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VIA eFiling

August 4, 2022

Rosemary Chiavetta, Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

Re: Application of Pennsylvania-American Water Company-Wastewater Division for approval of the rights to: (1) acquire, by sale, certain wastewater system assets of Foster Township; and (2) begin to offer, render, furnish and supply wastewater service to the public in portions of Foster Township, Luzerne County, Pennsylvania

Docket No. A-2021-3028676

Dear Secretary Chiavetta:

On August 3, 2022, in response to the Commission's Order dated July 14, 2022, Ordering Paragraph 2b, Pennsylvania-American Water Company filed a copy of the Pennsylvania Department of Environmental Protection Approval Letter - Official Plan Update Revision - Act 537 Official Sewage Facilities Plan update for Foster Township to reflect the change of ownership of Foster Township's wastewater assets to Pennsylvania-American Water Company - Wastewater Division. Please find enclosed a copy of the respective Act 537 Plan Update as submitted by Entech Engineering, Inc. to the Department of Environmental Protection on June 21, 2022.

A copy of the Plan Update is being served upon the parties listed on the enclosed Certificate of Service.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Teresa Harrold", written over a horizontal line.

Teresa K. Harrold

Enclosures

cc: Certificate of Service
Matthew T. Lamb, P.E. VIA E-Mail at mlamb@pa.gov



FOSTER TOWNSHIP

LUZERNE COUNTY, PENNSYLVANIA

ACT 537 PLAN UPDATE

Prepared by:



Entech Engineering, Inc.
201 Penn Street | Reading, PA 19601
(p) 610.373.6667 (f) 610.373.7537

Project No.: 5400.034

Issued for DEP: June 21, 2022

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Appendix B – Sanitary Sewer Collection System Investigation Reports

Act 537 Plan Checklist

Please refer to the attached Act 537 Plan Content and Environmental Assessment Checklist.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

INSTRUCTIONS FOR COMPLETING ACT 537 PLAN CONTENT AND ENVIRONMENTAL ASSESSMENT CHECKLIST

Remove and recycle these instructions prior to submission.

CHECKLIST INSTRUCTIONS

These instructions are designed to assist the applicant in completing the *Act 537 Plan Content and Environmental Assessment Checklist*.

This checklist is composed of three parts: one for "General Information," one for "Administrative Completeness," and one for "General Plan Content". A plan must be **administratively complete** in order to be formally reviewed by the Department of Environmental Protection (DEP). The "General Plan Content" portion of the checklist identifies each of the issues that must be addressed in your Act 537 Plan Update based on the pre-planning meeting between you and/or your consultant and DEP.

Use the right-hand column blanks in the checklist to identify the page in the plan on which each planning issue is found or to reference a previously approved update or special study (title and page number).

If you determine a planning issue is not applicable even though it was previously thought to be needed, please explain your decision within the text of the plan (or as a footnote) and indicate the page number where this documentation is found.

When information required as part of an official plan update revision has been developed separately or in a previous update revision, incorporate the information by reference to the planning document and page.

For specific details covering the Act 537 planning requirements, refer to 25 Pa. Code Chapters 71 and 73 of DEP's regulations.

Wastewater projects proposing funding through the following sources must prepare an "Environmental Report" as described in the Uniform Environmental Review (UER) process and include it with the plan submission designated as "Plan-Appendix A". The following funding programs use the UER process.

- The Clean Water State Revolving Loan Fund (PENNVEST, DEP, EPA)
- The RUS Water and Waste Disposal Grant and Loan Program (USDA-RD)
- The Community Development Block Grant Program (DCED, HUG)
- Other Federal Funding Efforts (EPA)

The checklist items or portions of checklist items required in the Act 537 Plan Update revision and that are also included in the UER process are indicated by **shading**. Most of the "Environmental Report" document may be constructed from the Act 537 Official Plan Update revision by using "copy & paste" techniques. The technical guidance document *Guidelines for the Uniform Environmental Review Process in Pennsylvania* (381-5511-111) is available electronically in DEP's eLibrary online at www.dep.pa.gov.

After Municipal Adoption by Resolution, submit 3 copies of the plan, any attachments or addenda and this checklist to DEP.

A copy of this completed checklist must be included with your Act 537 plan. DEP will use the "DEP USE ONLY" column during the completeness evaluation of the plan. This column may also be used by DEP during the pre-planning meeting with the municipality to identify planning elements that are not required to be included in the plan.



ACT 537 PLAN CONTENT AND ENVIRONMENTAL ASSESSMENT CHECKLIST

PART 1 GENERAL INFORMATION

A. Project Information

1. Project Name Foster Township Act 537 Plan Update

2. Brief Project Description This Plan Update is to document the purchase of the collection system owned by Foster Township on the West side of the Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company (PAWC).

B. Client (Municipality) Information

Municipality Name	County	City	Boro	Twp
Foster	Luzerne	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Malloy	Wilson			Chairman

Additional Individual Last Name	First Name	MI	Suffix	Title
Pavuk	John			Vice-Chairman

Municipality Mailing Address Line 1	Mailing Address Line 2
1000 Wyoming Avenue	

Address Last Line -- City	State	ZIP+4
Freeland	PA	18224

Phone + Ext.	FAX (optional)	Email (optional)
570-636-3757	570-636-3584	foster1@ptd.net

C. Site Information

Site (or Project) Name
Foster Township (Municipal Name) Act 537 Plan

Site Location Line 1	Site Location Line 2
West Side Sanitary Sewer Collection System	

D. Project Consultant Information

Last Name	First Name	MI	Suffix
Peters	Mary		

Title	Consulting Firm Name
Project Manager	Entech Engineering, Inc.

Mailing Address Line 1	Mailing Address Line 2
239 S. Mountain Blvd	Suite 300

Address Last Line – City	State	ZIP+4	Country
Mountain Top	PA	18707	USA

Email	Phone + Ext.	FAX
mpeters@entecheng.com	570-868-0275	

PART 2 ADMINISTRATIVE COMPLETENESS CHECKLIST

DEP Use Only	Indicate Page #(s) in Plan	In addition to the main body of the plan, the plan must include items one through eight listed below to be accepted for formal review by DEP. Incomplete plans may be denied unless the municipality is clearly requesting an advisory review.
_____	<u>TOC-1</u>	1. Table of Contents 2. Plan Summary
_____	<u>Planning Summary -1</u>	A. Identify the proposed service areas and major problems evaluated in the plan. (Reference - 25 Pa. Code §71.21(a)(7)(i)).
_____	<u>Planning Summary -2</u>	B. Identify the alternative(s) chosen to solve the problems and serve the areas of need identified in the plan. Also, include any institutional arrangements necessary to implement the chosen alternative(s). (Reference - 25 Pa. Code §71.21(a)(7)(ii)).
_____	<u>Planning Summary -2</u>	C. Present the estimated cost of implementing the proposed alternative (including the user fees) and the proposed funding method to be used. (Reference - 25 Pa. Code §71.21(a)(7)(ii)).
_____	<u>Planning Summary -2</u>	D. Identify the municipal commitments necessary to implement the Plan. (Reference - 25 Pa. Code §71.21(a)(7)(iii)).
_____	<u>Planning Summary -3</u>	E. Provide a schedule of implementation for the project that identifies the major milestones with dates necessary to accomplish the project to the point of operational status. (Reference - 25 Pa. Code §71.21(a)(7)(iv)).
_____	<u>Municipal Adoption</u>	3. Municipal Adoption: <i>Original</i> , signed and sealed Resolution of Adoption by the municipality which contains, at a minimum, alternatives chosen and a commitment to implement the Plan in accordance with the implementation schedule. (Reference - 25 Pa. Code §71.31(f)) Section V.F. of the Planning Guide.
_____	<u>Planning Agency Correspondence - 1</u>	4. Planning Commission / County Health Department Comments: Evidence that the municipality has requested, reviewed and considered comments by appropriate official planning agencies of the municipality, planning agencies of the county, planning agencies with area wide jurisdiction (where applicable), and any existing county or joint county departments of health. (Reference - 25 Pa. Code §71.31(b)) Section V.E.1 of the Planning Guide.
_____	<u>Public Notification -1</u>	5. Publication: Proof of Public Notice which documents the proposed plan adoption, plan summary, and the establishment and conduct of a 30-day comment period. (Reference - 25 Pa. Code §71.31(c)) Section V.E.2 of the Planning Guide.
_____	<u>Comments and Responses -1</u>	6. Comments and Responses: Copies of all written comments received and municipal response to each comment in relation to the proposed plan. (Reference - 25 Pa. Code §71.31(c)) Section V.E.2 of the Planning Guide.
_____	<u>Implementation Schedule - 1</u>	7. Implementation Schedule: A complete project implementation schedule with milestone dates specific for each existing and future area of need. Other activities in the project implementation schedule should be indicated as occurring a finite number of days from a major milestone. (Reference - 25 Pa. Code §71.31(d)) Section V.F. of the Planning Guide. Include dates for the future initiation of feasibility evaluations in the project's implementation schedule for areas proposing completion of sewage facilities for planning periods in excess of five years. (Reference - 25 Pa. Code §71.21(c)).
_____	<u>Consistency Documentation -1</u>	8. Consistency Documentation: Documentation indicating that the appropriate agencies have received, reviewed and concurred with the method proposed to resolve identified inconsistencies within the proposed alternative and consistency requirements in 25 Pa. Code §71.21.(a)(5)(i-iii). (Reference - 25 Pa. Code §71.31(e)). Appendix B of the Planning Guide.

PART 3 GENERAL PLAN CONTENT CHECKLIST

DEP Use Only	Indicate Page #(s) in Plan	Item Required
_____	<u>I-1</u>	I. Previous Wastewater Planning
_____	<u>I-1</u>	A. Identify, describe and briefly analyze all past wastewater planning for its impact on the current planning effort:
_____	<u>I-1</u>	1. Previously undertaken under the Pennsylvania Sewage Facilities Act (Act). (Reference - Act 537, 35 P.S. §750.5(d)(1)).
_____	<u>I-1</u>	2. Has not been carried out according to an approved implementation schedule contained in the plans. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A-D)). Section V.F of the Planning Guide.
_____	<u>I-1</u>	3. Is anticipated or planned by applicable sewer authorities or approved under a Chapter 94 Corrective Action Plan. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A&B)). Section V.D. of the Planning Guide.
_____	<u>I-1</u>	4. Through planning modules for new land development, planning “exemptions” and addenda. (Reference - 25 Pa. Code §71.21(a)(5)(i)(A)).
_____	<u>II-1</u>	II. Physical and Demographic Analysis utilizing written description and mapping (All items listed below require maps, and all maps should show all current lots and structures and be of appropriate scale to clearly show significant information).
_____	<u>II-1</u>	A. Identification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries. (Reference – 25 Pa. Code §71.21(a)(1)(i)).
_____	<u>II-1</u>	B. Identification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area). (Reference - 25 Pa. Code §71.21(a)(1)(ii)).
_____	<u>II-2</u>	C. Soils - Analysis with description by soil type and soils mapping for areas not presently served by sanitary sewer service. Show areas suitable for in-ground onlot systems, elevated sand mounds, individual residential spray irrigation systems (IRSIS), and areas unsuitable for soil dependent systems. (Reference - 25 Pa. Code §71.21(a)(1)(iii)). Show Prime Agricultural Soils and any locally protected agricultural soils. (Reference - 25 Pa. Code §71.21(a)(1)(iii)).
_____	<u>II-2</u>	D. Geologic Features - (1) Identification through analysis, (2) mapping and (3) their relation to existing or potential nitrate-nitrogen pollution and drinking water sources. Include areas where existing nitrate-nitrogen levels are in excess of 5 mg/L. (Reference - 25 Pa. Code §71.21(a)(1)(iii)).
_____	<u>II-2</u>	E. Topography - Depict areas with slopes that are suitable for conventional systems; slopes that are suitable for elevated sand mounds and slopes that are unsuitable for onlot systems. (Reference - 25 Pa. Code §71.21(a)(1)(ii)).
_____	<u>II-2</u>	F. Potable Water Supplies - Identification through mapping, description and analysis. Include public water supply service areas and available public water supply capacity and aquifer yield for groundwater supplies. (Reference - 25 Pa. Code §71.21(a)(1)(vi)). Section V.C. of the Planning Guide.
_____	<u>II-2</u>	G. Wetlands-Identify wetlands as defined in 25 Pa. Code Chapter 105 by description, analysis and mapping. Include National Wetland Inventory mapping and potential wetland areas per the United States Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS) mapped hydric soils. Proposed collection, conveyance and treatment facilities and lines must be located and labeled, along with the identified wetlands, on the map. (Reference - 25 Pa. Code §71.21(a)(1)(v)). Appendix B, Section II.I of the Planning Guide.

- _____ III-1 **III. Existing Sewage Facilities in the Planning Area - Identifying the Existing Needs**
- A. Identify, map and describe municipal and non-municipal, individual and community sewerage systems in the planning area including:
- _____ III-1 1. Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements. (Reference - 25 Pa. Code §71.21(a)(2)(i)(A)).
- _____ III-3 2. A narrative and schematic diagram of the facility's basic treatment processes including the facility's National Pollutant Discharge Elimination System (NPDES) permitted capacity, and the Clean Streams Law permit number. (Reference - 25 Pa. Code §71.21(a)(2)(i)(A)).
- _____ III-3 3. A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under 25 Pa. Code Chapter 94 (relating to municipal wasteload management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of DEP. (Reference - 25 Pa. Code §71.21(a)(2)(i)(B)).
- _____ III-4 4. Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i & ii)).
- _____ III-4 5. A detailed description of the municipality's operation and maintenance (O & M) requirements for small flow treatment facility systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs (SMPs). (Reference - 25 Pa. Code §71.21(a)(2)(i)(C)).
- _____ III-4 6. Disposal areas, if other than stream discharge, and any applicable groundwater limitations. (Reference - 25 Pa. Code §71.21(a)(4)(i & ii)).
- _____ III-4 B. Using DEP's publication titled *Act 537 Sewage Disposal Needs Identification* (3800-BK-DEP1949), identify, map and describe areas that utilize individual and community onlot sewage disposal and, unpermitted collection and disposal systems ("wildcat" sewers, borehole disposal, etc.) and retaining tank systems in the planning area including:
- _____ III-4 1. The types of onlot systems in use. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(A)).
- _____ III-4 2. A sanitary survey complete with description, map and tabulation of documented and potential public health, pollution, and operational problems (including malfunctioning systems) with the systems, including violations of local ordinances, the Act, the Clean Stream Law or regulations promulgated thereunder. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(B)).
- _____ III-4 3. A comparison of the types of onlot sewage systems installed in an area with the types of systems which are appropriate for the area according to soil, geologic conditions, topographic limitations sewage flows, and 25 Pa. Code Chapter 73 (relating to standards for sewage disposal facilities). (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- _____ III-4 4. An individual water supply survey to identify possible contamination by malfunctioning onlot sewage disposal systems consistent with DEP's *Act 537 Sewage Disposal Needs Identification* publication. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(B)).

- | | | |
|---------------|--------------|---|
| <u> </u> | <u>III-4</u> | 5. Detailed description of O & M requirements of the municipality for individual and small volume community onlot systems, including the status of past and present compliance with these requirements and any other requirements relating to SMPs. (Reference - 25 Pa. Code §71.21(a)(2)(i)(C)). |
| <u> </u> | <u>III-4</u> | C. Identify wastewater sludge and septage generation, transport and disposal methods. Include this information in the sewage facilities alternative analysis including: |
| <u> </u> | <u>III-4</u> | 1. Location of sources of wastewater sludge or septage (Septic tanks, holding tanks, wastewater treatment facilities). (Reference – 25 Pa. Code §71.71). |
| <u> </u> | <u>III-4</u> | 2. Quantities of the types of sludges or septage generated. (Reference - 25 Pa. Code §71.71). |
| <u> </u> | <u>III-4</u> | 3. Present disposal methods, locations, capacities and transportation methods. (Reference - 25 Pa. Code §71.71). |
| <u> </u> | <u>IV-1</u> | IV. Future Growth and Land Development |
| <u> </u> | | A. Identify and briefly summarize all municipal and county planning documents adopted pursuant to the Pennsylvania Municipalities Planning Code (Act 247) including: |
| <u> </u> | <u>IV-1</u> | 1. All land use plans and zoning maps that identify residential, commercial, industrial, agricultural, recreational and open space areas. (Reference - 25 Pa. Code §71.21(a)(3)(iv)). |
| <u> </u> | <u>IV-1</u> | 2. Zoning or subdivision regulations that establish lot sizes predicated on sewage disposal methods. (Reference – 25 Pa. Code §71.21(a)(3)(iv)). |
| <u> </u> | <u>IV-1</u> | 3. All limitations and plans related to floodplain and stormwater management and special protection (25 Pa. Code Chapter 93) areas. (Reference - 25 Pa. Code §71.21(a)(3)(iv)) Appendix B, Section II.F of the Planning Guide. |
| <u> </u> | <u>IV-1</u> | B. Delineate and describe the following through map, text and analysis. |
| <u> </u> | <u>IV-1</u> | 1. Areas with existing development or plotted subdivisions. Include the name, location, description, total number of equivalent dwelling units (EDUs) in development, total number of EDUs currently developed and total number of EDUs remaining to be developed (include time schedule for EDUs remaining to be developed). (Reference - 25 Pa. Code §71.21(a)(3)(i)). |
| <u> </u> | <u>IV-1</u> | 2. Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas. (Reference - 25 Pa. Code §71.21(a)(3)(ii)). Include a comparison of proposed land use as allowed by zoning and existing sewage facility planning. (Reference - 25 Pa. Code §71.21(a)(3)(iv)). |
| <u> </u> | <u>IV-1</u> | 3. Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities. (Reference - 25 Pa. Code §71.21(a)(1)(iv) and (a)(3)(iii)). |
| <u> </u> | <u>IV-2</u> | 4. Zoning, and/or subdivision regulations; local, county or regional comprehensive plans; and existing plans of any other agency relating to the development, use and protection of land and water resources with special attention to: (Reference - 25 Pa. Code §71.21(a)(3)(iv)).
--public ground/surface water supplies
--recreational water use areas
--groundwater recharge areas
--industrial water use
--wetlands |

_____ IV-3 5. Sewage planning necessary to provide adequate wastewater treatment for 5 and 10-year future planning periods based on projected growth of existing and proposed wastewater collection and treatment facilities. (Reference - 25 Pa. Code §71.21(a)(3)(v)).

_____ V-1 **V. Identify Alternatives to Provide New or Improved Wastewater Disposal Facilities**

_____ V-1 A. Conventional collection, conveyance, treatment and discharge alternatives including:

_____ V-1 1. The potential for regional wastewater treatment. (Reference - 25 Pa. Code §71.21(a)(4)).

_____ V-1 2. The potential for extension of existing municipal or non-municipal sewage facilities to areas in need of new or improved sewage facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i)).

_____ V-1 3. The potential for the continued use of existing municipal or non-municipal sewage facilities through one or more of the following: (Reference - 25 Pa. Code §71.21(a)(4)(ii)).

_____ V-1 a. Repair. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)).

_____ V-1 b. Upgrading. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)).

_____ V-1 c. Reduction of hydraulic or organic loading to existing facilities. (Reference - 25 Pa. Code §71.71).

_____ V-1 d. Improved O & M. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(C)).

_____ V-1 e. Other applicable actions that will resolve or abate the identified problems. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(D)).

_____ V-2 4. Repair or replacement of existing collection and conveyance system components. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)).

_____ V-2 5. The need for construction of new community sewage systems including sewer systems and/or treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iii)).

_____ V-2 6. Use of innovative/alternative methods of collection/conveyance to serve needs areas using existing wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)).

_____ V-3 B. The use of individual sewage disposal systems including IRSIS systems based on:

_____ V-3 1. Soil and slope suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).

_____ V-3 2. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).

_____ V-3 3. The establishment of a SMP. (Reference - 25 Pa. Code §71.21(a)(4)(iv)). See also Part "F" below.

_____ V-3 4. The repair, replacement or upgrading of existing malfunctioning systems in areas suitable for onlot disposal considering: (Reference - 25 Pa. Code §71.21(a)(4)).

_____ V-3 a. Existing technology and sizing requirements of 25 Pa. Code Chapter 73. (Reference - 25 Pa. Code §73.31-§73.72).

_____ V-3 b. Use of expanded absorption areas or alternating absorption areas. (Reference - 25 Pa. Code §73.16).

_____ V-3 c. Use of water conservation devices. (Reference - 25 Pa. Code §71.73(b)(2)(iii)).

- _____ V-3 C. The use of small flow sewage treatment facilities or package treatment facilities to serve individual homes or clusters of homes with consideration of: (Reference - 25 Pa. Code §71.64(d)).
- _____ V-3 1. Treatment and discharge requirements. (Reference - 25 Pa. Code §71.64(d)).
- _____ V-3 2. Soil suitability. (Reference - 25 Pa. Code §71.64(c)(1)).
- _____ V-3 3. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.64(c)(2)).
- _____ V-3 4. Municipal, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 Pa. Code §71.64(d)). See Part "F" below.
- _____ V-3 D. The use of community land disposal alternatives including:
- _____ V-3 1. Soil and site suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- _____ V-3 2. Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
- _____ V-3 3. Municipality, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)). See Part "F" below.
- _____ V-3 4. The rehabilitation or replacement of existing malfunctioning community land disposal systems. (See Part "V", B, 4, a, b, c above). See also Part "F" below.
- _____ V-3 E. The use of retaining tank alternatives on a temporary or permanent basis including: (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ V-3 1. Commercial, residential and industrial use. (Reference - 25 Pa. Code §71.63(e)).
- _____ V-3 2. Designated conveyance facilities (pumper trucks). (Reference - 25 Pa. Code §71.63(b)(2)).
- _____ V-3 3. Designated treatment facilities or disposal site. (Reference - 25 Pa. Code §71.63(b)(2)).
- _____ V-3 4. Implementation of a retaining tank ordinance by the municipality. (Reference - 25 Pa. Code §71.63(c)(3)). See Part "F" below.
- _____ V-3 5. Financial guarantees when retaining tanks are used as an interim sewage disposal measure. (Reference - 25 Pa. Code §71.63(c)(2)).
- _____ V-3 F. SMPs to assure the future O & M of existing and proposed sewage facilities through:
- _____ V-3 1. Municipal ownership or control over the O & M of individual onlot sewage disposal systems, small flow treatment facilities, or other traditionally non-municipal treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iv)).
- _____ V-3 2. Required inspection of sewage disposal systems on a schedule established by the municipality. (Reference - 25 Pa. Code §71.73(b)(1)).
- _____ V-3 3. Required maintenance of sewage disposal systems including septic and aerobic treatment tanks and other system components on a schedule established by the municipality. (Reference - 25 Pa. Code §71.73(b)(2)).
- _____ V-3 4. Repair, replacement or upgrading of malfunctioning onlot sewage systems. (Reference - 25 Pa. Code §71.21(a)(4)(iv) and §71.73(b)(5)) through:
- _____ V-3 a. Aggressive pro-active enforcement of ordinances that require O & M and prohibit malfunctioning systems. (Reference - 25 Pa. Code §71.73(b)(5)).
- _____ V-3 b. Public education programs to encourage proper O & M and repair of sewage disposal systems.
- _____ V-3 5. Establishment of joint municipal SMPs. (Reference - 25 Pa. Code

§71.73(b)(8)).

- _____ V-3 6. Requirements for bonding, escrow accounts, management agencies or associations to assure O & M for non-municipal facilities. (Reference - 25 Pa. Code §71.71).
- _____ V-3 G. Non-structural comprehensive planning alternatives that can be undertaken to assist in meeting existing and future sewage disposal needs including: (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 1. Modification of existing comprehensive plans involving:
 - _____ V-3 a. Land use designations. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 b. Densities. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 c. Municipal ordinances and regulations. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 d. Improved enforcement. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 e. Protection of drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 2. Consideration of a local comprehensive plan to assist in producing sound economic and consistent land development. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 3. Alternatives for creating or changing municipal subdivision regulations to assure long-term use of on-site sewage disposal that consider lot sizes and protection of replacement areas. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 4. Evaluation of existing local agency programs and the need for technical or administrative training. (Reference - 25 Pa. Code §71.21(a)(4)).
- _____ V-3 H. A no-action alternative which includes discussion of both short-term and long-term impacts on: (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 1. Water quality/public health. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 2. Growth potential (residential, commercial, industrial). (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 3. Community economic conditions. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 4. Recreational opportunities. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 5. Drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
 - _____ V-3 6. Other environmental concerns. (Reference - 25 Pa. Code §71.21(a)(4)).

_____ VI-1 **VI. Evaluation of Alternatives**

A. Technically feasible alternatives identified in Section V of this checklist must be evaluated for consistency with respect to the following: (Reference - 25 Pa. Code §71.21(a)(5)(i)).

- _____ VI-1 1. Applicable plans developed and approved under **Sections 4 and 5 of the Clean Streams Law or Section 208 of the Clean Water Act** (33 U.S.C.A. 1288). (Reference - 25 Pa. Code §71.21(a)(5)(i)(A)). Appendix B, Section II.A of the Planning Guide.
- _____ VI-1 2. Municipal wasteload management **Corrective Action Plans or Annual Reports** developed under 25 Pa. Code Chapter 94. (Reference - 25 Pa. Code §71.21(a)(5)(i)(B)). The municipality's recent Wasteload Management (25 Pa. Code Chapter 94) Reports should be examined to determine if the proposed alternative is consistent with the recommendations and findings of the report. Appendix B, Section II.B of the Planning Guide.
- _____ VI-1 3. Plans developed under **Title II of the Clean Water Act** (33 U.S.C.A.

1281-1299) or **Titles II and VI of the Water Quality Act of 1987** (33 U.S.C.A 1251-1376). (Reference - 25 Pa. Code §71.21(a)(5)(i)(C)). Appendix B, Section II.E of the Planning Guide.

- | | | |
|-------|-------------|---|
| _____ | <u>VI-2</u> | 4. Comprehensive plans developed under the Pennsylvania Municipalities Planning Code. (Reference - 25 Pa. Code §71.21(a)(5)(i)(D)). The municipality's comprehensive plan must be examined to assure that the proposed wastewater disposal alternative is consistent with land use and all other requirements stated in the comprehensive plan. Appendix B, Section II.D of the Planning Guide. |
| _____ | <u>VI-2</u> | 5. Antidegradation requirements as contained in 25 Pa. Code Chapters 93, 95 and 102 (relating to water quality standards, wastewater treatment requirements and erosion control) and the Clean Water Act. (Reference - 25 Pa. Code §71.21(a)(5)(i)(E)). Appendix B, Section II.F of the Planning Guide. |
| _____ | <u>VI-2</u> | 6. State Water Plans developed under the Water Resources Planning Act (42 U.S.C.A. 1962-1962 d-18). (Reference - 25 Pa. Code §71.21(a)(5)(i)(F)). Appendix B, Section II.C of the Planning Guide. |
| _____ | <u>VI-2</u> | 7. Pennsylvania Prime Agricultural Land Policy contained in Title 4 of the Pennsylvania Code, Chapter 7, Subchapter W. Provide narrative on local municipal policy and an overlay map on prime agricultural soils. (Reference - 25 Pa. Code §71.21(a)(5)(i)(G)). Appendix B, Section II.G of the Planning Guide. |
| _____ | <u>VI-2</u> | 8. County Stormwater Management Plans approved by DEP under the Storm Water Management Act (32 P.S. 680.1-680.17). (Reference - 25 Pa. Code §71.21(a)(5)(i)(H)). Conflicts created by the implementation of the proposed wastewater alternative and the existing recommendations for the management of stormwater in the county Stormwater Management Plan must be evaluated and mitigated. If no plan exists, no conflict exists. Appendix B, Section II.H of the Planning Guide. |
| _____ | <u>VI-3</u> | 9. Wetland Protection. Using wetland mapping developed under Checklist Section II.G, identify and discuss mitigative measures including the need to obtain permits for any encroachments on wetlands from the construction or operation of any proposed wastewater facilities. (Reference - 25 Pa. Code §71.21(a)(5)(i)(I)) Appendix B, Section II.I of the Planning Guide. |
| _____ | <u>VI-3</u> | 10. Protection of rare, endangered or threatened plant and animal species as identified by the Pennsylvania Natural Diversity Inventory (PNDI). (Reference - 25 Pa. Code §71.21(a)(5)(i)(J)). Provide DEP with a copy of the completed <i>PNDI Manual Project Submission Form</i> . Also provide a copy of the response letters from the 4 jurisdictional agencies regarding the findings of the PNDI search. Appendix B, Section II.J of the Planning Guide. |
| _____ | <u>VI-4</u> | 11. Historical and archaeological resource protection under P.C.S. Title 37, Section 507 relating to cooperation by public officials with the Pennsylvania Historical and Museum Commission (PHMC). (Reference - 25 Pa. Code §71.21(a)(5)(i)(K)). Provide DEP with a completed copy of a <i>Cultural Resource Notice</i> and a return receipt for its submission to PHMC. Provide a copy of the response letter or review stamp from the Bureau of Historic Preservation (BHP) indicating the project will have no effect on, or that there may be potential impacts on, known archaeological and historical sites and any avoidance and mitigation measures required. Appendix B, Section II.K of the Planning Guide. |

- _____ VI-4 B. Provide for the resolution of any inconsistencies in any of the points identified in Section VI.A. of this checklist by submitting a letter from the appropriate agency stating that the agency has received, reviewed and concurred with the resolution of identified inconsistencies. (Reference - 25 Pa. Code §71.21(a)(5)(ii). Appendix B of the Planning Guide.
- _____ VI-4 C. Evaluate alternatives identified in Section V of this checklist with respect to applicable water quality standards, effluent limitations or other technical, legislative or legal requirements. (Reference - 25 Pa. Code §71.21(a)(5)(iii)).
- _____ VI-4 D. Provide cost estimates using present worth analysis for construction, financing, ongoing administration, O & M and user fees for alternatives identified in Section V of this checklist. Estimates shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of plan submission. (Reference - 25 Pa. Code §71.21(a)(5)(iv)).
- _____ VI-5 E. Provide an analysis of the funding methods available to finance the proposed alternatives evaluated in Section V of this checklist. Also provide documentation to demonstrate which alternative and financing scheme combination is the most cost-effective; and a contingency financial plan to be used if the preferred method of financing cannot be implemented. The funding analysis shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of the plan submission. (Reference - 25 Pa. Code §71.21(a)(5)(v)).
- _____ VI-5 F. Analyze the need for immediate or phased implementation of each alternative proposed in Section V of this checklist including: (Reference - 25 Pa. Code §71.21(a)(5)(vi)).
- _____ VI-5 1. A description of any activities necessary to abate critical public health hazards pending completion of sewage facilities or implementation of SMPs. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(A)).
- _____ VI-5 2. A description of the advantages, if any, in phasing construction of the facilities or implementation of a SMP justifying time schedules for each phase. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(B)).
- _____ VI-5 G. Evaluate administrative organizations and legal authority necessary for plan implementation. (Reference - 25 Pa. Code §71.21(a)(5)(vi)(D)).
- _____ VII-1 **VII. Institutional Evaluation**
- _____ VII-1 A. Provide an analysis of all existing wastewater treatment authorities, their past actions and present performance including:
- _____ VII-1 1. Financial and debt status. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-1 2. Available staff and administrative resources. (Reference - 25 Pa. Code §71.61(d)(2))
- _____ VII-1 3. Existing legal authority to:
- _____ VII-1 a. Implement wastewater planning recommendations. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-1 b. Implement system-wide O & M activities. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-1 c. Set user fees and take purchasing actions. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-1 d. Take enforcement actions against ordinance violators. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-1 e. Negotiate agreements with other parties. (Reference - 25 Pa. Code §71.61(d)(2)).

- _____ VII-1 f. Raise capital for construction and O & M of facilities. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-2 B. Provide an analysis and description of the various institutional alternatives necessary to implement the proposed technical alternatives including:
- _____ VII-2 1. Need for new municipal departments or municipal authorities. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-2 2. Functions of existing and proposed organizations (sewer authorities, onlot maintenance agencies, etc.). (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-2 3. Cost of administration, implementability, and the capability of the authority/agency to react to future needs. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-2 C. Describe all necessary administrative and legal activities to be completed and adopted to ensure the implementation of the recommended alternative including:
- _____ VII-3 1. Incorporation of authorities or agencies. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-3 2. Development of all required ordinances, regulations, standards and inter-municipal agreements. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-3 3. Description of activities to provide rights-of-way, easements and land transfers. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-4 4. Adoption of other municipal sewage facilities plans. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-4 5. Any other legal documents. (Reference - 25 Pa. Code §71.61(d)(2)).
- _____ VII-4 6. Dates or timeframes for items 1-5 above on the project's implementation schedule.
- _____ VII-4 D. Identify the proposed institutional alternative for implementing the chosen technical wastewater disposal alternative. Provide justification for choosing the specific institutional alternative considering administrative issues, organizational needs and enabling legal authority. (Reference - 25 Pa. Code §71.61(d)(2)).

- _____ VIII-1 **VIII. Implementation Schedule and Justification for Selected Technical & Institutional Alternatives**
- _____ VIII-1 A. Identify the technical wastewater disposal alternative which best meets the wastewater treatment needs of each study area of the municipality. Justify the choice by providing documentation which shows that it is the best alternative based on:
- _____ VIII-1 1. Existing wastewater disposal needs. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ VIII-1 2. Future wastewater disposal needs. (5 and 10 year growth areas). (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ VIII-1 3. O & M considerations. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ VIII-2 4. Cost-effectiveness. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ VIII-2 5. Available management and administrative systems. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ VIII-2 6. Available financing methods. (Reference - 25 Pa. Code §71.21(a)(6)).
- _____ VIII-2 7. Environmental soundness and compliance with natural resource planning and preservation programs. (Reference - 25 Pa. Code §71.21(a)(6)).

- _____ VIII-2 B. Designate and describe the capital financing plan chosen to implement the selected alternative(s). Designate and describe the chosen back-up financing plan. (Reference - 25 Pa. Code §71.21(a)(6))
- _____ VIII-2 C. Designate and describe the implementation schedule for the recommended alternative, including justification for any proposed phasing of construction or implementation of a SMP. (Reference – 25 Pa. Code §71.31(d))

- _____ IX-1
- _____ IX-1

IX. Environmental Report (ER) generated from the UER Process

- A. Complete an ER as required by the UER process and as described in the DEP Technical Guidance (381-5511-111). Include this document as “Appendix A” to the Act 537 Plan Update Revision. **Note: An ER is required only for Wastewater projects proposing funding through any of the funding sources identified in the UER.**

ADDITIONAL REQUIREMENTS FOR PENNVEST PROJECTS

Municipalities that propose to implement their official sewage facilities plan updates with PENNVEST funds must meet 6 additional requirements to be eligible for such funds. See *A Guide for Preparing Act 537 Update Revisions* (362-0300-003), Appendix N for greater detail or contact the DEP regional office serving your county listed in Appendix J of the same publication.

DEP Use Only	Indicate Page #(s) in Plan	Item Required
_____	_____	1. Environmental Impact Assessment. (Planning Phase) The UER replaces the Environmental Impact Assessment that was a previous requirement for PENNVEST projects.
_____	_____	2. Cost Effectiveness (Planning Phase) The cost-effectiveness analysis should be a present-worth (or equivalent uniform annual) cost evaluation of the principle alternatives using the interest rate that is published annually by the Water Resources Council. Normally, for PENNVEST projects the applicant should select the most cost-effective alternative based upon the above analysis. Once the alternative has been selected the user fee estimates should be developed based upon interest rates and loan terms of the selected funding method.
_____		3. Second Opinion Project Review. (Design Phase)
_____		4. Minority Business Enterprise/Women's Business Enterprise (Construction Phase)
_____		5. Civil Rights. (Construction Phase)
_____		6. Initiation of Operation/Performance Certification. (Post-construction Phase)

I/A TECHNOLOGIES

PARTIAL LISTING OF INNOVATIVE AND ALTERNATIVE TECHNOLOGIES

TREATMENT TECHNOLOGIES

Aquaculture
Aquifer Recharge
Biological Aerated Filters
Constructed Wetlands
Direct Reuse (NON-POTABLE)
Horticulture
Overland Flow
Rapid Infiltration
Silviculture
Microscreens
Controlled Release Lagoons
Swirl Concentrator

SLUDGE TREATMENT TECHNOLOGIES

Aerated Static Pile Composting
Enclosed Mechanical Composting (In vessel)
Revegetation of Disturbed Land
Aerated Windrow Composting

ENERGY RECOVERY TECHNOLOGIES

Anaerobic Digestion with more than 90 percent
Methane Recovery
Cogeneration of Electricity
Self-Sustaining Incineration

INDIVIDUAL & SYSTEM-WIDE COLLECTION TECHNOLOGIES

Cluster Systems
Septage Treatment
Small Diameter Gravity Sewers
Step Pressure Sewers
Vacuum Sewers
Variable Grade Sewers
Septic Tank Effluent Pump with
Pressure Sewers

Plan Summary

This Act 537 Plan Update (Plan or Plan Update) has been prepared for Foster Township (Township), Luzerne County, pursuant to the Pennsylvania Sewage Facilities Act (Act 537 of 1968 and the Pennsylvania Code, Chapters 71, 72, and 73). This Plan Update considers the existing and future sewage disposal needs of the Township, as identified and required by the Pennsylvania Department of Environmental Protection (PADEP).

- A. *Identify the proposed service areas and major problems evaluated in the plan. (Reference - 25 Pa. Code §71.21(a)(7)(i)).*

Service Area Evaluated

The Planning Area is geographically located in the southeastern region of Luzerne County. Foster Township is bound to the north by Dennison Township; to the east by White Haven Borough and Kidder Township; to the south by Lehigh Township, Lausanne Township, and Banks Township, all within Carbon County; and to the west by Butler Township, Hazle Township, and Jeddo Borough. Foster Township also completely surrounds the Borough of Freeland.

Foster Township currently owns and operates two (2) separate sanitary sewer collection and conveyance systems.

The sanitary sewer collection system located on the East side of the Township collects wastewater from the Hickory Hills Development, Ag-Mar Estates, and a small portion along Route 940. This collection system discharges into the White Haven Borough collection system, which is owned by Aqua Pennsylvania Wastewater, Inc (APW). Wastewater is treated at APW's Wastewater Treatment Plant (WWTP) located in White Haven Borough.

The sanitary sewer collection system located on the West side of the Township collects wastewater from Sub-Area 5, Youngstown, Highland, Woodside and Upper Lehigh sections within the Township. This collection system also accepts wastewater from Butler Township (owned and operated by Butler Township) at two (2) separate locations (Sub Area 5 and Upper Lehigh). This entire collection system discharges into the Freeland Borough system, which is owned by the

Freeland Municipal Authority (FMA). Wastewater is treated at FMA's WWTP located in Foster Township.

Sewage Needs Identification

This Plan Update is to document the purchase of the collection system owned by Foster Township on the West side of the Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company (PAWC).

- B. Identify the alternative(s) chosen to solve the problems and serve the areas of need identified in the plan. Also, include any institutional arrangements necessary to implement the chosen alternative(s). (Reference - 25 Pa. Code §71.21(a)(7)(ii))*

As indicated previously, this Plan Update is to document the purchase of Foster Township's West side collection system by PAWC. PAWC has experienced management and administrative staff that are capable of operating and maintaining the sanitary sewer collection system. In order to fully implement this acquisition, all intermunicipal agreements, easements, properties, and permits that were previously obtained for the Township's portion of the sanitary sewer collection and conveyance system will be transferred from Foster Township to PAWC. This will occur prior to official closing date for the sale of the system.

- C. Present the estimated cost of implementing the proposed alternative (including the user fees) and the proposed funding method to be used. (Reference – 25 Pa. Code §71.21(a)(7)(ii)).*

PAWC will be purchasing the West side collection system for \$3,750,000, which is privately funded. This purchase will not impact existing user rates.

- D. Identify the municipal commitments necessary to implement the Plan. (Reference – 25 Pa. Code §71.21(a)(7)(iii)).*

Foster Township, Butler Township, and Freeland Borough will need to adopt this Plan Update by resolution.

- E. Provide a schedule of implementation for the project that identifies the major milestones with dates necessary to accomplish the project to the point of operational status. (Reference – 25 Pa. Code §71.21(a)(7)(iv)).

The following implementation schedule is proposed to undertake the selected alternative.

Task	Date
Submit Plan for Review by Planning Commissions (Up to 60 days) - <i>Planning Commissions of Foster Township, Butler Township, Freeland Borough, and Luzerne County</i>	February 2022
Adopt Ordinance for Industrial Pretreatment Program	March 2022
Submit Plan for Review by Public Comment (30 days minimum)	March 2022
Adopt Act 537 Plan by Resolution - <i>Foster Township, Butler Township, Freeland Borough</i>	May 2022
Submit Act 537 Plan for PADEP Approval (Up to 180 days)	June 2022
Receive Approval of Act 537 from PADEP	July 2022
Final Closing for Acquisition of Sanitary Sewer System - <i>Includes transfer of all intermunicipal agreements, easements, properties, and permits</i>	July 2022
Submit Act 537 Special Study for the Wyoming Street Pump Station to PADEP for Approval (Up to 180 days)	April 2024
Receive Approval of Act 537 Special Study from PADEP	October 2024

Municipal Adopting Resolutions

Please refer to the attached Resolutions adopted by Foster Township, Butler Township, and Freeland Borough.

RESOLUTION NO. 6 of 2022

A RESOLUTION OF FOSTER TOWNSHIP

ADOPTING THE ACT 537 SEWAGE FACILITIES PLAN UPDATE

RESOLUTION OF THE FOSTER TOWNSHIP SUPERVISORS OF LUZERNE COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities", as amended, and the Rules and Regulations of the Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the **Pennsylvania Code**, requires the municipality 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 municipality, and

WHEREAS, Foster Township has prepared an Act 537 Plan Update which provides sewage collection and conveyance from a portion of Foster Township, and

WHEREAS, this Plan Update is to document the purchase of the collection system owned by Foster Township on the West side of Foster Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company.

WHEREAS, Foster Township finds that the Plan described above conforms to applicable zoning, subdivision, other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Supervisors of Foster Township hereby adopt and submit to the Department of Environmental Protection for its approval the above referenced Facility Plan. The municipality hereby assures the Department of the complete and timely implementation of the said plan as required by law. (Section 5, Pennsylvania Sewage Facilities Act as amended).

I, *Brian Majors*, Secretary
of Foster Township, hereby certify that the foregoing is a true copy of the

Township's Resolution No. 6 of 2022 adopted
May 11th, 2022.

AUTHORIZED SIGNATURE

[Signature]



RESOLUTION NO. 05102022B

A RESOLUTION OF BUTLER TOWNSHIP

ADOPTING THE ACT 537 SEWAGE FACILITIES PLAN UPDATE

RESOLUTION OF THE BUTLER TOWNSHIP SUPERVISORS OF LUZERNE COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities", as amended, and the Rules and Regulations of the Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the **Pennsylvania Code**, requires the municipality 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 municipality, and

WHEREAS, Foster Township has prepared an Act 537 Plan Update which provides sewage collection and conveyance from a portion of Butler Township, and

WHEREAS, this Plan Update is to document the purchase of the collection system owned by Foster Township on the West side of Foster Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company.

WHEREAS, Butler Township finds that the Plan described above conforms to applicable zoning, subdivision, other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Supervisors of Butler Township hereby adopt and submit to the Department of Environmental Protection for its approval the above referenced Facility Plan. The municipality hereby assures the Department of the complete and timely implementation of the said plan as required by law. (Section 5, Pennsylvania Sewage Facilities Act as amended).

I, Frank Polidora, Secretary

of Butler Township, hereby certify that the foregoing is a true copy of the

Township's Resolution No. 05102022B adopted

May 10, 2022.

AUTHORIZED SIGNATURE

Frank Polidora



RESOLUTION NO. 2022-5-26

A RESOLUTION OF FREELAND BOROUGH

ADOPTING THE ACT 537 SEWAGE FACILITIES PLAN UPDATE

RESOLUTION OF THE FREELAND BOROUGH COUNCIL OF LUZERNE COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS, Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities", as amended, and the Rules and Regulations of the Department of Environmental Protection (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, requires the municipality 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 municipality, and

WHEREAS, Foster Township has prepared an Act 537 Plan Update which provides sewage collection and conveyance from the western portion of Foster Township to Freeland Borough, and

WHEREAS, this Plan Update is to document the purchase of the collection system owned by Foster Township on the West side of Foster Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company.

WHEREAS, Freeland Borough finds that the Plan described above conforms to applicable zoning, subdivision, other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the Council of Freeland Borough hereby adopt and submit to the Department of Environmental Protection for its approval the above referenced Facility Plan. The municipality hereby assures the Department of the complete and timely implementation of the said plan as required by law. (Section 5, Pennsylvania Sewage Facilities Act as amended).

I, Heather Donish, Secretary

of Freeland Borough, hereby certify that the foregoing is a true copy of the

Borough's Resolution No. 2022-5-26 adopted

May 26, 2022.

AUTHORIZED SIGNATURE

BOROUGH SEAL

[Handwritten Signature]



Planning Agency Correspondence

This Act 537 Plan Update has been prepared for Foster Township, Luzerne County, pursuant to the Pennsylvania Sewage Facilities Act (Act 537 of 1968 and the Pennsylvania Code, Chapters 71, 72, and 73). This Plan was submitted to all official Planning Agencies of Foster Township, Butler Township, Freeland Borough, and Luzerne County for review and comment on February 28, 2022.

Luzerne County – Correspondence was received on March 11, 2022 that indicated the Luzerne County Department of Planning & Zoning had no comments. Please refer to the attached correspondence.

Butler Township – Correspondence was received on April 7, 2022 that indicated the Butler Township Planning Commission had no comments. Please refer to the attached correspondence.

Foster Township – Correspondence was received on April 13, 2022 that indicated the Foster Township Planning Commission had no comments. Please refer to the attached correspondence.

Freeland Borough – Correspondence was received on April 13, 2022 that indicated the Freeland Borough Planning Commission had no comments, for the exception of the comments generated and entered into the record by the Borough of Freeland Municipal Authority. The following comments were received and Entech has provided responses to each comment.

1. The Freeland Municipal Authority is requesting acknowledgement in writing from Foster Township and the Pennsylvania American Water Company that they will support the Freeland Municipal Authority's Industrial Pretreatment Program and that this support may include, as needed from time to time, adoption of updated ordinances, issuance of Significant Industrial User's Permits, etc.

Response: Foster Township and PAWC and will support Freeland Municipal Authority's Industrial Pretreatment Program as requested in the April 6th letter to include, as appropriate, the issuance of Significant Industrial User Permits and maintaining updated ordinances.

2. The Freeland Municipal Authority is requesting acknowledgement in writing from Foster Township and the Pennsylvania American Water Company that they will support the Freeland Municipal Authority's Sewer Use Program and that this support may include, as needed from time to time, adoption of updated ordinances, compliance monitoring within the Foster Township Sewer System, etc.

Response: Foster Township and Pennsylvania American Water Company (PAWC) will support Freeland Municipal Authority's Sewer Use Program and this support may include, for example, Foster adopting and maintaining relevant ordinances and PAWC appropriately monitoring the sewer collection system it is acquiring from Foster.

3. The Freeland Municipal Authority is requesting acknowledgement in writing from Foster Township and the Pennsylvania American Water Company that the Freeland Municipal Authority in conjunction with and support from the Borough of Freeland and Foster Township must complete an Act 537 Plan Special Study (based on the approved Task Activity Report dated February 2014) to evaluate the technical adequacy of the Wyoming Street Pump Station and that both parties will actively participate in and support the completion of this Study.

Response: Foster Township and Pennsylvania American Water Company (PAWC), in conjunction with the Borough of Freeland and the Freeland Municipal Authority, will both actively participate in and will support the completion of the Act 537 Plan Special Study as described in the approved Task Activity Report dated February 2014.

Mary Beth Peters

From: Jones, Matthew <matthew.jones@luzernecounty.org>
Sent: Friday, March 11, 2022 10:06 AM
To: Mary Beth Peters
Subject: Response: Sewage Plan Review



To: Mary B. Peters, Professional Engineer

Ms. Peters,

We received a copy of the proposed Sewage Plan Update for Foster Township you forwarded to our attention. This Department has no comments. Thank you for providing us an opportunity to review the item. Regards.

-Matt

Matthew C. Jones, AICP
Executive Director
Luzerne County Dept.
of Planning & Zoning
20 N. Pennsylvania Ave.
Wilkes-Barre, PA 18711
Office: (570) 825-1560

If you have concerns about the validity of this message, contact the sender directly, or the Luzerne County IT Department at Cybersecurity@LuzerneCounty.org

JORDAN H. PECILE
ATTORNEY AT LAW

29TH STREET OFFICE COMPLEX • 1201A N. CHURCH STREET - SUITE 220 • HAZLETON, PENNSYLVANIA 18202
TELEPHONE (570) 501-3323 • FAX (570) 501-3324

April 7, 2022

Mary B. Peters, P.E.
Entech Engineering
239 S. Mountain Blvd. – Suite 300
Mountain Top, PA 18707

Re: Foster Township
Act 537 Sewage Facilities Plan Update
Luzerne County, PA

Dear Mary:

I serve as solicitor to the Butler Township Planning Commission, Luzerne County, Pennsylvania. The proposed Plan Update of the Foster Township Act 537 Sewage Facilities Plan has been forwarded to the planning commission for review and comment.

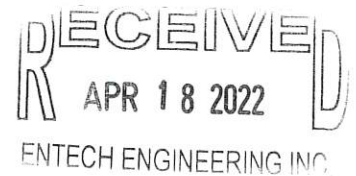
At the regular business meeting of the Butler Township Planning Commission on April 6, 2022 the members directed “no comment” on the proposed Plan Update of the Foster Township Act 537 Sewage Facilities Plan Update.



JORDAN H. PECILE, ESQ.
Solicitor, Planning Commission

E-copy:

Paul Feno: pfeno@onegroup.com
Joe Zeller josephz@eliterevenue.com
Joe Calabrese rjdjoey@ptd.net
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Roseann Ervin raervin@ptd.net
Ned Warner warnern1@ptd.net
Greg Kurtz gkurtz@barryisett.com
Jennifer Pecora jpecora@butlertownship.org
Frank Polidora, M.D. fmpolidora@gmail.com
Charles Altmiller cpaltmiller@yahoo.com
Michael Reich m.reich77@yahoo.com
Jane Reakes jreakes@butlertownship.org



April 13, 2022

Mary B. Peters, Project Manager
Entech Engineering
201 Penn Street
Reading, PA 19601

RE: Foster Township
Act 537 Sewage Facilities Plan Update

Dear Ms. Peters:

Please be advised that our office serves as Solicitor to the Borough of Freeland with crossover to the Freeland Borough Planning Commission.

In furtherance of your communication of March 4, 2022 relative to the Act 537 Update for Foster Township, please be advised that the Freeland Borough Planning Commission convened a special meeting on April 11, 2022 in furtherance of proper advertising and at that time reviewed the proposed Act 537 Update.

With the exception of the comments generated and entered into the record by the Borough of Freeland Municipal Authority, copy enclosed, there were no additional comments of recommendations to be made by this Planning Commission.

Could you please incorporate this communication along with Freeland Municipal Authority's comments for purposes of further processing of the Act 537 submissions.

Thank you for your consideration.

Very truly yours,


Joseph R. Baranko, Jr., Esquire

JRB/dmd
Enclosure

cc: Freeland Borough Council
Freeland Borough Municipal Authority

A NAME YOU KNOW AND TRUST

Borough of Freeland Municipal Authority
711 Birkbeck Street
P O Box C
Freeland, PA 18224

Phone: (570) 636-1733 Fax: (570) 636-1700
Email: fmaws@fmaws.org Website: www.fmaws.org

April 6, 2022

Matthew Krone, President
Freeland Borough Council
526 Fern Street
PO Box 148
Freeland PA 18224

Dear Mr. Krone & Freeland Borough Council:

Below are the comments from the Freeland Municipal Authority regarding the Act 537 Plan Update:

1. The Freeland Municipal Authority is requesting acknowledgement in writing from Foster Township and the Pennsylvania American Water Company that they will support the Freeland Municipal Authority's Industrial Pretreatment Program and that this support may include, as needed from time to time, adoption of updated ordinances, issuance of Significant Industrial User's Permits, etc.
2. The Freeland Municipal Authority is requesting acknowledgement in writing from Foster Township and the Pennsylvania American Water Company that they will support the Freeland Municipal Authority's Sewer Use Program and that this support may include, as needed from time to time, adoption of updated ordinances, compliance monitoring within the Foster Township Sewer System, etc.
3. The Freeland Municipal Authority is requesting acknowledgement in writing from Foster Township and the Pennsylvania American Water Company that the Freeland Municipal Authority in conjunction with and support from the Borough of Freeland and Foster Township must complete an Act 537 Plan Special Study (based on the approved Task Activity Report dated February 2014) to evaluate the technical adequacy of the Wyoming Street Pump Station and that both parties will actively participate in and support the completion of this Study.

We would appreciate the borough submitting the comments on the borough's behalf to Foster Township, PAWC and PA DEP.

Sincerely,



David Kavitski
Chairman of the Freeland Municipal Authority

We are an Equal Opportunity Provider and Employer

Public Notice

In accordance with requirements of the Pennsylvania Sewage Facilities Act No. 537, Foster Township is preparing to submit to the Pennsylvania Department of Environmental Protection (PADEP) an Act 537 Sewage Facilities Plan Update (Plan). This notice has been published to allow the general public to review and comment on the proposed Plan.

This Plan is to document the acquisition of the collection system owned and operated by Foster Township on the West side of the Township only, which includes Upper Lehigh, Sub Area 5, Woodside, Youngstown, and the Highland sections. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company (PAWC).

The Planning Area is located within the Lehigh River watershed. The Lehigh River is classified by PADEP as high quality water- cold-water fisheries (HQ-CWF).

This Plan is designed to evaluate cost effective and implementable alternatives. The purchase of the West side collection system will be financed directly through PAWC and will not impact existing user rates.

A 30-day review and comment period has been established commencing on March 29, 2022 to allow the general public to review and comment on the proposed Plan. The general public may review the proposed Plan by appointment during normal business hours at the Foster Township Municipal Building, located at 1000 Wyoming Avenue, Freeland, PA 18224.

The general public may forward written comments to Mary B. Peters, Entech Engineering, Inc. at 239 South Mountain Boulevard, Suite 300, Mountaintop, PA 18707. All written comments must be received prior to the end of the 30-day public comment period. Entech Engineering will address any written comments prior to submitting the Plan to PADEP.

The Standard Speaker (Under act P.L. 877 No 160. July 9,1976)
Commonwealth of Pennsylvania, County of Luzerne

ENTECH ENGINEERING
ATTN: MARY WYNIAWSKYJ
PO BOX 32 201 PENN STREET
READING PA 19603

Account # 558675
Order # 82622528
Ad Price: 309.92

FOSTER TOWNSHIP
John Patton

Being duly sworn according to law deposes and says that (s)he is Billing clerk for The Standard Speaker, owner and publisher of The Standard Speaker, a newspaper of general circulation, established in 1865, published in the city of Hazleton, county and state aforesaid, and that the printed notice or publication hereto attached is exactly as printed in the regular editions of the said newspaper on the following dates:

03/30/2022

Affiant further deposes and says that neither the affiant nor The Standard Speaker is interested in the subject matter of the aforesaid notice or advertisement and that all allegations in the foregoing statement as time, place and character or publication are true _____

Sworn and subscribed to before me
this 30th day of March A.D., 2022



(Notary Public)

Commonwealth of Pennsylvania - Notary Seal
Kathleen Weaver, Notary Public
Lackawanna County
My commission expires June 14, 2025
Commission number 1314506
Member, Pennsylvania Association of Notaries

PUBLIC NOTICE

In accordance with requirements of the Pennsylvania Sewage Facilities Act No. 537, Foster Township is preparing to submit to the Pennsylvania Department of Environmental Protection (PADEP) an Act 537 Sewage Facilities Plan Update (Plan). This notice has been published to allow the general public to review and comment on the proposed Plan.

This Plan is to document the acquisition of the collection system owned and operated by Foster Township on the West side of the Township only, which includes the Upper Lehigh, Sub Area 5, Woodside, Youngstown, and Highland sections. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company (PAWC).

The Planning Area is located within the Lehigh River watershed. The Lehigh River is classified by PADEP as high-quality water- cold-water fisheries (HQ-CWF).

The purchase of the West side collection system will be financed directly through PAWC and will not impact existing user rates.

A 30-day review and comment period has been established commencing on March 29, 2022 to allow the general public to review and comment on the proposed Plan. The general public may review the proposed Plan by appointment during normal business hours at the Foster Township Municipal Building, located at 1000 Wyoming Avenue, Free-land, PA 18224.

The general public may forward written comments to Mary B. Peters, Entech Engineering, Inc. at 239 South Mountain Boulevard, Suite 300, Mountain Top, PA 18707. All written comments must be received prior to the end of the 30-day public comment period. Entech Engineering will address any written comments prior to submitting the Plan to PADEP.

Comments and Responses

No written comments were received from the public. Please refer to the attached letter from Foster Township.

Foster Township Board of Supervisors

1000 Wyoming Ave. Freeland, Pa 18224
PHONE: 636-3757 - 636-3798 - FAX: 636-3584

May 3, 2022

Entech Engineering, Inc.
Attn: Mary B. Peters
VIA EMAIL DELIVERY TO MPeters@entecheng.com
239 South Mountain Boulevard
Suite 300
Mountain Top, PA 18707

**RE: Foster Township/ Pennsylvania American Water Company
Act 537 Plan Update - Public Comment Period**

Dear Ms. Peters:

This correspondence shall confirm that Foster Township received no written comments for the Act 537 Plan Update. This Plan Update was advertised in the Standard Speaker for a 30-day Public Review Period, which began on March 30, 2022 and ended on April 29, 2022.

Please do not hesitate to contact me if you require any additional information.

Sincerely,


Foster Township

Implementation Schedule

The following implementation schedule is proposed to undertake the selected alternative.

Task	Date
Submit Plan for Review by Planning Commissions (Up to 60 days) - <i>Planning Commissions of Foster Township, Butler Township, Freeland Borough, and Luzerne County</i>	February 2022
Adopt Ordinance for Industrial Pretreatment Program	March 2022
Submit Plan for Review by Public Comment (30 days minimum)	March 2022
Adopt Act 537 Plan by Resolution - <i>Foster Township, Butler Township, Freeland Borough</i>	May 2022
Submit Act 537 Plan for PADEP Approval (Up to 180 days)	June 2022
Receive Approval of Act 537 from PADEP	July 2022
Final Closing for Acquisition of Sanitary Sewer System - <i>Includes transfer of all intermunicipal agreements, easements, properties, and permits</i>	July 2022
Submit Act 537 Special Study for the Wyoming Street Pump Station to PADEP for Approval (Up to 180 days)	April 2024
Receive Approval of Act 537 Special Study from PADEP	October 2024

Consistency Documentation

To date, no inconsistencies have been identified.

This Plan Update does not require a Pennsylvania Natural Diversity Inventory (PNDI) or Pennsylvania Historical and Museum Commission (PHMC) search receipts.

I. Previous Wastewater Planning

A. *Identify, describe and briefly analyze all past wastewater planning for its impact on the current planning effort:*

1. *Previously undertaken under the Pennsylvania Sewage Facilities Act.*

An Act 537 Special Study, prepared by Michael J. Pasonick, Jr., Inc., was approved in August 2004 for the Highland, Youngstown, Woodside, Sub Area 5, and Upper Lehigh sections of Foster Township. This Plan proposed the construction of a new collection and conveyance sewer system for the sewered and unsewered planning areas. This Plan was fully implemented in 2010.

An Official Act 537 Sewage Facilities Plan Update Revision, prepared by Borton-Lawson Engineering, Inc., was approved in December 2013 for construction/replacement of infrastructure owned and operated by the Freeland Municipal Authority. The Plan Update also included the preparation of a Special Study, as a revision to the Official Sewage Facilities Plans of Freeland Borough and Foster Township, to thoroughly investigate the technical adequacy of the existing Wyoming Street Pump Station. For the exception of the Special Study, this Plan was fully implemented.

2. *Has not been carried out according to an approved implementation schedule contained in the plans.*

The Act 537 Special Study to thoroughly investigate the technical adequacy of the existing Wyoming Street Pump Station has not been carried out according to a previously approved implementation schedule. Freeland Borough, Freeland Municipal Authority, Foster Township, and Pennsylvania American Water Company will be working together to complete this Special Study by April 2024.

3. *Is anticipated or planned by applicable sewer authorities or approved under a Chapter 94 Corrective Action Plan.*

There are no plans anticipated or approved by Foster Township at this time. There are no Chapter 94 Corrective Action Plans.

4. *Planning modules for new land development, planning “exemptions” and addenda.*

A Component 3 Planning Module was approved on March 13, 2014 for the Citterios USA building expansion project. This project included the construction of a new building for operations and has been fully implemented.

A Component 3m Planning Module, prepared by PennEastern Engineers, LLC, was approved by default in 2014 for the Route 940 sewer extension in Foster Township. The project area encompassed 14 existing lots and proposed to serve eight (8) existing property owners or 12 EDU's that utilized malfunctioning on-lot sewage disposal systems. This Plan was partially completed in 2021 to serve five (5) of the eight (8) existing property owners. Foster Township plans to construct a sewer extension in Spring/Summer 2022 to serve the remaining three (3) properties identified in the 2014 Planning Module. Once this project is completed, PAWC will take ownership of the main for operation and maintenance.

II. Physical Description

A. Planning Area Boundaries

Identification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries.

The Planning Area is geographically located in the southeastern region of Luzerne County. Foster Township is bound to the north by Dennison Township; to the east by White Haven Borough and Kidder Township; to the south by Lehigh Township, Lausanne Township, and Banks Township, all within Carbon County; and to the west by Butler Township, Hazle Township, and Jeddo Borough. Foster Township also completely surrounds the Borough of Freeland.

The purpose of this Plan Update is to document the purchase of the collection system owned and operated by Foster Township on the West side of the Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company (PAWC).

Refer to the Planning Area Location Maps, located within **Appendix A**.

B. Physical Characteristics

Identification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area).

The Planning Area is dominated by rolling hills with elevations ranging from 1,100 feet to 1,800 feet.

The Planning Area discharges into the Lehigh River watershed. The Lehigh River is classified by PADEP as high quality water- cold-water fisheries (HQ-CWF). The watershed is located within the Delaware River Basin and is dominated by forestland. All major water bodies are depicted on **Drawing No. II.B-1**.

C. Soils

This section is not required per preplanning consultation meeting with DEP.

D. Geologic Features

This section is not required per preplanning consultation meeting with DEP.

E. Topography

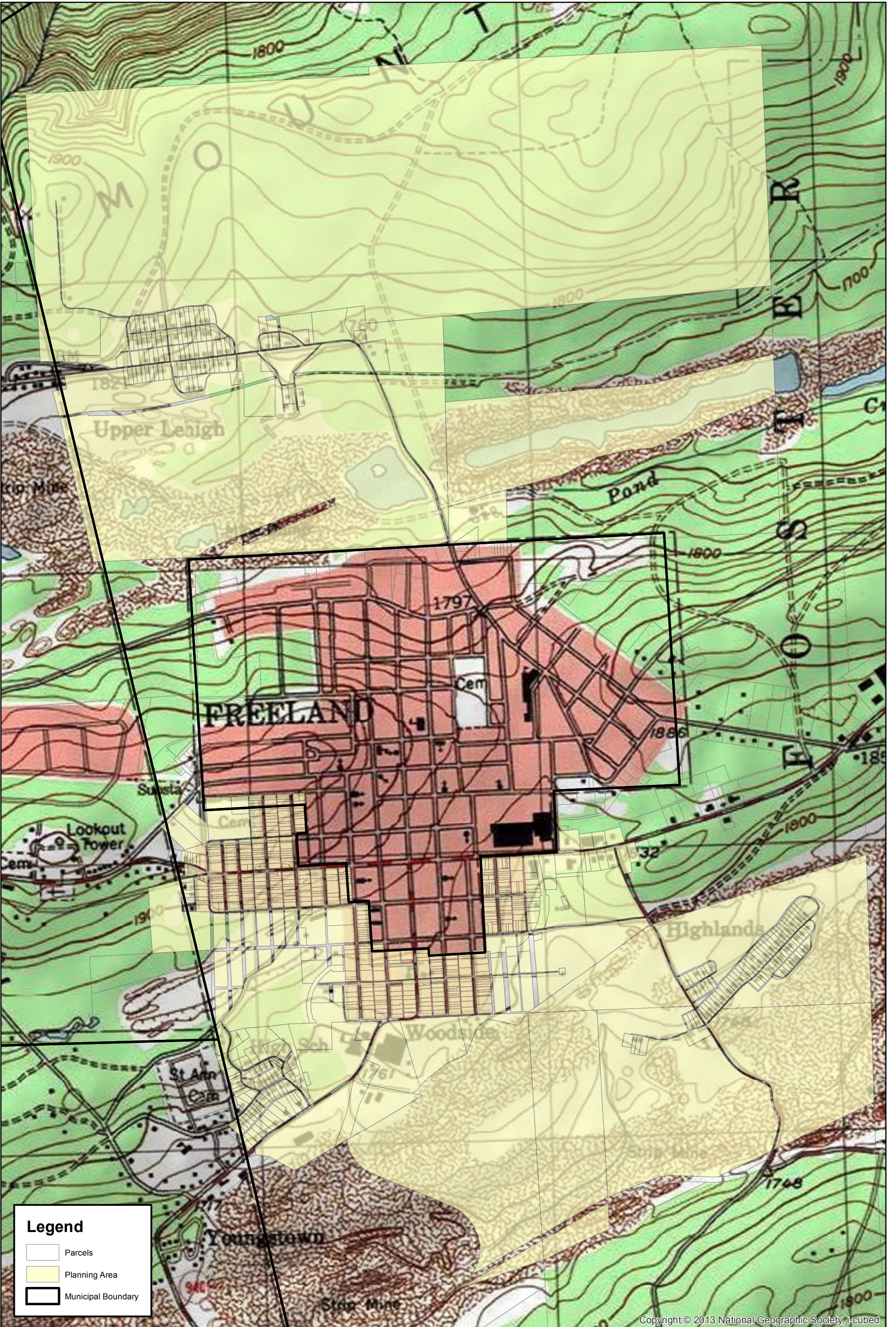
This section is not required per preplanning consultation meeting with DEP.

F. Potable Water Supplies

This section is not required per preplanning consultation meeting with DEP.

G. Wetlands

This section is not required per preplanning consultation meeting with DEP.



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Legend

- Parcels
- Planning Area
- Municipal Boundary

ENTECH
ENGINEERING

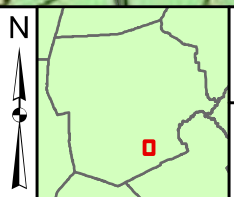
1.800.825.1372 | www.entecheng.com

FOSTER TOWNSHIP
LUZERNE COUNTY

**ACT 537 PLAN -
WATER BODIES**

STATEMENT OF ACCURACY
Unless otherwise noted, locations of map features should be considered approximate. Data was incorporated as the best available information at the time of mapping, and may not be accurate, complete, or current. The mapped data does not constitute a legal survey, and discretion should be exercised when using the information for engineering design purposes.

0 1,000 2,000 Feet



DATE	PREPARED	CHECKED	PROJECT ENGINEER
JAN 2022	MBP	BAK	MBP
PROJECT	SCALE	DRAWING NO.	
5400.034	1" = 1000'	II.B-1	

Copyright: © 2013 National Geographic Society, I-cubed

III. Existing Sewage Facilities in the Planning Area

A. Existing Sewerage Systems

1. *Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements.*

Wastewater Collection System

The collection system serving the West side of the Township consists of approximately 33,000 feet of 8-inch, 3,000 feet of 10-inch, and 3,200 feet of 12-inch diameter PVC gravity sanitary sewer mains, 205 manholes, four (4) pump stations (Upper Lehigh, Youngstown, Highland, and Wyoming Street), and 6,700 feet of 4-inch diameter PVC pressure sanitary sewer mains.

The Upper Lehigh Pump Station, owned by Foster Township, was installed in 2010. This pump station is located on the north side of the collection system and serves the Upper Lehigh section of the Foster Township collection system and a small portion of Butler Township. This pump station discharges directly to FMA's WWTP and has a design capacity of 120 gpm.

The Youngstown Pump Station, owned by Foster Township, was installed in 2010. This pump station is located on the south side of the collection system and serves the Woodside section of the Foster Township collection system. This pump station discharges to a manhole upstream of the Wyoming Street Pump Station and has a design capacity of 320 gpm.

The Highland Pump Station, owned by Foster Township, was installed in 2010. This pump station is located on the southeast side of the Foster Township collection system and serves the Highland section of the Foster Township collection system. This pump station discharges to a manhole upstream of the Wyoming Street Pump Station and has a design capacity of 100 gpm.

The Wyoming Street Pump Station, owned, operated and maintained jointly by

Foster Township and FMA, was upgraded in 2010. This pump station is located just outside the southeast side of Freeland Borough, and serves Sub Area 5, Youngstown, Woodside, and Highland sections of the Foster Township collection system, a small portion of Butler Township, and portions of Freeland Borough. This pump station discharges to a manhole within FMA’s collection system and has a design capacity of 800 gpm.

Refer to **Drawing III.A-1** for a map displaying the sanitary sewer collection and conveyance system.

Water Quality Management Permits

The Part II WQM permit for the collection and conveyance system were able to be obtained for the sewer service area. This includes:

Table III.A.2 Part II Water Quality Management Permits

WQM PERMIT NO.	ISSUE DATE	PROJECT
4006404	October 23, 2006	Construction of a new gravity wastewater collection system, pump stations and force mains to serve 442 EDUs in the Woodside, Youngstown, Highland and Upper Lehigh areas and replacement of the wastewater collection system serving 246 EDUs in Subarea 5

Wastewater Treatment Plant

Wastewater is treated at FMA’s Wastewater Treatment Plant (WWTP) located in Foster Township. This WWTP operates under NPDES Permit PA0024716 and has a hydraulic design capacity of 1.73 MGD, an annual average flow capacity of 1.2 MGD, and an organic design capacity of 4,083 lbs BOD5 per day.

2. *A narrative and schematic diagram of the facility's basic treatment processes including the facility's National Pollutant Discharge Elimination System (NPDES) permitted capacity, and the Clean Streams Law permit number.*

Not required per preplanning consultation meeting with DEP.

3. *A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under 25 Pa. Code Chapter 94 (relating to municipal wasteload management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of DEP.*

Since the collection system was completed in 2010, there are no known existing or projected overloads under 25 Pa. Code Chapter 94, or any other permit violation.

As part of the PennVEST loan closing, Barry Isett & Associates, Inc. completed a Sanitary Sewer Inspection Report in January 2016 for the entire collection system on the West side of the Township. This field work identified minor deficiencies within the system, primarily within the sanitary sewer manholes. Subsequent work was completed by the Township, including flushing of the manholes and sewer mains, spray cleaning, removal of debris, and parging.

PennEastern Engineers, LLC, completed a second inspection of the collection system in May 2018. All minor deficiencies and inconsistencies were determined to be addressed with the exception of a few manholes within the Youngstown area of the collection system that are experiencing deterioration from hydrogen sulfide.

On February 10, 2022, Entech Engineering, Inc did a comprehensive evaluation of the manholes in the Youngstown area to verify the extent of the deterioration. Based on the conditions during the time of inspection, it was recommended that all the manholes from the discharge manhole from the Citterio's pretreatment facility to the Youngstown Pump Station be rehabilitated with a polyurea lining to protect the manholes from further chemical attack and decay.

Refer to the Collection System Inspection summary reports located within **Appendix B**.

4. *Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities.*

Not required per preplanning consultation meeting with DEP.

5. *A detailed description of the municipality's operation and maintenance (O & M) requirements for small flow treatment facility systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs (SMPs).*

Not required per preplanning consultation meeting with DEP.

6. *Disposal areas, if other than stream discharge, and any applicable groundwater limitations.*

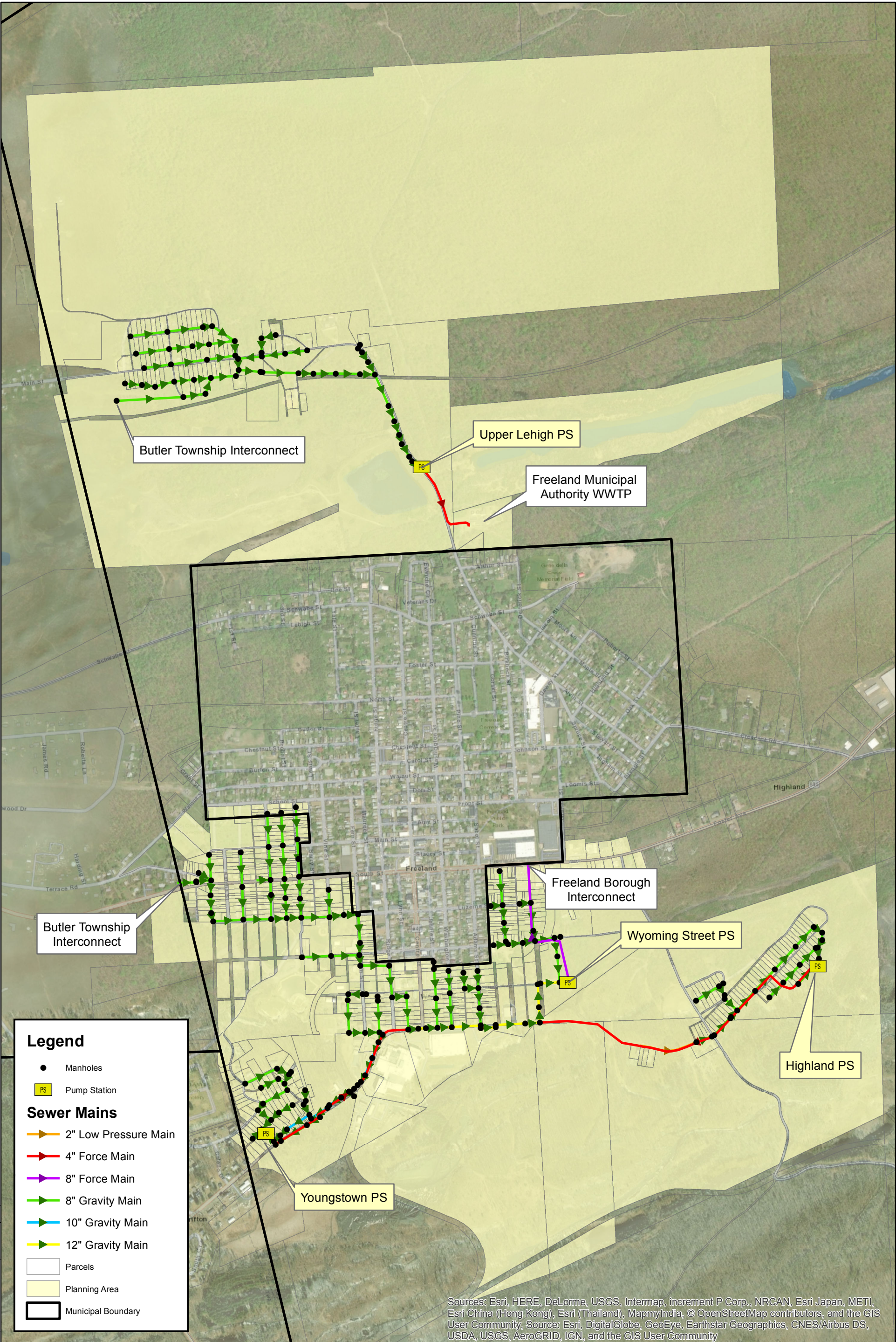
Not required per preplanning consultation meeting with DEP.

B. Sewage Disposal Needs Identification

This section is not required per preplanning consultation meeting with DEP.

C. Wastewater Sludge and Septage

This section is not required per preplanning consultation meeting with DEP.



Legend

- Manholes
- PS Pump Station
- 2" Low Pressure Main
- 4" Force Main
- 8" Force Main
- 8" Gravity Main
- 10" Gravity Main
- 12" Gravity Main
- Parcels
- Planning Area
- Municipal Boundary

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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FOSTER TOWNSHIP
LUZERNE COUNTY
SANITARY SEWER COLLECTION SYSTEM

STATEMENT OF ACCURACY
Unless otherwise noted, locations of map features should be considered approximate. Data was incorporated as the best available information at the time of mapping, and may not be accurate, complete, or current. The mapped data does not constitute a legal survey, and discretion should be exercised when using the information for engineering design purposes.

0 1,000 2,000 Feet



DATE	PREPARED	CHECKED	PROJECT ENGINEER
JAN 2022	MBP	BAK	MBP
PROJECT	SCALE	DRAWING NO.	
5400.034	1" = 1000'	III.A-1	

IV. Future Growth and Land Development

A. Municipal and County Planning Documents

This section is not required per preplanning consultation meeting with DEP.

B. Planning Based on Growth

Delineate and describe the following through map, text and analysis

1. *Areas with existing development or plotted subdivisions. Include the name, location, description, total number of equivalent dwelling units (EDUs) in development, total number of EDUs currently developed and total number of EDUs remaining to be developed (include time schedule for EDUs remaining to be developed).*

Not required per preplanning consultation meeting with DEP.

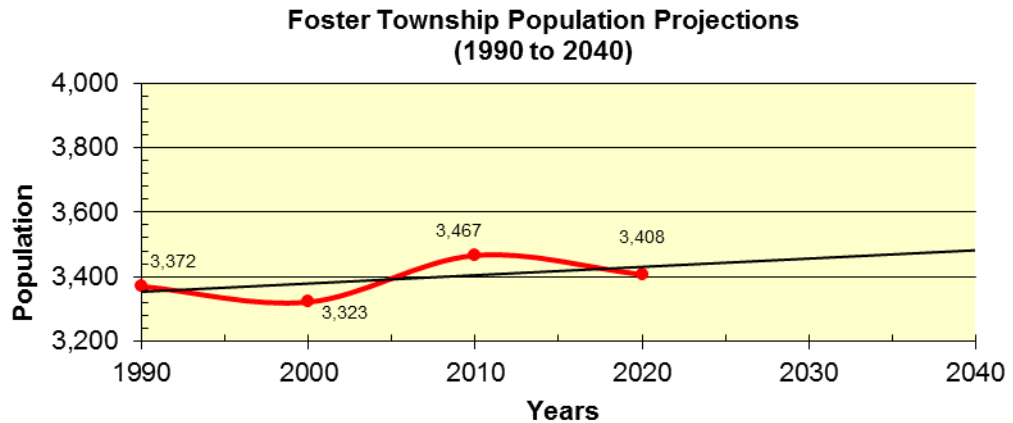
2. *Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas.*

Not required per preplanning consultation meeting with DEP.

3. *Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities.*

Future Growth for Foster Township

The following graph shows the expected population of Foster Township.



Based on historical data, it is anticipated that the population of Foster Township will continue to increase slightly on a Township wide basis. However, majority of the areas on the West side of the Township within the Planning area are currently built out with limited areas of growth. Therefore, minimal growth is expected within this area.

Planning Discrepancies

There are no planning discrepancies known. The population trends are consistent with all documents identified in **Section I**.

4. *Zoning, and/or subdivision regulations; local, county or regional comprehensive plans; and existing plans of any other agency relating to the development, use and protection of land and water resources with special attention to:*

- public ground/surface water supplies*
- recreational water use areas*
- groundwater recharge areas*
- industrial water use*
- wetlands*

Not required per preplanning consultation meeting with DEP.

5. *Sewage planning necessary to provide adequate wastewater treatment for 5 and 10-year future planning periods based on projected growth of existing and proposed wastewater collection and treatment facilities.*

The existing hydraulic capacity of 1.73 MGD for FMA's WWTP has adequate wastewater treatment for 5 and 10-year future planning periods based on the projected growth. The existing wastewater collection and conveyance facilities also have adequate capacity for 5 and 10-year future planning periods. There are no major land development plans within Foster Township and there are no additional wastewater needs identified from Butler Township.

V. Alternatives to Provide New or Improved Wastewater Disposal Facilities

The purpose of this Plan is to evaluate alternatives for providing short and long term wastewater management for Foster Township. The following subsections outline several alternatives for wastewater collection, treatment, and disposal needs of the Planning Area.

A. Conventional Collection, Conveyance, Treatment and Discharge Alternatives Identification

1. *The potential for regional wastewater treatment.*

Regional wastewater management is an economic and viable alternative for sewage collection, treatment, and disposal. The FMA WWTP is considered a regional WWTP as it serves Foster Township, Butler Township, and Freeland Borough. There is no need to evaluate this alternative further.

2. *The potential for extension of existing municipal or non-municipal sewage facilities to areas in need of new or improved sewage facilities.*

Not required per preplanning consultation meeting with DEP.

3. *The potential for the continued use of existing municipal or non-municipal sewage facilities through one or more of the following for the wastewater treatment facilities:*

a. *Repair.*

b. *Upgrading.*

c. *Reduction of hydraulic or organic loading to existing facilities.*

d. *Improved O & M.*

e. *Other applicable actions that will resolve or abate the identified problems.*

As discussed previously, there is limited new growth and development located within the designated sewer service area. All existing and new connections are and will be connected to the centralized sewer collection and treatment system.

Currently, there is adequate treatment capacity at FMA's WWTP to handle existing and future growth. No work is required at the wastewater treatment facility.

4. *Repair or replacement of existing collection and conveyance system components.*

As identified in **Section III**, outside of the manholes within the Youngstown Area, there are no major issues within the collection and conveyance system. As indicated in the inspection reports located in **Appendix B**, a few manholes within the Youngstown area of the collection system are experiencing deterioration from hydrogen sulfide. It is recommended that all the manholes from the discharge manhole from the Citterio's pretreatment facility to the Youngstown Pump Station be rehabilitated with a polyurea lining to protect the manholes from further chemical attack and decay.

Once Pennsylvania American Water Company (PAWC) acquires the system, they will rehabilitate the manholes in the Youngstown area as part of their operation and maintenance routine. PAWC will also routinely evaluate the entire system and address issues as they arise. This work may include, but is not limited to, daily operation and maintenance activities, pump station inspections, manhole inspections, closed circuit televising (CCTV) data, system flushing, pump station equipment repair/replacement, and sewer main/manhole replacements, repairs, and/or rehabilitation.

5. *The need for construction of new community sewage systems including sewer systems and/or treatment facilities.*

Not required per preplanning consultation meeting with DEP.

6. *Use of innovative/alternative methods of collection/conveyance to serve needs areas using existing wastewater treatment facilities.*

Not required per preplanning consultation meeting with DEP.

B. Individual Sewage Disposal / Residential Spray Irrigation Systems

This section is not required per preplanning consultation meeting with DEP.

C. Small Flow Sewage Treatment

This section is not required per preplanning consultation meeting with DEP.

D. Community Land Disposal Alternatives

This section is not required per preplanning consultation meeting with DEP.

E. Use of Retaining Tanks

This section is not required per preplanning consultation meeting with DEP.

F. Sewage Management Programs

This section is not required per preplanning consultation meeting with DEP.

G. Non-Structural Comprehensive Planning Alternatives

This section is not required per preplanning consultation meeting with DEP.

H. No-Action Alternative

This Plan Update is to document the purchase of the collection system owned by Foster Township on the West side of the Township only. There are no concerns identified, regardless of system ownership, for water quality/public health, growth potential, community economic conditions, recreational opportunities, and/or drinking water sources.

VI. Evaluation of Alternatives

A. Consistency with Previous Planning

Technically feasible alternatives identified in Section V of this checklist must be evaluated for consistency with respect to the following:

Pennsylvania's Act 537 regulations require technically feasible alternatives described in **Section V** of this Plan to be evaluated for consistency with existing local and regional planning efforts.

1. *Applicable plans developed and approved under Sections 4 and 5 of the Clean Streams Law or Section 208 of the Clean Water Act (33 U.S.C.A. 1288).*

The existing collection and conveyance system currently provides the means and methods of properly collecting, treating, and disposing of wastewater with respect to current regulations and standards. By Pennsylvania American Water Company (PAWC) acquiring the system, this system will remain consistent with the requirements of the Clean Streams Law and Clean Water Act.

2. *Municipal wasteload management Corrective Action Plans or Annual Reports developed under 25 Pa. Code Chapter 94. The municipality's recent Wasteload Management (25 Pa. Code Chapter 94) Reports should be examined to determine if the proposed alternative is consistent with the recommendations and findings of the report.*

There are no municipal management corrective action plans developed under 25 Pa. Code Chapter 94. After acquiring the system, PAWC will operate and maintain the system that is consistent with the recent Wasteload Management Reports.

3. *Plans developed under Title II of the Clean Water Act (33 U.S.C.A. 1281 1299) or Titles II and VI of the Water Quality Act of 1987 (33 U.S.C.A 1251-1376).*

The alternatives considered in this Plan are consistent with and will meet the requirements of the Clean Water Act and Water Quality Act and the Luzerne County Master Plan for Water Supply and Wastewater Management.

- 4. Comprehensive plans developed under the Pennsylvania Municipalities Planning Code. The municipality's comprehensive plan must be examined to assure that the proposed wastewater disposal alternative is consistent with land use and all other requirements stated in the comprehensive plan.*

There are no wastewater disposal alternatives proposed as part of this Plan Update.

- 5. Antidegradation requirements as contained in 25 Pa. Code Chapters 93, 95 and 102 (relating to water quality standards, wastewater treatment requirements and erosion control) and the Clean Water Act.*

This portion of Foster Township is located within the Lehigh River Watershed. PA Code, Title 25, Chapter 93 classifies this as High Quality – Cold Water Fishery (HQ-CWF). The existing collection and conveyance system currently provides the means and methods of properly collecting, treating, and disposing of wastewater with respect to preserving water quality and preventing stream degradation.

- 6. State Water Plans developed under the Water Resources Planning Act (42 U.S.C.A. 1962-1962 d-18)*

The Commonwealth is currently implementing the Water Resources Planning Act (ACT 220 of 2002), which calls for the State Water Plan to be updated. However, there are no wastewater disposal alternatives proposed as part of this Plan Update.

- 7. Pennsylvania Prime Agricultural Land Policy contained in Title 4 of the Pennsylvania Code, Chapter 7, Subchapter W. Provide narrative on local municipal policy and an overlay map on prime agricultural soils.*

In **Section II** of this Plan Update, it was not required to analyze soils per the preplanning consultation meeting with DEP.

- 8. County Stormwater Management Plans approved by DEP under the Storm Water Management Act. Conflicts created by the implementation of the proposed wastewater alternative and the existing recommendations for the management of*

stormwater in the county Stormwater Management Plan must be evaluated and mitigated. If no plan exists, no conflict exists.

In June 2010, a Stormwater Management Plan has been developed for Luzerne County, Pennsylvania to comply with the requirements of the 1978 Pennsylvania Stormwater Management Act, Act 167. This Plan is the initial county-wide Stormwater Management Plan for Luzerne County, and serves as a Plan Update for the portions of all of six (6) watershed-based previously approved Act 167 Plans.

As stated within the Plan:

“The purpose and goals of this Luzerne County Stormwater Management Plan are to provide reasonable regulations of activities to control runoff from new development, redevelopment projects, and other regulated activities in order to protect the health, safety, and welfare of the public. Once implemented, the Plan will aid in preventing future costly flood damages by preventing new sources of local uncontrolled runoff and will improve water quality and groundwater recharge. The Plan will help municipalities and developers become more aware of comprehensive planning in stormwater control and will help maintain the quality of the rivers and water bodies of Luzerne County.”

The existing collection and conveyance system currently provides the means and methods of properly collecting, treating, and disposing of wastewater with respect to all requirements of the Luzerne County Stormwater Management Plan. There are no proposed wastewater disposal alternatives proposed as part of this Plan Update.

9. *Wetland Protection. Using wetland mapping developed under Checklist Section II.G, identify and discuss mitigative measures including the need to obtain permits for any encroachments on wetlands from the construction or operation of any proposed wastewater facilities.*

Not required per preplanning consultation meeting with DEP.

10. *Protection of rare, endangered or threatened plant and animal species as identified by the Pennsylvania Natural Diversity Inventory (PNDI). Provide DEP*

with a copy of the completed PNDI Manual Project Submission Form. Also provide a copy of the response letters from the 4 jurisdictional agencies regarding the findings of the PNDI search.

Not required for acquisition of the existing collection and conveyance system.

11. *Historical and archaeological resource protection under P.C.S. Title 37, Section 507 relating to cooperation by public officials with the Pennsylvania Historical and Museum Commission (PHMC). Provide DEP with a completed copy of a Cultural Resource Notice and a return receipt for its submission to PHMC. Provide a copy of the response letter or review stamp from the Bureau of Historic Preservation (BHP) indicating the project will have no effect on, or that there may be potential impacts on, known archaeological and historical sites and any avoidance and mitigation measures required.*

Not required for acquisition of the existing collection and conveyance system.

B. Resolution of Inconsistencies

This section is not required per preplanning consultation meeting with DEP.

C. Applicable Water Quality Standards

This section is not required per preplanning consultation meeting with DEP.

D. Detailed Cost Estimates and Present Worth Analysis

Provide cost estimates using present worth analysis for construction, financing, ongoing administration, O & M and user fees for alternatives identified in Section V of this checklist. Estimates shall be limited to areas identified in the plan as needing improved sewage facilities within 5 years from the date of plan submission.

PAWC is purchasing Foster Township's West side collection system for \$3,750,000. This will be financed directly through PAWC and will not impact existing user rates. PAWC has experienced management and administrative staff

that are capable of operating and maintaining the sanitary sewer collection system.

E. Funding Methods

This acquisition will be financed directly through PAWC. In addition, Foster Township will pay off all outstanding debts on the West side. This includes the outstanding balance of the PennVEST loan, which was obtained to finance the construction of the collection and conveyance system.

F. Immediate or Phased Implementation of Alternative

Analyze the need for immediate or phased implementation of each alternative proposed in Section V of this checklist including:

1. *A description of any activities necessary to abate critical public health hazards pending completion of sewage facilities or implementation of SMPs.*

Not required per preplanning consultation meeting with DEP.

2. *A description of the advantages, if any, in phasing construction of the facilities or implementation of a SMP justifying time schedules for each phase.*

There is no immediate or phased implementation for the purchase of the collection system.

G. Administrative Organizations and Legal Authority

Evaluate administrative organizations and legal authority necessary for plan implementation.

Foster Township and PAWC have the responsibility and legal authority to sell/purchase the collection system.

VII. Institutional Evaluation

A. Existing Authorities

Provide an analysis of all existing wastewater treatment authorities, their past actions and present performance including:

1. *Financial and debt status.*
2. *Available staff and administrative resources.*
3. *Existing legal authority to:*
 - a. *Implement wastewater planning recommendations.*
 - b. *Implement system-wide O & M activities.*
 - c. *Set user fees and take purchasing actions.*
 - d. *Take enforcement actions against ordinance violators.*
 - e. *Negotiate agreements with other parties*
 - f. *Raise capital for construction and O& M of facilities.*

PAWC is a private utility company regulated under the Pennsylvania Public Utility Commission (PUC). This allows PAWC to acquire, hold, construct, improve, maintain, operate, own and lease, sewer systems, interceptor lines, sewage treatment works and works for the treatment and disposal of waste.

Therefore, PAWC has the legal authority to undertake the following:

- a) Implement wastewater planning recommendations
- b) Implement system wide operation and maintenance activities,
- c) Set user fees as necessary (through the PUC)
- d) Take enforcement actions against ordinance violators,
- e) Negotiate agreements with other parties,
- f) Raise capital for construction and operation and maintenance of facilities.

PAWC has these powers in addition to existing Township Ordinances. PAWC also has the power to set rates by virtue of the PUC.

PAWC has the resources necessary to finance the purchase of the collection system and address future wastewater management needs of the Planning Area.

B. Institutional Alternatives

Provide an analysis and description of the various institutional alternatives necessary to implement the proposed technical alternatives including:

1. *Need for new municipal departments or municipal authorities.*

There is no need for new municipal departments or municipal authorities.

2. *Functions of existing and proposed organizations (sewer authorities, on lot maintenance agencies, etc.).*

PAWC will own, operate, and maintain the public sewage collection facilities located on the West side of the Township. PAWC has the administrative office staff and system operators collectively to handle the requirements for the complete operation and maintenance of the sanitary sewer collection system.

3. *Cost of administration, implementability, and the capability of the authority/agency to react to future needs.*

PAWC has the legal authority to raise capital and set user fees (by virtue of the PUC) sufficient to collect revenues required for the payment of debt service on capital monies and the cost of operation and maintenance of the wastewater collection systems.

C. Administrative and Legal Activities

Describe all necessary administrative and legal activities to be completed and adopted to ensure the implementation of the recommended alternative including:

1. *Incorporation of authorities or agencies.*

Currently there is no need for the incorporation of new authorities or agencies.

2. *Development of all required ordinances, regulations, standards and intermunicipal agreements.*

Currently all required ordinances, regulations, and standards exist. However, Foster Township is currently in the process of finalizing and approving an Ordinance for establishing an Industrial Pretreatment Program to control discharges into the sewer collection system from Industrial Users. This ordinance will be consistent with the rules and regulations administered by FMA. FMA is the responsible for treating all wastewater collected by the Township pursuant to a treatment agreement between and among the Township, FMA and Freeland Borough. The Ordinance will set forth uniform requirements for users of the sewer system and enable the Township and FMA to regulate the use of the sewer system in compliance with the Federal Clean Water Act and regulations.

Multiple intermunicipal agreements are in place for the entire collection and conveyance system. Foster Township has intermunicipal agreements with Butler Township for acceptance of wastewater to flow through their collection system and with Freeland Borough/Freeland Municipal Authority to collect, convey, and treat wastewater at FMA's WWTP. These intermunicipal agreements will be transferred from Foster Township to PAWC.

The acquisition of the collection and conveyance system by PAWC will not alter the administration of the Industrial Pretreatment Program by the Township and FMA or any other ordinance, regulation, or standard currently in place.

3. *Description of activities to provide rights-of-way, easements and land transfers.*

Majority of the collection and conveyance system is located within Township and PennDOT rights-of-ways. For portions of the system located within private property, easements and land acquisitions are already in place. As part of the

purchase agreement, all easements and land transfers will be transferred to PAWC.

4. *Adoption of other municipal sewage facilities plans.*

Adoption of other municipal sewage facilities plans is not required to implement this plan. However, Butler Township and Freeland Borough will need to adopt this Plan Update.

5. *Any other legal documents.*

The water quality management permit, issued by DEP, will be transferred to PAWC. There are no other legal documents required.

6. *Dates or timeframes for items 1-5 above on the project's implementation schedule.*

All necessary administrative and legal activities required to be completed and adopted for the system acquisition by PAWC will be completed by July 2022.

D. Proposed Institutional Alternative

Identify the proposed institutional alternative for implementing the chosen technical wastewater disposal alternative. Provide justification for choosing the specific institutional alternative considering administrative issues, organizational needs and enabling legal authority.

PAWC will acquire Foster Township's sanitary sewer collection and conveyance system on the West side of the Township. PAWC owns numerous systems throughout Pennsylvania and has demonstrated the ability to effectively administrate, maintain, and operate wastewater systems in accordance with EPA and PADEP standards.

VIII. Implementation Schedule and Justification for Selected Technical and Institutional Alternatives

A. Identified Alternative

Identify the technical wastewater disposal alternative which best meets the wastewater treatment needs of each study area of the municipality. Justify the choice by providing documentation which shows that it is the best alternative based on:

This Plan is to document the purchase of the collection system owned and operated by Foster Township on the West side of the Township only. This portion of the sanitary sewer collection and conveyance system will be purchased by Pennsylvania American Water Company (PAWC).

1. Existing wastewater disposal needs. (0 to 5 year growth areas)

The existing collection and conveyance system and the hydraulic capacity of 1.73 MGD for FMA's WWTP has adequate wastewater treatment for the 5-year future planning periods based on the projected growth of the existing wastewater collection facilities. There are no major land development plans within Foster Township and there are no additional wastewater needs identified from Butler Township.

2. Future wastewater disposal needs. (5 to 10 year growth areas)

The existing collection and conveyance system and the hydraulic capacity of 1.73 MGD for FMA's WWTP has adequate wastewater treatment for the 5 to 10-year future planning periods based on the projected growth of the existing wastewater collection facilities. There are no major land development plans within Foster Township and there are no additional wastewater needs identified from Butler Township.

3. O & M considerations.

PAWC has all the necessary experience and resources available to effectively operate and maintain the collection and conveyance systems.

4. *Cost-effectiveness.*

Not required per preplanning consultation meeting with DEP.

5. *Available management and administrative systems.*

PAWC has experienced management, licensed operators and administrative staff.

6. *Available financing methods.*

This acquisition will be financed directly through PAWC. In addition, Foster Township will pay off all outstanding debts on the West side. This includes the outstanding balance of the PennVEST loan, which was obtained to finance the construction of the collection and conveyance system.

7. *Environmental soundness and compliance with natural resource planning and preservation programs.*

PADEP encourages the use of its Water Quality Anti-Degradation Implementation Guidance document in evaluating the environmental soundness of alternative wastewater management options. There are no wastewater disposal alternative proposed as part of this Plan Update.

B. Capital Financing Plan

Designate and describe the capital financing plan chosen to implement the selected alternative(s). Designate and describe the chosen back-up financing plan.

As previously indicated, this acquisition will be financed directly through PAWC.

C. Implementation Schedule

Designate and describe the implementation schedule for the recommended alternative, including justification for any proposed phasing of construction or implementation of a SMP.

The following implementation schedule is proposed to undertake the selected alternative.

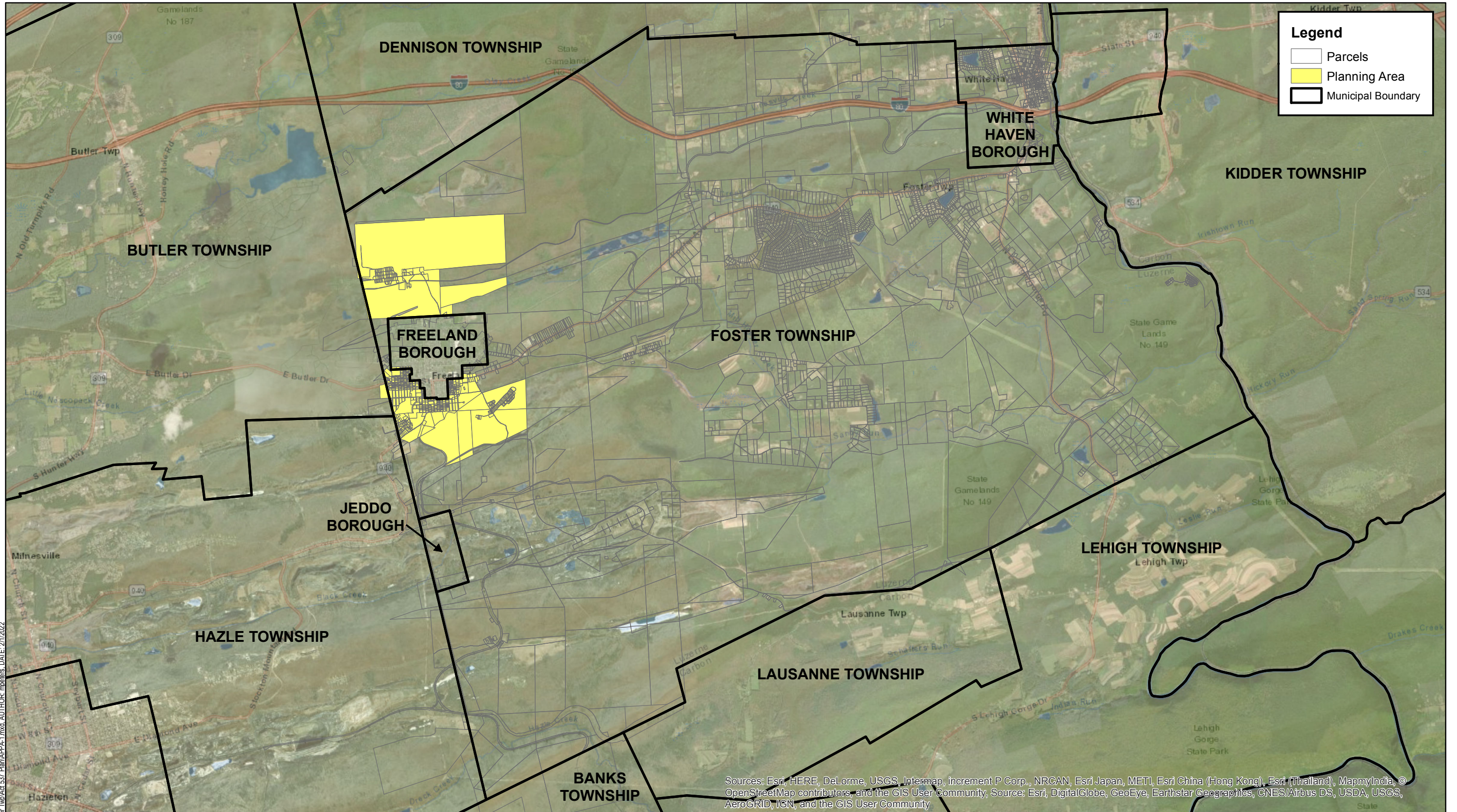
Task	Date
Submit Plan for Review by Planning Commissions (Up to 60 days) - <i>Planning Commissions of Foster Township, Butler Township, Freeland Borough, and Luzerne County</i>	February 2022
Adopt Ordinance for Industrial Pretreatment Program	March 2022
Submit Plan for Review by Public Comment (30 days minimum)	March 2022
Adopt Act 537 Plan by Resolution - <i>Foster Township, Butler Township, Freeland Borough</i>	May 2022
Submit Act 537 Plan for PADEP Approval (Up to 180 days)	June 2022
Receive Approval of Act 537 from PADEP	July 2022
Final Closing for Acquisition of Sanitary Sewer System - <i>Includes transfer of all intermunicipal agreements, easements, properties, and permits</i>	July 2022
Submit Act 537 Special Study for the Wyoming Street Pump Station to PADEP for Approval (Up to 180 days)	April 2024
Receive Approval of Act 537 Special Study from PADEP	October 2024

IX. Environmental Report (ER)




This section is not required per preplanning consultation meeting with DEP.

Appendix A

Planning Area Location Map



Legend

-  Parcels
-  Planning Area
-  Municipal Boundary

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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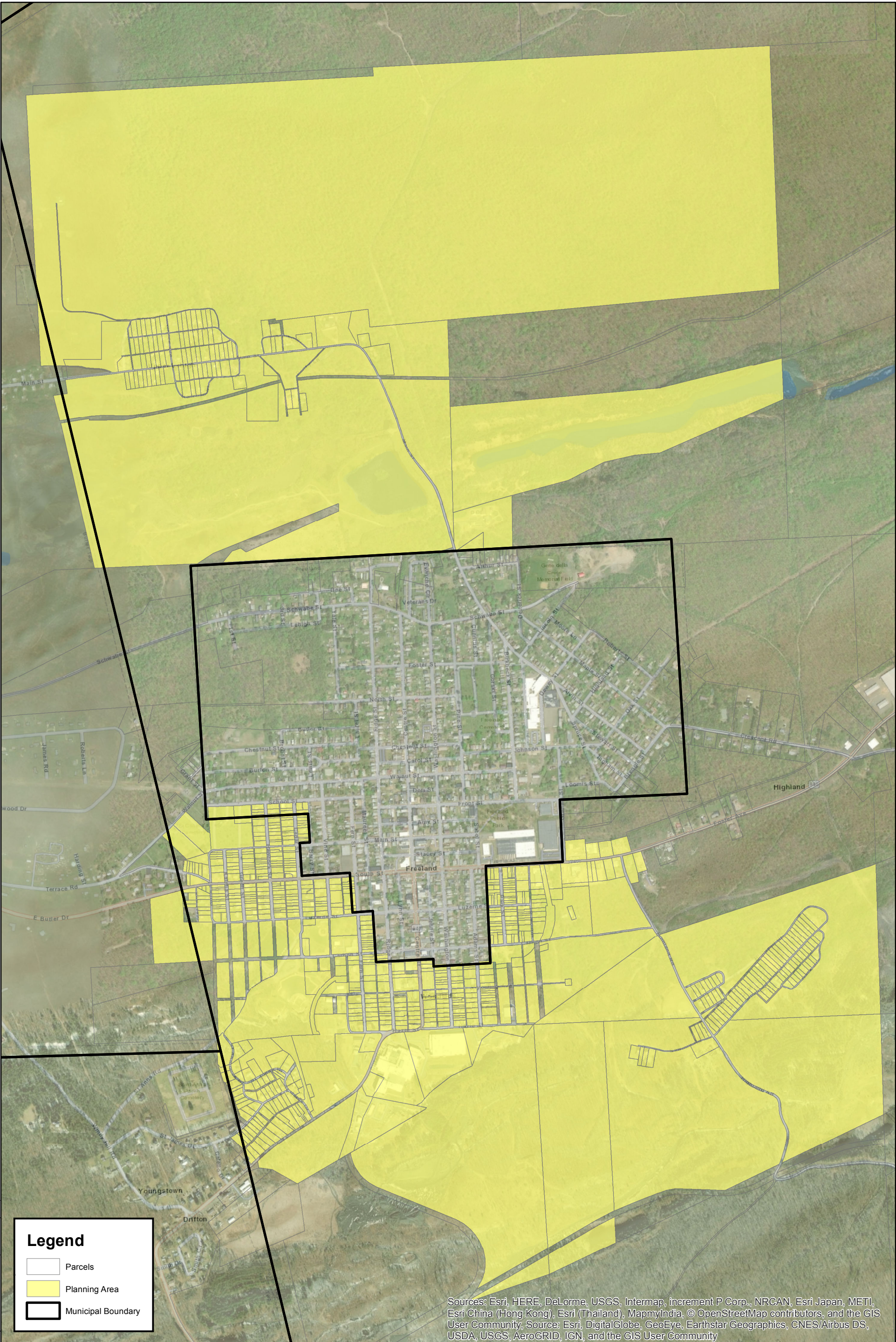
FOSTER TOWNSHIP
 LUZERNE COUNTY
ACT 537 PLAN - PLANNING AREA

STATEMENT OF ACCURACY
 Unless otherwise noted, locations of map features should be considered approximate. Data was incorporated as the best available information at the time of mapping, and may not be accurate, complete, or current. The mapped data does not constitute a legal survey, and discretion should be exercised when using the information for engineering design purposes.

0 5,000 10,000
 Feet






DATE	PREPARED	CHECKED	PROJECT ENGINEER
JAN 2022	MBP	BAK	MBP
PROJECT	SCALE	DRAWING NO.	
5400.034	1" = 5,000'	APP-A-1	



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Legend

-  Parcels
-  Planning Area
-  Municipal Boundary

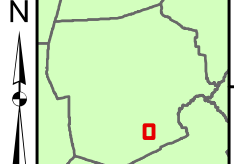


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FOSTER TOWNSHIP
 LUZERNE COUNTY
**ACT 537 PLAN -
 PLANNING AREA (ENLARGED)**

STATEMENT OF ACCURACY
 Unless otherwise noted, locations of map features should be considered approximate. Data was incorporated as the best available information at the time of mapping, and may not be accurate, complete, or current. The mapped data does not constitute a legal survey, and discretion should be exercised when using the information for engineering design purposes.

0 1,000 2,000
 Feet



DATE	PREPARED	CHECKED	PROJECT ENGINEER
JAN 2022	MBP	BAK	MBP
PROJECT	SCALE	DRAWING NO.	
5400.034	1" = 1000'	APP-A-2	

Appendix B

Sanitary Sewer Collection System Investigation Reports



BARRY ISETT & ASSOCIATES, INC.

Multidiscipline Engineers & Consultants

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Civil Land Planning & Development Survey Code Review Traffic Planning Environmental Landscape Architecture Parks & Planning Grants Forensics
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Compilation of Inspection notes

Manhole #	Plan Sheet #	Section	Street	Inspection Date	Separation at connections	Build Up in Channel	Wall Staining	Adjustment Ring Separation	I&I	Chimney/Riser Separation	Field Notes
44	11	Upper Lehigh	Main St	12/21/15			yes				Wall staining looks like salt crystals. Step misalignment(minor)
44A		Upper Lehigh	Main St	12/21/15			yes				Root intrusion(Minor). Broken lock. Recommend parging exterior of casting and wrapid seal
45	11	Upper Lehigh	Main St	12/21/15			yes			yes	Wall staining looks like salt crystals. Recommend parging(wrapid seal)
45A		Upper Lehigh	Main St	12/21/15			yes			yes	Recommend parging around casting(wrapid seal)
46	11	Upper Lehigh	Main St	12/21/15						yes	Exterior parging(wrapid seal)
47	12	Upper Lehigh	Main St	12/21/15						yes	Exterior parging(wrapid seal)
47A		Upper Lehigh	Main St	12/21/15						yes	Exterior parging(wrapid seal)
47B		Upper Lehigh	Main St	12/21/15						yes	Very shallow, discharge before Pump Station. Channel full, possibly waiting for Pump Station to kick on monitor. Recommend exterior parging(wrapid seal).
48	13	Upper Lehigh	Main St	12/21/15							This manhole is in a locked fence
49	3	Youngstown	St Johns Dr.	12/21/15			yes				Build in deadend MH(Minor). Maybe no ramneck between chimney and concrete riser
50	3	Youngstown	St Johns Dr.	12/21/15							No notes
51	8	Youngstown	St Marys Dr.	12/21/15			yes				
52	4	Youngstown	Alley A(Easement)	12/21/15							Deadend: Looks great, recently parged
53	4	Youngstown	Alley A(Easement)	12/21/15		yes	yes				
54	4	Youngstown	St Marys Dr.	12/21/15							Inside drop from somewhere, no issues
56	5	Youngstown	St James Dr.	12/21/15			yes				Buildup in channel
57	5	Youngstown	St James Dr.	12/21/15			yes				Buildup in channel - recently parged around pipe. Next to Hazle Twp. System.
58	5	Youngstown	St James Dr.	12/21/15			yes				Buildup in channel
59	6	Youngstown	Alley	12/21/15							Before Pump Station. Debris in channel
60	6	Youngstown	Alley	12/21/15							3-way. Debris in channel
61	6	Youngstown	Alley	12/21/15			yes				Possible HS2. Maybe no ramneck before concrete riser and chimney. Moderate buildup of debris in channel.
62	6	Youngstown	Alley	12/21/15							Deadend, no issues
63	6	Youngstown	SR 940	12/21/15			yes				Some buildup on bench
64	7	Youngstown	Scotch Hill Road	12/21/15				yes			Moderate HS2 evidence. Fog buildup - channel narrowed. Gap in adjustment ring. 27" lid.
65	7	Youngstown	Scotch Hill Road	12/21/15				yes			3-way manhole with buildup in middle. Pipe tops look parged. HS2 Evidence. Adjustment ring gap.
66	7	Youngstown	Scotch Hill Road	12/21/15				yes			Massive to moderate HS2 evidence. Fog buildup - channel narrowed. Gap in adjustment ring. 27" lid
69	9	Youngstown	St Mary Rd	12/21/15			yes	yes		yes	Some cracking at joints - recommend cleaning and parging. Adjustment ring gap.
69a	9	Youngstown	St Mary Rd	12/21/15			yes	yes			Debris buildup in channel(looks like soil). Grade adjustment ring gap.
69b	9	Youngstown	St Mary Rd	12/21/15			yes				Evidence of back up or sloppy installation or something else.
70	2	Youngstown	SR 940	1/7/16		yes	yes				Possible hydrogen sulfide and fogs in channel
71	8	Youngstown	St Marys Dr.	12/21/15				yes			Grade adjustment ring gap. Back up in dead end MH.
72	1	Youngstown	SR 940	1/7/16	yes	yes					
73	1	Youngstown	SR 940	1/7/16	yes						
74	2	Youngstown	SR 940	12/21/15	yes		yes				Pipe penetrations need parged. Maybe no ramneck before concrete riser rings and chimney section
75	2	Youngstown	SR 940	1/7/16	yes						
76A	2	Youngstown	SR 940	12/21/15	yes			yes			Manhole appears dry but during inspection, the carwash was in use. 2 4" white PVC's
77	2	Youngstown	SR 940	12/21/15	yes		yes				Bench debris, weird MH wall staining, suds buildup, needs further investigation, needs pipes parged
77A		Youngstown	SR 940	12/21/15	yes	yes				yes	3-way (looks like it crosses 940) Some buildup, Pipe penetrations need parging, parge/seal riser intersection(St. Marys Dr.). HS2. Fog build up, build up.
78	2	Youngstown	SR 940	12/21/15							
79	2	Youngstown	SR 940	1/7/16	yes		yes				
79x		Youngstown	SR 940	12/21/15			yes				Massive deterioration(HS2). Frame is rusting. Possible fog buildup.
80x	2	Youngstown	SR 940	12/21/15			yes				Massive deterioration(HS2); Manhole seems to collect from Cittero's pre-treatment plant.
81X		Youngstown	SR 940	12/21/15	yes		yes				Deteriorating, possibly softening of concrete(HS2). Pipe penetrations aren't parged. Parge and seal exterior
83	2	Youngstown	SR 940	12/21/15			yes			yes	Possible deterioration(HS2). Parge and seal exterior. Casting is rusting/ flaking.
85	3	Youngstown	SR 940	1/7/16	yes	yes			yes		

Manhole #	Plan Sheet #	Section	Street	Inspection Date	Separation at connections	Build Up in Channel	Wall Staining	Adjustment Ring Separation	I&I	Chimney/Riser Separation	Field Notes
86	3	Youngstown	SR 940	1/7/16	yes		yes				
87	3	Youngstown	SR 940	12/28/15	yes						
88	3	Woodside	Hazle Street	12/28/15	yes	yes	yes				Cleanout has debris
89	3	Woodside	Hazle Street	12/28/15		yes		yes			
90	3	Woodside	Hazle Street	12/28/15							No notes
91	3	Woodside	Hazle Street	12/28/15							No notes
91a	11	Woodside	Alley C	12/28/15		yes	yes		yes		Strange pipe. Repair whole alley
92	3	Woodside	Hazle Street	12/28/15							No notes
92X				12/28/15					yes		
93	4	Woodside	Hazle Street	12/28/15			yes				
93X				12/28/15	yes				yes		Drop connection not parged.
94	4	Woodside	Hazle Street	12/28/15			yes	yes			Location not exactly shown on as-builts
94A	4	Woodside	Hazle Street	12/28/15				yes	Possible		
94B				12/28/15			yes				Steps misaligned slightly
95	4	Woodside	Hazle Street	12/28/15							Not found. Possibly under pavement. Bus company rep mentioned it was 6" under pavement
96	9	Woodside	Alley A	12/28/15			yes				Cracks in chimney
97	9	Woodside	Alley A	12/28/15			yes		Possible		Riser cracked
98	10	Woodside	Alley B	12/28/15		yes	yes				Needs new lid; Debris in channel
100	12	Woodside	Alley D	1/7/16			yes				
100a	12	Woodside	Alley D	12/28/15	yes			yes	Possible		
101a	13	Woodside	Alley E	1/7/16							No notes
102	14	Woodside	Alley F	12/28/15				yes			
106	6	Woodside	Wyoming Ave	12/28/15		yes	yes				Trench looks good; Debris in channel
108	6	Woodside	Wyoming Ave	12/28/15			yes				
109	6	Woodside	Wyoming Ave	12/28/15			yes				
110B				12/28/15		yes		yes			
110C				12/28/15					yes		
110EX	4	Woodside	Hazle Street	12/28/15					yes		
111	7	Woodside	Wyoming Ave	12/28/15	yes	yes	yes		yes		
112A	14	Woodside	Adams St	12/28/15				yes	Possible		
112B	14	Woodside	Adams St	12/28/15		yes		yes			
112C	14	Woodside	Adams St	12/28/15					Possible		Whole road repaved. Cracked rim
114	8	Woodside	Wyoming Ave	12/28/15	yes		yes				
114a	8	Woodside	Wyoming Ave	12/28/15	yes		yes				
115	8	Woodside	Wyoming Ave	12/28/15	yes		yes				Locked gate
115B				12/28/15	yes		yes				Severe rusting on rim
116	5	Woodside	Hazle Cross Country	12/28/15	yes						
117	5	Woodside	Hazle Cross Country	12/28/15	yes						Strange pipe
118	5	Woodside	Hazle Cross Country	1/7/16			yes				
120	16	Woodside	Carbon St	1/7/16							Not found, possibly under pavement
121	16	Woodside	Carbon St	1/7/16			yes		yes		Misaligned steps
121A				12/28/15	yes		yes				Rusted lid/ riser. Stairs don't line up
121X				12/28/15	yes		yes		yes		
122	16	Woodside	Carbon St	12/28/15	yes				yes		Rusted ring on risers
122A				1/7/16	yes		yes				Rusted lid/ riser. Stairs don't line up
122B				12/28/15							Manhole does not exist. There are cleanouts in this area that connect directly to MH122A
122C				12/28/15							Locked Manhole
125	17	Woodside	Luzerne St	1/7/16							Little debris
126	17	Woodside	Luzerne St	12/28/15	yes	yes					
127	17	Woodside	Luzerne St	1/7/16	yes		yes				
128	18	Woodside	Park St	1/7/16							Does not exist
129	20	Woodside	Fern St	12/28/15			yes				
130	20	Woodside	Fern St	12/28/15		yes			yes		Riser cracked
131	20	Woodside	Fern St	12/28/15			yes				
132	20	Woodside	Fern St	12/28/15		yes	yes				
132A				12/28/15	yes		yes				Needs parge repair. Rim replacement.
133	21	Woodside	Carbon St	12/28/15		yes	yes	yes			Riser cracked. Material on bench. Paved whole st.

Manhole #	Plan Sheet #	Section	Street	Inspection Date	Separation at connections	Build Up in Channel	Wall Staining	Adjustment Ring Separation	I&I	Chimney/Riser Separation	Field Notes
134	21	Woodside	Carbon St	12/28/15	yes	yes	yes				Strange drop connection; Minor debris in channel
135	19	Woodside	Ridge St	12/28/15			yes				
136	3	Sub Area 5	Luzerne St	12/28/15			yes				
137	3	Sub Area 5	Luzerne St	12/28/15				yes	yes		
138	3	Sub Area 5	Luzerne St	12/28/15					yes		Mis matched steps
139	4	Sub Area 5	Luzerne St	12/28/15					yes		Mis matched steps
140	4	Sub Area 5	Luzerne St	12/28/15					yes		Bad miss matched steps. Large cleanout pipe going to channel.
141	4	Sub Area 5	Luzerne St	12/28/15					yes		
142	13	Sub Area 5	Birch St	12/28/15					yes		
143	13	Sub Area 5	Birch St	12/28/15					yes		2 cleanout pipes attached
144	13	Sub Area 5	Birch St	12/28/15							Nothing to report
145	13	Sub Area 5	Birch St	1/7/16							May need additional risers
146	13	Sub Area 5	Butler Terrace Rd	12/28/15					yes		
147	12	Sub Area 5	Green St	12/28/15							rust(minor)
148	12	Sub Area 5	Green St	12/28/15					yes		terminous
149	10	Sub Area 5	Hemlock St	12/28/15					yes		
150	10	Sub Area 5	Hemlock St	12/28/15				yes			damaged ring
150A				12/28/15							Manhole does not exist. There are cleanouts in this area that connect directly to MH150
151	10	Sub Area 5	Hemlock St	12/28/15		yes			yes		mis matched steps; Debris in channel
152	11	Sub Area 5	Hemlock St	12/28/15			yes		yes		rusted riser
152A											Nothing to report
153	8	Sub Area 5	Alley H	12/28/15					yes		
154	8	Sub Area 5	Alley H	12/28/15			yes				
155	9	Sub Area 5	Alley H	12/28/15		yes		yes	yes		rusted lid/ riser
156	9	Sub Area 5	Alley H	12/28/15		yes		yes			road about 12 ft wide; Debris in channel
157	6	Sub Area 5	Cedar St	12/28/15			yes				
158	6	Sub Area 5	Cedar St	12/28/15			yes				
159	6	Sub Area 5	Cedar St	12/28/15							no notes
160	7	Sub Area 5	Cedar St	12/28/15		yes			yes		Sitting in cracked concrete patch
161	7	Sub Area 5	Cedar St	12/28/15					yes		
161A				12/28/15			yes				
163		Sub Area 5	Vine st	12/28/15							no notes
164	3	Highland	Highland Heights	12/21/15			yes			yes	Possibly parge chimney under casting
164A		Highland	Highland Heights	12/21/15							No notes
164B		Highland(Easement)	Highland Heights	12/21/15					yes		
164C		Highland(Easement)	Highland Heights	12/21/15					yes		
164D		Highland(Easement)	Highland Heights	12/21/15			yes				Possible HS2. Roots under casting(in grass)
165											
166	3	Highland	Highland Heights	12/21/15					yes		Gap at grade adjustment ring - hole under lid. According to Franzosa rep, dead end pipe stubbed out to NW
168	8	Highland	Sawmill Rd	12/21/15					yes		
168a		Highland	Sawmill Rd	12/21/15				yes			
169	1	Highland	Main St	12/21/15			yes	yes	yes		I&I noted at casting/cone joint. Saw Mill Road received full width paving from Highland Road to last house.
169a	1	Highland	Sawmill Rd	12/21/15			yes	yes			Broken concrete riser
170	5	Highland	Main St	12/21/15							Drop connection. Misaligned steps
171	5	Highland	Main St	12/21/15			yes	yes			Gap at grade adjustment ring - hole under lid. Possible HS2
172	4	Highland	Main St	12/21/15			yes				Possible HS2 buildup
173	4	Highland	Main St	12/21/15							no notes
174	4	Highland	Main St								Possible HS2. Outlet looks larger. Invert in from West, looks 10" or 12"(white pipe). Frame is bolted, not parged.
175	7	Highland	Back St	12/21/15					yes		Patch outside MH. Inside drop. Debris in channel
176	7	Highland	Back St	12/21/15			yes				
177	7	Highland	Back St	12/21/15			yes				3 way manhole. Bent grade adjustment rings.
178	7	Highland	Back St	12/21/15		yes		yes	yes		Large gap under lid-break adjustment ring
179	7	Highland	Back St	12/21/15					yes		Leaves on bench. Grade adjustment for ring gap. Minor build up in channel
179A		Highland	Back St	12/21/15					yes		3-way manhole leading to Pump Station. Build up in center of channel
180	7	Highland	Back St(Dead End)	12/21/15					yes		
181	6	Highland	Alley				yes			yes	Full width paving along alley. Appx 10' wide. Added extension into field.
182	6	Highland	Alley	12/21/15		yes	yes				2 grade adjustment rings

Manhole #	Plan Sheet #	Section	Street	Inspection Date	Separation at connections	Build Up in Channel	Wall Staining	Adjustment Ring Separation	I&I	Chimney/Riser Separation	Field Notes
183	6	Highland	Alley	12/21/15		yes	yes				grade adjustment rings
Flush Connection		Woodside		12/28/15	yes						Manhole full of water.
Flush Connection	5	Highland	Sawmill Rd	12/21/15				yes			Debris and water filled base; recommended pumping and verifying concrete base; adjustment ring separation
Air Release	8	Highland	Sawmill Rd	12/21/15	yes						No concrete base; pipe connections not sealed
Air Release	8	Highland	Sawmill Rd	12/21/15	yes						No concrete Base
					33	25	70	26	42	11	



165 N. Wilkes-Barre Blvd. • Wilkes-Barre, PA 18702
Phone: (570) 208-3130 • Fax: (570) 823-4727

November 22, 2019

Pennsylvania Infrastructure Investment Authority (PENNVEST)
333 Market Street / 18th Floor
Harrisburg, PA 17101-2210

Attn: Rebecca Kennedy, Region IV Project Specialist

Re: **Collection System Inspection**
PENVEST Loan No. 71342
Foster Township – Woodside Wastewater
Collection & Conveyance to FMA
Foster Township, Luzerne County, PA

Dear Ms. Kennedy:

Pursuant to the inspection of the collection system by independent consultant, Barry Isett and Associates, Inc. from December 21, 2015 thru January 7, 2016, we offer the following for your consideration:

1. Our office did not receive a copy of the BIA report until May 9, 2017.
2. Our office was informed that maintenance activities have taken place from early 2016 to the present. The work included flushing the manholes/lines, spray cleaning and removing debris inside of the manholes, and parging. Our office was requested by the Township to inspect the collection system and document the work completed and/or being performed. Our inspection occurred from May 17, 2018 thru May 25, 2018. A copy of the inspection reports are herein enclosed.
3. There are several manholes that are deteriorating from hydrogen sulfide in the Youngstown Area. The Township was/is looking into repairs and/or replacement of these manholes. This work was anticipated for fall of 2018, but our office has not received any update on such work. These manholes have been identified in the BIA report.
4. Any inconsistencies from the as-built plans, as documented in the BIA report and subsequent inspection forms, will be resolved. Upon submitting the Post Construction Certification, an additional copy of the as-builts were submitted to the Department on November 18, 2019.

5. The above and attached information is supporting documentation on the collection system.

Should there be any questions or additional information is required, please don't hesitate to contact me at 570.208.3130 ext. 130 or via email at TomBarna@penneastern.com.

Very Truly Yours,



Thomas E. Barna, Jr., P.E.
PennEastern Engineers, LLC

Enclosure: Inspection reports (13 pages)

Cc: Foster Township Board of Supervisors(via email)
Timothy C. Holden, P.E.(via email)
Daryl Pawlush, Principal, PennEastern Engineers, LLC(via email)
Attorney Donald G. Karpowich, Esq.(via email)
Scott F. Novatnak, DEP Project Manager(via email)
Franzosa Trucking Co.(via email)
File #2015-172

PennEastern

165 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

TO

Foster Twp

DATE 05-17-18	JOB NO. 2015-072
PROJECT Upper Lehigh Wastewater	
LOCATION Upper Lehigh Section Foster Twp	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE	

THE FOLLOWING WAS NOTED:

05-17-18

- Started 11:30 AT Upper Lehigh Pumping Sta
- Mt 48 - Inside Pumping Sta Inlet Pipe needs Parging
 - Mt 47 B. Parged - OKAY
 - Mt 47A Parged - OKAY
 - Mt 46 Parged OKAY - Removed debris from Channel
 - Mt 45A Parged OKAY
 - Mt 45 Parged OKAY
 - Mt 44A Parged OKAY
 - Mt 44 Parged OKAY
 - Mt 37 Reparge Inside not complete (doghouse)
 - Mt 41 Reparge outlet side of Pipe
 - Mt 40 Parged OKAY
 - Mt 39B Parged OKAY
 - Mt 39A Parged - Excess water in channel not draining properly
 - Mt 33 Parged OKAY
 - Mt 34 Parged OKAY
 - Mt 35 Parged OKAY
 - Mt 36 Parged OKAY
 - Mt 32 Channel full of feces needs to be cleaned
 - Mt 31 Parged Needs Quick seal applied inside of core
 - Mt 29 Parged OKAY Mt 30A - Not to be Mt 30B - Not installed

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(cont)

SIGNED

John W. Lamb

PennEastern

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 Wilkes-Barre, PA 18702
 PHONE: (570) 208-3130
 FAX: (570) 823-4727

DATE 05-17-18	JOB NO. 2015-072
PROJECT Upper Lehigh Wastewater	
LOCATION Upper Lehigh Section Foster Twp	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE	

TO Foster Twp

THE FOLLOWING WAS NOTED:

Continued

- Mt 30 - Raged - Opened clogged channel
- Mt 24. Raged. OKAY - Good Flow
- Mt 23 Raged OKAY
- Mt 22 Raged OKAY
- Mt 21 Raged OKAY slow Flow
- Mt 24 Raged - Removed concrete debris from channel - faster Flow
- Mt 25 Raged OKAY - Blockage removed - check again
- Parcours St* Mt 21 Raged OKAY very little Flow
- Mt 20 Raged OKAY - very little Flow - it appears that a pipe ^{sewer} from a Fifth wheel discharges into the ground, needs to be checked
- Mt 19. Raged OKAY - very little Flow
- Mt 18. Raged OKAY very little Flow
- Spring St* Mt #1 Raged OKAY - 2 laterals are hooked into the main pass the Mt
- Mt #2 Spring & Goose Raged OKAY
- Mt #3 Raged OKAY
- Mt #4 Raged OKAY
- Mt #6 Raged OKAY Goose & Alley "A"
- Mt #5 Raged OKAY
- Mt #9 Raged OKAY
- Mt #9-A Raged OKAY
- Mt #8 Raged OKAY Alley "A"
- Mt #7 Raged OKAY Alley "A"

Continued

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John Cook

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Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

DATE 05-17-18	JOB NO. 2015-072
PROJECT Upper Lehigh Waste water	
LOCATION Upper Lehigh Section Foster Twp	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE	

TO Foster Twp

THE FOLLOWING WAS NOTED:

- ^{Cont}
^{main st} Mt # 13 Parged OKAY
- Mt # 12 Parged OKAY - Channel needs cleaning clogged with toilet paper & feces
- Mt # 12A Parged OKAY channel needs cleaning
- Mt # 11 Parged OKAY channel needs cleaning clogged with toilet paper & feces
- Mt # 11A Parged OKAY nothing flowing
- Mt # 10 - Callot Lind WAS it deleted from the project?
- Mt # 30 B - deleted from the plans?
- Mt # 15 A - Parged OKAY
- Mt # 16 Inlet Pipe high - Parged OKAY
- Mt # 27 Parged OKAY
- Mt # 28 Parged OKAY - NO FLOW - NO HOUSE HERE
- Mt # 17 Parged OKAY

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165 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

DATE 05-18-18	JOB NO. 2015-072
PROJECT Upper Lehigh Waste Water Foster Twp	
LOCATION Main Rd	
CONTRACTOR FRANZSO	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE	

TO Foster Twp

THE FOLLOWING WAS NOTED:

Started at 7:30.

Commenced at Lehigh Pumping Station. Parging Areas that had comments yesterday

MH # 48. Parged inlet inside of Pumping Sta complex OKAY

MH # 37 Parged inside of Manhole around pipe area 3 way Manhole. OKAY (dog house)

MH # 41 Re-parged outlet side of manhole pipe. OKAY

Comments. Need to Quickseal core of Manhole 41
wet inside of core

Areas mentioned ~~needed~~ needs attention not enough flow

~~Manhole~~ Manhole channels are clogged. Manholes 21 thru Manhole 18. not enough flow; also, a wild cat has K-up from a fifth wheel trailer. Also, Manholes 30B & Manhole #10, were they removed from the plans?

The time above is combined with Highland Section for 8 hrs.

7:30 to 3:30 - 8 hrs

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John Carl

PennEastern

165 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

TO Foster Twp

DATE <u>05-18-18</u>	JOB NO. <u>2015-072</u>
PROJECT <u>Highland Foster Twp Wastewater</u>	
LOCATION <u>Highland Main St Foster Twp</u>	
CONTRACTOR <u>FRANCO</u>	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE	

THE FOLLOWING WAS NOTED:

Started at Highland Main St
Mt 169A Parged OKAY
Mt 169 Parged OKAY

There is AN AIR Release & Flush connection Mt, that should have
Water Removed

Mt 170A Parged - 3way Mt OKAY

Mt 171 Parged OKAY

Mt 172 Parged OKAY

Mt 173 Parged OKAY

Mt 174 Parged OKAY

Mt 175 Parged OKAY

Mt 176 Parged OKAY

Mt 177 Parged OKAY 3way

Mt 178 Parged OKAY

Mt 179 Parged OKAY

Mt 180 Parged OKAY

Mt 181 Parged OKAY

Mt 182 Parged OKAY

Mt 183 Parged OKAY

Highland Heights

Mt 166 Parged OKAY

Mt 164 Parged OKAY

Mt 164A Parged OKAY

Mt 164B Parged OKAY

Mt 164C Parged OKAY

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165 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

TO

Foster Twp

DATE	05-23-18	JOB NO.	2015-072
PROJECT	Youngstown waste water		
LOCATION	Youngstown Foster Twp		
CONTRACTOR	FRANZOSA	OWNER	
WEATHER		TEMP.	° at AM ° at PM
PRESENT AT SITE	Utility TRK & pressure washer		

THE FOLLOWING WAS NOTED:

Started at 7:30

Mt 65. inlet & outlet Parged OKAY - DROP

Mt 70. inlet & outlet Parged OKAY

Mt 49 dead end Mt outlet Parged OKAY Manhole not as in the
plans moved onto ^{St Johns} Dr at driveway of 216 St ^{Johns} Dr

Mt 50 Parged OKAY

Mt 51 Parged OKAY - 3WAY Mt

Mt 71 Parged outlet dead end

Mt 54 - Parged OKAY 3-way Mt

Mt 69 Parged OKAY

Mt 69A Parged OKAY

Mt 69B Parged OKAY dead end Mt

Mt 58 Parged OKAY

Mt 57 Parged OKAY - Pressure washed yesterday. needed pressure

washing today clogged at outlet site

Mt 56 Parged OKAY Pressure washed at outlet side clogged at pipe

Mt 60 Parged - 3way Power washed channel clogged with toilet Paper

Mt 59 Pumping Sta Feed Parged OKAY

Mt 61 Alley - Parged OKAY

Mt 62 Alley - Parged OKAY dead end Manhole

Mt 66 Parged OKAY heavy flow FAST

Mt 63 - top of pipe outlet side needs parging

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Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

DATE 05-23-18	JOB NO. 2015-072
PROJECT Woodside area #1	
LOCATION Adams Foster Twp	
CONTRACTOR FRANZSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE lot lot of TRK with power washer	

TO

Foster Twp

THE FOLLOWING WAS NOTED:

Cost

note ~~at~~ at the intersection of Adams & Hazel the plans show
manhole 94A & Manhole 95; however they don't exist

MH 112B - Parged OKAY

MH 102A - Parged OKAY

MH 111 - Parged OKAY

MH 101 - Parged today OKAY

Washington & Hazel St

MH 110 ex drop - 3WAY Parged OKAY

MH 110 C - Parged OKAY

MH 110 B - Parged deadend MH

~~Alley~~ Alley "D"

MH 93 x drop Parged OKAY

MH 100 Parged OKAY

MH 100A Parged OKAY deadend

MH 100 "B" Parged OKAY

~~MH 100A~~ MH 130 - tee 3WAY - Parged OKAY at bowling alley Fern St

MH 133 - Parged OKAY NO FLOW

MH 134 - drop - Parged - inside drop bottom elbow needs to be fixed
change elbow to discharge flow into channel

Fern St MH 131 - Parged OKAY

MH 132 - 4WAY Parged OKAY

note 330 - 8 hrs

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[Signature]

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165 N. Wilkes-Barre Boulevard
 Wilkes-Barre, PA 18702
 PHONE: (570) 208-3130
 FAX: (570) 823-4727

DATE 05-23-18	JOB NO. 2015072
PROJECT Youngstown Waste Water	
LOCATION State Rt 940	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE Utility Talk Power Washer	

TO Foster Twp

THE FOLLOWING WAS NOTED:

(Cont)

at Mt #79. Can't find must be ~~the~~ Manhole that crosses State Rt 940

Mt 79X Parged OKAY

Mt 80 Parged OKAY - Pipe from Citterio's Pretreatment plant

Mt 81X 3way Parged OKAY - Good flow

Mt 82X Parged OKAY

Mt 77A Parged OKAY - 3way

Mt 83 ?

Mt 84 Parged OKAY? not sure if Mt 83 or Mt 84

Mt 85 Parged OKAY

Mt 86 Parged OKAY

Mt 87 Parged OKAY

Woodside area

Mt 88 drop 3way Parged

Mt 89 Parged house #105 is Pumping water & it goes in the lid of the Manhole

Mt 90 Parged OKAY

Mt 96 drop - Parged - no flow

Mt 97 Parged OKAY

Mt 106 outlet Parged OKAY deadend Mt

Alley "B" Mt 98 outlet Parged deadend

Mt 91X

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165 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

DATE	05-23-18	JOB NO.	2015-092
PROJECT	Woodsider Area Alley "c"		
LOCATION	Alley "c" State Rte. 940		
CONTRACTOR	FRANZOSA	OWNER	
WEATHER		TEMP.	° at AM ° at PM
PRESENT AT SITE			
Utility TRK - Pressure washer			

TO Foster Temp

THE FOLLOWING WAS NOTED:

Coat

- MH 91A. Alongside of Rte 940 Parged OKAY
- MH 91X Did not look, too dangerous on curve of Rte 940
- MH 109 Parged OKAY
- MH 108 CAR blocking Manhole
- MH 135 3 way tee Parged OKAY Heavy Flow
- MH 129 Parged OKAY
- Sub AREA "5" LUZERNE & VINE ST
- MH 136A 3-WAY Parged OKAY
- MH 136 3 way Parged OKAY
- 163 dead end Parged OKAY

7:30 to 3:30 Shas

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John W. Paul

PennEastern

165 N. Wilkes-Barre Boulevard
Wilkes-Barre, PA 18702
PHONE: (570) 208-3130
FAX: (570) 823-4727

DATE 05-14-18	JOB NO. 2015-072
PROJECT Washington & Alley D, - Woodside	
LOCATION Washington & Alley D	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE Utility Trk. Power Washer	

TO Foster Tap

THE FOLLOWING WAS NOTED:

cont

- Mt 110 C Parged OKAY
- 110 B dead end Parged OKAY
- Alley "D" inc HAZEL
- Mt 93X Drop Parged
- 100 Parged OKAY
- 100A Parged OKAY
- 100B Parged OKAY — FEARS RD. to MME baseball field
- 130 3-WAY Parged OKAY
- 134 drop Parged OKAY, elbow on bottom of drop needs to be changed to that paper is spread on top of channel
- 131 Parged OKAY FEARS ST
- 132 Parged OKAY - 4WAY Intersection of Fern & Luzerne

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165 N. Wilkes-Barre Boulevard
 Wilkes-Barre, PA 18702
 PHONE: (570) 208-3130
 FAX: (570) 823-4727

DATE 05-24-18	JOB NO. 2015 072
PROJECT Waste water - Foster Twp	
LOCATION Washington Adams St Carbon, Park Juniper Adams Hazel	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE Locality TRK - Power washer	

TO Foster Twp

THE FOLLOWING WAS NOTED:

Started 9:30 - Juniper St

- Mt 122 Parged OKAY
- 127A Parged OKAY
- 127 Parged OKAY
- 125 Parged OKAY

Carbon & Park

- Mt 121 v Parged OKAY
- Mt 121 Parged OKAY
- 128 - no manhole Park St

Mt 126 Not Parged - Now Parged OKAY
 Note manholes 63 & 64 Parged OKAY

Adams & Hazel

- Manhole 94.B Parged OKAY
- 112c Parged OKAY
- 112B Parged OKAY
- 112A Dead end Parged OKAY

Alley E

- Mt 111 Parged OKAY
- Mt 101A Parged OKAY Parged today

Washington

Washington & Hazel Mt 110 ^{3 way} drop Parged OKAY

"cont"

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PennEastern

165 N. Wilkes-Barre Boulevard
 Wilkes-Barre, PA 18702
 PHONE: (570) 208-3130
 FAX: (570) 823-4727

DATE 05-25-18	JOB NO. 2015 072
PROJECT Foster tarp waste water	Sub Area 5
LOCATION Cedar - Alley H Green, Hemlock	Birch St
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ° at AM ° at PM
PRESENT AT SITE Lotulity TRK Pressure Washer	

TO Foster tarp

THE FOLLOWING WAS NOTED:

Started 7:30

- Mt 161 Parged OKAY
- 160 Parged NO Flow
- 159 Parged Good Flow
- 158 Parged OKAY
- 157 Parged OKAY 3-way?
- 127 Parged 3WAY OKAY

Alley H

- Mt 156 - dead end Parged OKAY
- 155 Parged OKAY
- 154 Parged very Little Flow
- 153 Parged
- 138 3WAY - Parged

Hemlock ~~139~~

- 139 3WAY Parged
- 149 Parged OKAY
- 150 3WAY Parged OKAY
- 150A cleanouts
- 151 Parged Good Flow
- 152 dead end Parged manhole distances between each has ^{changed}

(cont)

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John Paul

Michael P. ...

Consulting Engineers & Surveyors
165 North Wilkes-Barre Boulevard
Wilkes-Barre Pennsylvania 18702
(570) 823-4712 — (570) 693-4257
FAX (570) 823-4727

DATE 05-25-18	JOB NO. 2015-072
PROJECT Foster Twp Sub Area 5 Sewer Proj	
LOCATION Green St Foster Twp	
CONTRACTOR FRANZOSA	OWNER
WEATHER	TEMP. ⁰ at ⁰ at AM PM
PRESENT AT SITE Utility Tek Pressure Washer	

TO

Foster Twp

THE FOLLOWING WAS NOTED:

Cont

Green St

Mt 148 - Parged OKAY

147 Parged OKAY

140 drop Parged OKAY

Between Mt 139 & Mt 140 at Alley cored manhole for Alley Lateral - Birch St

Mt 141 Parged OKAY manhole moved farther in the curve of road

Mt 142 Maybe Mt 143 - 2 drops Parged OKAY

Mt ~~144~~ 145 dead end Parged OKAY - NO Flow

Mt 144 - 4 way - into manhole from Birch, Butler Terrace Rd at triangle from Butler Twp sewer lines

Notes: Mt 128 Park St omitted not installed

Mt's 94A & Mt 95 buried under pavement - Adams St

Mt #10 - main rd upper high found dead end Parged

Birch St Mt 142 May have been deleted due to pipe encased in concrete

Youngstown Mt 75 & Mt 79 rt 940 Road crossing cannot find manholes

7:30 to 8:30 - 8 hrs

COPIES TO

FIELD REPORT

SIGNED

John Paul

Foster Township Manhole Condition Assessment

Prepared for:

Pennsylvania American Water Company

**Foster Township, Luzerne County
Pennsylvania**

February 18, 2021

Prepared by:



**ENTECH ENGINEERING INC.
239 South Mountain Blvd
Mountaintop, PA 18707
(570) 868-0275**

Entech No. 5400.034

Background:

As part of the on-going work associated with Pennsylvania American Water Company's (PAWC) acquisition of the western portion of Foster Township's sewer collection system, Entech Engineering has inspected nine (9) manholes located near the Citterio USA Corporation's sewage pre-treatment facility.

Two (2) manholes located upstream of the pre-treatment facility, one at the discharge of the facility, and six (6) manholes beyond the facility were visually inspected to determine the extent of damage associated with the wastestream.

Please refer to the exhibits below.

Exhibit 1 – Location Map

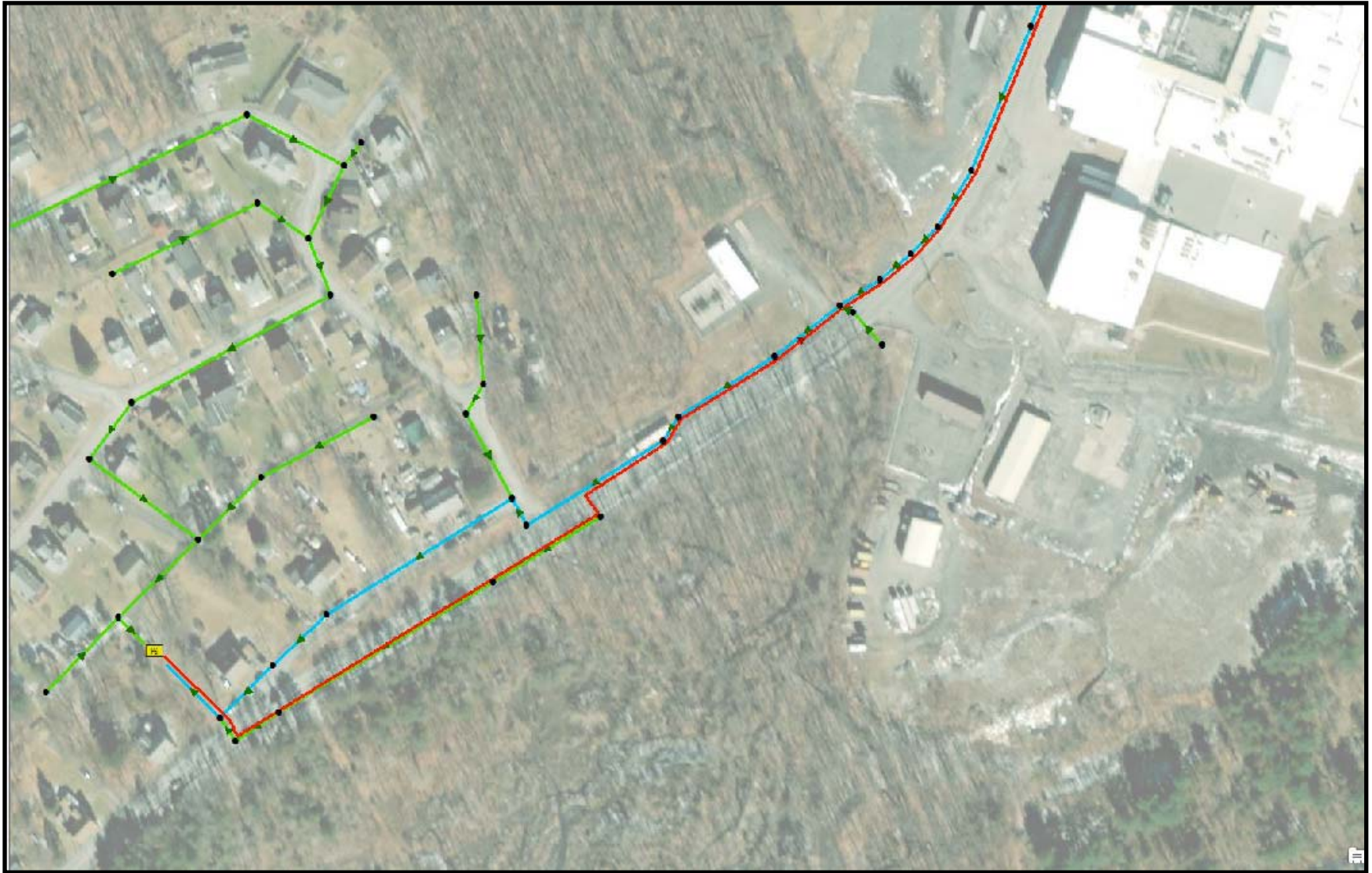


Exhibit 2 – Manhole Inspection Locations ★

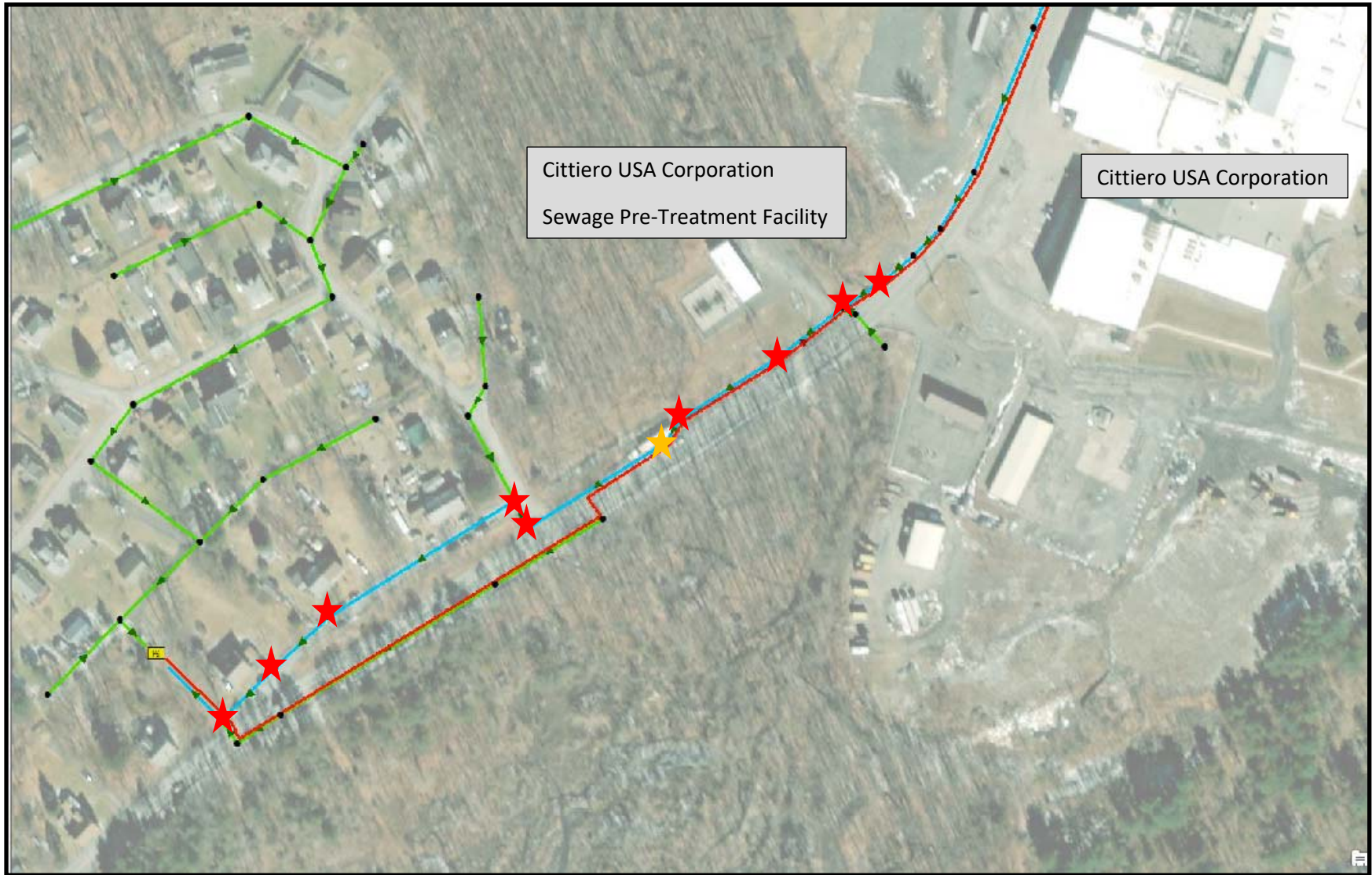
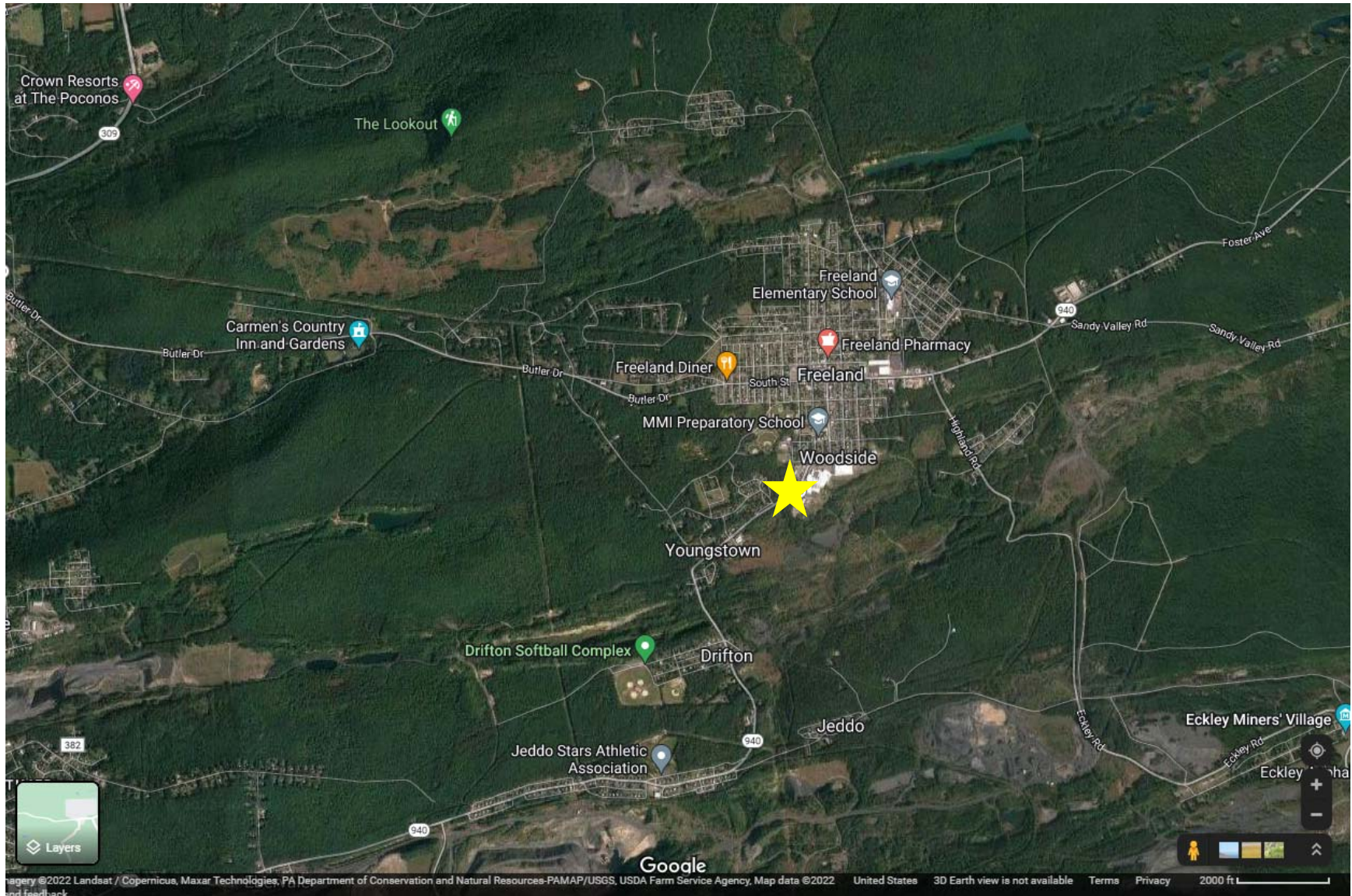


Exhibit 3 – Site Map



Field Investigations:

On February 10, 2022, Entech Engineering met with Foster Township’s contract operations team to open, inspect, photograph, and document the conditions of precast manholes located along State Route 940, St. Mary’s Drive, and Scotch Hill Road. A total of nine (9) manholes were inspected; one manhole along SR940 shown on Exhibit 2 (with an orange star near the approximate location) could not be located for inspection. Recent snow events produced large amounts of salt and frozen debris along the shoulder where the manhole should have been located.

Upstream of the Citterio USA Corporation Sewage Pre-Treatment Facility:

The two manholes upstream of the facility appear to be in good condition. The precast and castings appeared to be in good condition. There were no signs of decay, unusual wastestream color, odors, or infiltration and inflow in the two manholes.



At the Sewage Pre-Treatment Facility Discharge:

The manhole located alongside the driveway access to the pre-treatment facility demonstrated significant deterioration in the pre-cast concrete cone, wall sections, and bench. The decay within the manhole was accompanied with signs of hydrogen sulfide odors, and soft, friable concrete.

Because of the substantial amount of steam and heavy grease/dirt buildup, an exact depth of damage could not be confirmed. No rebar was visible in the manhole.



In the photo above, please note the crumbling concrete near the upper portion of the manhole, the grease and dirt buildup as well as the flow condition in the manhole. Upstream of this manhole the flow characteristics differ tremendously from the cloudy, much more odorous wastestream shown in the photograph above.



Above, note the hydrogen sulfide attack evidenced by the condition of the cone. After scratching the surface of the cone with the manhole pick, it was clear that the concrete in this manhole is deteriorating. However, due to the presence of grease and other debris, an exact depth of damage could not be recorded.



The inside drop connection where the pre-treatment facility discharges creates a significant amount of turbulence and appears to have caused some decay in the bench and channel of the manhole as shown above. While some debris was on the bench, there was aggregate exposed throughout the entirety of the manhole's precast structure.

Downstream of the Sewage Pre-Treatment Facility Discharge:





In the first manhole located after the discharge connection, there was significant decay of the concrete (see exposed aggregate throughout the precast) and the odors were not as noticeable. In the second of the three photos, the arrow points to where the precast was scratched and crumbled when the manhole pick was run along the surface of the concrete.

NOTE:

The next manhole downstream could not be located and inspected.

The next four manholes inspected demonstrated damage in the bench, wall, and cone sections of the precast. The manholes had grease buildup, exposed aggregate, and approximately 0.5" of concrete which was failing throughout the precast structure.



Sections of exposed aggregate in the manhole located at the intersection of Scotch Hill Road and St. Mary's Drive. The odors present in the above manhole were more noticeable than in the nearby manholes (likely due to the outside drop structure).



Scotch Hill Road manhole with between 0.25" – 0.5" of soft concrete material throughout. As the distance from the pre-treatment facility increased, the damage to the benches of the manholes became less extensive.

The final manhole before the Foster Township Pump Station (located along State Route 940 in the grassy area beside the road), had approximately 0.25" of failing concrete along the surface of the precast structure. The bench was in fair shape but the walls and cone did show significant amounts of grease buildup and surface deterioration.

Based on the conditions during the time of inspection, we recommend that all the manholes from the discharge manhole to the pump station be lined with a polyurea lining to protect the manholes from further chemical attack and decay. Assuming the unopened manhole matches the adjacent manholes' conditions, then eight (8) manholes with an average depth of approximately eight (8) feet deep would require 64 vertical feet of polyurea lining. Based on recent installations with the polyurea lining, we estimate the cost to line the manholes would cost approximately \$20,000.00 including labor and materials.

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of Pennsylvania-American Water :
Company-Wastewater Division for approval of :
the rights to: (1) acquire, by sale, certain :
wastewater system assets of Foster Township; :
and (2) begin to offer, render, furnish and : Docket No. A-2021-3028676
supply wastewater service to the public in :
portions of Foster Township, Luzerne County, :
Pennsylvania :

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the **Act 537 Plan Update as submitted by Entech Engineering, Inc.**, upon the parties listed below, in the manner specified below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a party):

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