environmental Review Division Manager

**EAST COVENTRY TOWNSHIP WASTEWATER PUMPING STATION
EAST COVENTRY TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

GEOMORPHOLOGY REPORT

Prepared for:

**ARRO Consulting, Inc.
321 North Furnace Street, Suite 200
Birdsboro, PA 19508**

Prepared by:

SKELLY AND LOY

A  **Terracon** Company

**SKELLY and LOY, Inc., A Terracon Company
Engineers-Consultants
Pittsburgh, PA**

SEPTEMBER 2022

**EAST COVENTRY TOWNSHIP WASTEWATER PUMPING STATION
EAST COVENTRY TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

GEOMORPHOLOGY REPORT

Prepared by:

**Lisa A. Benack, M.A.
Principal Investigator**

and

**Margaret G. Sams, C.P.S.S.
Geomorphologist**

Prepared for:

**ARRO CONSULTING INC.
321 NORTH FURNACE STREET, SUITE 200
BIRDSBORO, PA
19508**

Submitted by:

**Skelly and Loy, Inc., A Terracon Company
3280 William Pitt Way
Pittsburgh, PA 15238
(412) 828-1412**

September 2, 2022

ABSTRACT

Skelly and Loy, Inc., A Terracon Company (Skelly and Loy) has performed a geomorphological survey of a 0.2 ha (0.5 ac) study area that is under consideration as the site for the construction of a wastewater pumping station in East Coventry Township, Chester County, Pennsylvania. The study area is located on a wooded floodplain of the Schuylkill River, in the Gettysburg-Newark Lowland Section of the Piedmont Physiographic Province. The purpose of the geomorphological investigation was to determine whether intact soils with the potential to contain in situ archaeological deposits exist within the study area. The geomorphological survey included background research, field investigations, and report writing.

Background research revealed that no archaeological sites had been previously recorded in the study area. Background research indicated that siltation involving coal silts from upstream coal mining operations was present in the Schuylkill River in the immediate vicinity of the project study area. Desilting operations were undertaken in the 1940s and 1950s. Several desilting basins were excavated in the general project region. Coal silts, or culm, was dredged from the Schuylkill River channel. The culm was then transported to and deposited in these desilting basins. Anthracite culm has been reported on floodplains along almost the entire length of the Schuylkill River.

The geomorphological field investigations consisted of the visual examination of the ground surface throughout the study area, followed by the excavation of soil auger borings, and the visual examination of the sediments recovered by the borings. Five auger borings were attempted. Four of the auger borings were stopped at or near the ground surface by rocks, debris, and slag. One auger boring was excavated to a depth of 270.0 cm (106.3 in) below ground surface (bgs). This auger boring consisted entirely of black coal culm. Below a depth of 248.0 cm (98.0 in), the culm was saturated to the point of flow, and samples below 270.0 cm (106.3 in) could not be contained within the bucket auger sampler. No natural soils or sediments were noted within this boring.

This parcel on which the study area is located appears to have been an excavated basin to contain coal culm dredged from the Schuylkill River. No trace of natural soils or sediments were encountered across the study area. Therefore, no Phase I archaeological testing to detect the presence of archaeological resources is recommended for the study area.

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1.0 Introduction

Skelly and Loy, Inc., A Terracon Company (Skelly and Loy) has performed a geomorphological survey of a 0.2 ha (0.5 ac) study area that is under consideration as the site for the construction of a wastewater pumping station in East Coventry Township, Chester County, Pennsylvania (Figure 1). The study area is located on a wooded floodplain of the Schuylkill River, approximately 304.8 m (1,000.00 ft) northeast of the community of Parker Ford (Figures 1 and 2). The study area is located on a wooded, 2.7 ha (6.7 ac) parcel of land. The purpose of the geomorphological investigation was to determine whether intact soils with the potential to contain in situ archaeological deposits exist within the study area. The geomorphological survey included background research, field investigations, and report writing.

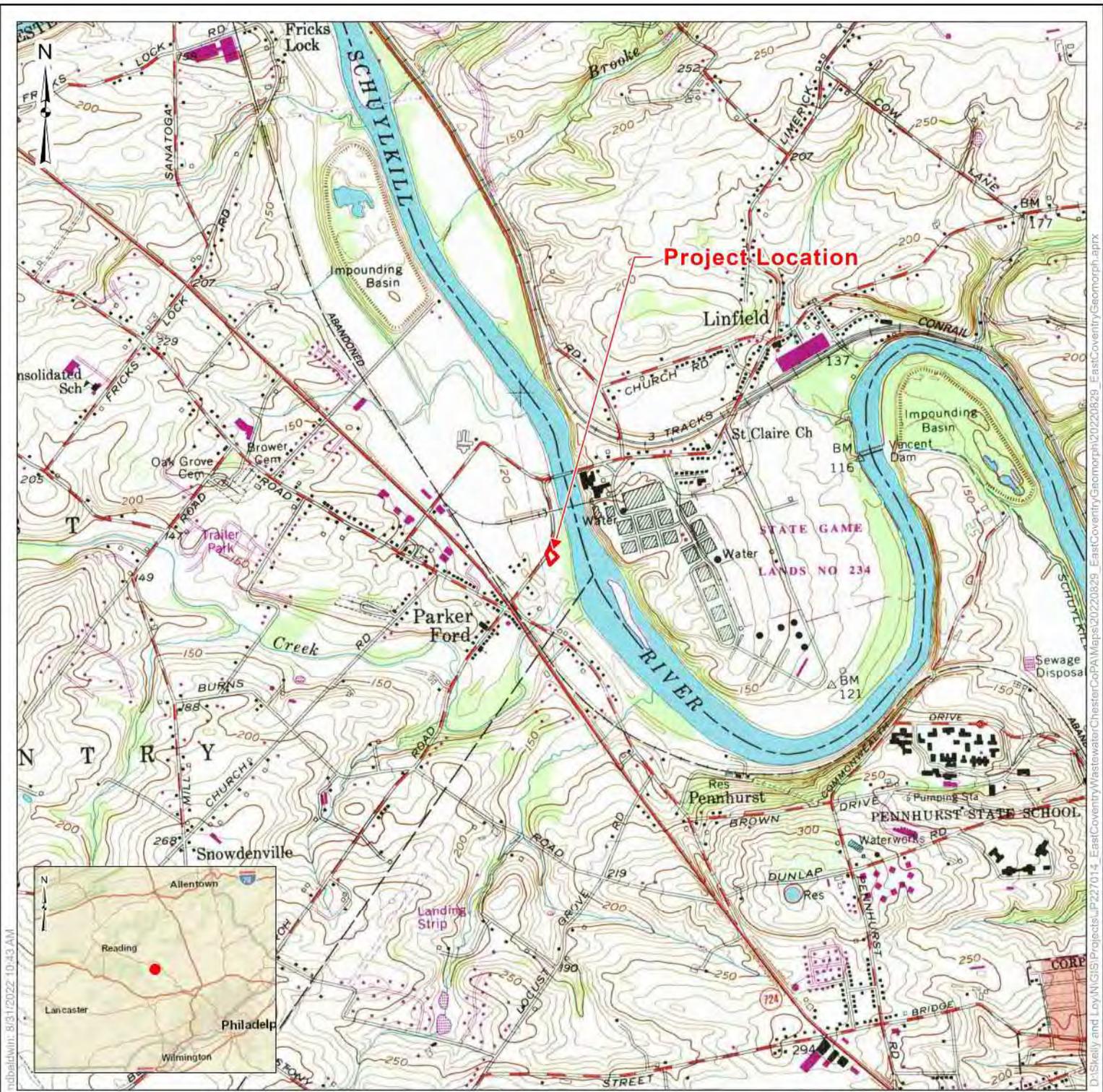
2.0 Background Research

Background research consisted of the examination of various on-line sources in order to gather general environmental information regarding the study area. In addition, records maintained by the Pennsylvania State Historic Preservation Office (PA SHPO), including the Pennsylvania Archaeological Site Survey (PASS) files, were reviewed using the Pennsylvania's Historic and Archaeological Resource Exchange (PA-SHARE) database (PA SHPO 2022). The results of the background research are summarized below.

2.1 Background Research Results

The study area lies within the Gettysburg-Newark Lowland Section of the Piedmont Physiographic Province (Sevon 2000), along the middle to lower reaches of the Schuylkill River, on the west bank of the river. The Schuylkill River originates in eastern Schuylkill County ca. 146.4 km (91.0 mi) upstream from the study area, near the town of Tuscarora, Pennsylvania. The Schuylkill River flows northwest to southeast past the project area and continues southeast to its mouth at the Delaware River at Philadelphia, ca. 74.1 km (46.0 mi) downstream from the study area.

The study area is underlain by Triassic-age sedimentary rocks of the Brunswick Formation, consisting of reddish-brown mudstone, siltstone, and shale, with a few green and brown shale interbeds, and red and dark-gray, interbedded argillites near its base (Berg et al. 1980; Pennsylvania Bureau of Topographic and Geologic Survey 2001).

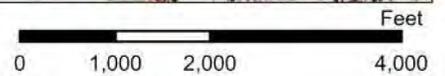


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D:\Skelly and Loy\GIS\Projects\JP227014 - East Coventry Wastewater\ChesterCo\PA\Maps\20220829 - EastCoventry\Geomorph.aprx

Legend

Study Area



DATA SOURCE(S):
USGS Quadrangle - Phoenixville, PA 1984

Project No.:	JP227014
Date:	August 2022
Drawn By:	NDB
Reviewed By:	BSR

SKELLY AND LOY

A **Terracon** Company

3280 William Pitt Way Pittsburgh, PA 15238

PH. (412) 828-1412 terracon.com

Project Location

East Coventry Township
Wastewater Pumping Station
East Coventry Township
Chester County, Pennsylvania

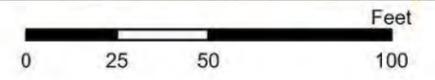
Figure

1



- Legend**
- Photograph Location
 - Soil Auger Boring (AB)
 - Force Main Out
 - Gravity Sewer In
 - 10-ft Contours
 - 2-ft Contours
 - Tax Parcel
 - Study Area
 - Access Drive
 - Control Building
 - Wet Well

DATA SOURCE(S):
 ESRI WMS - World Aerial Imagery, OpenStreetMap
 PA DCNR 2008 - Elevation Contours.



Project No.: JP227014
 Date: August 2022
 Drawn By: NDB
 Reviewed By: BSR

SKELLY AND LOY
 A Terracon Company
 3280 William Pitt Way Pittsburgh, PA 15238
 PH. (412) 828-1412 terracon.com

Plan View
 East Coventry Township
 Wastewater Pumping Station
 East Coventry Township
 Chester County, Pennsylvania

Figure
 2

ndbaldwin: 8/31/2022 6:01 PM

D:\Skelly and Loy\GIS\Projects\JP227014 - East Coventry Wastewater Chester Co\PA\Map\JP227014 - East Coventry\Geomorph\20220829 - East Coventry\Geomorph.aprx

The headwaters of the Schuylkill River collect flow from across a region of long-term anthracite coal mining, and the river, and/or its adjacent canal, was used for transportation of the coal downstream to towns such as Pottsville, Reading, Pottstown, and Philadelphia for iron production and other industrial and commercial uses. The cleaning and processing of anthracite coal yielded fine silt-sized particles called culm, a waste product that for many years was disposed of into the river or its tributaries (Mowad 2002; Wenner 2013). In 1945 it was estimated that the discharge of coal and culm into the river had reached 3 million cubic yards per year. This sediment accumulated along the river channel bottom and behind dams and canal locks, interfering with river and canal transportation and causing widespread flooding. The United States Army Corps of Engineers (USACE) began desilting efforts during the 1940s and 1950s (Wenner 2013). These efforts included the excavation of 27 large basins along the river where culm was transported and deposited after dredging of the river channel (Jones 2020). Anthracite culm has been reported on floodplains along almost the entire length of the Schuylkill River, and also along the Delaware River up to ca. 50.0 km (31.0 mi) downstream from the mouth of the Schuylkill River (Mowad 2002).

A review of twentieth-century topographic maps was conducted in an attempt to determine the land use history of the study area. No structures were shown within the study area or on the parcel that contains the study area on any of the maps that were examined (Figures 3, 4, and 5; United States Geological Survey [USGS] 1906; USACE 1943; USGS 1955, 1968, 1973, 1983). By 1955, the Linfield Desilting Basin had been excavated on the west bank of the Schuylkill River, ca. 1.5 km (0.9 mi) upstream from the study area (see Figure 4). The Vincent Dam Desilting Basin was also excavated as part of the desilting effort. It lies across the apex of an acute meander curve in the Schuylkill River channel, ca. 3.1 km (1.9 mi) downstream of the study area.

According to the United States Department of Agriculture, Natural Resources Conservation Service *Web Soil Survey* (USDA, NRCS 2019), the soil type occurring across the entire project area is the Gibraltar silt loam. This soil is well-drained, forming on floodplains in recent alluvium derived from coal washings deposited over alluvium from reddish sandstone, siltstone, and shale parent material (United States Department of Agriculture, National Cooperative Soil Survey, 2022). Within the Gibraltar soil, the upper surface of either an intact or truncated profile of Holocene alluvium is typically encountered at ca. 76.0 cm (30.0 in) below ground surface (bgs).



Legend

 Study Area



DATA SOURCE(S):
USGS Quadrangle - Phoenixville, PA 1906

Project No.:
JP227014
Date:
August 2022
Drawn By:
NDB
Reviewed By:
BSR

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Study Area in 1906

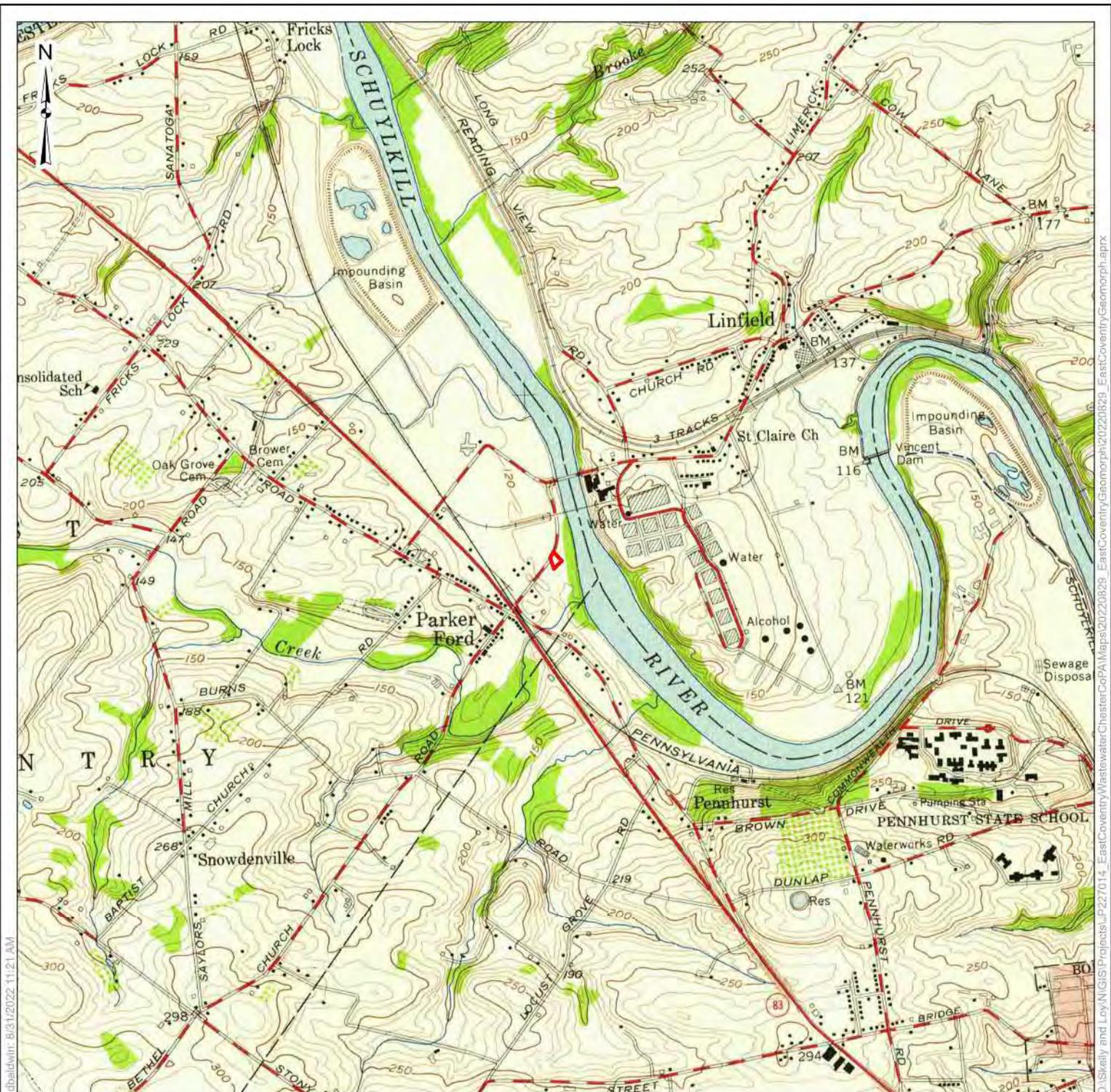
East Coventry Township
Wastewater Pumping Station
East Coventry Township
Chester County, Pennsylvania

Figure

3

ndb@skelly-loy.com 8/31/2022 11:21 AM

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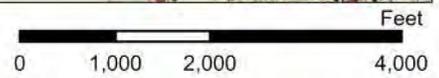


ndbeldwhr: 8/31/2022 11:21 AM

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Legend

Study Area



DATA SOURCE(S):
USGS Quadrangle - Phoenixville, PA 1955

Project No.:	JP227014
Date:	August 2022
Drawn By:	NDB
Reviewed By:	BSR

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3280 William Pitt Way Pittsburgh, PA 15238

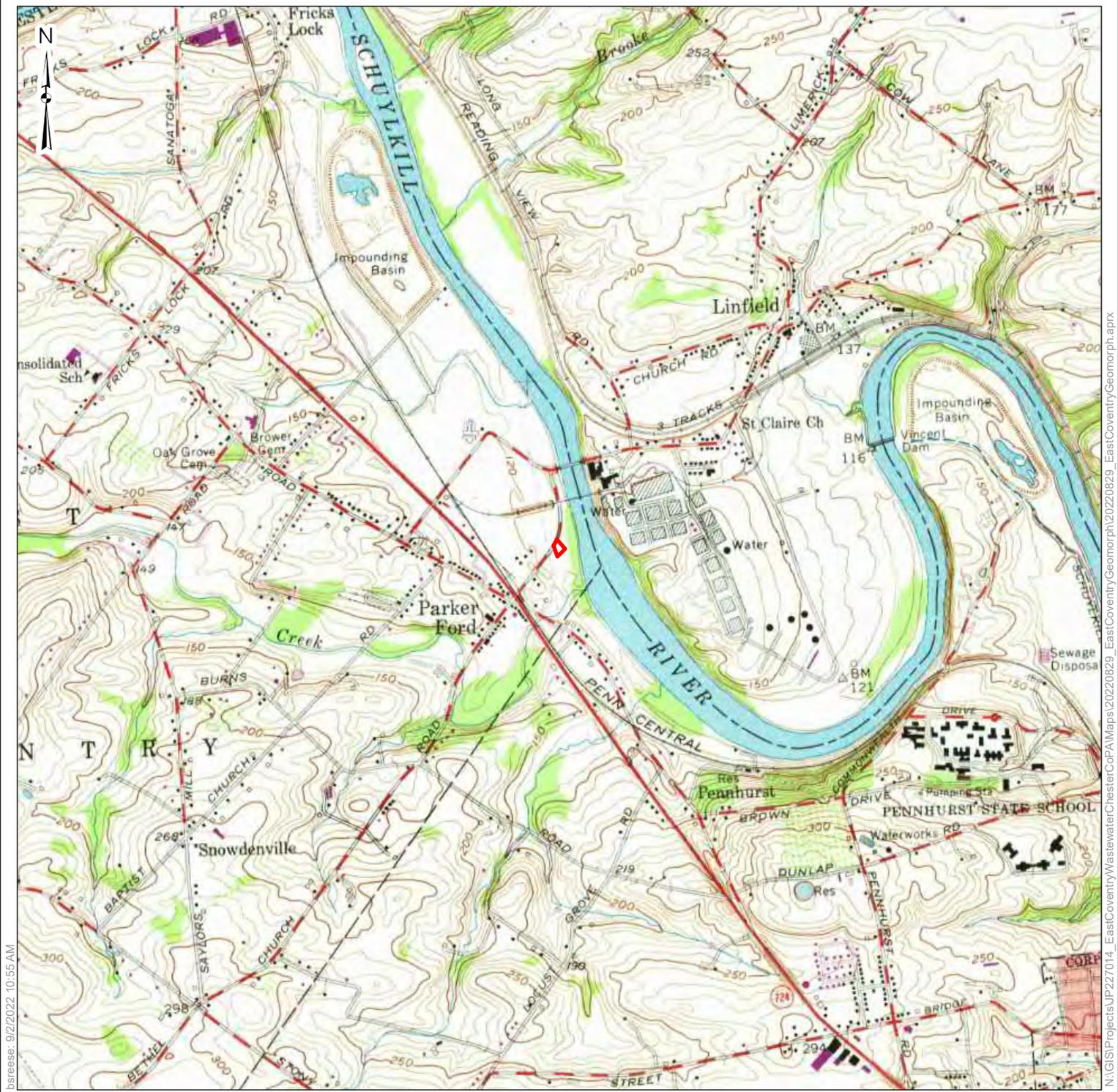
PH. (412) 828-1412 terracon.com

Study Area in 1955

East Coventry Township
Wastewater Pumping Station
East Coventry Township
Chester County, Pennsylvania

Figure

4

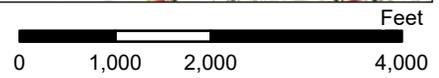


bsreese: 9/2/2022 10:55 AM

N:\GIS\Projects\Wastewater\Chester\CPA\Maps\20220829 - EastCoventryGeomorph.aprx

Legend

Study Area



DATA SOURCE(S):
USGS Quadrangle - Phoenixville, PA 1968

Project No.:	JP227014
Date:	September 2022
Drawn By:	NDB
Reviewed By:	BSR

SKELLY AND LOY

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Study Area in 1968

East Coventry Township
Wastewater Pumping Station
East Coventry Township
Chester County, Pennsylvania

Figure

5

Flood insurance rate mapping (United States Department of Homeland Security, Federal Emergency Management Agency [FEMA] 2017) indicates that the entire parcel on which the study area is located lies within a flood hazard zone with a one percent annual chance of inundation, commonly known as the one-hundred-year floodplain. In addition, the eastern ca. half of the parcel has been designated as within the FEMA Regulatory Floodway zone. According to FEMA, the Regulatory Floodway includes “the channel of a river plus any adjacent land areas that must be kept free from encroachment in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.” The floodway carries floodwater immediately after overbanking occurs, which is typically the flow of the highest volume and velocity during a flooding event.

The PA-SHARE database indicated that no pre-contact sites had been previously recorded within the study area, or on the parcel on which the study area is located (PA SHPO 2022). According to the Pennsylvania Statewide Pre-Contact Probability Model, the entire study area was mapped as a moderate probability area for the occurrence of pre-contact period sites. The study area was considered to reflect a low probability to contain historic period archaeological sites, due to the lack of documented structures, as revealed by the review of the historical topographic maps.

3.0 Geomorphological Field Investigations

3.1 Field Methodology

The field investigation for the geomorphological survey of the study area was performed on July 21, 2022. The soils and sediments of the study area were assessed for the potential to contain intact archaeological resources. The study area was visually inspected, and five soil auger borings (ABs) were attempted. All but one boring was rejected at or within 10.0 cm (3.9 in) of the ground surface due to rocky fill and slag. One boring, taken in the approximate north-central portion of the study area, extended to a total depth of 270.0 cm (106.3 in) bgs. The profile of this boring was examined and described according to the methods and nomenclature specified by the USDA, NRCS (Schoeneberger, et al. 2002). The profile description is included in Appendix A, and the boring location is shown in Figure 2.

3.2 Results and Conclusions

A large portion of the ground surface across the northern and western portions of the parcel upon which the study area is covered with rock fragments, debris, and slag (Photograph 1). All auger borings attempted across the northwestern portion of the study area were rejected at shallow depths due to a high percentage of coarse fragments. Flow from a culvert under Linfield Road has incised a small rill to the north of the study area. Higher-velocity flow during heavy precipitation events has transported larger rock and slag fragments through the culvert and deposited this bedload over portions of the ground surface of the study area. The remainder of the ground surface across the study area and the parcel on which the study area is located is covered with black coal silt, or culm (Photograph 2).

Auger Boring 1, taken within the north-central portion of the study area, was of 270.0 cm (106.3 in) of black coal culm. Below a depth of 248.0 cm (98.0 in), the culm was saturated to the point of flow, and samples below 270.0 cm (106.3 in) could not be contained within the bucket auger sampler. No natural soils or sediments were noted within this boring.

This parcel on which the study area is located appears to have been another excavated basin to contain coal culm dredged from the Schuylkill River, perhaps a smaller version than the named Linfield and Vincent Dam desilting basins. No trace of natural soils or sediments were encountered across the study area. Therefore, no Phase I archaeological testing to detect the presence of archaeological resources is recommended for the study area.



Photograph 1. Rock fragments, debris, and slag at the ground surface, northwestern portion of study area.



Photograph 2. Black coal silt, or culm, in the study area, facing south.

4.0 References

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Wenner, J.

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APPENDIX A

SOIL PROFILE DESCRIPTION

SOIL PROFILE

Auger Boring 1

Date: July 21, 2022

County: Chester

Soil Description By: M.G. Sams, CPSS

Project Location: East Coventry Wastewater Pump Station

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Redox					
coal silts/0-248 cm (0-98 in)	N 2/0 black		coal silts (culm)	massive	malleable, slightly plastic	gradual	culm sediment from upstream coal processing and disposal into river
coal silts/248-270 cm+ (98-106 in+)	N 2/0 black		coal silts (culm)	massive	plastic, flowing		saturated culm; deeper examination not possible, as sample flowed out of bucket auger

Additional Notes: Floodplain position; 270 cm (106 in) of coal silts (culm), lowest 22 cm (9 in) was saturated, causing deeper core boring to fail as sample flowed out of the bucket auger.

APPENDIX N

Municipal Comments and Responses

MINUTES OF THE
EAST COVENTRY TOWNSHIP PLANNING COMMISSION
MEETING HELD ON JULY 17, 2019
(Approved August 21, 2019)

The Planning Commission held their monthly meeting on Wednesday, July 17, 2019. Present for the meeting were Walter Woessner, Kathryn Alexis, Lance Parson, Larry Tietjen and Paul Lacon. Also present was Marjorie Brown, Township Solicitor and Rick Tralies, Township Planner.

Mr. Woessner called the meeting to order at 7:00 p.m. and the pledge was recited.

Mr. Woessner made a motion to accept the Agenda. Mrs. Alexis seconded the motion. The motion carried with a 5-0-0 vote.

MINUTES

Mrs. Alexis made a motion to approve the minutes as presented for the April 17, 2019 monthly meeting. Mr. Parson seconded the motion. The motion carried with a 3-0-2 vote with both Mr. Tietjen and Mr. Lacon abstaining since they were absent for that meeting.

Mr. Parson made a motion to approve the minutes as presented for the May 15, 2019 monthly meeting. Mr. Tietjen seconded the motion. The motion carried with a 4-0-1 vote with Mrs. Alexis abstaining since she was absent for that meeting.

CITIZEN COMMENTS

There were no citizen comments.

SUBDIVISION AND LAND DEVELOPMENT

There was no subdivision and land development brought before the commission at this time.

ADDITIONAL ITEMS BROUGHT BEFORE THE COMMISSION

Parker Ford Area Act 537 Special Study

Mr. Bill Bohner from Arro Consulting Group gave a presentation on the Parker Ford Area Act 537 Special Study. The Act 537 Plan in general is a Sewage Facilities Plan. The Act 537 Sewage Facilities Plan is a Township Planning Document which is the Township's or the Municipalities responsibility to keep that plan in place. One of the items that is required for those preparing the plan for the Township, are review comments or discussions with the Township's Planning Commission, the County Planning Commission and the Health Department. Feedback has been received by both the Chester County Planning Commission and the Chester County Health Department and both were favorable regarding this plan. In 2003 the Township had approved an Act 537 Sewage Facilities Plan that actually identified this area as a future public sewer service needs area. In the 2003 Plan that was approved by the DEP, they identified the area as a five and ten-year plan area. Mr. Bohner stated they talked to DEP to get started and DEP is on board with the planning area and the approach. Mr. Bohner stated one of the aspects of the report was where there are truly needs in the area, even though approved years back by DEP. In conversation with DEP, they physically surveyed, not every property, but physically did a survey of on-lot disposal systems (OLDS). They sent out surveys to all of the property owners and got back 37 to 38% of the surveys. From the surveys that had went out and they also did a percentage of field verifications. Generally speaking, there are a lot of systems that are aging and a good bit of them are on parcels that are small (less than an acre) so there is not a lot of room should the system fail. Arro Consulting Group had their in-house sewage enforcement officer look over the data to make sure the thought process made sense from his perspective. Basically, it is showing there is a need for public sewer in this area. The Field Verification Map shows systems that had no malfunction, potential for malfunction and suspected malfunction. Some

property owners were very forthcoming and said they know their system is failing. Mr. Woessner asked if the residents that stated they know their on-lot septic system is failing, are they going to be doing anything to alleviate it. Mr. Bohner stated he would have to look back at the surveys and he doesn't know that they indicated specifically that they were going to address those issues. The Soils Suitability Map shows what areas of the Planning Area has somewhat limited, very limited and not rated areas for the soil in terms of being able to support on-lot treatment and disposal of domestic wastewater. The soil suitability map shows that approximately 75% of the area has soil conditions that are very limited for on-lot disposal systems. Sand mounds are an alternative but you need a good bit of property to have them. Some properties are thin and long and some properties the homes are in the center of the property and you don't necessarily have a lot of room to work. There are also some existing septic systems that are too close to existing wells. The Conceptual Sanitary Sewer Layout Map shows the proposed manholes, proposed pump station, proposed force main, proposed low pressure sewer and proposed gravity. In regards to whether to pump the wastewater to East Vincent or North Coventry, there was a meeting between Mr. Flaharty, Mr. Kraynik and East Vincent Township regarding running everything to the East Vincent Township wastewater treatment plant. East Vincent Township then came back and said they would accept the wastewater but they would need system upgrades on their end. North Coventry wastewater treatment plant already has the capacity. It is more cost effective to send the wastewater to the North Coventry wastewater treatment plant then implementing the improvements that East Vincent would need to have done to make their wastewater treatment plant able to handle the capacity. It appears the best solution is having the wastewater pumped to the pump station near Towpath Park and from there it would go to North Coventry's wastewater treatment plant. A discussion ensued. Mr. Woessner asked Mr. Bohner what he needs from the Planning Commission and he stated he will need the meeting minutes when they are completed.

Mr. Lacon asked who are the decision makers on this, is it the Board of Supervisors? Mr. Bohner stated there will be a public comment period after this meeting and then it proceeds from there with the list of steps that need to be done.

Ordinance Re: Pool Setback Requirements

Ms. Brown gave some background on how the recommendation came about for the pool ordinance to be reviewed and possibly updated. Ms. Brown stated a homeowner received a permit to have a pool installed and the plan showed the pool to be installed 20 feet from the property line as required by the zoning ordinance. However, when the pool was installed, because of a sand mound for on-lot sewage disposal on the property, the installer placed the pool within 10 feet of the property line. The owner then went to the Board of Supervisors to request a waiver of the fee for a variance application, which is approximately \$1,000. The Board of Supervisors requested the zoning ordinance be amended to provide for a 10-foot setback. Ms. Brown has prepared a proposed ordinance for Planning Commission review. Mr. Woessner's question is where do you measure from. A lengthy discussion ensued.

Mrs. Alexis made a motion for the pool setback to be ten feet based on the definition Ms. Brown has identified which is "as measured from the outside edge of the permanent improvements surrounding the body of water . Mr. Lacon seconded the motion. The motion carried with a 3-2-0 vote. Ms. Brown is to make changes and bring the draft ordinance back to the next meeting for further discussion and review.

Ordinance Re: Open Space Plan Implementation – Chester County Review Letters

Ms. Brown reviewed the comments that were received from the Chester County Planning Commission regarding the Ordinance pertaining to the Open Space Plan Implementation. A discussion ensued regarding the proposed changes. Mr. Woessner made a motion to authorize Ms. Brown to make the necessary changes and submit the Ordinance to the Board of Supervisors for

authorization for advertising. Mrs. Alexis seconded the motion. The motion carried with a 5-0-0 vote.

Ordinance Re: Rezoning of Certain Parcels along Old Schuylkill Road and New Schuylkill Road – Chester County Review Letter

Ms. Brown stated this Ordinance is set for a hearing at the Board of Supervisors meeting on August 12, 2019. The review letters received from Chester County Planning Commission and Pottstown Metropolitan Regional Planning Commission basically had no comments.

Northern Federation Update

Mrs. Alexis stated they had a meeting and had invited some farmers from around the area to talk about what issues farmers have with townships. The biggest issue farmers had is that Pennsylvania has a Right-to-Farm Act or some such ordinance, and that the farmer has had conflict with townships regarding when they want to, for example, build something, the township says you have certain setbacks, and the farmer says they don't because of the Right-to-Farm Act. Due to the fact that East Coventry Township does have setbacks for certain items, Mrs. Alexis feels they should review as to whether or not the setbacks they have are enforceable or not with the Right-to-Farm Act. Mr. Tralies also agrees that this issue is something they should be looking into. Mr. Woessner asked if the Federation is going to stick together. Mrs. Alexis stated yes, one of the members did come back and they are going to continue to meet four (4) times a year.

Mr. Woessner asked Mr. Tralies if he has had a chance to look at the cluster issues that he brought up previously. Mr. Tralies stated he will look back at his emails.

Historical Commission Update

Nothing to report at this time.

Pottstown Metropolitan Regional Planning Committee

Mr. Woessner stated they voted to not meet in July and August.

ADJOURNMENT

Mr. Tietjen moved to adjourn the meeting at 8:49 pm. Mrs. Alexis seconded the motion. The motion carried with a 5-0-0 vote.

Respectfully submitted,

Susan Kutsch
Secretary

Bohner, Bill

From: Walt Woessner <waltjw164@verizon.net>
Sent: Sunday, May 05, 2019 11:02 PM
To: Bohner, Bill; 'David Kraynik'
Cc: skutsch@eastcoventry-pa.gov; 'a_Walt Woessner'; Flaharty, Brady
Subject: RE: Parker Ford 537 Plan/Special Study - Planning Commission Review

Bill,

A few editorial comments

Page 8

B Individual and Community On-Lot Disposal Systems **OLDS**

I'm sorry to say it took me a while to find what OLDS was where it was used many times in the discussion.

Page 12

Make it clear that the minimum lot area is with sewer

Walt

From: Walt Woessner <waltjw164@verizon.net>
Sent: Friday, 3 May, 2019 3:46 PM
To: Bohner, Bill <Bill.Bohner@arroconsulting.com>; David Kraynik <dkraynik@eastcoventry-pa.gov>
Cc: skutsch@eastcoventry-pa.gov; a_Walt Woessner <res1638kb@verizon.net>; Flaharty, Brady <Brady.Flaharty@arroconsulting.com>
Subject: Re: Parker Ford 537 Plan/Special Study - Planning Commission Review

Looks like a plan!

Walt

From: [Bohner, Bill](#)
Sent: Friday, May 03, 2019 3:39 PM
To: [Walt Woessner](#) ; [David Kraynik](#)
Cc: [skutsch@eastcoventry-pa.gov](#) ; [a_Walt Woessner](#) ; [Flaharty, Brady](#)
Subject: RE: Parker Ford 537 Plan/Special Study - Planning Commission Review

Good afternoon all,

Thanks for the note.

As a follow up; If it helps to facilitate the review process and if the Planning Commission desires, this Special Study is something that can be reviewed by the Township Planner on their behalf. After his review, I can take time to meet with him discuss it further and answer any questions that he may have.

Bill

William L. Bohner, Jr., P.E.

P: 610.495.2102

F: 610.495.5855



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From: Walt Woessner [<mailto:waltjw164@verizon.net>]
Sent: Friday, May 03, 2019 3:31 PM
To: David Kraynik; Bohner, Bill
Cc: skutsch@eastcoventry-pa.gov; a_Walt Woessner
Subject: Re: Parker Ford 537 Plan/Special Study - Planning Commission Review

Dave,

It's 3:20 Friday and this is all news to me.

I have not seen the "study" or have any knowledge of it.

Maybe it is in the package for the May meeting.

Therefore I have no comments at this juncture.

Walt

From: [David Kraynik](#)
Sent: Friday, May 03, 2019 10:59 AM
To: '[Bohner, Bill](#)'
Cc: '[Walt Woessner](#)'; skutsch@eastcoventry-pa.gov
Subject: RE: Parker Ford 537 Plan/Special Study - Planning Commission Review

Bill:

I'm copying Walt Woessner here so he can advise on what agenda this item will be discussed and who he wants to present it to the Planning Commission for discussion.

Thanks

Dave

From: Bohner, Bill <Bill.Bohner@arroconsulting.com>
Sent: Wednesday, April 24, 2019 8:48 AM
To: David Kraynik <dkraynik@eastcoventry-pa.gov>
Subject: Parker Ford 537 Plan/Special Study - Planning Commission Review

Hi Dave,

I just wanted to take a moment and follow-up with you regarding our recent submission of the draft 'Parker Ford 537 Plan/Special Study' to the Township Planning Commission (Walt Woessner) for review.

If this is something that will be discussed among the Planning Commission Board at their next meeting, let me know if you would like me to be there to discuss it.

Alternatively, if the Township Planner (Rick Tralies) will be reviewing the Special Study on behalf of the Commission, maybe it would be best to allow him time to review it and offer comments. After he offers comments, I could plan to meet with him to review and discuss it.

Please let me know what you would prefer.

As a quick side note: As part of prescribed DEP review process for 537 Planning, the Planning Commission has 60 days to review and offer comments on this Special Study.

Thanks Dave.

Bill

William L. Bohner, Jr., P.E.

P: 610.495.2102

F: 610.495.5855



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APPENDIX O

County Planning Commission Comments and Responses

1095-3.04

THE COUNTY OF CHESTER



COMMISSIONERS
Michelle Kichline
Kathi Cozzone
Terence Farrell

PLANNING COMMISSION
Government Services Center, Suite 270
601 Westtown Road
P. O. Box 2747
West Chester, PA 19380-0990
(610) 344-6285 Fax (610) 344-6515

Brian N. O'Leary, AICP
Executive Director

June 5, 2019

RECEIVED
JUN 10 2019

ARRO Consulting, Inc.

W. Atlee Rinehart, Chair
East Coventry Township
Board of Supervisors
855 Ellis Woods Road
Pottstown, PA 19465

Re: Official Sewage Facilities Act 537 Plan Special Study for Parker Ford Area
East Coventry Township

Dear Mr. Rinehart:

The Chester County Planning Commission (Planning Commission) has reviewed the Draft 537 Plan Special Study dated April 2019 as required by Section 71.53(a)(2) of the Pennsylvania Sewage Facilities Act (Act 537). The Plan was prepared by ARRO Consulting Inc. and was received in our office on April 16, 2019.

This plan was prepared to address the sewage facilities planning necessary for the Township to address public sewer service to meet the needs of existing and proposed development in the Parker Ford area of the Township. East Coventry Township intends to construct a regional pump station and force main to serve the Parker Ford Planning Area. This pump station will then connect to East Coventry Township's existing pump station at Towpath Park. The effluent will ultimately be treated utilizing the currently allocated capacity available at North Coventry Wastewater Treatment Plant. The Chester County Planning Commission recommends the Special Study be adopted after addressing the comments listed below.

The following comments are offered based on review of the document:

A. Consistency of the Act 537 Plan Update with *Landscapes3*:

1. We find the proposed areas to be served by sewer service to be consistent with the Landscapes Map of *Landscapes3* (2018). The Special Study area for East Coventry Township is located entirely within the Suburban Landscape. The vision for the Suburban Landscape is predominantly residential communities with locally-oriented commercial uses and facilities, accommodating growth at a medium density that retains a focus on residential neighborhoods, with enhancements in housing diversity and affordability. The use of public sewer systems is consistent with the vision for

The Planning Commission has reviewed the Parker Ford Planning Area Special Study and recommends approval of this Plan after comments are addressed. Thank you for the opportunity to offer comments on this plan. If you have any questions, please contact me at 610-344-6285.

Sincerely,

A handwritten signature in black ink that reads "Carrie Conwell". The signature is written in a cursive, flowing style.

Carrie Conwell, AICP
Senior Environmental Planner

cc: Elizabeth Mahoney, PA DEP
Matt Skiljo, Chester County Health Department
David Kraynik, East Coventry Township Manager
William Bohner, Jr., PE, ARRO Consulting ✓



East Coventry Township

Info@eastcoventry-pa.gov
www.eastcoventry-pa.gov

855 Ellis Woods Road
Pottstown, PA 19465
Phone: 610-495-5443
Fax: 610-495-9925

June 17, 2019

Ms. Carrie Conwell, AICP
Senior Environmental Planner
Chester County Planning Commission
Government Services Center
601 Westtown Road, Suite 270
P.O. Box 2747
West Chester, PA 19380-0990

RE: East Coventry Township Act 537 Plan Special Study;
Parker Ford Planning Area;
Planning Commission Review; Response to Comments.

Dear Ms. Conwell:

East Coventry Township would like to take this opportunity to respond to the Planning Commissions comments offered in the Commissions' June 5, 2019 review letter for the above referenced Act 537 Special Study.

Comment A.1.:

We find the proposed areas to be served by sewer service to be consistent with the Landscapes Map of *Landscapes3* (2018). The Special Study area for East Coventry Township is located entirely within the Suburban Landscape. The vision for the Suburban Landscape is predominately residential communities with locally-oriented commercial uses and facilities, accommodating growth at a medium density that retains a focus on residential neighborhoods, with enhancements in housing diversity and affordability. The use of public sewer systems is consistent with the vision for the Suburban Landscape, according to *Landscapes3*.

Response:

Acknowledged.

Comment A.2.:

Watersheds (2002), the water resources element of the County comprehensive plan, identifies Objective 7.2 of Goal 7, "concentrate planned utility service areas to support designated growth areas," to be achieved through key strategies such as the extension of wastewater facilities in Suburban Landscapes. The utilization of a public sewer system to alleviate on-lot wastewater disposal concerns such as elevated nitrates and aging systems in a designated growth area is consistent with Objective 7.2 of *Watersheds*.

Ms. Carrie Conwell, AICP
Senior Environmental Planner
Chester County Planning Commission
June 17, 2019
Page 2

Response:

Acknowledged.

Comment B:

The selected alternative for the Parker Ford Planning Area in East Coventry Township is to extend existing municipal sewage facilities to the Planning Area and decommission the private on-lot disposal systems in three (3) phases: Linfield/Bethel Church Roads to Wells Road; Wells Road to Anderson Road; and Anderson Road to Sanatoga Road. As presented, the selected alternative is generally consistent with *Landscapes3* Connect Objective F, which states, "Coordinate water and sewage facilities planning with land use planning so that development is directed toward designated growth areas with adequate and well maintained infrastructure," and Connect Recommendation 10, which states: "Explore methods to improve coordination of long range planning goals for water and sewer infrastructure with land use planning.

Response:

Acknowledged.

General Comment 1:

East Coventry Township is to be commended for updating their municipal Act 537 planning to identify sewage disposal needs for the Township and provide alternatives to address them.

Response:

Thank you.

General Comment 2:

There are multiple natural gas and gas liquids pipeline corridors located in this portion of East Coventry Township, including Sunoco and two (2) Columbia Gas pipelines. While this would not preclude construction on the public system, there may be special steps that can avoid negative impacts or interactions between the pipelines and the public. The Planning Commission recommends contacting the pipeline operators directly to coordinate any construction activities, in addition to calling 811, before digging. Contact information for the operator can be obtained through this link to the Chester County Pipeline Information Center:
www.chescoplanning.org/pic/Operators.cfm.

Ms. Carrie Conwell, AICP
Senior Environmental Planner
Chester County Planning Commission
June 17, 2019
Page 3

Response:

We will make every effort to coordinate with pipeline operators through the PA One call system during the preliminary design phase of the project.

General Comment 3:

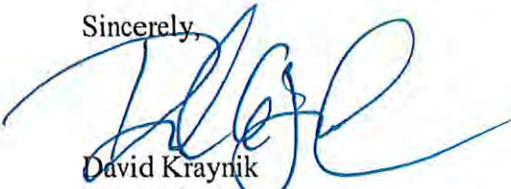
Page 3-1. Physical and Demographic Conditions. The current text refers to *Landscapes2* as the County Comprehensive Plan. *Landscapes3*, the Chester County Comprehensive Plan was adopted by the Chester County Commissioners on November 29, 2018. For consistency, please update documentation to include updated references to *Landscapes3*. It can be found at <http://www.chescoplanning.org>.

Response:

The text of the Special Study will be revised to reflect the most current County Comprehensive Plan; *Landscapes3*.

Thank you for providing us with your comments and input. If you should have any additional questions or comments, please contact Bill Bohner at ARRO. His phone number is 610-495-2102 and his email address is bill.bohner@arroconsulting.com.

Sincerely,



David Kraynik
Township Manager

c: Brady L. Flaharty, P.E. – ARRO
William L. Bohner, Jr., P.E. – ARRO

APPENDIX P

County Health Department Comments and Responses



THE COUNTY OF CHESTER



COMMISSIONERS
Michelle Kichline
Kathi Cozzone
Terence Farrell

JEANNE E. CASNER, MPH, PMP
County Health Director

CHESTER COUNTY HEALTH DEPARTMENT
Water and Sewage Division
Chester County Government Services Center
601 Westtown Road, Suite 288
West Chester, PA 19380-0990
610-344-6526 FAX: 610-344-5934
www.chesco.org/health

July 5, 2019

W. Atlee Rinehart, Chair
Board of Supervisors
East Coventry Township
855 Ellis Woods Road
Pottstown, PA 19465

RE: Act 537 Special Study for Parker Area

Dear W. Atlee Rinehart,

The Chester County Health Department (CCHD) is in receipt of the above noted Act 537 Special Study for the Parker Ford Area. This Special Study was prepared by ARRO Consulting, Inc., is dated April 2019, and was received by CCHD on April 16, 2019

This Special Study was reviewed in accordance with Title 25, Environmental Protection, Chapter 71, Administration of Sewage Facilities Planning Program, Chapter 71 § 71.31.(b.). Based on the information presented and after review of the Special Study, CCHD has no comments for consideration.

Thank you for the opportunity to review this Special Study. Please contact me if you have any questions or concerns. I can be reached at 610-344-6439 or mskiljo@chesco.org.

Sincerely,

Matt Skiljo
Bureau Director, Environmental Health Protection
Chester County Health Department

CC: Carrie Conwell, Chester County Planning Commission
Bill Bohner, Jr., PE., ARRO Consulting, Inc.
PA DEP – SE Regional Office
File

Septic Permits for Area of Interest in East Coventry

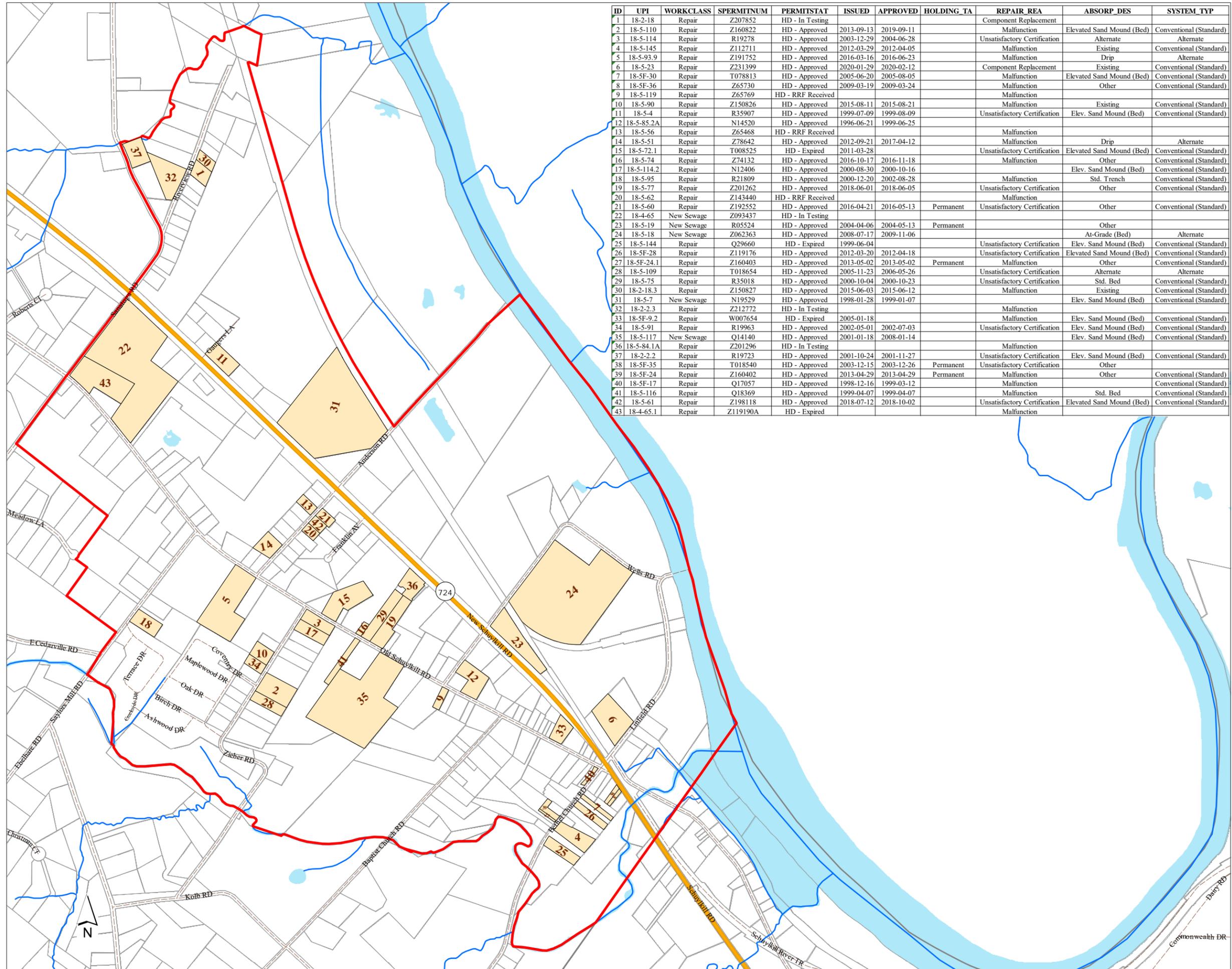
1 inch = 900 feet

Legend

- Parcels with Permit
- Area of Interest

*Source: CCHD; parcel centroids (1999 - Present)
 **Data has not been 100% verified

Limitation of Liability and Use: County of Chester, Pennsylvania makes no claims as to the completeness, accuracy or content of any data contained herein, and makes no representation of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied or inferred with respect to the information or data furnished herein.



ID	UPI	WORKCLASS	SPERMITNUM	PERMITSTAT	ISSUED	APPROVED	HOLDING TA	REPAIR_REA	ABSORP_DES	SYSTEM_TYP
1	18-2-18	Repair	Z207852	HD - In Testing				Component Replacement		
2	18-5-110	Repair	Z160822	HD - Approved	2013-09-13	2019-09-11		Malfunction	Elevated Sand Mound (Bed)	Conventional (Standard)
3	18-5-114	Repair	R19278	HD - Approved	2003-12-29	2004-06-28		Unsatisfactory Certification	Alternate	Alternate
4	18-5-145	Repair	Z112711	HD - Approved	2012-03-29	2012-04-05		Malfunction	Existing	Conventional (Standard)
5	18-5-93.9	Repair	Z191752	HD - Approved	2016-03-16	2016-06-23		Malfunction	Drip	Alternate
6	18-5-23	Repair	Z231399	HD - Approved	2020-01-29	2020-02-12		Component Replacement	Existing	Conventional (Standard)
7	18-5F-30	Repair	T078813	HD - Approved	2005-06-20	2005-08-05		Malfunction	Elevated Sand Mound (Bed)	Conventional (Standard)
8	18-5F-36	Repair	Z65730	HD - Approved	2009-03-19	2009-03-24		Malfunction	Other	Conventional (Standard)
9	18-5-119	Repair	Z65769	HD - RRF Received				Malfunction		
10	18-5-90	Repair	Z150826	HD - Approved	2015-08-11	2015-08-21		Malfunction	Existing	Conventional (Standard)
11	18-5-4	Repair	R35907	HD - Approved	1999-07-09	1999-08-09		Unsatisfactory Certification	Elev. Sand Mound (Bed)	Conventional (Standard)
12	18-5-85.2A	Repair	N14520	HD - Approved	1996-06-21	1999-06-25				
13	18-5-56	Repair	Z65468	HD - RRF Received				Malfunction		
14	18-5-51	Repair	Z78642	HD - Approved	2012-09-21	2017-04-12		Malfunction	Drip	Alternate
15	18-5-72.1	Repair	T008525	HD - Expired	2011-03-28			Unsatisfactory Certification	Elevated Sand Mound (Bed)	Conventional (Standard)
16	18-5-74	Repair	Z74132	HD - Approved	2016-10-17	2016-11-18		Malfunction	Other	Conventional (Standard)
17	18-5-114.2	Repair	N12406	HD - Approved	2000-08-30	2000-10-16			Elev. Sand Mound (Bed)	Conventional (Standard)
18	18-5-95	Repair	R21809	HD - Approved	2000-12-20	2002-08-28		Malfunction	Std. Trench	Conventional (Standard)
19	18-5-77	Repair	Z201262	HD - Approved	2018-06-01	2018-06-05		Unsatisfactory Certification	Other	Conventional (Standard)
20	18-5-62	Repair	Z143440	HD - RRF Received				Malfunction		
21	18-5-60	Repair	Z192552	HD - Approved	2016-04-21	2016-05-13	Permanent	Unsatisfactory Certification	Other	Conventional (Standard)
22	18-4-65	New Sewage	Z093437	HD - In Testing						
23	18-5-19	New Sewage	R05524	HD - Approved	2004-04-06	2004-05-13	Permanent		Other	
24	18-5-18	New Sewage	Z062363	HD - Approved	2008-07-17	2009-11-06			At-Grade (Bed)	Alternate
25	18-5-144	Repair	Q29660	HD - Expired	1999-06-04			Unsatisfactory Certification	Elev. Sand Mound (Bed)	Conventional (Standard)
26	18-5F-28	Repair	Z119176	HD - Approved	2012-03-20	2012-04-18		Unsatisfactory Certification	Elevated Sand Mound (Bed)	Conventional (Standard)
27	18-5F-24.1	Repair	Z160403	HD - Approved	2013-05-02	2013-05-02	Permanent	Malfunction	Other	Conventional (Standard)
28	18-5-109	Repair	T018654	HD - Approved	2005-11-23	2006-05-26		Unsatisfactory Certification	Alternate	Alternate
29	18-5-75	Repair	R35018	HD - Approved	2000-10-04	2000-10-23		Unsatisfactory Certification	Std. Bed	Conventional (Standard)
30	18-2-18.3	Repair	Z150827	HD - Approved	2015-06-03	2015-06-12		Malfunction	Existing	Conventional (Standard)
31	18-5-7	New Sewage	N19529	HD - Approved	1998-01-28	1999-01-07			Elev. Sand Mound (Bed)	Conventional (Standard)
32	18-2-2.3	Repair	Z212772	HD - In Testing				Malfunction		
33	18-5F-9.2	Repair	W007654	HD - Expired	2005-01-18			Malfunction	Elev. Sand Mound (Bed)	Conventional (Standard)
34	18-5-91	Repair	R19963	HD - Approved	2002-05-01	2002-07-03		Unsatisfactory Certification	Elev. Sand Mound (Bed)	Conventional (Standard)
35	18-5-117	New Sewage	Q14140	HD - Approved	2001-01-18	2008-01-14			Elev. Sand Mound (Bed)	Conventional (Standard)
36	18-5-84.1A	Repair	Z201296	HD - In Testing				Malfunction		
37	18-2-2.2	Repair	R19723	HD - Approved	2001-10-24	2001-11-27		Unsatisfactory Certification	Elev. Sand Mound (Bed)	Conventional (Standard)
38	18-5F-35	Repair	T018540	HD - Approved	2003-12-15	2003-12-26	Permanent	Unsatisfactory Certification	Other	
39	18-5F-24	Repair	Z160402	HD - Approved	2013-04-29	2013-04-29	Permanent	Malfunction	Other	Conventional (Standard)
40	18-5F-17	Repair	Q17057	HD - Approved	1998-12-16	1999-03-12		Malfunction		Conventional (Standard)
41	18-5-116	Repair	Q18369	HD - Approved	1999-04-07	1999-04-07		Malfunction	Std. Bed	Conventional (Standard)
42	18-5-61	Repair	Z198118	HD - Approved	2018-07-12	2018-10-02		Unsatisfactory Certification	Elevated Sand Mound (Bed)	Conventional (Standard)
43	18-4-65.1	Repair	Z119190A	HD - Expired				Malfunction		

APPENDIX Q

Proof of Publication

APPENDIX R

Public Comments and Responses

APPENDIX S

Adopted Resolution

APPENDIX T

*Approved Plan and Study
and Task Activity Report*



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

August 25, 2016

RECEIVED
SEP 01 2016

ARRO Consulting, Inc.

Mr. Bernard A. Rodgers, Manager
East Coventry Township
855 Ellis Woods Road
Pottstown, PA 19465-8151

Re: Approval Letter - Plan of Study and Task/Activity Report
Act 537 Planning
East Coventry Township
Chester County

Dear Mr. Rodgers:

The Department of Environmental Protection (DEP) has received a Plan of Study and Task/Activity Report for preparation of an Act 537 Official Plan Update Special Study, submitted by The Arro Group, under a cover letter dated July 25, 2016.

The Plan of Study proposes the development of an Act 537 Official Plan Update Special Study that will address the planning requirements to meet the wastewater needs of the Parkerford area of East Coventry Township, Chester County.

We have approved your Plan of Study for an estimated total cost of \$73,000. In accordance with your approved Task/Activity Report, your completed planning package will be submitted to DEP for review by September 2017. The resulting Act 537 Official Plan Update Special Study must be consistent with Act 537, Chapter 71, Sections 71.21 and 71.31 of DEP's regulations.

Your municipality's Act 537 Official Plan Update is to be formatted as suggested in the guidance document titled [A Guide for Preparing Act 537 Update Revisions](#), including the necessary items listed in the "Act 537 Plan Content and Environmental Assessment Checklist" found in the guidance document. All necessary items must be included, and a copy of the completed checklist must be included with your Act 537 Plan. This form is available on our website at: <http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-47649/362-0300-003.pdf>

Mr. Bernard A. Rodgers, Manager

- 2 -

August 25, 2016

If you have any questions or concerns, please contact me at 484.250.5175.

Sincerely,



John M. Veneziale
Sewage Planning Specialist 2
Clean Water

cc: Chester County Planning Commission
Chester County Health Department
The Arro Group
Ms. Vollero - RCSOB, 11th Floor, Sewage Facilities
Planning Section
Re 30 (GJE16CLW)238-7

**EAST COVENTRY TOWNSHIP
PARKERFORD ACT 537 SPECIAL STUDY
PLAN OF STUDY**

In accordance with Title 25, Chapter 71, Administration of the Sewage Facilities Planning Program, of the Pennsylvania Code, a Plan of Study has been developed, for the preparation of a revision to the East Coventry Township (Township) Act 537 Sewage Facilities Plan (Plan). This is being prepared to establish the planning elements that are necessary to meet the requirements of the Pennsylvania Department of Environmental Protection (PADEP) as they relate to the preparation of an Act 537 Plan Special Study (Special Study). This Special Study will present the planning requirements necessary to address the need to provide public sanitary sewer service to the Parkerford area in the Township. The planning area, as delineated on the attached location plan, will be the planning area for this Special Study. The Special Study shall become an amendment to the Township's current Act 537 Plan.

Based on the PADEP Act 537 Plan Content and Environmental Assessment Checklist, the following addresses the planning requirements necessary to complete the study:

Executive Summary

1. Prepare a table of contents for the document.
2. Prepare a plan summary (Executive Summary).
 - A. Identify the planning area to be served by the future collection and conveyance system.
 - B. Identify the alternative chosen alternative.
 - C. Include the cost opinion for implementing the proposed alternative.
 - D. Identify the municipal commitments necessary to implement the plan.
 - E. Provide a schedule for implementing the proposed project.
3. Include original signed and sealed Resolutions of Adoption.
4. Include comments provided by the Township Planning Commission, Chester County Planning Commission, and Chester County Health Department.
5. Include Proof of Public Notice.
6. Include a copy of all written comments received and written responses to each comment.

7. Prepare a project implementation schedule.
8. If any planning inconsistencies are identified, documentation will be provided discussing the resolution of the inconsistencies. If none are identified, a statement will be made to that effect.

General Plan

I. Previous Wastewater Planning

- A. Identify and discuss existing wastewater planning.
 1. Discuss previous Act 537 planning.
 2. Discuss planning that has not been done in accordance with an approved implementation schedule.
 3. Discuss additional planning, if any, that is anticipated or planned by the Township.
 4. Discuss planning that has been done via official plan revision such as planning modules or addenda.
- B. Identification of Municipal and County planning documents.
 1. Identify land use plans and zoning maps as they pertain to the Township.
 2. Identify the zoning regulations.

II. Physical and Demographic Analysis

- A. Identify the planning area, municipal boundaries and service area boundaries utilizing existing mapping.
- B. Identify physical characteristics of the planning area. Existing mapping will form the basis for this identification supplemented by USGS and National Wetlands Inventory maps, as required.
- C. Discussion of soils characteristics.
- D. Discussion of geological features.
- E. Discuss topographic features in the service area.
- F. Identification of potable water supply.

- G. Identify wetlands in the area utilizing National Wetlands Inventory Mapping.

III. Existing Sewage Facilities in the Planning Area

- A. Identify and describe municipal sewerage systems in the planning area.
 - 1. Discuss location, size and ownership of existing collection and conveyance facilities. A map will be provided to show the location of the collection and conveyance facilities within the Township that could potentially serve the planning area.
 - 2. Providing a narrative and schematic diagram of the basic treatment process is not applicable to this Special Study.
 - 3. Providing a description of the problems, if any, with the existing treatment plant is not applicable to this Special Study. However, a description of problems, if any, associated with the existing conveyance system will be discussed.
 - 4. Providing details, if any, relative to ongoing upgrading or expansion of the treatment facilities is not applicable to this Special Study. However, a description of ongoing upgrades or expansion, if any, of the conveyance system will be discussed.
 - 5. Provide a description of operation and maintenance requirements and the status of past and present compliance with these requirements.
- B. 1,2,3,4. This Special Study is to address public sewers service and related upgrades within the planning area. On-lot disposal system surveys and private well sampling shall be conducted in accordance with the Department's Sewage Needs Identification Guidance Document.
- C. 1,2,3. Identification of wastewater sludge and septage generation will be discussed.

IV. Future Growth and Development

- A. Describe future growth and development through mapping, text and analysis for the planning area as defined by this Special Study.
 - 1. Discuss areas with existing development or plotted subdivisions.

2. Discuss land use designations including residential, commercial and industrial areas.
3. Discuss future growth areas, population and EDU projections for these areas.
4. Briefly discuss zoning and subdivision regulations as they pertain to planned development.
5. Discuss the sewage planning required to provide adequate wastewater conveyance for planned development.

V. Alternatives to Provide New or Improved Wastewater Disposal Facilities

- A. Identify the alternative to provide for improved sewage facilities
 1. Identification of regional wastewater treatment concepts as an alternative via the conveyance of wastewater to East Vincent Township.
 2. The potential for extension of existing municipal sewage facilities to areas in need.
 3. A discussion addressing the potential for continued use or decommissioning of the existing Coventry Terrace Mobile Home Park treatment facility.
 4. Analysis of a new community sewage system is not applicable to this Special Study.
 5. Analysis of alternatives as they relate to repair, replacement, and upgrade of existing conveyance system components will be discussed.
 6. Discussion as it relates to the use of alternate methods of collection/conveyance.
- B. Discuss the use of individual sewage disposal systems.
- C. Assessment of alternatives based on the use of small flow sewage treatment facilities, land treatment alternatives or package treatment facilities to serve individual homes or clusters of homes is not applicable to this Special Study.

- D. Analysis based on the use of community land disposal is not applicable to this Special Study.
- E. Addressing the use of retaining tank alternatives is not applicable to this Special Study.
- F. A discussion of the current septage management program.
- G. Discuss non-structural comprehensive planning alternatives.
- H. Provide a no-action alternative which includes impacts on:
 - 1. Water Quality and Public Health.
 - 2. Growth Potential.
 - 3. Community and economic conditions.
 - 4. Recreational opportunities.
 - 5. Drinking water sources.
 - 6. Other environmental concerns.

VI. The Evaluation of Alternatives

- A. Evaluate the alternatives, identified in Section V, for consistency with respect to the following:
 - 1. Plans developed under the Clean Streams Law.
 - 2. Plans developed under the Municipal Wasteload Management Plan (Chapter 94).
 - 3. Plans developed under Title II of the Clean Water Act.
 - 4. Comprehensive plans developed under the Pennsylvania Municipalities Planning Code.
 - 5. Anti-degradation requirements as contained in PA Code, Title 25, Chapters 93, 95 and 102 and the Clean Water Act.
 - 6. State water plans developed under the Water Resources Planning Act.
 - 7. Pennsylvania Prime Agricultural Land Policy.

8. The County Stormwater Management Plan.
 9. Wetlands Protection.
 10. Protection of rare, endangered or threatened plant and animal species as identified by the PNDI.
 11. Historical and Archeological Resource Protection (PHMC).
- B. Provide for the resolution of any inconsistencies with items 1 through 11 above, if necessary.
 - C. Evaluate the alternatives with respect to applicable water quality standards and effluent limitations.
 - D. Provide cost opinions for construction, financing and engineering fees for the alternatives identified in Section V.
 - E. Provide an analysis of funding methods available to finance the proposed alternatives including financial contributions from private entities.
 - F. Analyze the need for immediate or phased implementation.
 - G. Analyze the ability of the Township to implement the alternative.

VII. Institutional Evaluation

- A. Provide a brief discussion of the Township, their past actions and present performance including:
 1. Financial and debt status
 2. Available staff and administrative resources
 3. Provide an analysis of the Township's legal authority to implement wastewater planning recommendations, implement system-wide operation and maintenance activities, set user fees, take purchasing actions, take actions against ordinance violators, negotiate agreements with other parties and raise capital for construction, operation and maintenance of facilities.
- B. Describe the various institutional alternatives necessary to implement the technical alternatives, including:
 1. There is no need for a new Authority. No analysis will be completed for this.

2. Function of the Township.
 2. Cost of administration, implementability, and capability of the Township to provide for future needs.
- C. Describe necessary administrative and legal activities, if any, to be completed and adopted to ensure the implementation of the alternatives, including:
1. Legal authorities of incorporation.
 2. Required ordinances, standards, regulations and inter-municipal agreements.
 3. Provisions of rights-of-way, easements, and land transfers.
 4. Other sewage facilities plan adoptions.
 5. Legal documents, if any.
 6. Dates or timeframes of 1-5 above on the implementation schedule.

VIII. Selected Wastewater Treatment and Institutional Alternative

- A. Identify the alternative that is the most feasible from a technical, financial, and institutional standpoint. Justify the choice based on:
1. Existing wastewater disposal needs.
 2. Future wastewater disposal needs.
 3. Operations and maintenance considerations.
 4. Cost effectiveness.
 5. Availability management and administrative systems.
 6. Available finance methods.
 7. Environmental soundness.
- B. Describe the capital financing plan chosen to implement the selected alternative.

Appendix U

Intermunicipal Agreement

Lee Park, Suite 6010
555 North Lane
Conshohocken, PA 19428

OCT 08 2003

Southeast Regional Office

610-832-6130
Fax: 610-832-6133

Casey LaLonde, Manager
East Coventry Township
855 Ellis Woods Road
Pottstown, PA 19465

Re: Act 537 Plan Update
APS Id. 349961, AUTH Id. 359537
East Coventry Township
Chester County

Dear Mr. LaLonde:

We have completed our review of your municipality's updated official sewage facilities plan entitled East Coventry Township Wastewater Collection and Treatment Special Study, as prepared by Motley Engineering Co., Inc. and Arro Consulting, Inc. The plan is dated November, 2000, revised March 28, 2002, September 12, 2002, January 24, 2003 and June 17, 2003. The review was conducted in accordance with the provisions of the Pennsylvania Sewage Facilities Act.

Approval of the plan is hereby granted. The plan provides for the following:

1. The establishment of a public sewer service area tributary to the North Coventry Municipal Authority's Wastewater Treatment Facility. A total of 510,000 gallons per day annual average flow will ultimately be conveyed to the North Coventry Municipal Authority's sewerage facilities. This service area is depicted on Figure 2, Planning Areas, revised by Arro Consulting, Inc. on May 8, 2002.

Section 7.7 of the draft intermunicipal agreement provided with the submission allows East Coventry Township to initially purchase a maximum of 650 EDUs (195,000 gpd) capacity in the North Coventry Municipal Authority's Wastewater Treatment Facility. Pursuant to Section 7.9 of the agreement, East Coventry Township will be permitted to purchase a maximum of 800 EDUs (240,000 gpd) of capacity once the Township has funded the construction and remaining non-construction costs associated with the expansion of the North Coventry Municipal Authority's Wastewater Treatment Facility. East Coventry Township will be allowed to purchase a maximum of 1,700 EDUs (510,000 gpd) of capacity once the expansion of the North Coventry Municipal Authority's Wastewater Treatment Facility has been completed.

2. The construction of four new, municipally owned sewage pumping stations and appurtenant force mains and gravity sewers. These facilities are depicted on the February 19, 2003 plan entitled Northern Service Area Phase I Sewer System, prepared by Arro Consulting, Inc. These pump stations will have the following capacities and service areas:
 - a. Pump Station No. 1 will convey 510,000 gallons per day annual average flows from the new East Coventry Township public sewer service area to sewerage facilities owned by the North Coventry Municipal Authority.
 - b. Pump Station No. 2 will have a capacity of 5,775 gallons per day annual average flow and will serve 22 units from the Wood Crest Estates Subdivision (a.k.a. Strutynski, Jr. Tract).
 - c. Pump Station No. 3 will have a capacity of 106,575 gallons per day annual average flow and will serve 380 units from the Coventry Meadows Subdivision (a.k.a. Burkhart-Elliott Tract), Lot 16 of the Heather Glen Subdivision (a.k.a. Domin-Allison/Miller Tract) and 25 existing houses along Old Schuykill Road.
 - d. Pump Station No. 4 will have a capacity of 21,788 gallons per day annual average flow and will serve 61 units from the Creekview Subdivision (a.k.a. Soltys/Strutynski, Sr. Tract) and 22 units from the Wood Crest Estates Subdivision (a.k.a. Strutynski, Jr. Tract).

This approval is conditioned on the following:

1. East Coventry Township must submit a finalized, signed copy of the Agreement by and among East Coventry Township, North Coventry Township and the North Coventry Municipal Authority, which allows East Coventry Township to purchase sewage treatment capacity in the North Coventry Municipal Authority's Wastewater Treatment Facility.
2. Planning module submissions for East Coventry Township projects tributary to the North Coventry Municipal Authority's Wastewater Treatment Facility must demonstrate their consistency with the intermunicipal agreement referenced in Condition No. 1 above.
3. North Coventry Township currently has no sewage facilities planning in place to allow for the treatment of sewage flows from East Coventry Township at the North Coventry Municipal Authority's Wastewater Treatment Facility. Therefore, any planning modules for East Coventry Township projects tributary to that facility must also be adopted by

Casey LaLonde, Manager

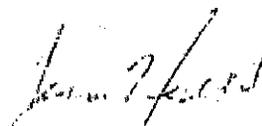
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North Coventry Township as revisions to that municipality's official sewage facilities plan prior to their submission to the Department. This requirement will remain in effect until North Coventry Township receives sewage facilities planning approval for the expansion of the North Coventry Municipal Authority's Wastewater Treatment Facility to accept the 510,000 gpd total proposed flow from East Coventry Township. North Coventry Township must receive Act 537 planning approval and the Authority must obtain all necessary Department permits prior to this expansion.

If you have any questions, please contact Elizabeth Mahoney of this office.

Sincerely,



James Newbold, P.E.
Regional Manager
Water Management

cc: Chester County Planning Commission
Chester County Health Department
Mr. Flaharty
North Coventry Township
North Coventry Municipal Authority
Ms. Mahoney
Ms. Moore
Ms. Grant
RCSOB, 11th Floor, Sewage Facilities, Attn.: John McHale
Planning Section
Re 30

AGREEMENT

among

**NORTH COVENTRY MUNICIPAL
AUTHORITY**

and

NORTH COVENTRY TOWNSHIP

and

EAST COVENTRY TOWNSHIP

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AGREEMENT

THIS AGREEMENT, made this 27th day of January, A.D. 2004, by and among:

NORTH COVENTRY MUNICIPAL AUTHORITY, a Pennsylvania Municipality Authority, whose office is located at 1485 East Schuylkill Road, Pottstown, North Coventry Township, Chester County, Pennsylvania, (hereinafter referred to as "Authority"); and

NORTH COVENTRY TOWNSHIP, a Pennsylvania Township of the Second Class, whose office is located at 845 South Hanover Street, Pottstown, North Coventry Township, Chester County, Pennsylvania, (hereinafter referred to as "North Coventry"); and

EAST COVENTRY TOWNSHIP, a Pennsylvania Township of the Second Class, whose office is located at 855 Ellis Woods Road, Pottstown, East Coventry Township, Chester County, Pennsylvania, (hereinafter referred to as "East Coventry"),

WITNESSETH:

WHEREAS, Authority has constructed, owns, and is operating a municipal wastewater collection system, a wastewater treatment plant, and related facilities in North Coventry Township, Chester County, Pennsylvania; and

WHEREAS, the Authority's wastewater treatment plant has received a Permit from the Pennsylvania Department of Environmental Protection (hereinafter referred to as "DEP") to treat up to 1,500,000 gallons of wastewater per day; and

WHEREAS, East Coventry and North Coventry are located in the northern portion of Chester County, both having a northern border along the Schuylkill River, and both sharing a common municipal boundary line; and

WHEREAS, East Coventry has adopted an Act 537 Sewage Facilities Plan, identifying a need for wastewater treatment plant capacity for 510,000 gallons of wastewater per day from portions of East Coventry Township which are experiencing malfunctioning on-site sewer systems and demands for new development; and

WHEREAS, Authority and North Coventry have determined that the currently remaining treatment capacity of the Authority's wastewater treatment plant must be retained for property owners within North Coventry Township; and

WHEREAS, East Coventry has agreed to provide all construction and non-construction costs, as well as all other related expenses, for the Authority's expansion of the Authority's existing wastewater treatment plant to provide for 510,000 gallons per day of additional

wastewater treatment capacity (hereinafter referred to as "Treatment Plant Expansion Project" or "Project"); and

WHEREAS, Authority and North Coventry have agreed that Authority should construct the required additional facilities for the Treatment Plant Expansion Project to increase the Authority's Permit by 510,000 gallons per day and to provide for treatment of up to 510,000 gallons of wastewater per day from East Coventry; and

WHEREAS, in addition to paying all of the costs for the Treatment Plant Expansion Project, (estimated at \$2,353,000.00) which represents only a minor expansion of the Authority's facilities because existing treatment units and infrastructure can be utilized for the additional capacity, East Coventry has agreed to pay its proportionate share of the net costs for East Coventry's use of the Authority's existing treatment facilities and infrastructure, as well as the purchase by Authority of additional land, with East Coventry's proportionate share being One Million Four Hundred Sixty-four Thousand Dollars (\$1,464,000.00); and

WHEREAS, East Coventry will be constructing its own wastewater collection system within East Coventry Township for the conveyance of wastewater to the Authority's wastewater treatment plant; and

WHEREAS, North Coventry Municipal Authority and North Coventry Township are agreeable to providing East Coventry Township with not more than 800 EDU's of treatment capacity during the period from signing the Agreement through construction to satisfy and accommodate East Coventry in accordance with the terms and provisions of this Agreement.

WHEREAS, the parties further wish to establish the sharing of the operation and maintenance costs of the Authority's expanded wastewater treatment plant after the completion of the Project; and

WHEREAS, the parties wish to establish the sharing of the costs of future repairs, replacements, and upgrades to the Authority's wastewater treatment plant after completion of the Project.

NOW, THEREFORE, the parties hereto, intending to be legally bound, agree as follows:

ARTICLE I

Definitions

1.1. Terms and phrases defined in this Section 1.01, for all purposes of this Agreement, as herein defined, shall have the meanings herein specified, unless the context clearly otherwise requires:

"AADF" shall mean Annual Average Daily Flow, a measurement of wastewater flow expressed in gallons per day, determined by dividing the total wastewater flow (in gallons) under consideration during a calendar year by the actual number of days in such year.

"Act 537" shall mean the Pennsylvania Sewage Facilities Act of January 24, 1966, P.L. (1965) 1535, No. 537, as amended, 35 P.S. §750.1, et seq.

"Act 537 Sewage Facilities Plan" shall mean the comprehensive plan, including all revisions thereto, for the provision of adequate sewage systems adopted by East Coventry and North Coventry, respectively, and submitted to and approved by DEP as provided in and by Act 537 and the regulations of DEP promulgated thereunder.

"Agreement" shall mean this document, its Exhibits, and all modifications, alterations, amendments and supplements hereto made and delivered in accordance with provisions hereof, which phrase sometimes is referred to in this document by use of such words as "hereto", "hereby", "herein", "hereof" or "hereunder".

"Authority" shall mean North Coventry Municipal Authority, a municipality authority incorporated pursuant to the provisions of the Pennsylvania Municipality Authorities Act of 1945, approved May 2, 1945, P.L. 382, as amended and supplemented.

"Authority's Treatment Plant" shall mean all facilities which shall be owned and operated by Authority, from time to time, for the treatment and disposal of wastewater, together with any additions or alterations therein.

"Authority's Wastewater System" shall mean the existing wastewater system, including, but not limited to, all interceptors, collection sewers, and pump stations, the Authority's Treatment Plant, and all related facilities, from time to time, connected therewith, located in and servicing North Coventry and all future additions and alterations thereto, exclusive of the East Coventry Wastewater Collection System, as that term is hereinafter defined.

"Board" shall mean the governing body of the Authority.

"Construction Fund Account" shall mean the special bank account to be established and maintained by the Authority under Section 4.9 of this Agreement and to be used for the payment of all expenses of the Treatment Plant Expansion Project.

"Cost of Treatment Per Gallon" shall mean the quotient obtained by dividing the cost for operation of the wastewater treatment plant during a given period of time by the number of gallons discharged by the plant during the same period of time.

"DEP" shall mean Department of Environmental Protection of the Commonwealth of Pennsylvania or its successor agency.

“Domestic Wastewater” shall mean the normal water-carried household and toilet wastes or wastewater from single or multi-family residences, buildings, structures, businesses, institutions, commercial establishments, and industrial establishments, specifically excluding industrial waste used in production of any commercial or industrial product or water to which there is any contribution of any deleterious, hazardous, toxic, or other waste as may be designated from time to time by the Ordinances, Resolutions, or administrative requirements adopted by the Board of the Authority.

“East Coventry” shall mean the Township of East Coventry, Chester County, Pennsylvania, a political subdivision of the Commonwealth of Pennsylvania, acting by and through its Board of Supervisors and, in appropriate cases, acting by and through its authorized representatives.

“East Coventry Wastewater Collection System” shall mean the wastewater collection system to be constructed in the Township of East Coventry, which will be owned and operated by East Coventry, and which will convey and transport wastewater so collected to the Authority’s Treatment Plant under and in accordance with this Agreement.

“EDU” shall mean Equivalent Dwelling Unit, a measure of wastewater flow anticipated for planning purposes to be received from each Residence. For the purposes of this Agreement, the flow for each EDU shall be calculated as 300 gallons per day.

“Engineer” shall mean a Person, who shall be Independent, appointed by the Board of the Authority or the Board of Supervisors of a Township, qualified to pass upon engineering questions relating to wastewater systems and having a favorable reputation for skill and experience in connection with construction and operation of wastewater systems. If such Person shall be an individual, he shall be a professional engineer duly registered under laws of the Commonwealth of Pennsylvania. If such Person shall be a partnership, a corporation, or an association, it shall have a partner, officer, employee or member who is a professional engineer duly registered under laws of the Commonwealth.

“EPA” shall mean the United States Environmental Protection Agency, or, where appropriate, the Administrator or other duly authorized official of said agency or its successor agency.

“Flow Proportioned Composite Sample” shall mean a sample of wastewater taken in proportion to the volume of flow in not greater than one hour increments for a specified period of time in order to accurately represent the wastewater characteristics in the total volume of wastewater being sampled.

“GPD” shall mean gallons per day of wastewater, calculated as total gallons recorded in a particular time period expressed in days divided by the total number or fractional part of days in the same time period.

“Grab Sample” shall mean an individual sample of at least 100 milliliters collected at a randomly-selected representative time over a period not exceeding 15 minutes (or as subsequently defined and amended by DEP relative to NPDES permits).

“Improved Property” shall mean any property, tract, lot, or parcel of real estate upon which is situate an occupied or occupiable structure, building, establishment, use, or activity consistent with the statutes of the Commonwealth of Pennsylvania, as would require wastewater facilities planning, service, and/or improvements as therein defined in Act 537, or other statutes of the Commonwealth of Pennsylvania, as amended.

“Independent” shall mean, with respect to an Engineer, a Person who is not a member of the Board, an officer or employee of the Authority or an elected or appointed official or employee of East Coventry or North Coventry Township, or which is not a partnership, a corporation or an association having a partner, director, officer, member or substantial stockholder who is a member of the Board, an officer or employee of the Authority or an elected or appointed official or employee of either Township; provided, however, that the fact that such Person is retained regularly by the Authority or the Municipality shall not make such Person an employee within the meaning of this definition.

“Industrial Establishment” shall mean any improved property used or intended for use, wholly or in part, for the manufacturing, processing, cleaning, laundering, or assembly of any product, commodity, or article, or any other improved property from which wastes, in addition to other than domestic wastewater, shall or may be discharged, and further subject to the terms, conditions, and provisions hereinafter set forth regarding industrial waste receipt, conveyance, pre-treatment, or treatment.

“Industrial Waste” shall mean any solid, liquid, or gaseous substance or form of energy emitted, expelled, exhausted, rejected, or escaping in the course of any industrial, manufacturing, trade, or business process, or in the course of the development, recovery, or processing of natural resources, as distinct from Domestic Wastewater, as that term is herein defined.

“Maximum Monthly Average Daily Flow” shall mean a measurement of wastewater flow expressed in gallons per day, determined by dividing the total wastewater flow (in gallons) under consideration by the number of days since the last recorded monthly reading, generally 31 days.

“MGD” shall mean million gallons per day of wastewater, calculated as the total gallons expressed in millions of gallons recorded in a particular time period divided by the total number or fractional part of days in the same time period.

“Month” shall mean a calendar month consisting of the days in the particular month (i.e. February has 28 or 29 days, depending upon leap year or not. April, June, September and November have 30 days, with the remaining months having 31 days).

“North Coventry” shall mean the Township of North Coventry, Chester County, Pennsylvania, a political subdivision of the Commonwealth of Pennsylvania, acting by and through its Board of Supervisors and, in appropriate cases, acting by and through its authorized representatives.

“NPDES (National Pollution Discharge Elimination System) Permit” shall mean a permit or equivalent document or requirement issued pursuant to Section 402 of the Federal Water Pollution Control Act, also known as the Clean Water Act, 33 U.S.C.A. §1342.

“Project” shall mean the Treatment Plant Expansion Project.

“Residence” shall mean any room, group of rooms, motel unit, mobile home, or other enclosure occupied or intended for occupancy as separate living quarters by a family or other group of persons living together or by persons living alone, and shall include townhouse units, condominium units, apartment units, and apartments in converted single family dwellings, each such unit being deemed a single residence.

“Treatment Plant Expansion Project” or **“Project”** shall mean the expansion of the Authority’s Treatment Plant, as the same now exists, as such expansion is contemplated and provided for under and by this Agreement.

“Wastewater” shall mean liquid and water carried Industrial Waste or Domestic Wastewater from dwellings, commercial buildings, industrial facilities and institutions, together with any groundwater, surface water and storm water that may be present, whether treated or untreated, which is contributed into or permitted to enter the Authority’s Treatment Plant.

“24-Hour Composite Sample” shall mean a combination of at least eight-sample aliquots of at least 100 milliliters, collected manually or automatically at periodic intervals during the operating hours of a facility over a 24-hour period. The composite must be flow proportional which can be achieved by one of three ways:

(1) Constant sample volume taken at time intervals, between samples, that are proportional to the discharge flow.

(2) Constant time intervals between samples, with varying sample volume proportional to total discharge flow at the time of sampling.

(3) Constant time intervals between samples with varying sample volume proportional to total discharge flow since the last sample was taken.

(or as subsequently defined and amended by DEP relative to NPDES permits).

ARTICLE II

Act 537 Plan Revisions

2.1. North Coventry agrees that the Authority should prepare and present to North Coventry a revision to North Coventry's Act 537 Sewage Facilities Plan for adoption, providing for Authority's wastewater treatment plant capacity to be increased to 2,010,000 gallons per day and to provide for the Authority's wastewater treatment plant to treat up to 510,000 gallons per day of wastewater from East Coventry.

2.2. East Coventry agrees to revise its Act 537 Sewage Facilities Plan to provide for up to 510,000 gallons per day of wastewater from East Coventry to be treated at the Authority's wastewater treatment plant, upon the capacity of the Authority's wastewater treatment plant being increased to 2,010,000 gallons per day, and upon the completion of the Treatment Plant Expansion Project.

2.3. Each party agrees to further amend its Act 537 Plans to be consistent with any approvals required by the Pennsylvania Department of Environmental Protection. Each party shall endeavor to achieve approval by the Pennsylvania Department of Environmental Protection of the capacities stated above.

2.4. Each party shall attempt to implement its Act 537 Selected Plan Alternative in accordance with the proposed schedule found in Section 4.12 of this Agreement.

2.5. Each party to this Agreement agrees to prepare and submit an application for a Fifty Per Cent (50%) reimbursement provided by the Pennsylvania Department of Environmental Protection for preparation of Act 537 Plans and Special Studies.

2.6. East Coventry agrees to pay all costs incurred by North Coventry and Authority in planning and revising North Coventry's Act 537 Sewage Facilities Plan as the Plan relates to East Coventry Township. East Coventry shall have the opportunity to review and comment on the North Coventry/Authority Engineer's estimated cost to prepare an Act 537 Plan for North Coventry. These costs shall be a part of the non-construction costs hereinafter required to be paid by East Coventry.

ARTICLE III

Treatment Plant Expansion

3.1. Authority agrees that, provided East Coventry performs all of its obligations under this Agreement and pays to the Authority all amounts required under this Agreement, and upon obtaining the required approvals of DEP, the Authority will construct an expansion of the Authority's wastewater treatment plant, as described in this Agreement, and Authority will, upon

completion of the Treatment Plant Expansion Project, accept and treat, in accordance with applicable regulations and permits, an amount of wastewater from East Coventry not to exceed an Annual Average Daily Flow, "AADF", of 510,000 gallons of wastewater per day, subject to the terms of this Agreement.

ARTICLE IV

Procedures to Implement Treatment Plant Expansion

4.1. The Authority's Engineer, Spotts, Stevens and McCoy, Inc., has prepared an opinion of estimated expansion project costs to increase the plant capacity for the Authority's wastewater treatment plant to 2,010,000 gallons per day. This opinion was last revised on December 3, 2001, to increase the total estimated Treatment Plant Expansion Project costs to \$2,353,000.00. A copy of the December 3, 2001, cost opinion is attached hereto as Exhibit "A" and made a part hereof. The estimated Project costs listed below shall be revised in accordance with the Act 537 Plans of North Coventry and East Coventry Townships as approved by the Pennsylvania Department of Environmental Protection. The components of the cost opinion are as follows:

Opinion of probable construction costs	
Major process units	\$1,475,200.00
Bonds and insurance (2%)	29,504.00
Mobilization, demobilization (1.5%)	22,128.00
General conditions (4%)	<u>59,008.00</u>
Total Opinion of probable construction costs	\$1,585,840.00
20% construction contingency	317,160.00
Non-construction (budget value only)	<u>450,000.00</u>
Total estimated expansion project costs	\$2,353,000.00

4.2. The costs associated with increasing the capacity of the Authority's treatment plant consist of both construction and non-construction costs. Non-construction costs include, but are not limited to, planning, legal, design, preparation of this Agreement, permitting, bidding, redesign and rebidding (if necessary), construction observation, contract administration, testing, start-up, auditor's fees, permit fees, and all other similar Project expenses.

4.3. East Coventry has requested to connect to the Authority's Treatment Plant shortly after the execution of this Agreement to receive the immediate benefit of wastewater treatment before the Treatment Plant Expansion Project scope and costs are fully known or the construction is completed. There is a risk that the scope, costs and completion time could change substantially as the Project develops. No planning, design or permitting has yet been prepared or approvals obtained. No preliminary treatment requirements for the Expansion Project have been received. No bids for the Expansion Project have been received. The premise of the Project is that all

regulatory approvals can be obtained, and the concept for the plant expansion is based on 2001 regulations. East Coventry is to be solely responsible for the payment of all actual construction and non-construction costs of the Treatment Plant Expansion Project, which may be greater than or less than the estimated Project costs stated above in Section 4.1. The estimated costs of the Expansion Project identified above are cost opinions currently based on limited detail. East Coventry will be responsible for the payments due for all change orders and all other costs and expenses that arise during the course of the Expansion Project. Neither North Coventry nor the Authority will be responsible for the payment of any of the Treatment Plant Expansion Project costs.

4.4. East Coventry will pay Authority Three Hundred Thousand Dollars (\$300,000.00) at the time of the signing of this Agreement, which amount is meant to be used for the payment of the engineering and other non-construction costs of the Treatment Plant Expansion Project anticipated through the time of the receipt of construction bids. This amount is to be placed in a separate Construction Fund Account by Authority and is to be used by Authority for the payment of actual invoices and costs incurred in proceeding with the engineering fees, legal fees, permits, and administration costs of the Treatment Plant Expansion Project. Payments will be made upon approval by Authority of Requisitions submitted. Copies of approved Requisitions with supporting documentation will be provided to East Coventry.

4.5. After the execution of this Agreement and the Authority's receipt of the Three Hundred Thousand Dollars (\$300,000.00) required in Section 4.4 above, the Authority's Engineer will begin the preparation of the requirements for DEP approval, design for bidding, and the bidding and contract drawings, specifications, and documents for the Treatment Plant Expansion Project, in accordance with the preliminary Anticipated Implementation Schedule in Section 4.12 hereafter. Updated estimates of project costs (i.e. updated construction cost opinions, plus updated estimates of non-construction costs) shall be provided by Authority to East Coventry at the following stages of the Expansion Project:

- A. 30 days after completion of Preliminary Design Report. The Report will be based upon the Part 1 NPDES discharge permit issued by the Pennsylvania Department of Environmental Protection;
- B. 30 days after submittal of the Water Quality Management Part 2 Permit application to the Pennsylvania Department of Environmental Protection;
- C. 30 days prior to advertising for bids;
- D. 30 days after receipt of bids.

East Coventry will be given the opportunity to review the design and bidding documents. East Coventry may make suggestions concerning these documents, but the decision concerning the final design, specifications, and bidding documents shall be made solely by Authority.

4.6. After receipt of bids, and provided that the total of the construction contract bids received from the apparent lowest responsible bidders does not exceed One Hundred Ten Per Cent (110%) of the last updated opinion of probable construction costs issued by the Authority's Engineer prior to bidding, the Authority may proceed with the awarding of the construction contracts without any approval from East Coventry.

4.7. If, after receipt of bids, the total of the construction contract bids received from the apparent lowest responsible bidders does exceed One Hundred Ten Per Cent (110%) of the last updated opinion of probable construction costs issued by the Authority's Engineer prior to bidding, Authority and East Coventry shall review the bids received and collectively evaluate what revisions, if any, may be possible to reduce the cost of the construction contracts. If, within forty (40) days of the receipt of bids, both the Authority and East Coventry agree that the contracts should be awarded based upon the bids received, the Authority shall proceed with the awarding of the construction contracts.

If it is necessary to redesign the plant expansion and/or rebid the construction contracts, a revised opinion of probable construction costs shall be issued by the Authority's Engineer. After receipt of the "rebid", and provided that the total of the construction contract bids received from the apparent lowest responsible bidders does not exceed One Hundred Ten Per Cent (110%) of the revised opinion of probable construction costs issued by the Authority's Engineer prior to the "re-bidding", the Authority may proceed with awarding of the construction contracts without any approval from East Coventry.

If, after receipt of the "rebid", the total of the construction contract bids received from the apparent lowest responsible bidders does exceed One Hundred Ten Per Cent (110%) of the revised opinion of probable construction costs issued by the Authority's Engineer prior to rebidding, East Coventry agrees that it will either:

A. Within forty (40) days of the receipt of the rebids, agree that the Authority proceed to award the construction contracts.

B. Stop any further connections to East Coventry's collection system that discharge into the Authority's system, until the Treatment Plant Expansion Project is funded at One Hundred Ten Per Cent (110%) of the total construction contract bid amounts. (Note: the solution to the eventual funding may be the result of further redesign, further rebidding, and/or further negotiation and cost sharing between the parties, or other alternatives, etc.)

4.8. Within thirty (30) days after the award of the construction contracts by the Authority, East Coventry agrees to pay to the Authority any additional sum of money necessary to provide that the Authority's Construction Fund Account contains a balance at least equal to the remaining estimated non-construction Project costs and One Hundred Ten Per Cent (110%) of the Project construction costs (based upon the construction contracts awarded).

4.9. The amounts paid by East Coventry to the Authority under Sections 4.4, 4.8, and 7.4(B) of this Agreement will be placed in the Authority's Construction Fund Account by the Authority, and will be used by the Authority for the payment of construction costs, non-construction costs, change orders, and related Treatment Plant Expansion Project expenses. The Construction Fund Account shall be an interest-bearing account, with interest being used for the Project costs. Payments will be made from the Construction Fund Account upon the approval of the Authority of Requisitions submitted. Copies of Requisitions with supporting documentation scheduled for action by the Authority will be provided to East Coventry seven (7) days prior to the Authority meeting where action is scheduled to be taken on the Requisitions.

The Authority's Engineer shall monitor the balance remaining in the Construction Fund Account, and compare the remaining balance with the amount of work, including change orders, remaining to complete the Project. If, during the construction phase of the Treatment Plant Expansion Project, the amount remaining in the Construction Fund Account is less than the amount at any time or times determined by the Authority's Engineer to be needed to complete the wastewater Treatment Plant Expansion Project, East Coventry will pay to Authority the additional amount or amounts determined by the Authority's Engineer and the Authority to be necessary. The additional amount(s) are to be paid by East Coventry within thirty (30) days of the notification from the Authority to East Coventry of the additional amount(s) which, from time to time, are necessary.

4.10. After the Certificate of Substantial Completion has been issued by the Authority's Engineer and approved by the Authority, East Coventry will be a bulk customer of the Authority's expanded wastewater treatment plant, subject to the limitations in this Agreement. The Authority shall, at all times, be the sole owner of the original treatment plant facilities and of all of the additional treatment plant facilities constructed during the Treatment Plant Expansion Project.

4.11. After final payment to all of the construction contractors, the Authority's Engineer will issue a Report of Final Project Costs. Provided that all payments required by this Agreement have been made by East Coventry to Authority, after approval by the Authority of the Report of Final Project Costs, any balance remaining in the Construction Fund Account, including remaining interest, if any, shall be paid to East Coventry.

4.12. Anticipated Implementation Schedule. A preliminary schedule for implementing the Project is included in this Section. The schedule is labeled "preliminary" at this time because the full scope of some activities is not fully known, nor is the response time from governmental and regulatory agencies known. The schedule is subject to change as the Project develops.

<u>Task</u>	<u>Estimated Duration (months)</u>	<u>Cumulative Time (months)</u>
1 - DEP conditional approval of E. Coventry Act 537 Plan	---	---
2 - Intermunicipal Agreements executed	---	---
3 - Approval to receive limited flow from East Coventry prior to completion of Expansion Project (Note 1)	---	---
4 - Prepare and submit N. Coventry Act 537 Plan of Study	1	---
5 - DEP approval of N. Coventry Act 537 Plan of Study	2	start of time
6 - Prepare N. Coventry Act 537 Plan for Plant Expansion	3	3
7 - DEP review and approval of N. Coventry Act 537 Plan	4	7
8 - Design, permit applications, bid documents (12 month duration)		
8(a) Preliminary Design Report and 30% Design Review	4	11
8(b) 60% Design Review	3	14
8(c) Submit Part 2 Permit Application to DEP	2	16
8(d) 95% Design Review	(2)	
9 - DEP review complete, all permits issued	4	20
8(e) Finalize Plans, Specifications, and Bid Documents	1	21
10 - Authorization to advertise for bids	1	22
11 - Copy, distribute documents, receive bids	2	24
12 - Review bids, bid recommendation	1	25
13 - Notice to East Coventry of required funds, if any	---	25
14 - Receipt of project funds from East Coventry (30 days)	1	27
15 - Issue Notice of Award to lowest responsible bidders	---	27
16 - Preparation, review, execution of contract documents	2	29
17 - Issue Notice to Proceed	1	30
18 - Construction (14 month duration)		
18(a) 30% Construction review	4	34
18(b) 60% Construction review	4	38
18(c) Substantial Completion, Certificate of Substantial Completion to be issued, full flow allocation for East Coventry now		

available	4	42
18(d) Final inspection, final payment to contractors	2	44
19 - Project complete, Report of Final Project Costs to be issued, unused project funds returned	1	45

Notes:

(1) Beginning of actual discharge of flow from East Coventry is dependent on construction of certain East Coventry conveyance facilities. That construction will occur concurrently with the Expansion Project, but does not further impact completion of the above tasks.

ARTICLE V

Payment to Authority for Share of Existing Facilities

5.1. The Authority has determined that the net cost basis of the Authority's existing treatment plant facilities is Five Million Six Hundred Thirty-eight Thousand Four Hundred One Dollars (\$5,638,401.00). This cost basis is calculated based upon the actual expenditures at the treatment plant since 1960 and escalated to September, 2002 values, as provided in Exhibit H.

5.2. In addition to all amounts required to be paid by East Coventry to Authority for the Treatment Plant Expansion Project, East Coventry agrees to pay to Authority One Million Four Hundred Sixty-four Thousand Dollars (\$1,464,000.00), which represents East Coventry's contribution toward the portion of the Authority's existing wastewater treatment plant anticipated to be used by East Coventry and East Coventry's contribution toward the Purchase Price of the additional 4.45 acres of land being purchased by the Authority from East Coventry Township. The required payment of One Million Four Hundred Sixty-four Thousand Dollars (\$1,464,000.00) is based upon East Coventry's allocation of 510,000 gallons of available treatment capacity per day of the 2,010,000 gallons per day total treatment plant capacity available after completion of the Treatment Plant Expansion Project. East Coventry's 25.4% of \$5,638,401.00 equals \$1,432,154.00, together with \$31,750.00 toward the land acquisition, for a total of \$1,463,904.00, which is rounded to \$1,464,000.00. East Coventry agrees to pay to the Authority the \$1,464,000.00 as follows:

(a) \$1,250,000.00 at the same time as East Coventry is required to pay to the Authority the 110% of the total of the construction contract bid amounts received from the apparent lowest responsible bidders for all of the required construction contracts under Sections 4.6 and 4.7 of this Agreement.

(b) \$214,000.00 on or before thirty (30) days after the issuance of the Certificate of Substantial Completion by the Authority's Engineer.

In accordance with the provisions of Section 7.4 of this Agreement, payment by East Coventry for sewer permits in excess of the Project construction costs and Project non-

construction costs shall be credited against the above \$1,464,000.00. The above payments, as received, will be deposited to the Authority's accounts.

5.3. The payment by East Coventry of One Million Four Hundred Sixty-four Thousand Dollars (\$1,464,000.00) is a fixed cost, and is not subject to further cost escalation after execution of this Agreement.

5.4. All of the Authority's existing treatment plant facilities shall continue to be solely owned by the Authority. No payments made by East Coventry pursuant to any provision of this Agreement shall entitle East Coventry to ownership of the existing or expanded treatment plant, or any interest therein, except for the treatment capacity as expressly granted to East Coventry pursuant to this Agreement.

ARTICLE VI

East Coventry Sewer System

6.1. East Coventry shall, at its sole cost and expense, construct its own wastewater collection facilities within East Coventry Township. The East Coventry wastewater collection system shall be solely owned by East Coventry, and East Coventry will be responsible for the proper repair and maintenance of the East Coventry wastewater collection system.

6.2. East Coventry's Engineer shall inspect the construction of the East Coventry wastewater collection system, and shall, upon completion of each section of construction of the East Coventry conveyance/collection system, issue a written Certificate of Completion to East Coventry and the Authority for each section of the construction which could discharge wastewater for treatment that this section of the East Coventry wastewater collection system has been properly completed and is available for conveyance of wastewater to the Authority's wastewater treatment plant.

6.3. East Coventry's wastewater collection system shall connect to the Authority's treatment plant facilities at a location or locations approved by the Authority.

6.4. East Coventry service area is the East Coventry Act 537 Plan sewer service area as approved by the Pennsylvania Department of Environmental Protection. The initial service area proposed by East Coventry is generally north of Bickel's Run and north of Pigeon Creek and within the East Coventry Township boundaries, as shown on Exhibit "C" attached hereto. Nevertheless, East Coventry may not exceed the flow limitations of this Agreement, or any modifications thereto.

6.5. Existing Improved Properties located in East Coventry Township which are currently connected to the Authority's wastewater collection and treatment system will remain customers of the Authority and will not become customers of East Coventry. The flows from

these Improved Properties will not be included as a part of the East Coventry flow allocation under this Agreement.

ARTICLE VII

Acceptance of East Coventry Sewage Flows Prior to Completion of Treatment Plant Expansion Project

7.1. The Authority has previously established 300 gallons per day as the equivalent flow for each residential unit or for each EDU. East Coventry agrees with the use of 300 gallons per day per EDU for the period prior to the completion of the Treatment Plant Expansion Project.

7.2. Within 120 days of the date of this Agreement, East Coventry shall purchase sewer connection permits from the Authority for 800 EDU's of capacity by payment to the Authority of Four Million Six Hundred Thousand Dollars (\$4,600,000.00). Credit shall be given to East Coventry for the Three Hundred Thousand Dollars (\$300,000.00) paid under Section 4.4 of this Agreement. Upon receipt of the net payment of Four Million Three Hundred Thousand Dollars (\$4,300,000.00), the Authority shall issue a bulk sewer permit for these 800 EDU's. East Coventry, in its sole discretion, shall thereafter allocate the EDU's which East Coventry has purchased to those property owners within East Coventry Township. East Coventry shall give written instructions from its Township Secretary to North Coventry Township and the Authority to sign sewer modules for specific projects within East Coventry Township which have been allocated wastewater capacity by East Coventry as a part of the 800 EDU's purchased herein, and stating the number of EDU's allocated to that particular project by East Coventry.

7.3. The Authority agrees to begin accepting wastewater from the East Coventry collection system upon approval of sewer planning modules from East Coventry projects by DEP and upon the receipt of the Certificate of Completion by East Coventry's Engineer that the East Coventry wastewater collection system has been properly completed.

7.4. Upon receipt of the Four Million Three Hundred Thousand Dollar (\$4,300,000.00) payment from East Coventry, the Authority shall:

A. Deposit One Million Four Hundred Sixty-four Thousand Dollars (\$1,464,000.00) as funds of the Authority, which represents the amount required to be paid by East Coventry as its contribution under Article V of this Agreement.

B. Deposit Two Million Eight Hundred Thirty-six Thousand Dollars (\$2,836,000.00) into the Authority's Construction Fund Account to be credited by the Authority against the payments required to be made by East Coventry for the Project construction costs and the Project non-construction costs that are required to be paid by East Coventry under Article IV of this Agreement.

7.5. Until completion of the Treatment Plant Expansion Project, East Coventry shall give no allocation to industrial users discharging process wastewater that would require pre-treatment of sewage effluent and wastewater in accordance with the United States Environmental Protection Agency (U.S. EPA) guidelines, procedures and categorical standards published in 40 CFR and future revisions thereto.

7.6. By the 10th day of each month after East Coventry has begun to allow connections to its wastewater collection system, East Coventry will provide the Authority with a written report of the number of single family units and other EDU's which have been connected to the East Coventry wastewater collection system during the previous month and the date of each connection based upon "Use and Occupancy Permits" as have been issued for the particular uses connected to the East Coventry Township collection and conveyance system. Sewer rental bills during the first quarter that an EDU is connected will be pro-rated on a daily basis in that quarter, beginning with the date that the East Coventry Township's Use and Occupancy Permit was issued. Quarterly bills for all connections made to the East Coventry wastewater collection system will be sent as a bulk bill to East Coventry on or about the 15th day following each calendar quarter. In computing the bill to East Coventry, the amount of the quarterly sewer rental for each EDU connected to the East Coventry wastewater collection system will be the same amount charged by the Authority to its customers (currently One Hundred Dollars {\$100.00} per quarter). Payment of invoices shall be as stated in Section 10.7 of this Agreement. These quarterly EDU charges to East Coventry shall continue until the Authority's Engineer has issued the Certificate of Substantial Completion for the Treatment Plant Expansion Project.

7.7. The maximum available EDU's for purchase by East Coventry shall remain at 800 EDU's until the Certificate of Substantial Completion has been issued by the Authority's Engineer for the Treatment Plant Expansion Project.

7.8. Until such time as the Certificate of Substantial Completion of the Treatment Plant Expansion Project has been issued, it is recognized that the capacity for the Authority's treatment plant to accept wastewater from East Coventry Township could be limited by committed EDU's within North Coventry Township and the actual flows recorded at the Authority's wastewater treatment plant. East Coventry releases Authority, and its Board members, from any and all claims, actions, causes of action, of any kind whatsoever, both in law or in equity, that East Coventry now has or may have, should the Authority be unable to accept wastewater flow from East Coventry in accordance with this Agreement because of delays in the completion of the construction of the expansion of the Authority's treatment plant, the certification that the treatment plant has been completed, or because of a prohibition, ban, or restriction from accepting new connections to the Authority's sewer treatment plant imposed by the County of Chester, the Commonwealth of Pennsylvania, the DEP, the Environmental Protection Agency, or any other department or agency of the Commonwealth of Pennsylvania or the United States of America, or any governmental unit, agency, or subdivision thereof, whatsoever. All projections and evaluations shall be performed by the Authority or its Engineer in accordance with Title 25, Chapter 94, of the Pennsylvania Department of Environmental Protection Rules and Regulations in effect at the time the evaluation is performed.

7.9. At any time that the treatment plant, after completion of the Project, is re-permitted at a higher capacity, then the excess of such total actual capacity over the designed and rated capacity shall be allocated Seventy-four and Six-Tenths Per Cent (74.6%) to Authority and Twenty-five and Four-Tenths Per Cent (25.4%) to East Coventry. Likewise, after the completion of the Project, if the total actual treatment plant capacity shall be less than the design or rated capacity of the upgraded treatment plant due to a change in regulations to more stringent effluent standards or to other causes beyond the control of the Authority, then such reduced capacity shall be similarly allocated, Seventy-four and Six-Tenths Per Cent (74.6%) reduction to Authority and Twenty-five and Four-Tenths Per Cent (25.4%) reduction to East Coventry, as a reduction in the respective capacities after the completion of the Project.

ARTICLE VIII

Flow Metering and Wastewater Sampling

8.1. All wastewater flow discharged from one party's system into another party's system shall be metered. Flow meters shall be the continuous measuring type that establishes daily flow measured as gallons per day, that include a totalizer and recording chart and may utilize digital recording of flow data with telemetering.

A. All flow that is pumped or flow that is under pressure in a pipeline shall utilize a magnetic flow meter having a minimum system accuracy at the metering point of plus or minus three per cent of actual flow (metering system includes primary measuring element, transmitter, totalizer, recorder and re-transmitter.)

B. All flow that is not pumped, and is conveyed by gravity, shall utilize an area-velocity flow meter having a minimum system accuracy at the metering point of plus or minus five per cent of actual flow (metering system includes primary measuring element, transmitter, totalizer, recorder and re-transmitter). In addition to the area-velocity flow meter, the installation shall include a standard flume (Palmer Bowlus, Parshall or other non-clog design) which shall be used as a calibration standard for the area-velocity flow meter.

Flow meter system accuracy shall be determined as the square root of the sum of the squares of the accuracy statement of each individual component of the system. All flow meter installations shall be installed in accordance with the manufacturer's recommendations and good design practice. Based on the type of meter installation, these recommendations may include requirements for smooth, tranquil upstream flow conditions, smooth, level flow through flumes, free discharge from flumes, minimum length of straight pipe upstream of the primary measuring device, NEMA 4X classification, and corrosion resistance. Flow meter requirements are subject to change to incorporate future improvements in technology and the most recent specifications from the manufacturer.

Flow Metering of East Coventry Flows Discharged Into Authority System

8.2. The East Coventry sewer service area, under consideration in this Agreement, is proposed to be connected to the Authority's wastewater facilities at only one location. That location is at the Authority's wastewater treatment plant. A magnetic flow meter will be installed on the discharge pipe from the East Coventry's collection system, where the pipe enters the wastewater treatment plant. The magnetic flow meter will include a totalizer, recording chart, and meter bypass for maintenance of the meter. The cost of the flow meter is included in the cost for the Treatment Plant Expansion Project.

8.3. Upon completion of construction, the Authority will own any flow meters that measure flow from East Coventry into the Authority system. The Authority shall be responsible to schedule with the meter manufacturer or other qualified testing agent, on at least a semi-annual basis, the calibration of the flow meter. Copies of the meter calibration certification shall be sent to East Coventry. East Coventry may contest the meter calibration certification report within thirty (30) days of receipt of the meter calibration report. If the meter calibration certification report is not contested within the thirty (30) days, the report shall be deemed accepted, and not subject to further dispute.

8.4. The flow meter shall be owned by the Authority, and the Authority shall be responsible for the operation, maintenance, and replacement of the flow meter. Where clearly identifiable, the costs of operation, maintenance and replacement of the flow meter will be invoiced to East Coventry. Certain costs that are common for all equipment/instruments at the plant, like electric, which is not easily definable for the specific flow meter, will be included in the overall operation and maintenance costs of the treatment plant, which costs will be shared by East Coventry and Authority in accordance with this Agreement.

8.5. In the event the flow meter is out of service, an estimate of flow will be performed by the Authority based on flow records of the recent past. The estimate will incorporate sound engineering principles, and be adjusted as necessary to account for any unique circumstances. Unique circumstances that would require an adjustment to historical flow records, would include items like extreme wet weather events (hurricane, flood), the recent addition of a large number of connections in East Coventry that would not be reflected in the historical flow records, or other circumstances. If the East Coventry sewer service area is serviced by a water system, water meter readings may be utilized to perform the estimate. The Authority will provide an explanation and calculations for any estimated flows.

8.6. East Coventry connections to the Authority's system at additional point(s) other than contemplated in Section 8.2 can only be made upon approval of the Authority. A flow meter will be required at each point(s) of connection. The flow meter shall be similar in all respects to the meter described above. Design and specifications for additional flow meters shall be submitted to the Authority for review and approval. The costs for flow meters at additional connection points than that described in Section 8.2 shall be paid entirely by East Coventry. Once construction is certified to be complete by the Engineer for East Coventry, and the meter is

installed, calibrated, and certified, the Authority will assume responsibility thereafter for calibration and any future maintenance or replacement. The actual costs of calibration, operation, maintenance and replacement of the flow meter will be included in the operating and maintenance costs of the treatment plant to be shared by East Coventry and Authority in accordance with this Agreement.

8.7. If wastewater flows are insufficient at future points of connection to provide an accurate measurement by a flow meter, the amount of flow shall be determined by the Authority. First, the Authority will determine the number of EDU's connected in the non-metered sewer service area of East Coventry. The number of EDU's will be based on the Authority's adopted "Schedule of EDU's for Type of Use". Next, the number of EDU's will then be multiplied by the Authority's then prevailing unit rate of flow for an EDU (currently, the Authority has established 300 gallons per day as the equivalent flow for each residential unit or for each EDU). The resultant product will be the calculated average daily wastewater flow from the non-metered sewer service area in East Coventry.

The calculated average daily wastewater flow will then be multiplied by the number of days in that month to determine the total flow that month from the non-metered sewer service area, which will then be added to the metered flow from the East Coventry collection system to determine the total flow from the East Coventry collection system that is discharged into the Authority's wastewater facilities. This value for total flow will be used in Article 10 to calculate the charges for treatment of East Coventry wastewater.

The Authority has previously established 300 gallons per day as the equivalent flow for each residential unit or for each EDU. After completion of the Expansion Project, East Coventry may request the use of a different value, and the Authority will consider the request. Any request to use a different value should include documentation that incorporates sound engineering principles. An example method to calculate the gallons per day for an EDU would be to divide the total recorded daily flow through an individual collection system flow meter by the number of residential units of the same or similar type connected to and flowing through that individual flow meter.

8.8. Samples of wastewater discharged by East Coventry to the Authority's wastewater facilities may be sampled and analyzed by the Authority on a random basis to insure compliance with the terms of this Agreement. However, compliance with the allowable discharge criteria shall be the responsibility of East Coventry. The costs of sampling and laboratory analysis will be included in the operation costs of the treatment plant.

Flow Metering of Authority Flows Discharged into the East Coventry Collection System

8.9. There is no sewer service area in North Coventry under consideration at this time that is proposed to be connected to any East Coventry collection system. If, however, at some future time, due to topography, cost effectiveness, etc., a sewer service area from North Coventry is connected to an East Coventry collection system, all wastewater flow discharged from North

Coventry into the East Coventry collection system shall be metered. Meter requirements shall comply with Section 8.1.

8.10. Upon completion of construction, East Coventry will own any flow meters that measure flow from Authority into the East Coventry system. East Coventry shall be responsible to schedule with the meter manufacturer or other qualified testing agent, on at least a semi-annual basis, the calibration of the flow meter. Copies of the meter calibration certification shall be sent to Authority. The Authority may contest the meter calibration certification report within thirty (30) days of receipt of the meter calibration report. If the meter calibration certification report is not contested within the thirty (30) days, the report shall be deemed accepted, and not subject to further dispute.

8.11. The flow meter shall be owned by East Coventry, and East Coventry shall be responsible for the operation, maintenance, and replacement of the flow meter. The actual costs of operation, maintenance, and replacement of the flow meter shall be the responsibility of the Authority and invoiced in arrears quarterly by East Coventry.

8.12. In the event the flow meter is out of service, an estimate of flow will be performed by East Coventry based on flow records of the recent past. The estimate will incorporate sound engineering principles, and be adjusted as necessary to account for any unique circumstances. Unique circumstances that would require an adjustment to historical flow records would include items like extreme wet weather events (hurricane, flood), the recent addition of a large number of connections in North Coventry that would not be reflected in the historical flow records, or other circumstances. If the Authority sewer service area is serviced by a water system, water meter readings may be utilized to perform the estimate. East Coventry will provide an explanation and calculations for any estimated flows.

8.13. Authority connections to the East Coventry system can only be made upon approval of East Coventry. A flow meter will be required at each point(s) of connection. The flow meter shall be similar in all respects to the meter described in Section 8.1. Design and specifications for flow meters shall be submitted to East Coventry for review and approval. The costs for flow meters shall be paid entirely by Authority. Once construction is certified to be complete by the Engineer for Authority and the meter is installed, calibrated and certified, East Coventry will assume responsibility thereafter for calibration and any future maintenance or replacement. The actual costs of calibration, operation, maintenance, and replacement of the flow meter will be the responsibility of Authority and invoiced in arrears quarterly by East Coventry.

8.14. If wastewater flows are insufficient at future points of connection to provide an accurate measurement by a flow meter, the amount of flow shall be determined by East Coventry. First, East Coventry will determine the number of EDU's connected in the non-metered sewer service area of Authority. The number of EDU's will be based on the Authority's adopted "Schedule of EDU's for Type of Use". Next, the number of EDU's will then be multiplied by the Authority's then prevailing unit rate of flow for an EDU (currently, the

Authority has established 300 gallons per day as the equivalent flow for each residential unit or for each EDU). The resultant product will be the calculated average daily wastewater flow from the non-metered sewer service area in North Coventry.

The calculated average daily wastewater flow will then be multiplied by the number of days in that month to determine the total flow that month from the non-metered sewer service area, which will then be added to the metered flow from the Authority's collection system to determine the total flow from the Authority's collection system that is discharged into the East Coventry collection facilities. This value for total flow will be deducted from East Coventry total wastewater flow used in Article 10 to calculate the charges for treatment of East Coventry wastewater.

The Authority has previously established 300 gallons per day as the equivalent flow for each residential unit or for each EDU. If, in the future, connections from an Authority sewer service area are connected to the East Coventry collection system, the Authority may request the use of a different value, and East Coventry will consider the request. Any request to use a different value should include documentation that incorporates sound engineering principles. An example method to calculate the gallons per day for an EDU would be to divide the total recorded daily flow through an individual collection system flow meter by the number of residential units of the same or similar type connected to and flowing through that individual flow meter.

8.15. Samples of wastewater discharged by Authority to the East Coventry collection system may be sampled and analyzed by East Coventry on a random basis to insure compliance with the terms of this Agreement. However, compliance with the allowable discharge criteria shall be the responsibility of Authority. The costs of sampling and laboratory analysis will be the responsibility of the Authority if the Authority is not in compliance with the standards contained in this Agreement. If the Authority is in compliance with the standards in this Agreement, then the costs shall be borne by East Coventry.

ARTICLE IX

Flow Allocation and Allowable Strength of Wastewater

9.1. Upon completion of the Treatment Plant Expansion Project and issuance of a Certificate of Substantial Completion by the Authority's Engineer, the Authority will allocate 510,000 gallons per day (gpd) of wastewater treatment capacity to East Coventry. East Coventry agrees that its flow is limited to specific Discharge Criteria, both flow and qualitative, as defined in Exhibit "D", attached hereto and made a part hereof. Further, East Coventry agrees that it will not discharge any Prohibited Wastes as defined in Exhibit "E", attached hereto and made a part hereof.

9.2. The allocation of 510,000 gpd is subject to regulatory action and acts of nature, and therefore shall not be construed to be an absolute value. Changes in the discharge criteria of the treatment plant, or changes in the definition of standard strength domestic wastewater by DEP or other regulatory agencies, may result in a lesser allocation. Acts of nature, beyond the control of the Authority, including hurricanes, floods, tornadoes, etc., may temporarily delay East Coventry's full use of the allocated capacity.

9.3. Compliance with all Discharge Criteria as stated in Exhibit "D" shall be the sole responsibility of East Coventry. On a monthly basis, the Authority will share flow metering data, and will share the results of any periodic sampling that is conducted. It is not anticipated that the Authority would initiate a sampling of flow from East Coventry at the early stages when there will be limited initial flow from East Coventry unless the Authority's plant is not meeting the criteria under the Authority's permit or an unusual occurrence is noted at the Authority's treatment plant.

9.4. The Authority will notify East Coventry, in writing, when the flow from East Coventry is measured at 80% of its Annual Average Daily Flow as shown on Exhibit "D". Upon notification, East Coventry shall implement a Wasteload Management Program to monitor and, if necessary, restrict additional connections to its system in order to meet East Coventry's responsibility that the Flow Criteria listed in Exhibit "D" are not exceeded. The Authority will provide similar notice to East Coventry when the flow from East Coventry is measured at 80% of its maximum monthly average flow, maximum weekly average flow, maximum daily flow, or peak instantaneous flow as shown on Exhibit "D". Upon notification, East Coventry agrees to investigate and, thereafter, report to the Authority, within ninety (90) days of the date of the Authority's notice, East Coventry's plan to manage/reduce flows in order to not exceed the Flow Criteria.

9.5. The Authority will notify East Coventry, in writing, when the flow from East Coventry is measured at 90% of its Annual Average Daily Flow as shown on Exhibit "D". To prevent an overload and/or permit violation to the treatment plant, East Coventry shall thereafter consult with the Authority before issuing any building permits which would provide for connections of Improved Properties to the East Coventry wastewater collection system. The Authority will provide similar notice to East Coventry when the flow from East Coventry is measured at 90% of its maximum monthly average flow, maximum weekly average flow, maximum daily flow, or peak instantaneous flow as shown on Exhibit "D". Upon notification, East Coventry agrees to investigate and, thereafter, report to the Authority, within ninety (90) days of the date of the Authority's notice, East Coventry's written plan to manage/reduce flows in order to not exceed the Flow Criteria. The written plan shall include, but not be limited to, a description of the proposed methods to reduce flows, a schedule to limit new connections and/or a commitment to plan for, and fund additional treatment capacity. The Authority shall review East Coventry's plan and may make suggestions concerning the plan. The Authority's review shall be to determine if the plan is reasonable, incorporates proven methods to manage/reduce flows and is implementable. The Authority will notify East Coventry, in writing, when the plan is acceptable. East Coventry agrees to consider suggestions from the Authority.

If, at any time after the ninety (90) day investigation period, East Coventry's flows exceed 95% of the allowable flows due to infiltration and/or inflow problems, East Coventry agrees that it will not issue any building permits for uses on Improved Properties which would be connected to the East Coventry wastewater collection system, unless approval for the connection is made in advance by the Authority.

9.6. The Authority will notify East Coventry, in writing, if the monthly flow from East Coventry exceeds the maximum monthly average flow and/or exceeds the annual average daily flow, as shown on Exhibit "D", for a period of ninety (90) consecutive days.

A. Upon notification of exceeding any of the Flow Criteria in Exhibit "D", East Coventry agrees to:

(1) Stop issuing any further building permits for uses which would connect to the East Coventry wastewater collection system, and

(2) Investigate and thereafter submit to the Authority, within one hundred twenty (120) days of the date of the Authority's notice, an Overload Remediation Plan to manage/reduce flows in order to maintain compliance with the Flow Criteria. Said Overload Remediation Plan shall include an implementation schedule showing the dates on which each step of the plan will be undertaken. Activities include, but may not be limited to, planning, design, financing, and construction, as may be necessary to provide the required capacities and/or eliminate the excess flows.

The Plan shall be reviewed by the Authority, and if deemed acceptable, a limited number of connections may be allocated to East Coventry during the implementation of the Overload Remediation Plan.

B. If, upon completion of the Overload Remediation Plan, East Coventry is able to demonstrate a reduction of flows, then restrictions/prohibitions to further building permits and connections, that were temporarily instituted by East Coventry, may be removed.

C. If, upon the completion of the implementation of the Overload Remediation Plan, East Coventry is not able to demonstrate a reduction of flows, then further connections to the East Coventry system shall be prohibited until such time as additional treatment capacity has been made available at the plant and provisions have been made to increase the flow allocation to East Coventry.

D. If, ninety (90) days after notification, the East Coventry monthly flow exceeds the Flow Criteria stated in Exhibit "D", Subsection I, East Coventry agrees to pay Authority a surcharge on the excess flow above the allowable flow. The surcharge for flow in excess of the allowable flow shall be calculated at the rate of Two Hundred Per Cent (200%), multiplied by the cost of treatment per gallon of wastewater during the month, multiplied by the number of gallons from East Coventry that are in excess of the Maximum Monthly Average Flow. If the

Authority determines that East Coventry is not making a good faith effort to reduce the excess flows, at the end of the calendar year, a similar Two Hundred Per Cent (200%) surcharge is to be paid by East Coventry if the Annual Average Daily Flow from East Coventry exceeds the flow criteria.

E. East Coventry agrees to pay any fines that are imposed by DEP or any other governmental agency due to violations at the treatment plant that are attributable to East Coventry's exceeding the Flow Criteria.

F. In addition to the penalty provisions of this Article, if, at any time, the flow from East Coventry's wastewater collection system exceeds the Flow Criteria, Authority, to the extent permitted by law, may pursue any one or more of the following additional remedies:

(1) Require East Coventry to purchase reserve capacity, if the Authority determines that such capacity exists, and the Authority is willing to sell such capacity, with the price being established by the Authority;

(2) Pursue an injunction or any other equitable remedy in any Court or agency of competent jurisdiction;

(3) Pursue damages or any other legal remedy in any Court of competent jurisdiction; or

(4) Pursue any other remedy or administrative order available at law, in equity, or administrative proceeding or otherwise.

9.7. The Authority will advise East Coventry, in writing, if the Authority's random sampling of the discharge from East Coventry does not comply with the Qualitative Criteria on Exhibit "D", or if the discharge contains any Prohibited Waste listed on Exhibit "E". Upon notification, East Coventry shall identify and eliminate the source of the Prohibited Waste.

A. The Authority will impose a surcharge for any non-conforming wastewater discharged from East Coventry to the Authority's system. The surcharge will be based on a composite flow proportioned sample taken at the point of connection to the Authority's system.

The surcharge will be calculated based upon the following formula:

$$\% \text{ Surcharge} = 0.5(\text{BOD}_5 - 204) + 0.4(\text{TSS} - 240) + 0.05(\text{NH}_3\text{-N} - 30) + .05 (\text{P} - 10)$$

The cost of treatment per gallon is multiplied by the percent surcharge for nonconforming wastewater, and the resultant product is then added to the cost of treatment per gallon of wastewater to determine the Total cost of treatment per gallon. The Total cost of treatment per gallon will be multiplied by the total gallons recorded (and/or calculated), as discharged from East Coventry to Authority during that billing period, and then multiplied by the

number of days in the billing period to determine the total treatment charge for East Coventry wastewater.

Notes:

1. When a value of BOD, TSS, NH_3N , and (or) P is less than the maximum allowable concentrations set forth in the formula, then the maximum allowable value shall be used.
2. The concentrations used in the formula shall be the mean values for any samples analyzed for that period.
3. All sample values are in mg/l.

Payment of the surcharge shall not be deemed as acceptance of a non-conforming waste by the Authority. In addition to the payment of the surcharge, East Coventry agrees that if repeated assessments of the surcharge occur, the Authority may (a) require pre-treatment of the offending wastewater by East Coventry, (b) compel East Coventry to terminate the particular discharger(s) responsible for the non-conforming waste from discharging into the East Coventry system, or (c) if this discharger cannot be identified by East Coventry, require East Coventry to refuse further connections to the East Coventry collection system, all in order to prevent discharges deemed harmful or to have a deleterious effect upon the treatment plant or receiving stream.

B. The surcharge formula specified in 9.7A applies to non-conforming waste that exceeds normal strength sanitary sewage. East Coventry further agrees to pay any charges for any other non-conforming waste that contains any one or more of the prohibited substances listed in Exhibit "E" which can be shown as being directly attributable to East Coventry wastewater passing through one of the East Coventry connection points. Additional charges may include fines, repairs to the treatment process, additional laboratory expenses, additional sludge disposal expenses, legal expenses, engineering expenses, etc.

9.8. The discharge of any industrial wastewater into the Authority's sanitary sewer system, pump stations or treatment plant is prohibited, except as provided for below in this Section. Industrial wastes are typically more concentrated in nature, and contain toxins that are not amenable to biological treatment and/or may inhibit the normal biological process. East Coventry agrees to prohibit the discharge into the East Coventry collection system of all industrial wastewaters, unless written approval for such discharge is obtained from the Authority, and East Coventry adopts pretreatment standards in compliance and with approval of EPA, DEP, the Authority, and other appropriate agencies. East Coventry agrees that if any form of industrial wastewaters are accepted in the future by the Authority, East Coventry will pay all the costs for additional sampling, treatment, and administrative charges for monitoring and processing of any industrial wastewaters discharged to East Coventry's collection system.

9.9. Private or Bulk Dumping Prohibited. East Coventry agrees that it shall not permit the dumping of bulk wastewater, septage, sludge, or other wastes into its wastewater collection system by private haulers or other persons engaged in the business of transporting wastewater, septage, sludge, or other wastes.

ARTICLE X

Charges for Treatment of East Coventry Wastewater

10.1. Upon completion of the Treatment Plant Expansion Project and issuance of a Certificate of Substantial Completion by the Authority's Engineer, East Coventry and the Authority will share the annual operating costs for the wastewater treatment plant in proportion to the volume of wastewater discharged by each party into the wastewater treatment plant. Monthly billings to East Coventry based upon proportionate flow shall commence on the next full month after the Certificate of Substantial Completion is issued.

10.2. The Authority will separate its operating costs between treatment plant costs and collection system costs.

10.3. This Agreement envisions East Coventry connecting and discharging directly at the treatment plant and not utilizing any portion of the Authority's collection system. Under this concept, only East Coventry's proportionate share of the operating costs for the treatment plant would be assessed to East Coventry. If, however, East Coventry connects to the Authority's collection system at some future time, charges for use of the Authority's collection system may be applied, and East Coventry agrees to pay the charges.

10.4. The Authority's fiscal year is from February 1 to January 31. On an annual basis, the Authority will prepare an Estimate for the Operation Costs for the wastewater treatment plant for the upcoming year. The Estimate of Operation Costs will be forwarded to East Coventry. Based on the Estimate, and the anticipated connections to the East Coventry collection system during the upcoming year, East Coventry can establish an estimated user charge for its connections. East Coventry shall receive the Estimate for Operating Costs on or before February 28 of each year. On or before November 1 of each year, the Authority shall provide East Coventry with a Preliminary Estimate of Operating Costs based upon information then available, for East Coventry's use in preparing its budget in accordance with the Township Code.

10.5. On a monthly basis, the Authority will review the flow meter records, and calculate East Coventry's percentage share of the total flow recorded at the treatment plant. East Coventry's percentage share will be multiplied by one-twelfth (1/12) of the Estimate of Annual Operation Costs for the wastewater treatment plant. The product of this multiplication will be the estimated monthly charge for treatment of East Coventry wastewater.

10.6. Based on the resultant charge in Section 10.5, the Authority will invoice East Coventry fifteen (15) days after the close of each month, an estimated monthly treatment charge, for treatment services provided during the previous month. The minimum monthly payment of Three Thousand One Hundred Twenty-five Dollars (\$3,125.00), as provided in Section 10.9C, shall be applied.

10.7. Payment for wastewater treatment services, surcharges for flows which exceed the Discharge Criteria, and any other invoice sent in accordance with this Agreement shall be made by East Coventry within forty-five (45) days of the date of the Authority's invoice. If payment is not made by East Coventry within forty-five (45) days of the date of the invoice, East Coventry agrees to pay to the Authority interest on the unpaid amount at the rate of Six Per Cent (6%) per annum, beginning forty-five (45) days after the date of the invoice and until full payment is made.

10.8. At the end of the Authority's fiscal year, an audit of the operation and maintenance costs will be performed by an independent certified public accountant. The operating and maintenance costs will be reduced by any operating grants received by the Authority. Based upon the audit of the previous year's operating costs for the wastewater treatment plant, and based on the total flows recorded as discharged from each party, a reconciliation calculation will be performed to determine if there was any underpayment or overpayment on the amount due from East Coventry, based on the actual operating expenses. East Coventry will be invoiced for any underpayments, and the payment of the invoice shall be due within forty-five (45) days of the date of the invoice. East Coventry shall pay interest at the rate of Six Per Cent (6%) per annum after forty-five (45) days and until the invoice is paid. Overpayments will be applied to future invoices.

10.9. A listing of the items that are typically included in the operating cost of the wastewater treatment plant are included in Exhibit "F". A copy of the Current Annual Budget for the Authority is attached as Exhibit "G", and a copy of each year's operating budget shall be forwarded to East Coventry within thirty (30) days of the Authority's adoption of the budget.

A. The listing of items is not fixed, and items may be added or deleted as circumstances dictate.

B. The parties acknowledge that not all costs for the operation of the treatment plant can be readily segregated, so, to simplify the calculations for cost sharing, the following items and related percentages are adopted:

<u>Item</u>	<u>Portion Allocable to Treatment Plant</u>
(1) Routine engineering services to Authority	50%
(2) Routine legal services to Authority	50%

(3) Wages, taxes, benefits paid to Authority operating personnel	80%
(4) Wages, taxes, benefits paid to Authority administrative personnel	50%
(5) Administrative expenses	50%
(6) General Insurance (not specific to plant)	80%

C. The parties acknowledge that in the initial period after the Treatment Plant Expansion Project is completed, East Coventry may only have a small number of connections discharging to the treatment plant. The proportioning of operating costs based only on the East Coventry share of total plant flow would create a disproportionate burden on the Authority. Certain expenses will be incurred by the Authority regardless of the amount of wastewater discharged by East Coventry. These "fixed" expenses will increase with the completion of the Treatment Plant Expansion Project and will increase with the additional treatment facilities required to be maintained and available for service.

After East Coventry becomes a bulk user, invoices will be sent to East Coventry on a monthly basis. East Coventry agrees to pay to the Authority each month (a) East Coventry's proportionate share of the operating costs of the treatment plant, based upon flow, or (b) a minimum monthly payment of Three Thousand One Hundred Twenty-five Dollars (\$3,125.00), whichever is greater.

D. The Authority's budget for the current fiscal year is attached to this Agreement.

10.10. In the event of a dispute regarding treatment charges, East Coventry shall provide written objection to the Authority. The parties agree to review the calculations and attempt to resolve the dispute. Unresolved issues shall be settled in accordance with Article XVI. East Coventry shall continue to make full payment for each invoice until such time as the dispute is resolved. In the event East Coventry is correct in its assessment of treatment charges, all overpayments shall be subject to simple interest at the rate of Six Per Cent (6%) per annum, beginning from the date when the overpayment was received by the Authority.

ARTICLE XI

Covenants of the Parties

11.1. Covenants of both East Coventry and Authority: East Coventry and Authority covenant and agree with the other that each will, at all times:

A. Maintain its wastewater system in good repair, working order, and condition.

B. Continuously operate its wastewater system, subject to "force majeure" or all orders, directives, and regulations of the Chester County Health Department, DEP, the

Environmental Protection Agency, and any existing or successor agencies with authority to regulate and control the operations of the respective wastewater systems.

C. From time to time, make all necessary repairs, renewals, and replacements thereof, and all improvements thereto in order to maintain adequate service.

D. Make available at all reasonable times to the other parties or their agents, servants, employees, and representatives access to all records insofar as the same relate to matters covered in this Agreement. Each party also agrees that the other parties, their agents, servants, employees, and representatives shall have access to the physical facilities of the other parties hereto at reasonable times in order to assure compliance with the terms and provisions of this Agreement.

11.2. Covenants of Authority: In addition to the covenants under Section 12.1, Authority covenants and agrees that it will, at all times:

A. Operate and maintain the wastewater treatment plant and make such alterations, repairs, replacements, renewals, and improvements thereto, and to keep the equipment and facilities therein as may be necessary to keep the treatment plant in good repair and efficient operating condition and to meet the standards prescribed by the DEP, United States Environmental Protection Agency, and any other state or Federal governmental authority having jurisdiction thereof. Operation of the plant shall be under the supervision of a treatment plant operator(s) certified by the Commonwealth of Pennsylvania.

B. At all times during the term of this Agreement, for the purpose of performing and carrying out the duties imposed upon the Authority's Engineer by this Agreement, employ as consulting engineers, an independent agency or firm or an independent professional engineer having a favorable reputation for skill and experience in the construction and operation of sewer systems and registered in the Commonwealth of Pennsylvania. The Authority's Engineer shall make and file annually with East Coventry a written report upon the treatment plant and the operation thereof during the prior fiscal year, setting forth its recommendations for the ensuing year and an Estimate of Operating Costs for the treatment plant for the ensuing year. In addition, the Engineer shall provide a copy of the Authority's Chapter 94 Annual Wasteload Management Report to East Coventry by March 31. Until notice to the contrary, the Authority's Engineer shall be Spotts, Stevens and McCoy, Inc., of Reading, Pennsylvania.

C. Maintain proper books of account and records relating to the operation of the treatment plant and employ an independent Certified Public Accountant or firm of accountants registered in the Commonwealth of Pennsylvania to perform the functions and duties required by this Agreement. Such accountant(s) will furnish to Authority and East Coventry, not more than one hundred eighty (180) days after the close of the Authority's fiscal year, a statement and report showing the Net Operating Costs of the treatment plant and the proper allocation thereof between the parties and any capital costs incurred and the proper sharing of those costs.

D. Construct all new manholes, pumping stations, and other facilities of the Authority's system in such a manner that the same shall be protected from physical damage by the 100-year flood, as determined by the Federal Emergency Management Agency. Pumping stations shall remain fully operational and accessible during the 25-year flood. Manholes subject to flooding shall be protected with solid (no vent holes in cover, no through pick holes) watertight covers.

11.3. East Coventry covenants and agrees that East Coventry will, at all times:

A. Charge to its customers sewer rates and charges which will provide receipts of revenues sufficient, together with other funds available, to make all payments required to be made by East Coventry under the provisions in this Agreement.

B. Adopt and enforce Ordinances, Resolutions, Rules, Regulations, and Permits governing wastewater connections and the admission of wastewater into the East Coventry collection system, which Ordinances, Resolutions, Rules, Regulations, and Permits shall be at least as stringent as existing and future Ordinances, Resolutions, Rules, Regulations, and Permits of North Coventry and the Authority. Copies of all such Ordinances, Resolutions, Rules, Regulations, and Permits shall be supplied to Authority within ninety (90) days after enactment by East Coventry of an Ordinance or Regulation.

C. Construct all manholes, pumping stations, and other facilities of the East Coventry collection system in such a manner that the same shall be protected from physical damage by the 100-year flood, as determined by the Federal Emergency Management Agency. Pumping stations shall remain fully operational and accessible during the 25-year flood. Manholes subject to flooding shall be protected with solid (no vent holes in cover, no through pick holes) watertight covers.

D. Adopt, by Ordinance, recognized plumbing standards at least as stringent as those adopted by North Coventry, the standards of BOCA Plumbing Code, and develop certain standards for the installation of "grease interceptors and oil separators".

E. Require each non-residential establishment to meter its water consumption as of the date that such user connects to the East Coventry collection system.

F. Provide to Authority by January 31 of each year information as required by Authority to facilitate preparation of the Authority's Chapter 94 Annual Wasteload Management Report.

ARTICLE XII

As-Built Drawings

12.1. Upon completion of the East Coventry collection system, East Coventry shall provide, without cost to Authority, one complete set of reproducible as-built drawings of the East Coventry collection system, for the use of Authority, showing complete information as to location, grade and depth of lines, location of manholes, design and location of pump stations, and, also, specifications and technical documents for all equipment installed as a part of the same, and other similar relevant information.

East Coventry agrees to provide the above information for any later expansions of the East Coventry collection system, within ninety (90) days of the completion of the expansion.

ARTICLE XIII

Future Plant Expansion Costs and Capacity

13.1. Future Plant Expansion – Single Party Cause. The parties agree that the total Project costs of any expansion, renovation, revision, or improvement to the Authority's wastewater treatment plant performed, to provide additional treatment capacity for one party, shall be borne solely by said party.

13.2. Future Plant Expansion – Overall Plant Upgrade. If additional treatment capacity is provided for both East Coventry and Authority, the costs of said future project shall be reviewed by the parties and shared pro rata, based on the proportional additional capacity assigned to each party.

13.3. Future Plant Expansion Resulting from Meeting Regulatory Requirements – Single Party Cause. Authority and East Coventry agree that if the total project costs for future expansion, renovation, revision, or improvement of the Authority's wastewater treatment plant are performed to upgrade the treatment facility to enable it to meet more stringent effluent standards required of one party's influent stream, then those costs are borne solely by that party.

13.4. Future Plant Expansion Resulting from Meeting Regulatory Requirements – Both Parties. The total project costs for future expansion, renovation, revision, or improvement of the Authority's wastewater treatment plant performed to upgrade the treatment facility to enable it to meet more stringent effluent standards and/or to provide for capital improvements or extraordinary repairs which will not increase the total treatment plant capacity shall be shared by Authority and East Coventry, pro rata, based on the proportional capacity assigned to each of these parties.

13.5. Future Plant Expansion Due to Third Parties Contributing to the System.

Notwithstanding anything contained herein to the contrary, Authority agrees that the cost of any expansion, renovation, revision, or improvement to Authority's wastewater treatment plant required as the result of any contributing party other than East Coventry shall not be passed through, charged, or paid in part by East Coventry.

ARTICLE XIV

Indemnifications

14.1. Should any waste, substance, material, or gas be deposited or discharged into the East Coventry wastewater system and be released into and/or treated or discharged at the Authority's wastewater treatment plant, resulting in Authority being charged with a violation of the Clean Streams Law, the terms, criteria, and conditions of the Authority's Operating Permit, and/or any other statute, administrative regulation, Ordinance, Code, or Order, East Coventry shall indemnify and save Authority harmless from any and all costs, expenses, and fines incurred and resulting therefrom, including any and all legal and administrative expenses incurred in defense of such action.

14.2. East Coventry shall be financially responsible for all losses incurred by Authority as a result of East Coventry's exceeding of the Discharge Criteria contained in this Agreement, and East Coventry does hereby further indemnify and hold harmless Authority against any and all costs, expense, loss, damage, financial liability, fines, and penalties, including any and all legal and administrative expenses incurred by Authority in regard thereto, that may be incurred by or imposed upon Authority by DEP, EPA, or any other regulatory body with jurisdiction thereof, resulting in whole or in part by reason of wastewater being discharged from East Coventry into the Authority's treatment facilities in violation of any of the Discharge Criteria of this Agreement or any other terms, conditions, or limits set forth in this Agreement.

14.3. East Coventry agrees to indemnify and save harmless the Authority against all costs, losses, or damage on account of any injury to persons or property occurring in the performance of this Agreement due to the negligence of East Coventry or its agents or employees.

14.4. Authority agrees to indemnify and save harmless East Coventry against all costs, losses, or damage on account of any injury to persons or property occurring in the performance of this Agreement due to the negligence of Authority or its agents or employees.

ARTICLE XV

Disputes and Arbitration

15.1. In addition to any action that may be brought at law or in equity in a Court of competent jurisdiction, the parties hereto agree that if, at any time, a dispute shall arise between them concerning factual determinations under the terms of this Agreement, the matter of dispute may, by consent of both parties, be:

A. Referred to three (3) independent registered consulting engineers registered in the State of Pennsylvania, one to be appointed by Authority, one to be appointed by East Coventry, and one to be appointed by the two appointees so selected.

B. Provided, however, that in the event such appointees cannot agree on the third arbitrator, the President Judge of the Court of Common Pleas of Chester County, Pennsylvania, shall, upon petition of both parties, appoint the third arbitrator.

C. If the parties have mutually agreed to submit a matter to arbitration, the Decision or Award of the majority of such arbitrators shall be final and binding upon the parties hereto, and their respective successors and assigns. East Coventry and Authority shall each pay the costs of its own appointee and one-half of the costs of the third arbitrator.

ARTICLE XVI

Term of Agreement; Amendments

16.1. Term of this Agreement. This Agreement shall be effective from the date of signing by all parties until terminated by mutual written consent of North Coventry, Authority, and East Coventry.

16.2. Amendment. This Agreement may be amended from time to time by written consent of the parties to this Agreement.

ARTICLE XVII

Miscellaneous

17.1. Insurance, Repairs, and Reconstruction. The Authority will insure, or cause to be insured, the Authority's wastewater treatment plant with a responsible company or companies authorized and qualified to do business under the laws of the Commonwealth of Pennsylvania, against loss or damage by fire and such other risks (including public liability) and casualties and in such amounts as are usually carried on like properties in said Commonwealth and as approved

by the Authority's Engineer. The Authority does not currently maintain flood insurance; and, nothing in this Agreement is to be interpreted as requiring the Authority to carry flood insurance on its wastewater treatment plant. Immediately upon the occurrence of any loss or damage to any part of said Authority's wastewater treatment plant which is covered by insurance, the Authority will commence and promptly complete, or cause to be so commenced and promptly completed, the repairing, replacement, or reconstruction of the damaged or destroyed property according to plans and specifications prepared by the Authority's Engineer and shall collect and apply, or cause to be applied, the proceeds of such insurance to the cost of such repair, replacement, or reconstruction.

17.2. Inspection. Each party to this Agreement shall provide the others, from time to time, all information relevant and appropriate to the proper administration of their respective responsibilities under this Agreement, or in respect to the interpretation hereof, as, and in such form and detail as, may be reasonably requested, and each shall, at all reasonable times and from time to time, permit their representatives to examine and inspect their respective records and physical facilities relevant to the subject matter of this Agreement.

17.3. Force Majeure. Notwithstanding any other provision of this Agreement, no party to this Agreement shall be responsible in damages to any other for any failure to comply with this Agreement resulting from an act of God or riot, sabotage, public calamity, flood, strike, acts of terrorists, breakdown of the Authority's wastewater treatment plant, or of any party's collection system, or other event beyond its reasonable control. The party having the responsibility for the facilities so affected, however, shall proceed promptly to remedy the consequences of such event, with costs to be shared to the extent provided elsewhere herein.

17.4. Severability. Should any provision hereof for any reason be held illegal or invalid, no other provision of this Agreement shall be affected; and this Agreement shall then be construed and enforced as if such illegal or invalid provision had not been contained herein.

17.5. Headings. The headings in this Agreement are solely for convenience and shall have no effect in the legal interpretation of any provision hereof.

17.6. Effective Date. This Agreement shall become effective as of the date of execution and delivery hereof by the parties hereto.

17.7. Waiver. The failure of a party hereto to insist upon strict performance of this Agreement or of any of the terms or conditions hereof shall not be construed as a waiver of any of its rights hereunder.

17.8. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be regarded for all purposes as an original, but such counterparts shall together constitute but one and the same instrument.

17.9. Successors and Assigns. East Coventry may not voluntarily assign this Agreement without the consent of the Authority, except to a municipality authority incorporated by East Coventry, pursuant to applicable law. Subject to the foregoing, this Agreement shall bind and inure to the benefit of the respective successors and assigns of the parties hereto.

17.10. Supersedes Prior Agreements. This Agreement supersedes and repeals any prior agreement, contracts, and understandings, written or oral, by or among the parties hereto with respect to the subject matter contained herein. This Agreement contains the entire agreement among the parties hereto, and no oral statements or representations or prior written matter not contained in this instrument shall have any force and effect.

17.11. Modification. This Agreement may not be modified or amended except in a writing signed by the parties hereto.

17.12. Pennsylvania Law. This Agreement shall be construed according to, be subject to, and be governed by the laws of the Commonwealth of Pennsylvania.

ARTICLE XVIII

List of Exhibits

Exhibit "A" – Construction Cost Opinion for proposed treatment facilities, last revised 12-3-01.

Exhibit "B" – Wastewater Treatment Plant Expansion to 2.01 MGD, by Spotts, Stevens and McCoy, Inc., last revised 7-23-03.

Exhibit "C" – East Coventry Sewer Service Planning Areas, dated 10-20-99, last revised 2-4-03.

Exhibit "D" – Discharge Criteria (both flow and qualitative), 2 pages, last revised 1-14-03.

Exhibit "E" – Prohibited Wastes, 7 pages, last revised 1-14-03.

Exhibit "F" – Line Items Included in the Operating Cost for the Wastewater Treatment Plant, 3 pages, last revised 1-28-03.

Exhibit "G" – Current Annual Budget for Authority's fiscal year 2003-2004, 2 pages.

Exhibit "H" – Estimate of Cost of Existing Treatment Facilities, 4 pages, last revised 9-4-02.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized appropriate officers and their respective seals to be affixed hereto, all as of the day and year first above written.

NORTH COVENTRY MUNICIPAL AUTHORITY

By: Alain H. Floquet
Chairman

Attest: [Signature]
Secretary

TOWNSHIP OF NORTH COVENTRY

By: [Signature]
Chairman

Attest: [Signature]
Secretary

TOWNSHIP OF EAST COVENTRY

By: [Signature]
Chairman

Attest: [Signature]
Secretary

EXHIBIT "A"

NORTH COVENTRY MUNICIPAL AUTHORITY CONCEPTUAL STUDY - WASTEWATER TREATMENT PLANT EXPANSION TO 2.01 MGD

COST OPINION FOR MAJOR PROCESS UNITS

*Revised 12-3-01

<u>Item</u>	<u>Description</u>	<u>Construction Sub-Total</u>
1	Relocate raw wastewater discharge piping to screen	\$ 15,000
2	Influent Screen and Structure	\$ 273,000
3	Modifications to Oxidation Ditch	\$ 228,000
4	New Final Clarifier	\$ 384,000
5	Modifications to Flow Division Box	\$ 15,000
6	Modifications to Final Settling Tank	\$ 36,000
7	Outfall Pumps and Piping	\$ 38,000
8	New Aerobic Digesters and Blower Building	\$ 361,000
9	Site Work	\$ 29,000
10	Enclosure for Second Sludge Dumpster	\$ 39,000
11	E. Coventry Force main, Flow meters, Sampler	\$ 37,200
12	Miscellaneous	<u>\$ 20,000</u>
Subtotal, Major Process Units		\$ 1,475,200
Bonds and Insurance (2%)		\$ 29,504
Mobilization, Demobilization (1.5%)		\$ 22,128
General Conditions (4%)		<u>\$ 59,008</u>
Total Opinion of Construction		\$ 1,585,840
Construction Contingency (20%)		\$ 317,160
Non-Construction (budget value only)		<u>\$ 450,000</u>
Total Opinion of Probable Project Cost		\$ 2,353,000

EXHIBIT "D" – DISCHARGE CRITERIA

The Intermunicipal Agreement provides for treatment of wastewater from East Coventry Township based on specific discharge criteria. The criteria are defined on the basis of flow parameters (gallons discharged) and on qualitative parameters (i.e. the strength of the wastewater discharged).

I FLOW CRITERIA

The amount of wastewater treated from East Coventry is measured on a "bulk allocation" basis that is, by total flow received at the North Coventry Municipal Authority wastewater treatment plant, rather than by total connections, EDUs, hook-ups, customer bills, etc. that are in East Coventry.

The allocation of treatment capacity for East Coventry is measured and hereby limited to the following flow criteria:

1. Annual Average Daily Flow (AADF) 510,000 gallons per day.
2. Maximum Monthly Average Flow (AADF x 1.2 =) 612,000 gallons per day.
Calculated as a calendar month and as a maximum 30 day running average.
3. Maximum Weekly Average Flow (AADF x 1.5 =) 765,000 gallons per day
Calculated as a calendar week and as a maximum 7 day running average.
4. Maximum Daily Flow (AADF x 2.5 =) 1,275,000 gallons per day
5. Peak Instantaneous Flow (AADF x 4 =) 2,040,000 gallons per day

II QUALITATIVE CRITERIA

The strength or quality of wastewater discharged by East Coventry into the North Coventry Municipal Authority wastewater treatment plant is measured and hereby limited to the following criteria:

A. CONCENTRATIONS

<u>Criteria</u>	<u>Monthly Avg.</u>	<u>Weekly Maximum</u>	<u>Instantaneous Maximum</u>
BOD ₅	204 mg/L	306 mg/L	408 mg/L
Total Suspended Solids	240 mg/L	360 mg/L	480 mg/L
Ammonia as N	30 mg/L	-----	-----
Phosphorous	10 mg/L	-----	-----

B. MASS UNITS

<u>Criteria</u>	<u>Monthly Average</u>	<u>Weekly Maximum</u>	<u>Instantaneous Maximum</u>
BOD ₅	868 lbs per day	1302 lbs per day	
Total Suspended Solids	1021 lbs per day	1532 lbs per day	
Ammonia as N	127 lbs per day	-----	-----
Phosphorous	42.5 lbs per day	-----	-----

C. NPDES PERMIT LIMITS

The above criteria are based on the current treatment plant process design, and on the current NPDES discharge permit values. Any future change of criteria as required in future NPDES permits will be applied proportionately to the East Coventry qualitative limits.

D. ANY PROHIBITED WASTE AS DEFINED IN EXHIBIT "E"

END OF SECTION

EXHIBIT "E" - PROHIBITED WASTES

Prohibited wastes include any discharge other than that traditionally defined as Sanitary Sewage, where Sanitary Sewage means the normal water-carried household and toilet wastes from residences, apartments, business buildings, institutions, commercial and industrial (non-process discharges only) establishments or any other improved property.

The Authority reserves the right to refuse permission to connect to the Sewer System, to compel discontinuance of use of the Sewer System, or to compel pretreatment of Industrial Wastes by any establishments, in order to prevent discharges deemed harmful, or deemed to have a deleterious effect upon the Sewer System.

A discharge exceeds normal strength Sanitary Sewage and is a prohibited waste if any one or more of the following criteria enumerated in 1 through 6 (inclusive) are exceeded:

1. Any discharge exceeding normal domestic strength sanitary sewage, as defined by the following criteria:

BOD ₅	204 mg/L
Total Suspended Solids	240 mg/L
Total Dissolved Solids	500 mg/L
Settleable Solids	10 ml/L
COD	500 mg/L
Ammonia-nitrogen	30 mg/L
Organic Nitrogen as N	15 mg/L
Total Kjeldahl Nitrogen	45 mg/L
Phosphorus (as P)	10 mg/L
Alkalinity (as CaCO ₃)	between 50 mg/L and 200 mg/l
pH (standard units)	between 6.5 and 9.0

2. Any discharge containing storm water, surface water, spring water, roof runoff, subsurface drainage, building foundation drainage, cellar drainage, drainage from roof leader connections.
3. The following discharges of any liquid or solid wastes, substances or matter, are prohibited:
 - A. Any discharge having a temperature higher than 140 degrees Fahrenheit, or less than 32 degrees Fahrenheit.
 - B. Any discharge containing more than 100 milligrams per liter of dissolved fat, oil, wax, grease, either vegetable or mineral, or containing any substance which may solidify between 32 and 100 degrees Fahrenheit. Any discharge containing floatable oils, fats or grease.

- C. Any discharge of liquids, solids or gases which by reason of their nature or quantity are, or may be sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the sewer facilities or to the operations of the sewer facilities.

At no time shall two successive readings on an explosion hazard meter at the point of discharge into the system (or at any point in the system) be more than five percent (5%) nor any single reading over ten percent (10%) of the Lower Explosive Limit (LEL) of the meter.

Prohibited materials include, but are not limited to: gasoline, kerosene, naphtha, benzene, toluene, xylene, alcohols, ethers, ketone, aldehydes, peroxides, chlorates, perchlorates, bromate, carbides, hydrides, sulfides, fuel oil, motor oil, paint products, acid or other volatile, explosive or flammable substance which by reason of its nature or quality may cause fire or explosion, or be in any way injurious to persons, to the sanitary sewers or to the wastewater treatment facilities.

- D. Any discharge containing toxic, noxious, poisonous or malodorous solids, liquids or gases, vapors, fumes or substance, which either singly or by interaction with other wastes, is capable of:
- creating a public nuisance or hazard to life;
 - preventing routine entry into sewers for normal maintenance and repair;
 - may cause worker health and safety problems;
 - interfering with any wastewater treatment process;
 - constituting a hazard to humans or animals;
 - causing, alone or in conjunction with other sources, the treatment plant's effluent to fail a Whole Effluent Toxicity test;
 - creating any hazard in the receiving waters or in the wastewater treatment plant.

Toxic wastes shall include but not be limited to wastes containing cyanide, chromium, copper and nickel ions, or any pollutant identified pursuant to Section 307 of the Clean Water Act, as amended 33 U.S.C. 1251, et. seq.

- E. Any discharge containing any garbage from kitchen wastes that has not been properly shredded.
- F. Any discharge, in quantities or of such size capable of causing obstructions in the sewers, pump stations or other interferences with the proper operation of the wastewater treatment facilities, containing, but not limited to:
- animal guts or tissues, paunch manure, butchers, offal, bones, hair, hides or fleshing, entrails.
 - antifreeze
 - any solids greater than one-half inch in any dimension,
 - ashes

- bentonite
- blood or blood components or products
- building materials
- ceramic wastes
- china
- cinders
- detergents, surfactants or other agents in quantities that cause excessive foaming at the wastewater treatment plant
- feathers
- glass, glass grindings or polishing wastes
- grass clippings
- hair
- leather
- lye
- medical wastes
- metal
- mud
- paper dishes, paper cups, paper or cardboard containers,
- petroleum products (including plastics, gasoline, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil)
- plastic
- porcelain
- rags
- rubber
- sand
- sharps (needles, razor blades, syringes, scalpels, etc.),
- shavings
- sludge, screenings or other residues from treatment processes of others
- spent grains
- spent hops
- spent lime
- straw
- stone or marble dust
- tar
- waste paper
- wood
- or any other solids or viscous substances capable of causing obstruction to the flow in sewer system or other interference with the proper operation of the sewer system or wastewater treatment plant.

G. Any discharge containing inert, insoluble solids such as: asphalt, clay, slag, mill scale, or sludges and slurries.

H. Any discharge having a pH lower than 6.5 or higher than 9.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment or personnel.

- I. Any discharge containing total solids of such character and quality that unusual attention or expense is required to handle such materials at the wastewater treatment plant.
- J. Any discharge containing radioactive isotopes.
- K. Any discharge of discolored materials containing true color-from any source and of any hue with less than the equivalent luminescence and greater than the equivalent purity of a 250 color unit platinum-cobalt stock standard, as determined by spectrophotometric methods. Equivalent values shall be determined at the dominant wave length of the sample and compared to the values determined at the dominant wavelength of the stock standard.

Any discharge with sufficient color that is not removed by the treatment process that causes the plant effluent to have true color discharge in excess of 100 color units.

Any dye that is non-responsive to removal by alum coagulation to remove suspended or colloidal matter, and/or non-responsive to chlorine bleaching of the dissolved dyes.

- L. Any discharge, that individually or in combinations with other wastes, exerts a chlorine demand in excess of 12 mg/L, at a detention time of 15 minutes, on the effluent of the plant after biological treatment and prior to disinfection.
- M. Any discharge which will cause the wastewater treatment plant to violate its NPDES and /or Water Management Permit, or violate the water quality standards for the receiving stream. Any discharge containing wastes which are not amenable to biological treatment or removal by the existing treatment processes, or are only partially amenable to treatment such that the plant effluent does not meet the regulatory requirements; specifically, any discharge containing non-biodegradable complex carbon compounds.
- N. Any discharge containing suspended solids of such character and quantity that unusual attention or expense shall be required to handle such water or waste at the wastewater treatment plant.
- O. Any discharge containing more than 25 mg/L of petroleum oil, non-biodegradable cutting oils, or products of mineral oil origin.
- P. Any discharge prohibited by any permit or regulation of Pennsylvania Department of Environmental Protection, or the Environmental Protection Agency.
- Q. Any discharge of waste slugs, such that the discharge exceeds the allocated flow criteria and the peaking factors associated with the flow allocation.

- R. Any discharge of concentrations of anions, cations, and other various objectionable substances that would make the Authority responsible discharging such substances in excess of that amount permitted in the allocated portion of the critical flow of the receiving stream.
- S. Any discharge from a trucked or hauled source.
- T. Any discharge which may cause the treatment plant's effluent or other product of the treatment plant (such as residues, sludge, or scum) to be unsuitable for reclamation, disposal, and reuse, or to interfere with the reclamation process.

In no case shall a substance discharged to the sewer system cause the treatment plant to be in noncompliance with sludge use or disposal criteria, guidelines, or regulations developed under Section 405 of the Clean Water Act, the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, or state criteria applicable to the sludge management method being used at the treatment plant.

- U. Any waste stream with a closed cup flashpoint of less than 140 degrees fahrenheit (that is, discharges whose vapors ignite and burn at less than 140 degrees fahrenheit.)
 - V. Any discharge containing detergents, surface active agents, or other substances which may cause excessive foaming in the treatment plant.
4. Any discharge which violates the Federal Categorical Pretreatment Standards as defined in 40 C.F.R., Subchapter N, Part 401 to 471, as amended and revised.
 5. Any discharge which violates the Pennsylvania State Pretreatment Standards, where those state standards are more stringent than Federal or the Authority's standards:
 6. Concentrations for elements or compounds in excess of the following:

Aluminum	5.00 mg/L
Ammonia (as N)	30.00 mg/L
Antimony	0.10 mg/L
Arsenic	0.05 mg/L
Barium	1.00 mg/L
Beryllium (as Be)	0.10 mg/L
BOD ₅	204.00 mg/L
Boron	1.00 mg/L
Bromides	250.00 mg/L
Cadmium (as Cd)	0.01 mg/L
Chemical Oxygen Demand	500.00 mg/L
Chlorides	50.00 mg/L
Chrome	0.10 mg/L

Chromium (hexavalent)	0.10 mg/L
Chromium (trivalent)	0.50 mg/L
Cobalt	0.50 mg/l
Copper	1.00 mg/L
Cyanides (as CN)	0.20 mg/L
Endrin	0.0004 mg/L
Fluorides	5.0 mg/L
Hydrogen Sulfides	0.10 mg/L
Iron	5.0 mg/L
Lead	0.05 mg/L
Lithium	2.50 mg/L
Lindane	0.008 mg/L
Magnesium	25.00 mg/L
Manganese	0.20 mg/L
Methoxychlor	0.20 mg/L
Mehylene Chloride	0.40 mg/L
Molybdenum	0.10 mg/L
Mercury	0.05 mg/L
Nickel	0.25 mg/L
Phenols	0.001 mg/L
Phosphates (as PO ₄)	50.00 mg/L
Phosphorus (as P)	10.00 mg/L
Selenium	0.01 mg/L
Silver	0.10 mg/L
Sulfates	500.00 mg/L
Suspended Solids	240.00 mg/L
Tin	1.00 mg/L
Total Dissolved Solids	500.00 mg/L
Total for all Priority Pollutants	15.0 mg/L
Total Halogenated Organics	2.00 mg/L
Total Kjeldahl Nitrogen	45.00 mg/L
Toxaphene	0.01 mg/L
Vanadium	0.10 mg/L
Zinc	0.50 mg/L
2,4,5-TP Silvex	0.02 mg/L

Specific Toxic Substance Notification Levels (for manufacturing, commercial, mining, silvicultural discharges):

Acrolein	200 ug/L
Acrylonitrile	200 ug/L
2-, 4-Dinitrophenol	200 ug/L
2-methyl, -4, -6 dinitrophenol	500 ug/L

The above criteria is subject to amendment based on process performance, new requirements from regulatory agencies, or technical developments.

Laboratory analysis shall be performed on a representative 24-hour composite sample (or grab sample at discretion of the Authority) and all analytical procedures shall be consistent with the latest revised edition of Standard Methods for the Examination of Water and Wastewater.

END OF SECTION

EXHIBIT "F"
NORTH COVENTRY MUNICIPAL AUTHORITY

LINE ITEMS INCLUDED IN OPERATING COST
for
WASTEWATER TREATMENT PLANT

<u>Item</u>	<u>Fiscal Year 2003 Values for Cost Sharing</u>
1. Salaries, wages, payroll expenses, benefits at 80% =	\$ 231,281.60
2. Parts, maintenance and repairs	\$ 29,500.00
3. Sludge Dewatering and Disposal	\$ 53,400.00
4. Chlorine and Chemicals	\$ 3,600.00
5. Electric	\$ 65,000.00
6. Heating (natural gas)	\$ 2,500.00
7. Laboratory analysis(including outside labs) and supplies	\$ 2,000.00
8. Permit fees and testing (permit renewal every 5 years)	\$ -
9. Materials and Supplies	\$ 4,000.00
10. Computer system program and technical support at 80% =	\$ 3,200.00
11. Plant Flowmeters: maintenance, repair and calibration	\$ 500.00
12. Engineering Services for Plant	\$ 7,200.00
13. Legal Services for Plant	\$ 500.00
14. Insurance for Plant	\$ 11,220.00
15. Administrative Costs at 50% =	\$ 96,639.00
16. less Act 339 Grant	<u>\$(132,764.00)</u>
 TOTAL NET OPERATING COST FOR PLANT	 \$ 377,776.60

EXHIBIT "F"
NORTH COVENTRY MUNICIPAL AUTHORITY

WORKSHEET - ITEMS INCLUDED IN PLANT OPERATING COST

Item	Fiscal Year 2003 Budget Value	Extension
1. Salaries, wages, payroll expenses, benefits		
Wages	\$ 200,382.00	
Benefits and retirement	\$ 62,800.00	
Unemployment compensation	\$ 520.00	
Insurance - Workers compensation	\$ 10,070.00	
Social Security	\$ 15,330.00	
	\$ 289,102.00	80% \$ 231,281.60
2. Parts, maintenance and repairs	\$ 29,500.00	\$ 29,500.00
3. Sludge Dewatering and Disposal		
Belt press- maintenance and supplies	\$ 9,500.00	
Landfill costs	\$ 35,000.00	
transportation	\$ 8,900.00	
	\$ 53,400.00	\$ 53,400.00
4. Chlorine	\$ 3,600.00	\$ 3,600.00
5. Electric	\$ 65,000.00	\$ 65,000.00
6. Heating (natural gas)	\$ 2,500.00	\$ 2,500.00
7. Outside laboratory analysis and lab supplies	\$ 2,000.00	\$ 2,000.00
8. Permit fees and testing (NPDES renewal every 5 yrs)	\$ -	\$ -
9. Materials and Supplies	\$ 5,000.00	80% \$ 4,000.00
10. Computer system program and support	\$ 4,000.00	80% \$ 3,200.00
11. Plant Flowmeters: maintenance, repair and calibration	\$ 500.00	\$ 500.00
12. Engineering Services for Plant	\$ 7,200.00	\$ 7,200.00
13. Legal Services for Plant (allowance)	\$ 500.00	\$ 500.00
14. Property Insurance for Plant	\$ 11,220.00	\$ 11,220.00

15. Administrative Costs			
salaries and wages	\$	90,120.00	
benefits and retirement	\$	28,600.00	
unemployment compensation	\$	208.00	
social security	\$	7,280.00	
auditor fee	\$	3,500.00	
paying agent fee	\$	1,100.00	
officer compensation	\$	5,000.00	
office supplies	\$	3,400.00	
telephone - Authority office	\$	6,000.00	
billing expenses	\$	3,800.00	
routine legal services	\$	12,200.00	
legal expenses	\$	1,000.00	
routine engineering services	\$	16,000.00	
public officials E&O insurance	\$	4,100.00	
insurance - gen. liability, auto, umbrella	\$	7,000.00	
bonding for Authority treasurer	\$	470.00	
vehicle maintenance & expenses	\$	3,500.00	
		\$ 193,278.00	50% \$ 96,639.00
		Total Budgeted Plant Operating Cost \$ 510,540.60	
		less Act 339 Operating Grant \$ (132,764.00)	
		Net Plant Operating Cost \$ 377,776.60	

16 Non-Plant Items		
collection system maintenance	\$	18,000.00
pump station maintenance	\$	25,000.00
electric - pump stations	\$	20,500.00
misc. operating expenses	\$	658.00
telephone - pump stations	\$	3,500.00
property insurance - pump stations	\$	1,950.00
legal services	\$	17,800.00
legal expenses	\$	1,000.00
engineering services	\$	14,800.00
engineering services for special projects	\$	20,000.00
miscellaneous	\$	577.00
		<u>\$ 123,785.00</u>

check calc, TOTAL 2003 Expenditures = \$,790,585.00

North Coventry Municipal Authority 2003 Budget

OPERATING FUND	2003
	Budget
Operation Expenses	
Wages	\$ 200,382.00
Transportation	\$ 3,500.00
Plant - Operation & Maintenance	\$ 30,000.00
Collection System - Maintenance	\$ 18,000.00
Pump Station - Maintenance	\$ 25,000.00
Sludge Removal ; Landfill	\$ 35,000.00
Sludge Removal ; Transportation	\$ 8,900.00
Sludge Filter Press Maint. & Supply	\$ 9,500.00
Computer Sys. Program & Support	\$ 4,000.00
Chlorine	\$ 3,600.00
Materials & Supplies	\$ 5,000.00
Electricity Pump Stations	\$ 20,500.00
Electricity Treatment Plant	\$ 65,000.00
Heating Natural Gas	\$ 2,500.00
Outside Lab. Analysis & Supply	\$ 2,000.00
Employee Benefits & Retirement	\$ 62,800.00
Unemployment Compensation	\$ 520.00
Workers Compensation Insurance	\$ 10,070.00
Miscellaneous	\$ 658.00
Social Security	\$ 15,330.00
Subtotal	\$ 522,260.00
Administration Expenses	
Wages	\$ 90,120.00
Telephone Pump Stations	\$ 3,500.00
Telephone Treatment Plant	\$ 6,000.00
Billing Expenses	\$ 3,800.00
Legal Services	\$ 30,500.00
Legal Expenses	\$ 2,000.00
Engineer Services	\$ 38,000.00
Special Engineer Services	\$ 20,000.00
Auditor Fee	\$ 3,500.00
Paying Agent	\$ 1,100.00
Office Supplies	\$ 3,400.00
Insurance-Gen. Liability, Auto, Umbr.	\$ 7,000.00
Insurance-Property Treatment Pt.	\$ 11,220.00
Insurance-Property Pump Stations	\$ 1,950.00
Insurance-Public Official	\$ 4,100.00
Insurance- Treasurer Bond	\$ 470.00
Employee Benefits & Retirement	\$ 28,600.00
Unemployment Compensation	\$ 208.00
Officers Compensation	\$ 5,000.00
Social Security	\$ 7,280.00
Miscellaneous	\$ 577.00
Subtotal	\$ 268,325.00
Total Expenditures	\$ 790,585.00
Debt Service	
Principal	\$ 220,000.00
Interest	\$ 486,415.00
Subtotal	\$ 706,415.00
TOTAL EXPENDITURES	\$ 1,497,000.00

North Coventry Municipal Authority 2003 Budget

		2003 Budget
Receipts Anticipated		
Rentals	\$	1,125,000.00
Tapping Fees	\$	350,000.00
Earned Interest	\$	53,100.00
Pa. Act 339 Subsidy	\$	132,950.00
NCWA Reimbr. Personnel Time	\$	30,000.00
<hr/>		
Total Receipts	\$	1,691,050.00

Recommended Projects		
Collection Line Repairs Creek Rd.	\$	314,400.00
Collection Line TV Camera	\$	7,500.00
Brick Manhole Repairs	\$	80,000.00
Geographical Information System		
East Main St. P.S. Force Main & Riverside Dr. Sewer Line		

EXHIBIT "H" - ESTIMATE OF COST OF EXISTING TREATMENT FACILITIES

NORTH COVENTRY MUNICIPAL AUTHORITY
ESTIMATE OF COST OF EXISTING TREATMENT FACILITIES
Summary of Cost Components

		ENR	Costs
		<u>Index</u>	<u>Indexed to</u>
			<u>3/1/01</u>
1.0	Original Wastewater Treatment Plant - 1960		
	Construction	\$ 296,822.49	
	Non-Construction	\$ 34,305.25	
		\$ 331,127.74	7.62 \$ 2,523,193
2.0	1989 Plant Upgrade		
	Construction	\$ 48,340.40	
	Non-Construction	\$ 16,483.54	
		\$ 64,823.94	1.36 \$ 88,161
3.0	Deduction for demolished facilities		
3.1	Deduction for demolished facilities		
	1960 Project	\$ 143,467.47	7.62 \$ (1,093,222)
	1989 Project	\$ 39,917.00	1.36 \$ (54,287)
3.2	Deduction for Grants, Assessments received		\$ (268,229)
4.0	1997 Plant Expansion		
	Construction	\$ 5,803,912.72	1.0757 \$ 6,243,269
	Non-construction	\$ 1,525,654.13	\$ 1,525,654
		\$ 7,329,566.85	
5.0	Deduction for Contributions received		\$ (5,016)
6.0	Deduction for Portion of Plant that benefits Existing Users		\$ (3,585,816)
	Net Cost Basis for Treatment Plant	\$ 5,373,707	
	USE	\$ 5,374,000	
	Update from March 2001 to Sept 2002		<u>1,0492</u>
			\$ 5,638,401
	East Coventry share		<u>25.4%</u>
		\$ 1,432,154	
	Round to	\$ 1,432,000	

**NORTH COVENTRY MUNICIPAL AUTHORITY
ESTIMATE OF COST OF EXSITING TREATMENT FACILITIES**

A. COST OF TREATMENT FACILITIES

"Trended Historical Costs Method"

General Formula:

Historical cost of facilities indexed to current year
 Deduct for grants & assesments received
 Deduct for demolished facilities
 Deduct for facilities which benefit existing users
 then divide the adjusted net-cost basis by available capacity = cost per gallon

1.0 Original Wastewater Treatment Plant - 1960
 (source - A339 file 5339-160)

Plant site asquisition	\$	6,365.00	
General Construction	\$	138,444.00	
Mechanical	\$	92,646.43	
Heating & Ventilating	\$	9,785.00	
Electric	\$	23,654.66	
Well	\$	857.70	
Interceptors	\$	25,069.70	
Subtotal Construction			\$ 296,822.49
Design	\$	16,581.27	
Legal	\$	2,995.45	
Financial costs	\$	543.43	
Interest during construction	\$	4,461.20	
Inspection	\$	9,723.90	
Subtotal, non-construction			\$ 34,305.25
Total project cost, 1960 dollars =			\$ 331,127.74

Update to March 2001 dollars

ENR 1960 = 824 6280/824 = 7.62 7.62
 ENR 3/01 = 6280

Indexed cost of 1960 treatment plant in March 2001 dollars \$ 2,523,193.38

2.0 Expansion of Chlorine Contact Tank & Chopper pump-1989

Construction	\$	48,340.40	
Engineering	\$	16,308.04	
Administrative	\$	175.50	
Total project cost of 1989 additions			\$ 64,823.94

Update to March 2001 dollars

ENR 1989 = 4615 Factor = 6280/4615 = 1.36 1.36
 ENR 3/01 = 6280

Cost of 1989 additions in March 2001 dollars \$ 88,160.56

COST OF EXISTING TREATMENT PLANT INDEXED TO MARCH 2001 DOLLARS: \$ 2,611,353.94

3.0 Adjustments

3.1 Deduction for demolished facilities (valuation per DEP in Act 339)				
1960 project	\$	143,467.47	index to 3/01	7.62 \$ (1,093,222.12)
1989 project	\$	39,917.00	index to 3/01	1.36 \$ (54,287.12)

3.2 Deduction for proportionate share of grants, assessments, etc

Federal Grant (1959-60)	\$	122,323.81
Federal Grant (1965-66)	\$	12,090.00
Resolution of Assesment (1959-60)	\$	433,324.80
Resolution of Assesment (1965-66)	\$	102,075.00
Resolution of Assesment (1971)	\$	<u>210,220.00</u>
TOTAL GRANTS & ASSESMENTS	\$	880,033.61

Proportion grants between existing plant and existing collection system:

Existing Plant in 3/01 dollars	\$	2,611,353.94		
Existing Lines in 3/01 dollars	\$	5,956,250.00	factor =	0.30479
	\$	880,033.61	0.30479	\$ (268,228.93)
ADJUSTED COST BASIS OF EXISTING FACILITIES:				\$ 1,195,615.77

4.0 Estimated Final Construction Costs for New Plant

General	\$	4,700,768.13
Concrete testing	\$	16,316.47
Owner direct purchase	\$	80,000.00
HVAC	\$	78,083.23
Plumbing	\$	160,262.00
Electrical	\$	<u>768,482.89</u>
Total Cost for New Plant	\$	5,803,912.72

Update Construction Costs from receipt of bid November 1997 to March 2001

ENR 11/97 = 5838	6280/5838=1.0757	1.0757	\$	6,243,268.91
ENR 3/01 = 6280				

5.0 Ratio of New Plant Construction Contracts to New Collection System Contracts

Plant - Contract #1	\$	4,700,768.13
Plant - Contract #2	\$	78,083.23
Plant - Contract #3	\$	160,262.00
Plant - Contract #4	\$	768,482.89
Lines - Contract # 5	\$	3,395,300.00
Lines - Contract # 6	\$	<u>3,349,092.66</u>
Total Construction	\$	12,451,988.91

Ratio of Plant to Total Construction =	0.4584
Ratio of Collection System to Total Construction =	0.5416

6.0 Non-Construction Costs

6.1 Engineering thru 12/31/00 for plant

Design (-107,-108,-109,-110)	\$	215,000.00	
Permits (-111, -120)	\$	8,774.77	
Construction Phase(130,131,132,133,-134)	\$	236,692.66	
Operations Consulting	\$	18,289.67	
Estimated engr to complete	\$	<u>5,000.00</u>	
SUBTOTAL			\$ 483,757.10

6.2 Non engineering costs to 12/31/00 for plant

Permit fees	\$	6,600.00	
Initial start-up supplies	\$	<u>10,000.00</u>	
SUBTOTAL			\$ 16,600.00

6.3 Project development costs common to plant & lines:

Reimburse Authority advanced funding	\$	145,991.36	
Planning Costs (un-reimbursed portion)	\$	35,500.00	
Solicitor	\$	23,684.72	
Bidding	\$	28,923.35	
Project Admin-101	\$	5,483.78	
Interest on Loan	\$	508,153.45	
Capitalized Interest	\$	1,041,996.17	
Insurance Premium	\$	42,603.00	
OID	\$	224,975.15	
Underwriter Discount	\$	62,135.00	
Issuance cost - Loan	\$	28,678.34	
Pennvest Application	\$	12,014.51	
Issuance cost - Bonds	\$	49,078.90	
Misc. financing fees	\$	3,234.89	
Engineers Assistance w/ financing	\$	<u>24,388.73</u>	
SUBTOTAL			\$ 2,236,841.35

Project development costs proportioned for plant	0.4584	\$	<u>1,025,297.03</u>
TOTAL BASE COST FOR EXIST & NEW TREATMENT PLANT			\$ 8,964,538.81

7.0 Adjustments to Base Costs for treatment plant

7.1 Deduction for contributions toward construction Spotts, Stevens, & McCoy	\$	(5,016.00)
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7.2 Deduct portion of cost that benefits existing users

Allow existing users are 0.6 mgd (AADF prior to construction)
then, benefit to existing user = 0.6 mgd/1.5 mgd = 40%

Deduct 40% of Base Costs	\$	8,964,538.81	40%	\$	<u>(3,585,815.53)</u>
NET COST BASIS for TREATMENT PLANT					\$ 5,373,707.29

Appendix V

Grinder Pump Ordinance

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

((Draft)) ORDINANCE NO. _____-20

**AN ORDINANCE AMENDING THE EAST COVENTRY TOWNSHIP CODE,
ESTABLISHING: REQUIREMENTS FOR THE INSTALLATION AND USE OF
SEWAGE GRINDER PUMPS AND ANY ASSOCIATED FORCE MAINS OR LOW-
PRESSURE LATERALS; RESPONSIBILITIES OF PROPERTY OWNERS FOR THE
PROPER MAINTENANCE OF SEWAGE GRINDER PUMPS; AND PROCEDURES
FOR ABATEMENT OR MITIGATION BY THE TOWNSHIP OF NUISANCES
CAUSED BY IMPROPERLY-MAINTAINED SEWAGE GRINDER PUMPS.**

WHEREAS, the East Coventry Township Board of Supervisors (“Board of Supervisors”) has met the procedural requirements of the Second Class Township Code, 53 P.S. § 65101, *et seq.*, and the Municipalities Planning Code, 53 P.S. § 10101, *et seq.*, for the adoption of the proposed ordinance, including holding a public hearing;

WHEREAS, the Second Class Township Code authorizes the Board of Supervisors to make and adopt Ordinances that are consistent with the Constitution and the laws of the Commonwealth that it deems necessary for the proper management and control of the Township of East Coventry (the “Township”) and welfare of the Township and its citizens;

WHEREAS, the Pennsylvania Department of Environmental Protection has informed the Township of potential issues which may arise as the result of the private, long-term operation and maintenance of grinder pumps and associated force mains and low-pressure laterals in the Township; and

WHEREAS, the Township deems it to be in the best interest and general welfare of the citizens and residents of the Township to amend Chapter 154 to establish procedures for the installation, use, and maintenance of sewage grinder pumps and any associated force mains or low-pressure laterals;

NOW, THEREFORE, BE IT ORDAINED AND ENACTED by the Board of Supervisors for East Coventry Township, and it is hereby ordained and enacted, by the authority of the same, to wit:

SECTION 1. CODE AMENDMENTS.

Purpose.

Purpose. The purpose of this, Sewage Grinder Pumps, is to establish procedures for the installation, use, and maintenance of sewage grinder pumps and any associated force mains or low-pressure laterals. It is hereby declared that the enactment of this article is necessary for the

protection, benefit, and preservation of the health, safety, and welfare of the inhabitants of the Township.

Word Usage and Definitions

Unless the context specifically indicates otherwise, the following terms and phrases, as used in this Part, shall have the meanings hereinafter designated. Words in the present tense include the future. The singular number includes the plural number. The plural number includes the singular number. “Shall” is mandatory; “may” is permissive.

ACT 537 PLAN

East Coventry Township’s Official Plan as defined in the Pennsylvania Sewage Facilities Act, Act of January 24, 1966, P.L. 1535 (1965), No. 537, as amended, 35 P.S. §§ 750.1 through 750.20a (the “Sewage Facilities Act” or “Act 537”).

DEPARTMENT

The Pennsylvania Department of Environmental Protection.

GRINDER PUMP

Any electric motor drive, submersible pump capable of macerating all material found in normal domestic sanitary sewage, including reasonable amounts of objects, such as plastics, sanitary napkins, disposable diapers, rubber and the like, to a fine slurry, and pumping this material through a small-diameter discharge.

IMPROVED PROPERTY

Any parcel of real estate located in the Township upon which there is erected a structure intended for continuous or period inhabitation, occupancy, or use by human beings or animals, and from which structure sewage shall or may be discharged.

OFFICIAL PLAN REVISION

A change in the Act 537 Plan to provide for additional or newly identified future or existing sewage facilities needs, as defined fully in Section 1 of the Sewage Facilities Act, 35 P.S. § 750.1.

PROPERTY OWNER

Any person vested with ownership, legal or equitable, sole or partial, of any property located in the Township.

QUALIFIED TECHNICIAN

A plumber who is licensed by the Commonwealth of Pennsylvania and possesses adequate insurance as required by the Township.

REVISION FOR NEW LAND DEVELOPMENT

A revision to the Act 537 Plan resulting from a proposed subdivision as defined in Act 537.

SEWAGE

A substance that contains any of the waste products or excrement or other discharge from the bodies of human beings or animals, and any noxious or deleterious substance being harmful or inimical to the public health, animal or aquatic life, or to the use of water for domestic water supply or for recreation, or any substance that constitutes pollution under the Clean Streams Law, 35 P.S. §§ 691.1 through 691.1001, as amended.

Connection to sewer via grinder pumps; official plan revision required.

The connection of existing properties or proposed new land development to an existing or proposed sewage system through the use of sewage grinder pumps, their associated force mains, or low-pressure laterals shall occur only after an official plan revision to the Township's Act 537 Plan, approved by both the Township and the Department, which designates that the proposed properties be served by such a connection.

Powers of the Township.

- A.** The Township is hereby authorized and empowered to adopt by resolution such rules and regulations concerning sewage that it may deem necessary, from time to time, to properly operate and maintain the sewer system. Such rules and regulations shall be maintained at the Township building for inspection during normal office hours.
- B.** The Township is hereby authorized and empowered to take such other actions as are necessary, including, but not limited to, entering into agreements with property owners that assure proper operation and maintenance of sewage facilities within the Township's borders, including, but not limited to, sewage grinder pumps and any associated force mains or low-pressure laterals.

Duties and responsibilities of the Township.

- A.** The Township shall exercise its powers and legal authority set forth herein, and under all applicable statutes, ordinances, and other laws, to effect the purpose of this article.
- B.** The Township may enter into an agreement with each property owner, or representative homeowner association representing multiple property owners located within a development, proposing to install or who has installed a sewage grinder pump or low-pressure sewer system to assure the short- and long-term operation, maintenance, use, service, repair or replacement of such systems.

- C. The Township shall require that all grinder pumps and low-pressure sewer systems (including the installation, use, operation, maintenance, service, repair and replacement thereof) shall comply with the rules and regulations of the Township and the Commonwealth of Pennsylvania.
- D. The Township shall require that all grinder pumps and low-pressure sewer systems be connected to the Township's sewage collection and conveyance system, pursuant to a permit obtained from the Township. The Township shall also be responsible for the permitting and inspection of any replacement, repair, or modification of the sewer system located on a property owner's land.
- E. The Township shall review the type of grinder pump used by a property owner and ensure that the property owner has provided documentation that full-service capacity is available locally on short notice in case of malfunction.
- F. The Township shall bear no responsibility for the purchase, installation, use, operation, maintenance, service, repair, or replacement of the grinder pump and/or its low-pressure sewer systems and low-pressure force main or lateral, except as otherwise set forth herein.

Duties and responsibilities of property owners and maintenance contractors.

- A. Each property owner whose property is served by a grinder pump shall bear full responsibility for obtaining, installing, using, operating, maintaining, servicing, repairing and replacing the grinder pump and/or its low-pressure force main or lateral, unless otherwise set forth herein.
- B. Each property owner whose property is served by a grinder pump shall have responsibility for using and maintaining the grinder pump in a manner consistent with the manufacturer's instructions and the rules and regulations promulgated by the Township, and shall avoid introducing into the sewage system any material that could damage the impellers on the pump, including, but not limited to, items designated as biodegradable in septic tanks.
- C. Each property owner whose property is served by a grinder pump shall close the sewage system and cease operations during any period when the grinder pump and/or low-pressure system serving the property is inoperable for more than ninety (90) days.
- D. Where the low-pressure force main or lateral is shared between property owners, such property owners shall submit to the Township a declaration of easements, covenants and restrictions, in recordable form, setting forth the agreement of each benefited property owner with respect to the installation, use, operation, maintenance, service, repair and replacement of the low-pressure system, which agreement shall bind all future property owners. Following the approval of the low-pressure sewer system by all applicable agencies, the Township will not issue a

permit for its installation, until evidence is presented that the agreement has been recorded in the Office for the Recording of Deeds, Chester County, Pennsylvania.

- E.** Each property owner shall annually renew, for the life of the grinder pump, a system contract with an authorized maintenance contractor (hereinafter the "maintenance contractor"), and shall annually provide a copy of such contract to the Township. The maintenance contractor shall be a qualified technician who has been given special training by the original equipment manufacturer and is authorized by the manufacturer to service the grinder pump and all appurtenances.
- F.** After the first month of operation of the grinder pump and annually thereafter, or more frequently if the manufacturer of any component parts recommends more frequent servicing, the property owner shall have the maintenance contractor provide the property owner and the Township with copies of a report signed by the maintenance contractor certifying that the grinder pump is operational in accordance with the permit. The inspection and maintenance program will include, at a minimum, the manufacturers' recommended services and inspections for each separate component of the system. The maintenance contractor's report shall include the average daily flow from water meter readings, if available. The report shall also indicate resolution of any deficiencies noted in the maintenance contractor's inspection or any service or alarm call during the past year. If a revision or modification is made to the system, an amended and revised drawing detailing the revision or modification shall be provided to the property owner and the Township. The property owner is responsible for obtaining any required permits from the Township for any revision or modification to the grinder pump, and all appurtenances to it, and the low-pressure system.

Remedies of Township and reimbursement of costs.

- A.** Remedies of the Township. In the event of a property owner's failure to perform any obligation imposed under this article or under any subsequent agreements resulting herefrom, the Township shall have the right, but not the obligation, to perform such obligation or obligations of the property owner and/or to pursue whatever legal or equitable remedy it shall deem appropriate, including, but not limited to, bringing an action for specific performance against the property owner to compel compliance with this article or any subsequent agreement resulting herefrom. The property owner shall reimburse the Township for all costs incurred by the Township in doing so, including legal fees. The Township shall also have the right to file a lien against the property to secure to the Township any reimbursement of costs due to the Township.
- B.** Reimbursement of costs. In the event the Township elects to perform a property owner's obligations pursuant to this Article XII, the Township shall charge the property owner the cost incurred by the Township in performing such obligations, and the property owner shall reimburse the Township for all such costs.

Abatement of nuisances.

In addition to any remedies provided in this article, any violation of §§ 154-28 and 154-29 above shall constitute a nuisance and may be abated by the Township by either seeking mitigation of the nuisance or appropriate equitable or legal relief from a court of competent jurisdiction.

Rules and regulations to be in conformity with applicable law.

All such rules and regulations adopted by the Township to effectuate this article shall be in conformity with the provisions herein, all other ordinances of the Township, and all applicable laws, and applicable rules and regulations of administrative agencies of the Commonwealth of Pennsylvania.

SECTION 2. REPEALER.

All Ordinances or parts of Ordinances inconsistent herewith or in conflict with any of the specific terms enacted hereby, to the extent of said inconsistencies or conflicts, are hereby specifically repealed.

SECTION 3. REVISIONS.

The East Coventry Township Board of Supervisors does hereby reserve the right, from time to time, to adopt modifications of, supplements to, or amendments of its Ordinance, including this provision.

SECTION 4. SEVERABILITY.

In the event that any section, sentence, clause, phrase or word of this Ordinance shall be declared illegal, invalid or unconstitutional by any Court of competent jurisdiction, such declaration shall not prevent, preclude or otherwise foreclose enforcement of any of the remaining portions of this Ordinance.

SECTION 5. EFFECTIVE DATE.

This Ordinance shall become effective five (5) days after date of adoption.

SECTION 6. FAILURE TO ENFORCE NOT A WAIVER.

The failure of East Coventry Township to enforce any provision of this Ordinance shall not constitute a waiver by the Township of its rights of future enforcement hereunder.

ENACTED AND ORDAINED this ____ day of ((Month)) 20__ by the Board of Supervisors of East Coventry Township.

**BOARD OF SUPERVISORS
EAST COVENTRY TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

ATTEST:

By: _____
Township Secretary

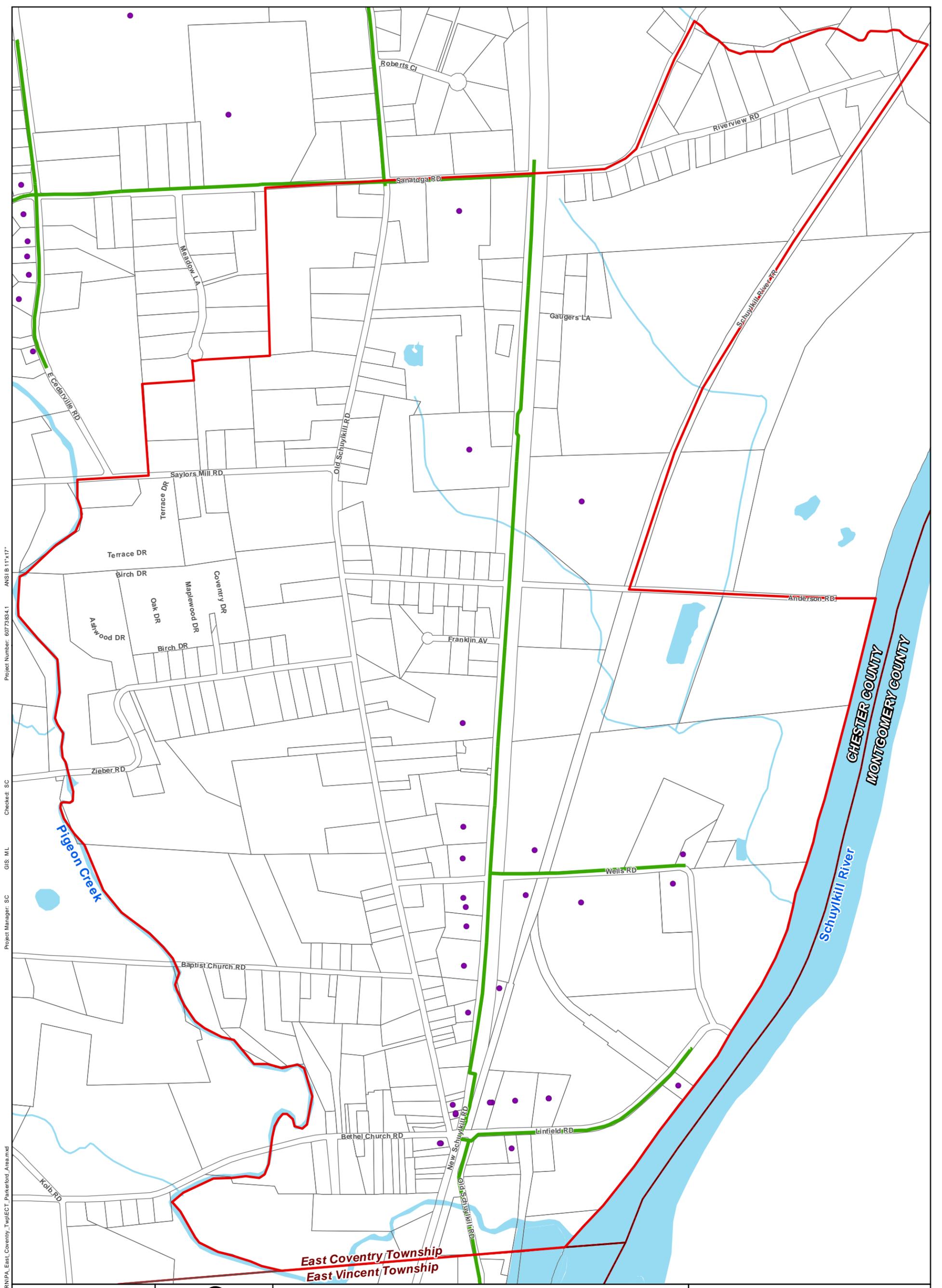
By: _____

By: _____

By: _____

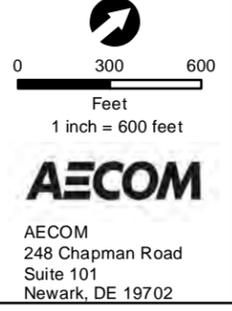
Appendix W

Public Water System Plan



Project Number: 60773834.1
 ANSIB 11" x 17"
 Project Manager: SC
 GIS: ML
 Checked: SC

Last Saved: 1/21/2026
 File Path: C:\Users\matlayon\OneDrive - AECOM\GIS\TRNPA_East_Coventry_Twp\ECT_Parkerford_Area.mxd



LEGEND

- ▭ Planning Area
- Parcel
- Municipal Boundary
- Waterbody
- ~ Stream
- Public Water Feature**
- Distribution
- Existing Customer

DATA SOURCES

Map Projection: NAD 1983 State Plane
 Pennsylvania South Feet.

- Parcels - Chester County, January 20, 2026
- Township - Chester County
- Roads - Chester County
- Streams - National Hydrography Dataset
- PADEP Office of Water Management, 2023
- Waterbody - Chester County
- Planning Area Delineation - ARRO Act 537 Plan drawing, June 2021

**EAST COVENTRY TOWNSHIP
 PENNSYLVANIA AMERICAN WATER
 COMPANY PUBLIC WATER SUPPLY
 PARKERFORD AREA**

EAST COVENTRY TOWNSHIP,
 CHESTER COUNTY, PA

66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487

Set 2

23. Checklist Item No. 22.e. – In response to Deficiency Item No. 11, PAWC-WD indicated that once the Parker Ford Act 537 Special Study has been approved by DEP, the applied for service territory will be consistent with the affected municipality and county zoning and comprehensive plans. However, Checklist Item No. 22.e. requires the Application to provide evidence the filing is consistent with the affected municipality and county comprehensive plans if the filing proposes to expand service beyond the existing plant footprint. Please submit evidence that the Application is consistent with the affected municipality and county zoning and comprehensive plans by providing the following:
- a. A revised Appendix A-22-b that provides a copy of the DEP-approved Parker Ford Act 537 Plan Special Study along with a copy of the DEP approval letter inclusive of any conditions; or
 - b. A revised Amended Application and Appendix A-16-a through f that removes the Parker Ford sewage facilities planning area from the requested territory.

Response:

a-b. PAWC incorporates its response to no. 21 above. Checklist Item No. 22.e. of Appendix A of the Commission’s 2024 Final Supplemental Implementation Order at Docket No. M-2016-2543193 requires PAWC to provide evidence that the filing is consistent with the affected municipality and county comprehensive plans if the filing proposes to expand service beyond the existing plant footprint. Please see PAWC’s **Amended Appendix A-22-e**, which is attached. In this Amended Appendix, PAWC explains that PAWC’s application is consistent with the affected municipality and comprehensive plans. PAWC’s application is verified so Appendix A-22-e should be the only evidence needed for TUS to consider this application item complete.

Although the Act 537 special study has not yet been officially approved by DEP, the Board of Supervisors for East Coventry has approved it. See **PAWC-23_Attachment**. In addition, Appendix O of the special study (attached as **Amended Appendix A-22-b.2**) includes letters from Chester County and East Coventry Township recommending approval of the Parker Ford special study and determining that it is consistent with comprehensive county plans. Therefore, PAWC’s proposed service to the Parker Ford area beyond the existing plant

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

footprint of East Coventry’s wastewater system is consistent with affected municipal and county plans. To the extent there are any remaining concerns about the substance of the referenced municipal and county plans and approvals, those issues should be raised in the next litigated phase of this proceeding and not during the application completeness phase.

Accordingly, PAWC requests that TUS accept Appendix 22 of PAWC’s application as complete.

**Prepared by: Michael Salvo, Director, Business Development
Pennsylvania-American Water Company**

Date: February 19, 2026

**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

22. Other requirements. Demonstrate compliance with the following:
- e. Provide evidence the filing is consistent with the affected municipality and county comprehensive plans if the filing proposes to expand service beyond the existing plant footprint.

RESPONSE: e. Pennsylvania-American Water Company's filing does not propose to expand its wastewater service beyond the existing East Coventry wastewater system footprint.

Amended Response:

- e. PAWC originally interpreted this question as referring to East Coventry's service territory. PAWC is not proposing to expand its wastewater service outside of East Coventry's existing service territory. PAWC is proposing to serve East Coventry's existing customers, as well as extend service to the Parker Ford area, which is a public sewer service area defined in East Coventry's DEP-approved Act 537 plan. To the extent "wastewater system footprint" is more narrowly interpreted as only the areas where East Coventry's existing facilities are present, PAWC confirms that its proposed wastewater service within the application is consistent with the affected municipality and county comprehensive plans.

**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

PAWC A-23 Attachment

Resolution No. 2021-12 – East Coventry Resolution for Act 537 Plan Revision

**EAST COVENTRY TOWNSHIP
CHESTER COUNTY**

RESOLUTION NO. 2021-12

RESOLUTION FOR PLAN REVISION

RESOLUTION OF EAST COVENTRY TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA (hereinafter "the Township").

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537 known as the "Pennsylvania Sewage Facilities Act", as Amended, and the Rules and Regulations of the Pennsylvania Department of Environmental Protection (PADEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the Township to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters and/or environmental health hazards with sewage wastes, and to revise said Plan whenever it is necessary to meet the sewage disposal needs of the Township.

NOW, THEREFORE, BE IT RESOLVED, that East Coventry Township hereby adopts and submits to the Pennsylvania Department of Environmental Protection for its approval, as a revision to the "Official Plan" of the Township, this Act 537 Planning Special Study (Special Study) for the Parker Ford planning area, dated August 2021.

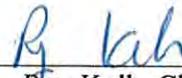
The Township hereby approves and adopts this Special Study which provides the basis to implement the selected alternative for the construction of a sanitary sewer collection system and regional pump station to provide public sewer service to existing residential and commercial development, proposed residential development, and proposed commercial development located along in the Parker Ford planning area as identified in the Special Study. Key implementation activities include planning approval, engineering design, project funding, project bidding, and project construction. These activities shall be implemented in accordance with the implementation schedule detailed in the Executive Summary of the Special Study.

The Township finds that this Act 537 Planning Special Study, described above, conforms to applicable zoning, subdivision, other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

I, DAVID G. KRAYNIK, Secretary, East Coventry Township, hereby certify that the foregoing is a true copy of Township Resolution No. 2021-12, adopted August 9, 2021.

**BOARD OF SUPERVISORS OF
EAST COVENTRY TOWNSHIP
Chester County, Pennsylvania**

(TOWNSHIP SEAL)



Ray Kolb, Chairman

ATTEST:



David G. Kraynik, Secretary

66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487

Set 2

24. Checklist Item Nos. 24.d., 24.e., and 25. – The Amended Appendix A-25 included a copy of a pro forma Conveyance and Allocation Agreement (Pro Forma Conveyance Agreement) by and between PAWC-WD and East Coventry Township. The Pro Forma Conveyance Agreement’s recitals clarify that NCMA has not consented to the assignment of the NCMA Agreement from East Coventry Township to PAWC-WD. Also, the Pro Forma Conveyance Agreement’s Section 3 (Transfer Section), Allocation and Allowable Strength of Wastewater, states “[...] East Coventry hereby sells, assigns, grants, conveys and transfers to PAWC all of East Coventry’s right, title and interest in and to the Allocation. [...].” The Pro Forma Conveyance Agreement’s Transfer Section appears to propose terms that conflict with the NCMA Agreement’s Section 17.9, Successors and Assigns, whereby East Coventry Township may not voluntarily assign the NCMA Agreement without the consent of NCMA, except to a municipal authority incorporated by East Coventry Township. East Coventry Township’s Allocation, described in the Pro Forma Conveyance Agreement, is granted to East Coventry Township by the NCMA Agreement, which appears to specifically prohibit the assignment of those rights without the consent of NCMA and North Coventry. Further, the APA’s Schedule 2.01(b) includes a copy of the Engineering Assessment as the description of the assets to be acquired, which includes the NCMA Agreement as described above in Deficiency Item No. 19. Additionally, the APA’s Schedule 2.02(h) does not include, in the list of excluded assets from the proposed PAWC-WD acquisition, the NCMA Agreement rights. Please provide responses to the following:
- a. Provide a revised Appendix A-25 that includes a copy of a revised Pro Forma Conveyance Agreement that does not conflict with the NCMA Agreement and which clarifies that East Coventry Township will be entering into a contract to provide wastewater conveyance and treatment services to PAWC-WD via the section of pipe referred to as the Retained Asset;
 - b. Provide a revised Appendix A-24-a that includes a copy of an amended APA Schedule 2.01(b) that removes the NCMA Agreement in the description of the assets to be acquired; and
 - c. Provide a revised Appendix A-24-a that includes a copy of an amended APA Schedule 2.02(h) that includes the NCMA Agreement in the description of the assets to be excluded.

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

Response:

a-c. PAWC incorporates its response to no. 19 above. Checklist Item Nos. 24.d. and 24.e. of Appendix A of the Commission’s 2024 Final Supplemental Implementation Order at Docket No. M-2016-2543193 require PAWC to attach an asset purchase agreement (APA) that “adequately describes the assets to be acquired...[and] the assets to be excluded.” Checklist Item No. 25 requires PAWC to “provide a copy of all municipal and affiliate contracts to be assumed by buyer as part of the acquisition and a list and annual dollar value of other contracts.” PAWC’s application meets both of these requirements.

With respect to Checklist Item Nos. 24.d. and 24.e., PAWC’s APA includes schedules listing the included and excluded assets of the transaction. It is TUS’ responsibility to confirm this information is present in the application not to evaluate the merits of the information. In the litigated phase of this proceeding, PAWC will further explain why TUS’ legal interpretation of the APA is incorrect.

With respect to Checklist Item No. 25, PAWC is seeking Section 507 approval of two different municipal agreements related to sewage treatment, both of which are included in Appendix 25. In the next phase of this proceeding, PAWC will demonstrate that the Commission should approve both agreements under Section 507 of the Public Utility Code and allow PAWC to execute one or the other agreement at closing. TUS’ legal interpretation of these agreements is irrelevant and beyond the scope of TUS’ authority.

The scope of TUS’ authority to review Section 1329 applications is discussed extensively in the Commission’s orders at Docket No. M-2016-2543193. The Commission explains:

The Commission would clarify here that [TUS] does not review the veracity or substantive quality of information that an applicant may submit to fulfill the threshold requirements of the Application Checklist. [TUS] is to evaluate only whether the Application Checklist is complete and responsive to the data requested. ***It shall not refuse to perfect an application on the basis that the Bureau is dissatisfied with the quality of items***

**66 Pa. C.S. Section 1329 Application Completeness Review
Pennsylvania-American Water Company – Wastewater Division Acquisition of
East Coventry Township Wastewater System Assets at Docket No. A-2025-3053487**

Set 2

***submitted in response, or whether additional
information may later be required.*¹¹**

In the Commission’s most recent Final Supplemental Implementation Order at Docket No. M-2016-2543193, the Commission further noted:

Acceptance of an application is not dependent upon the content of the responses to these new Checklist Items, but will only note whether the Checklist Items have been completed. As stated in the 2019 FSIO, the Bureau of Technical Utility Services (TUS) does not review the veracity or substantive quality of information that applicants submit to fulfill the Application Filing Checklist; it evaluates whether the Application Filing Checklist is complete.¹²

In fact, the Commission has recognized that requiring changes to the substance of 1329 applications during the application completeness phase creates a due process problem: “it would be premature and potentially violative of due process for the Commission to make a determination about this factual dispute without the development of a full evidentiary record.”¹³

For the foregoing reasons, PAWC requests that TUS accept the as-filed **Appendices A-24 and A-25** as complete.

**Prepared by: Michael Salvo, Director, Business Development
Pennsylvania-American Water Company**

Date: February 19, 2026

¹¹ *Implementation of Section 1329 of the Public Utility Code - Tentative Supplemental Implementation Order*, Docket No. M-2016-2543193 (Order entered September 20, 2018) at 15 (emphasis added). The subsequent Final Supplemental Implementation Order “did not alter [the Commission’s] expectations regarding TUS’s reviewing responsibilities of the Application filing.” *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at fn. 6.

¹² 2024 FSIO at 53.

¹³ *Application of Aqua Pennsylvania Wastewater, Inc., pursuant to Sections 507, 1103, and 1329 of the Public Utility Code for Approval of its Acquisition of the Wastewater System Assets of the Delaware County Regional Water Quality Control Authority*, Docket No. A-2019-3015173 (Opinion and Order entered Aug. 27, 2020) at 10.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

In re: Application of Pennsylvania-American Water Company under Sections 1102(a) and 1329 of the Pennsylvania Public Utility Code, 66 Pa C.S.§§ 1102(a) and 1329, for approval of (1) the transfer, by sale, to Pennsylvania-American Water Company, of substantially all of the assets, properties and rights related to the wastewater system owned and operated by the East Coventry Township, and (2) the rights of Pennsylvania- American Water Company to begin to offer or furnish wastewater service to the public in the Township of East Coventry, Chester County, Pennsylvania

Docket No. A-2025-3053487, *et al.*

VERIFICATION

I, Michael Salvo, hereby state that the facts above set forth in the attached Responses are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.



Michael Salvo, Director – Business Development
Pennsylvania-American Water Company

Date: February 19, 2026

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

In re: Application of Pennsylvania-American Water Company under Sections 1102(a) and 1329 of the Pennsylvania Public Utility Code, 66 Pa C.S. §§ 1102(a) and 1329, for approval of (1) the transfer, by sale, to Pennsylvania-American Water Company, of substantially all of the assets, properties and rights related to the wastewater system owned and operated by the East Coventry Township, and (2) the rights of Pennsylvania-American Water Company to begin to offer or furnish wastewater service to the public in the Township of East Coventry, Chester County, Pennsylvania

Docket No. A-2025-3053487, *et al.*

VERIFICATION

I, Dr. Christina E. Chard, hereby state that the facts set forth in the attached responses, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: February 19, 2026



Dr. Christina E. Chard
Senior Director of Rates and Regulatory
Pennsylvania-American Water Company