



Teresa K. Harrold
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May 13, 2022

VIA ELECTRONIC FILING

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

**In re: Application of Pennsylvania-American Water Company for
Approval of the Right to Offer, Render, Furnish and Supply
Wastewater Treatment Service to the Public in an Additional
Portion of Elk Township, Clarion County, Pennsylvania**

Docket No. A-2022-3030364

Dear Secretary Chiavetta:

In response to your letter dated April 29, 2022, attached for filing is Pennsylvania-American Water Company's responses to Data Request Set I, regarding the above referenced docket number.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Harrold".

Teresa K. Harrold

Enclosures

cc: Matthew Lamb (*via enclosures*) (*via electronic mail*)
All Parties on the attached Certificate of Service (*w/enclosures*) (*via electronic mail*)

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-1 Application’s Section 8 indicated the requested territory abuts PAWC-WD’s existing certificated service territory in Elk Township which was approved by the Commission in PAWC-WD’s acquisition of the Shippenville Borough Wastewater System at Docket No. A-2014-2441953 (2014 Application). However, the existing territory boundaries depicted on the map included in the Application’s Exhibit B-1 do not match the boundaries of the service territory depicted in Exhibit L of the Commission approved 2014 Application creating gaps and overlaps between them. Please respond to the following:

- a. Explain the apparent discrepancies between PAWC-WD’s existing territory boundaries depicted on the map included in the Application’s Exhibit B-1 and the boundaries of the approved certificated territory depicted in the 2014 Application’s Exhibit L;
- b. Provide a revised copy of the Application’s Exhibits B-1 and B-2 to accurately depict and describe, by bearing angles and distances, the boundaries of PAWCWD’s existing certificated territory and adjust the boundaries of the requested territory to align with those of the adjacent existing territory; and
- c. Quantify the area of the revised requested territory in acres.

- Response:**
- a. PAWC maintains two datasets depicting its service areas. Dataset one is a buffer around all of the district’s infrastructure. Dataset two is a strict depiction of the certificated service territory. The incorrect dataset was used in the creation of the map for **Exhibit B-1**. A new map and bearings and distances table are attached as Amended Exhibits B-1 and B-2, which reflect the correct dataset with an updated extension area.
 - b. Please see **Amended Exhibits B-1 and B-2** for the revised map and bearings and distance table.
 - c. The revised requested territory in acres based on this corrected information is approximately 11.5 acres.

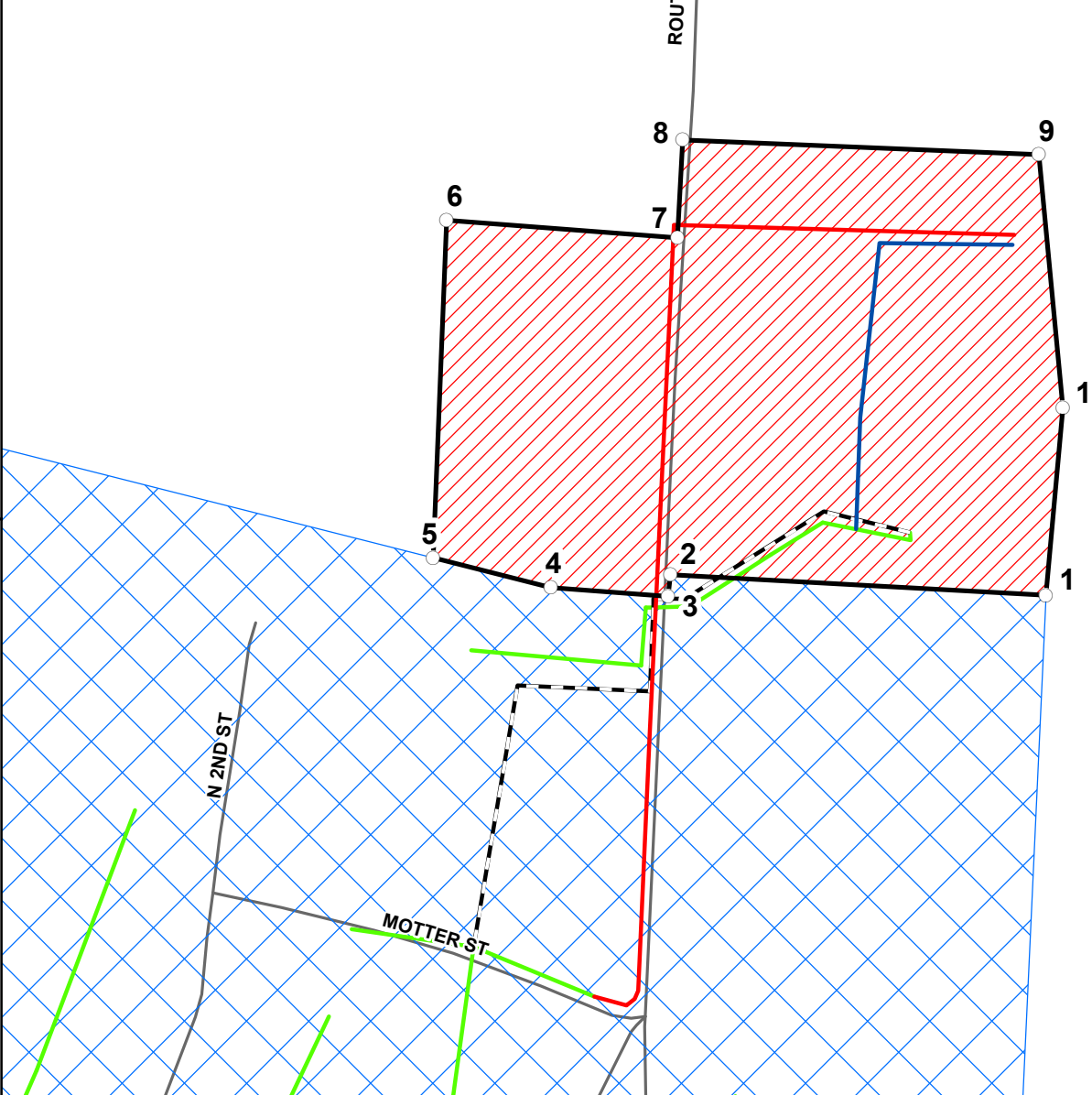
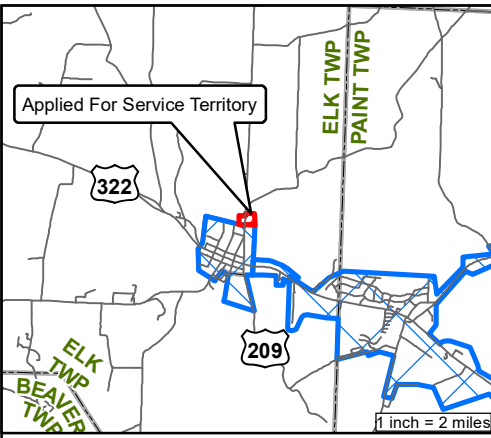
Responsible Witness: **Benjamin Gladis, Senior GIS Analyst
Pennsylvania-American Water Company**

Date: **May 13, 2022**

Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service to the
Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Revised Exhibit B-1

Map of the Application Territory



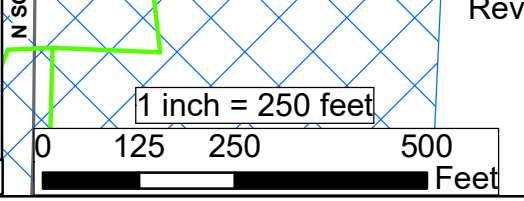
Pennsylvania-American Water Company
 Paint Elk Operating Area
 Proposed Service Territory Extension - SR 208
 Approximately 11.5 Acres
 Elk Twp, Clarion County

852 Wesley Dr
 Mechanicsburg, PA 17055
 Drawn By: BG Checked By: JTC Date: 5/4/2022

TO BE USED FOR REFERENCE ONLY

○ Bearings and Distance Points	— Existing Gravity Main
— Proposed Force Main	▨ Proposed Certificated Service Territory
— Proposed Gravity Main	▨ Existing PAWC Service Territory
— Existing Force Main	▭ Municipality

Although every effort has been made to ensure the accuracy of the information, errors and conditions originating from physical sources to develop the Certificated Service Territory may be reflected in the data supplied.



Revised Exhibit B-1

Disclaimer: Bearings and distances (attached separately) were not developed as result of physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS COGO tool.

Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service to the
Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Revised Exhibit B-2

Description of the Application Territory

Revised Exhibit B-2

Starting Point: At the intersection of Motter St, N 1st St & N School St in Elk Twp, PA, travel north along the centerline of N School St approximately 630 feet, then approximately 541 feet in an easterly direction to the most northeastern point of the existing territory.

From	To	Bearing	Distance(Ft)
1	2	N86°51'07"W	535.20
2	3	S5°39'19"W	30.98
3	4	N85°45'03"W	167.48
4	5	N75°48'48"W	172.47
5	6	N2°19'02"E	480.45
6	7	S85°36'46"E	329.09
7	8	N3°07'12"E	139.23
8	9	S87°41'16"E	506.71
9	10	S5°25'42"E	361.76
10	1	S5°08'17"W	267.64

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-2. The list of customers requesting service in the Application’s Exhibit C appears to include Parcel Nos. 08-020-010-001-00 and 08-020-008-000-00 (Requesting Customer Parcels). Additionally, PAWC-WD’s requested territory also appears to include portions of Parcel Nos. 08-020-010-000-00, 29-020-075-001-00, 29-020-108-000-00 and the entirety of Parcel No. 08-020-007-000-00, which are located between PAWC-WD’S existing certificated territory and the Requesting Customer Parcels. Please explain why PAWCWD included the four extra parcels as part of PAWC-WD’s requested territory.

Response: PAWC is requesting service territory extension for the following parcels: 08-020-008-000-00, 08-020-007-000-00, 08-020-010-001-00, 08-020-011-000-00, and 08-020-010-000-00, which does not contain a dwelling. PAWC already serves parcel nos. 29-020-075-001-00 and 29-020-108-000-00.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-3. Clarify whether PAWC-WD currently provides wastewater service to Parcel Nos. 08-020-010-001-00, 08-020-008-000-00, 08-020-010-000-00, 29-020-075-001-00, 29-020-108-000-00, or 08-020-007-000-00.

Response:

Parcel Number	Wastewater Customer of PAWC?
08-020-010-001-00	No.
08-020-008-000-00	No.
08-020-010-000-00	No.
29-020-075-001-00	Yes.
29-020-108-000-00	Yes.
08-020-007-000-00	No.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

- A-4.** The Application’s Section 14 indicated there are no additional easements or permits necessary to serve the requested additional territory. However, the Application’s Exhibit D depicts the location of PAWC-WD’s existing force main to be within rights-of-way of State Route 208 (SR 208). Please provide responses to the following:
- a. Clarify whether a PennDOT Highway Occupancy Permit will be required to install sewer laterals to connect to the force main; and
 - b. If permits and/or easements are needed to connect customers within the requested territory to either the force or gravity mains, please indicate the type of permit or easement, the filing status and estimated cost of these permits and/or easements.

Response:

- a. Yes, a permit will be required for the force main customer only.
- b. The gravity sewer customer laterals will be located within the existing gravity sewer main easement so no additional permits or easements will be required for gravity customer connections. The force main customer will require a PennDOT Highway Occupancy Permit which will not be applied for until service is requested. Highway Occupancy Permit fees are determined pursuant to Title 67 of the Pennsylvania Code and typically minimal.

Responsible Witness: **Jed A. Fiscus, P.E. – Engineering Manager, Northwest PA Pennsylvania-American Water Company**

Date: **May 13, 2022**

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

- A-5.** The Application’s Exhibit D included a copy of an aerial map entitled “SR 208 North Lift Station Area” that depicted the locations of the force main within SR 208 and the gravity main behind residential structures on the east side of SR 208. Please respond to the following:
- a. Identify the size and material type of both the force and gravity wastewater mains that will provide service to the requested territory;
 - b. Provide copy of the easements acquired by PAWC-WD for the gravity main; and
 - c. Clarify whether the force or gravity main will be used by PAWC-WD to provide service for each customer requesting service identified in the Application’s Appendix C.

Response:

- a. 4” High Density PolyEthylene (“HDPE”) for the force sewer main and 8” PolyVinyl Chloride (“PVC”) for the gravity sewer main.
- b. Copies of the easements are attached as **Attachment A-5(b)**.
- c. The two customers that provided letters attached as **Exhibit C to the Application** will be utilizing the gravity sewer main.

Responsible Witness: **Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company (Subparts a and c)**
**Jed A. Fiscus, P.E. – Engineering Manager, Northwest PA
Pennsylvania-American Water Company (Subpart b)**

Date: **May 13, 2022**

**Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service
to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania**

Attachment A-5(b)

Copies of the Easements Acquired by PAWC-WD for the Gravity Main

DEED OF EASEMENT AND RIGHT-OF-WAY

THIS INDENTURE, made this 16th day of August, 2019, by and between **TODD A. & HEIDI L. MARTIN**, hereinafter referred to as the "Grantors" and **PENNSYLVANIA-AMERICAN WATER COMPANY**, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having an office for the transaction of business at 425 Waterworks Road, Clarion, Pennsylvania 16214, hereinafter referred to as the "Grantee."

WITNESSETH

The Grantors, in consideration of the covenants and agreements hereinafter recited and the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, do hereby give, grant and convey unto the Grantee, its successors and assigns, forever, an Easement and a free uninterrupted and unobstructed Right-of-Way, in, under, across and over the property of the Grantor, situate in Elk Township, Clarion County, Pennsylvania; for the purpose of installing, laying, operating, maintaining, inspecting, removing, repairing, replacing, relaying and adding to, from time to time, pipe or pipes, with necessary fittings, appurtenances and attached facilities, including laterals and connections for the collection of sanitary sewer.

Said Sewer Line Easement and Right-of-Way, as shown on Exhibit "A," and as described on Exhibit "B" attached to this Deed of Easement and Right-of-Way, and made part hereof by reference hereto, is across the Grantors' lands, which are situated in Elk Township, Clarion County, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 2006-2054. Together with the right to the Grantee, its successors and assigns, to (i) enter in and upon the premises described above with people and machinery, vehicles and material at any and all times for the purpose of maintaining, repairing, renewing or adding to the aforesaid sewer line and appurtenances, (ii) remove trees, bushes, undergrowth and other obstructions interfering with the activities authorized herein, and (iii) for doing anything necessary, useful or convenient for the enjoyment of the easement herein granted.

The right of the Grantors to freely use and enjoy their interest in the premises is reserved to the Grantors, their successors and assigns insofar as the exercise thereof does not endanger or interfere with the construction, operation, and maintenance of Grantee's sewer line and attached facilities, except that no

building, structure or similar improvements shall be erected within said easement, nor shall the grade or ground cover over Grantee's facilities be substantially altered, without the consent of the Grantee. Notwithstanding the foregoing, no other pipes or conduits shall be placed within ten (10) feet, measured horizontally, from the said sewer line except pipes crossing same at right angles, in which latter case, a minimum distance of two (2) feet shall be maintained between the pipes. All water mains shall be laid above the sewer line. No excavation or blasting shall be carried on which in any way endangers or might endanger the water pipe lines and attached facilities.

TO HAVE AND TO HOLD the above granted Easement and Right-of-Way unto the same Grantee, its successors and assigns forever. The Grantee agrees, by the acceptance of this Deed of Easement and Right-of-Way that, upon any opening made in connection with any of the purposes of this Easement and Right-of-Way, said opening shall be backfilled and resurfaced to as nearly as possible the same condition as existed when said opening was made, provided that Grantee shall not be obligated to restore landscaping, other than reseeding any grass which was removed upon entry, all such work to be done at the expense of the Grantee.

Said Grantors do covenant with the said Grantee as follows:

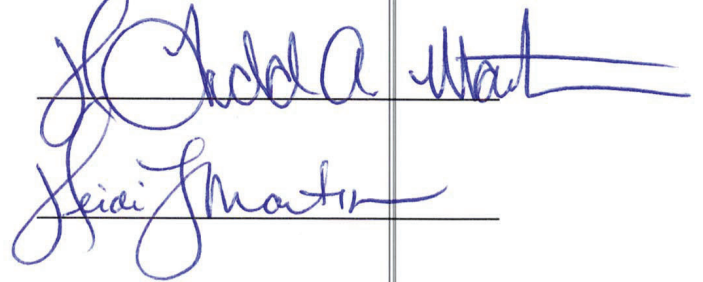
1. That the Grantors are the owners in fee simple of the real estate hereby subjected to said Easement and Right-of-Way, and have good title to convey the same, having acquired said real estate from Heidi Lynn Martin by deed dated May 1st, 2006, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 2006-2054.
2. That the Grantee shall quietly enjoy said Easement and Right-of-Way.

IN WITNESS WHEREOF, the Grantors have duly executed this INDENTURE, all as of the day and year first above written.

GRANTORS

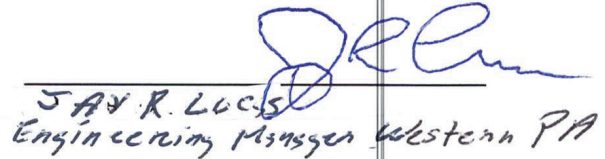
WITNESS

WITNESS



IN WITNESS WHEREOF, the Grantee has duly executed this INDENTURE, all as of the day and year first above written.

GRANTEE
PENNSYLVANIA-AMERICAN WATER COMPANY


J. R. LUCAS
Engineering Manager Western PA

ACKNOWLEDGEMENT FOR GRANTORS

COMMONWEALTH OF PENNSYLVANIA }

} SS:

COUNTY OF Clarion }

On this, the 16th day of August, A.D., **2019**, before me, a Notary Public, personally appeared, Heidi L. Martin, the GRANTORS, known to me or satisfactorily proven to be the persons whose names are subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public James L. McKinstry

My Commission expires: June 10, 2022

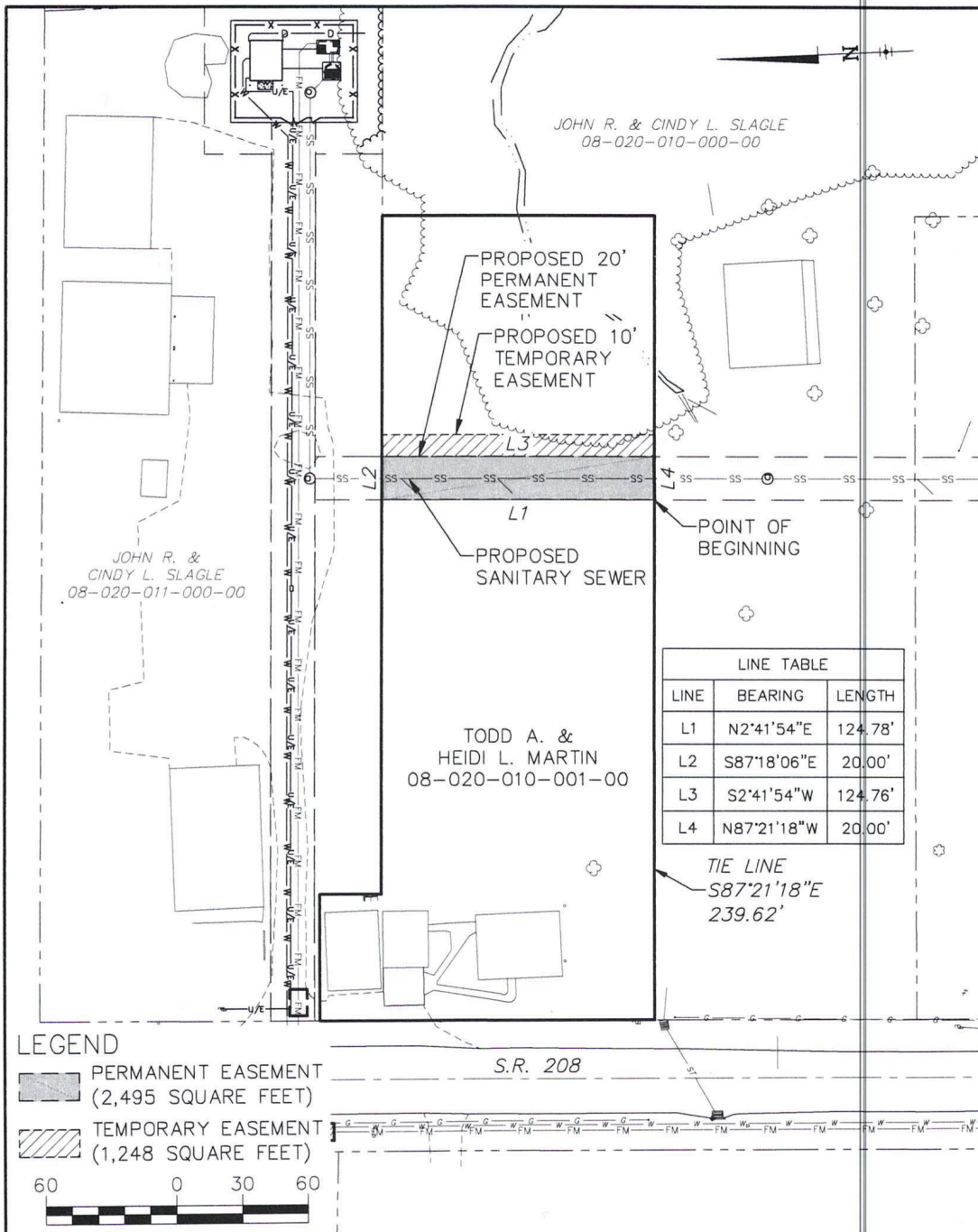
Commonwealth of Pennsylvania - Notary Seal
James L. McKinstry, Notary Public
Washington County
My commission expires June 10, 2022
Commission number 1334334
Member, Pennsylvania Association of Notaries

LEGAL DESCRIPTION OF
EASEMENT
TODD A. & HEIDI L. MARTIN (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN WATER COMPANY (GRANTEE)

All that certain tract or parcel of land situate in Elk Township, Clarion County, Pennsylvania, bounded and described as follows:

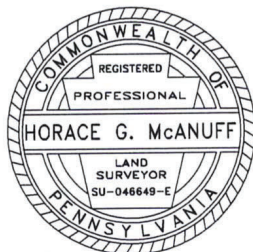
Beginning at a point, being $S87^{\circ}21'18''E$ a distance of 239.62' from the eastern right-of-way line of S.R. 208, on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence from said point of beginning, through the lands of the Grantors, $N2^{\circ}41'54''E$ a distance of 124.78' to a point on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence along said division line, $S87^{\circ}18'06''E$ a distance of 20.00' to a point; thence through the lands of the Grantors, $S2^{\circ}41'54''W$ a distance of 124.76' to a point on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence along said division line, $N87^{\circ}21'18''W$ a distance of 20.00' to the point and place of beginning. Containing 2,495 square feet.

In addition to the above described permanent easement, the Grantors herein also convey a temporary easement to be used for the construction of a sewer line. This temporary construction easement is 10 feet from and parallel to the above described permanent easement. This temporary easement will automatically revert back to the Grantors, their heirs and assigns, upon completion of said construction. The above described permanent and temporary easements are shown on Plat No. 6584 as prepared by Gwin, Dobson and Foreman, Inc. and dated May 14, 2019.



NOTES

1. ALL PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN ON THIS EXHIBIT WERE OBTAINED FROM AVAILABLE RECORDS, DEEDS, TAX MAPS AND FIELD OBSERVATIONS. THE ACCURACY OF THE LINES AND LIMITS SHOWN IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
2. THE PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN DO NOT CONSTITUTE A BOUNDARY SURVEY AND THE LIMITS OF ALL PROPERTIES AND RIGHT OF WAYS WERE PREPARED WITHOUT THE BENEFIT OF AN INDEPENDENT CERTIFICATE OF TITLE PREPARED BY A LICENSED TITLE AGENCY.
3. THE LOCATION OF FEATURES SHOWN ON THIS EXHIBIT, INCLUDING BUT NOT LIMITED TO, BUILDINGS, PAVING, SIDEWALKS, PARKING AREAS, FENCES, WATERLINES, SANITARY SEWER LINES, OIL OR NATURAL GAS LINES, INLETS, STORM DRAINS, STORMWATER MANAGEMENT FACILITIES, UTILITY POLES, ELECTRIC LINES, FLOODPLAINS, NATURAL WATER COURSES, WETLANDS, ETC., HAVE BEEN OBTAINED FROM THE BEST AVAILABLE RECORDS, AERIAL MAPS, AND PHOTOGRAPHY, FIELD OBSERVATION AND SURVEYS. THE ACCURACY OF THE LOCATION OF THESE FEATURES IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
4. ALL BEARINGS AND COORDINATES SHOWN REFERENCE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).



TODD A. & HEIDI L. MARTIN (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN
WATER COMPANY (GRANTEE)

PROPERTY SITUATE IN
ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
DATE: 5/14/19 SCALE: AS SHOWN

Prepared by
GWIN, DOBSON & FOREMAN, INC.
CONSULTING ENGINEERS
ALTOONA, PENNSYLVANIA

DEED OF EASEMENT AND RIGHT-OF-WAY

THIS INDENTURE, made this 18 day of June, 2019, by and between **JOHN R. & CINDY L. SLAGLE**, hereinafter referred to as the "**Grantors**" and **PENNSYLVANIA-AMERICAN WATER COMPANY**, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having an office for the transaction of business at 425 Waterworks Road, Clarion, Pennsylvania 16214, hereinafter referred to as the "**Grantee.**"

WITNESSETH

The Grantors, in consideration of the covenants and agreements hereinafter recited and the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, do hereby give, grant and convey unto the Grantee, its successors and assigns, forever, an Easement and a free uninterrupted and unobstructed Right-of-Way, in, under, across and over the property of the Grantor, situate in Elk Township, Clarion County, Pennsylvania; for the purpose of installing, laying, operating, maintaining, inspecting, removing, repairing, replacing, relaying and adding to, from time to time, pipe or pipes, with necessary fittings, appurtenances and attached facilities, including laterals and connections for the collection of sanitary sewer.

Said Sewer Line Easement and Right-of-Way, as shown on Exhibit "A," and as described on Exhibit "B" attached to this Deed of Easement and Right-of-Way, and made part hereof by reference hereto, is across the Grantors' lands, which are situated in Elk Township, Clarion County, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 10170. Together with the right to the Grantee, its successors and assigns, to (i) enter in and upon the premises described above with people and machinery, vehicles and material at any and all times for the purpose of maintaining, repairing, renewing or adding to the aforesaid sewer line and appurtenances, (ii) remove trees, bushes, undergrowth and other obstructions interfering with the activities authorized herein, and (iii) for doing anything necessary, useful or convenient for the enjoyment of the easement herein granted.

The right of the Grantors to freely use and enjoy their interest in the premises is reserved to the Grantors, their successors and assigns insofar as the exercise thereof does not endanger or interfere with the construction, operation and maintenance of Grantee's sewer line and attached facilities, except that no

building, structure or similar improvements shall be erected within said easement, nor shall the grade or ground cover over Grantee's facilities be substantially altered, without the consent of the Grantee. Notwithstanding the foregoing, no other pipes or conduits shall be placed within ten (10) feet, measured horizontally, from the said sewer line except pipes crossing same at right angles, in which latter case, a minimum distance of two (2) feet shall be maintained between the pipes. All water mains shall be laid above the sewer line. No excavation or blasting shall be carried on which in any way endangers or might endanger the water pipe lines and attached facilities.

TO HAVE AND TO HOLD the above granted Easement and Right-of-Way unto the same Grantee, its successors and assigns forever. The Grantee agrees, by the acceptance of this Deed of Easement and Right-of-Way that, upon any opening made in connection with any of the purposes of this Easement and Right-of-Way, said opening shall be backfilled and resurfaced to as nearly as possible the same condition as existed when said opening was made, provided that Grantee shall not be obligated to restore landscaping, other than reseeding any grass which was removed upon entry, all such work to be done at the expense of the Grantee.

Said Grantors do covenant with the said Grantee as follows:

1. That the Grantors are the owners in fee simple of the real estate hereby subjected to said Easement and Right-of-Way, and have good title to convey the same, having acquired said real estate from John R. Slagle by deed dated October 10th, 1986, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 10170.
2. That the Grantee shall quietly enjoy said Easement and Right-of-Way.

IN WITNESS WHEREOF, the Grantors have duly executed this INDENTURE, all as of the day and year first above written.

GRANTORS

WITNESS

WITNESS

[Signature]

Cindy L. Skagle

IN WITNESS WHEREOF, the Grantee has duly executed this INDENTURE, all as of the day and year first above written.

ATTEST:

GRANTEE
PENNSYLVANIA-AMERICAN WATER COMPANY

ASCE *[Signature]*

SECRETARY

[Signature]
DAVID R. KAUFMAN
VICE PRESIDENT-ENGINEERING



ACKNOWLEDGEMENT FOR GRANTORS

COMMONWEALTH OF PENNSYLVANIA }

} SS:

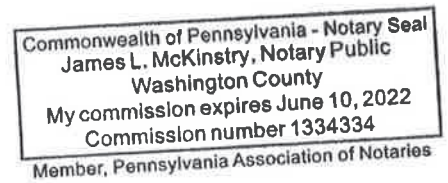
COUNTY OF Clarion }

On this, the 18th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, John R. Slegle, the GRANTORS, known to me or satisfactorily proven to be the persons whose names are subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public James L. McKinstry

My Commission expires: June 10, 2022



ACKNOWLEDGEMENT FOR PENNSYLVANIA-AMERICAN WATER COMPANY

COMMONWEALTH OF PENNSYLVANIA }

COUNTY OF Cumberland }

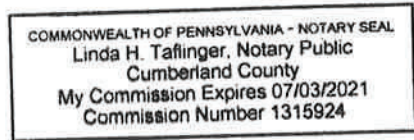
SS:

On this, the 28th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, DAVID R. KAUFMAN, known to me as VICE PRESIDENT-ENGINEERING of PENNSYLVANIA-AMERICAN WATER COMPANY, a corporation, known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public Linda H. Taflinger

My Commission expires: 7-3-21

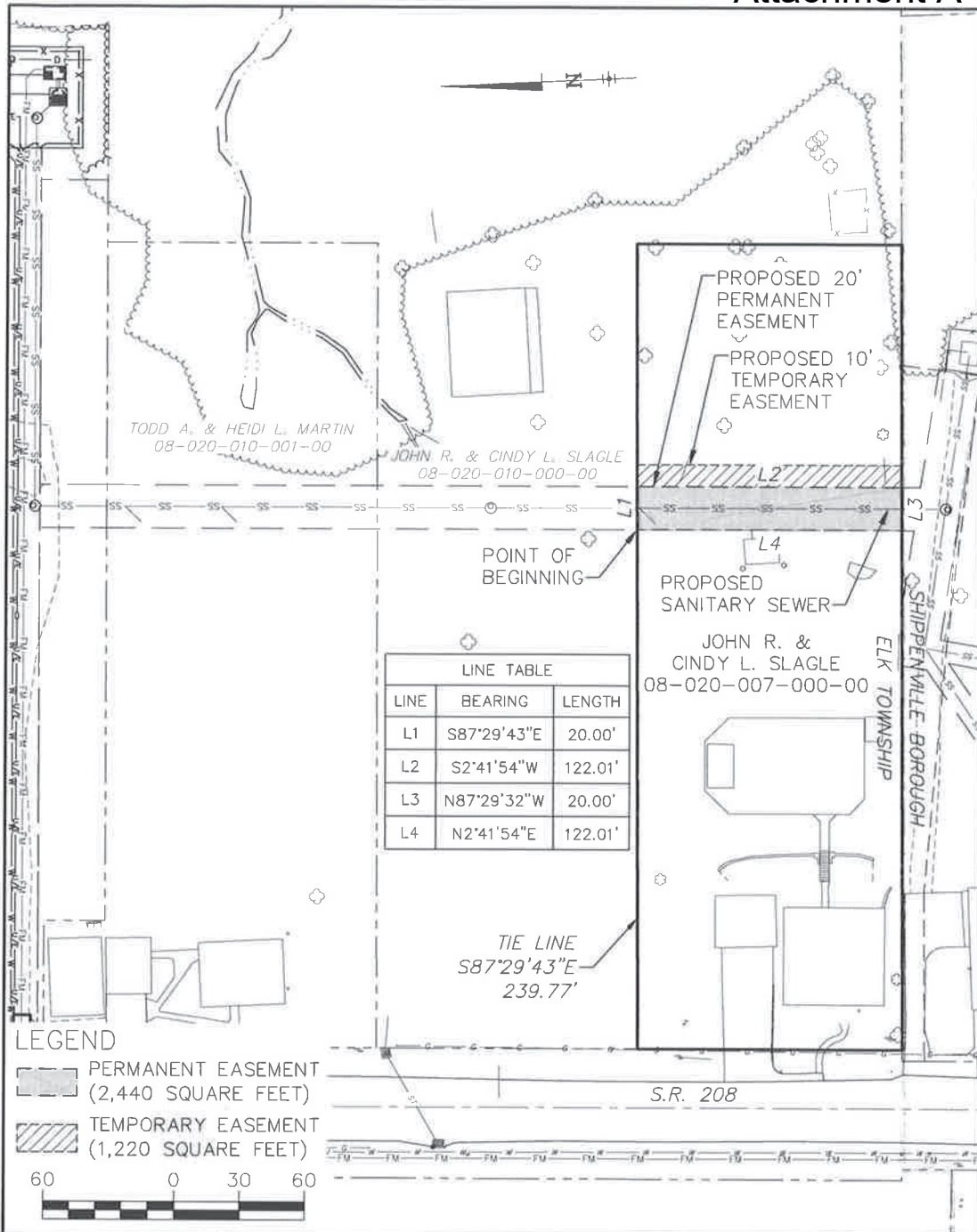


LEGAL DESCRIPTION OF
EASEMENT
JOHN R. & CINDY L. SLAGLE (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN WATER COMPANY (GRANTEE)

All that certain tract or parcel of land situate in Elk Township, Clarion County, Pennsylvania, bounded and described as follows:

Beginning at a point, being $S87^{\circ}29'43''E$ a distance of 239.77' from the eastern right-of-way line of S.R. 208, on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence from said point of beginning, along said division line, $S87^{\circ}29'43''E$ a distance of 20.00' to a point; thence through the lands of the Grantors, $S2^{\circ}41'54''W$ a distance of 122.01' to a point on the division line of the lands of Franklin W. & Rita M. Kiser and the lands of the Grantors, said point also being on the municipal line of Shippenville Borough and Elk Township; thence along said municipal line, $N87^{\circ}29'32''W$ a distance of 20.00' to a point; thence through the lands of the Grantors, $N2^{\circ}41'54''E$ a distance of 122.01' to the point and place of beginning. Containing 2,440 square feet.

In addition to the above described permanent easement, the Grantors herein also convey a temporary easement to be used for the construction of a sewer line. This temporary construction easement is 10 feet from and parallel to the above described permanent easement. This temporary easement will automatically revert back to the Grantors, their heirs and assigns, upon completion of said construction. The above described permanent and temporary easements are shown on Plat No. 6586 as prepared by Gwin, Dobson and Foreman, Inc. and dated May 14, 2019.



NOTES

1. ALL PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN ON THIS EXHIBIT WERE OBTAINED FROM AVAILABLE RECORDS, DEEDS, TAX MAPS AND FIELD OBSERVATIONS, THE ACCURACY OF THE LINES AND LIMITS SHOWN IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
2. THE PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN DO NOT CONSTITUTE A BOUNDARY SURVEY AND THE LIMITS OF ALL PROPERTIES AND RIGHT OF WAYS WERE PREPARED WITHOUT THE BENEFIT OF AN INDEPENDENT CERTIFICATE OF TITLE PREPARED BY A LICENSED TITLE AGENCY.
3. THE LOCATION OF FEATURES SHOWN ON THIS EXHIBIT, INCLUDING BUT NOT LIMITED TO, BUILDINGS, PAVING, SIDEWALKS, PARKING AREAS, FENCES, WATERLINES, SANITARY SEWER LINES, OIL OR NATURAL GAS LINES, INLETS, STORM DRAINS, STORMWATER MANAGEMENT FACILITIES, UTILITY POLES, ELECTRIC LINES, FLOODPLAINS, NATURAL WATER COURSES, WETLANDS, ETC., HAVE BEEN OBTAINED FROM THE BEST AVAILABLE RECORDS, AERIAL MAPS, AND PHOTOGRAPHY, FIELD OBSERVATION AND SURVEYS. THE ACCURACY OF THE LOCATION OF THESE FEATURES IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
4. ALL BEARINGS AND COORDINATES SHOWN REFERENCE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).



JOHN R. & CINDY L. SLAGLE (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN
WATER COMPANY (GRANTEE)

PROPERTY SITUATE IN
ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
DATE: 5/14/19 SCALE: AS SHOWN

Prepared by
GWIN, DOBSON & FOREMAN, INC.
CONSULTING ENGINEERS
ALTOONA, PENNSYLVANIA

DEED OF EASEMENT AND RIGHT-OF-WAY

THIS INDENTURE, made this 18 day of June, 2019, by and between **JOHN R. & CINDY L. SLAGLE**, hereinafter referred to as the "**Grantors**" and **PENNSYLVANIA-AMERICAN WATER COMPANY**, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having an office for the transaction of business at 425 Waterworks Road, Clarion, Pennsylvania 16214, hereinafter referred to as the "**Grantee.**"

WITNESSETH

The Grantors, in consideration of the covenants and agreements hereinafter recited and the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, do hereby give, grant and convey unto the Grantee, its successors and assigns, forever, an Easement and a free uninterrupted and unobstructed Right-of-Way, in, under, across and over the property of the Grantor, situate in Elk Township, Clarion County, Pennsylvania; for the purpose of installing, laying, operating, maintaining, inspecting, removing, repairing, replacing, relaying and adding to, from time to time, sewage pump stations, with necessary buildings, structures, pavement, fencing, electrical, site piping, with necessary fittings, appurtenances and attached facilities; for access to the Grantee's property for purposes of construction, routine maintenance and operations of Grantee's sewage pump station and related facilities; installing, laying, operating, maintaining, inspecting, removing, repairing, replacing, relaying and adding to from time to time pipe or pipes, with necessary fittings, appurtenances and attached facilities, including laterals and connections for the transmission and distribution of sewer and water; and for installing, laying, operating, maintaining, inspecting, removing, repairing, replacing and adding to from time to time electrical conduit or conduits with necessary fittings, appurtenances and attached facilities and for the transmission of power and telecommunication to the Grantee's property.

Said Easement and Right-of-Way, as shown on Exhibit "A," and as described on Exhibit "B" attached to this Deed of Easement and Right-of-Way, and made part hereof by reference hereto, is across the Grantors' lands, which are situated in Elk Township, Clarion County, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 2011-005770. Together with the right to the Grantee, its successors and assigns, to (i) enter in and upon the premises described above with people and machinery, vehicles and material at any and all times for the purpose of maintaining, repairing, renewing

or adding to the aforesaid lines, sewage pump station and appurtenances, (ii) remove trees, bushes, undergrowth and other obstructions interfering with the activities authorized herein, and (iii) for doing anything necessary, useful or convenient for the enjoyment of the easement herein granted.

The right of the Grantors to freely use and enjoy their interest in the premises is reserved to the Grantors, their successors and assigns insofar as the exercise thereof does not endanger or interfere with the construction, operation, and maintenance of Grantee's sewage pump station and attached facilities, except that no building, structure or similar improvements shall be erected within said easement, nor shall the grade or ground cover over Grantee's facilities be substantially altered, without the consent of the Grantee. Notwithstanding the foregoing, no other pipes or conduits shall be placed within ten (10) feet, measured horizontally, from the said sewer line except pipes crossing same at right angles, in which latter case, a minimum distance of two (2) feet shall be maintained between the pipes. All water mains shall be laid above the sewer line. No excavation or blasting shall be carried on which in any way endangers or might endanger the attached facilities.

TO HAVE AND TO HOLD the above granted Easement and Right-of-Way unto the same Grantee, its successors and assigns forever.

Said Grantors do covenant with the said Grantee as follows:

1. That the Grantors are the owners in fee simple of the real estate hereby subjected to said Easement and Right-of-Way, and have good title to convey the same, having acquired said real estate from Northwest Savings Bank by deed dated December 28th, 2011, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 2011-005770.
2. That the Grantee shall quietly enjoy said Easement and Right-of-Way.

IN WITNESS WHEREOF, the Grantors have duly executed this INDENTURE, all as of the day and year first above written.

GRANTORS

WITNESS

[Handwritten Signature]

WITNESS

Cindy L. Slagle

IN WITNESS WHEREOF, the Grantee has duly executed this INDENTURE, all as of the day and year first above written.

ATTEST:

GRANTEE
PENNSYLVANIA-AMERICAN WATER COMPANY

ASST

[Handwritten Signature]

SECRETARY

[Handwritten Signature]

DAVID R. KAUFMAN
VICE PRESIDENT-ENGINEERING



ACKNOWLEDGEMENT FOR GRANTORS

COMMONWEALTH OF PENNSYLVANIA }

} SS:

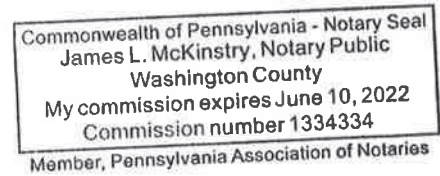
COUNTY OF Clarion }

On this, the 18th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, John R. Stagle, the GRANTORS, known to me or satisfactorily proven to be the persons whose names are subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public James L. McKinstry

My Commission expires: June 10, 2022



ACKNOWLEDGEMENT FOR GRANTORS

COMMONWEALTH OF PENNSYLVANIA }

} SS:

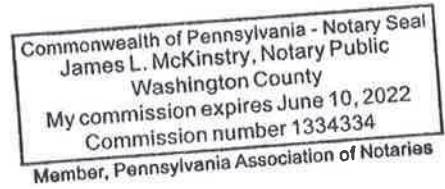
COUNTY OF Clarion }

On this, the 18th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, Cindy L. Stagle, the GRANTORS, known to me or satisfactorily proven to be the persons whose names are subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public James L. McKinstry

My Commission expires: June 10, 2022



ACKNOWLEDGEMENT FOR PENNSYLVANIA-AMERICAN WATER COMPANY

COMMONWEALTH OF PENNSYLVANIA }

SS:

COUNTY OF Cumberland }

On this, the 28th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, DAVID R. KAUFMAN, known to me as VICE PRESIDENT-ENGINEERING of PENNSYLVANIA-AMERICAN WATER COMPANY, a corporation, known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

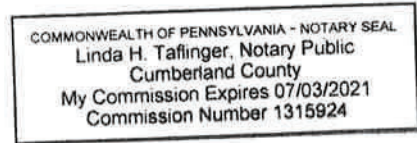
In Witness Whereof, I have set my hand and official seal.

Notary Public

Linda H. Tafinger

My Commission expires:

7/3/21



LEGAL DESCRIPTION OF
EASEMENT AND RIGHT-OF-WAY
JOHN R. & CINDY L. SLAGLE (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN WATER COMPANY (GRANTEE)

All that certain tract or parcel of land situate in Elk Township, Clarion County, Pennsylvania, bounded and described as follows:

Beginning at a point on the eastern right-of-way line of S.R. 208, said point being N2°45'59"E a distance of 2.51' from the division line of the lands of Todd A. & Heidi L. Martin and the lands of the Grantors; thence from said point of beginning, along said right-of-way line, N2°45'59"E a distance of 47.29' to a point; thence through the lands of the Grantors for the following bearings and distances:

S87°14'01"E a distance of 10.00' to a point; thence

N2°45'59"E a distance of 27.28' to a point; thence

S87°18'06"E a distance of 390.13' to a point; thence

N2°41'54"E a distance of 31.00' to a point; thence

S87°18'06"E a distance of 68.94' to a point on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence along said division line, S0°33'18"W a distance of 81.77' to a point; thence by the same, N87°18'06"W a distance of 72.00' to a point; thence through the lands of the Grantors the following bearings and distances:

N2°41'54"E a distance of 30.71' to a point; thence

N87°18'06"W a distance of 140.72' to a point; thence

S2°41'54"W a distance of 30.71' to a point on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence along said division line, N87°18'06"W a distance of 20.00' to a point; thence through the lands of the Grantors the following bearings and distances:

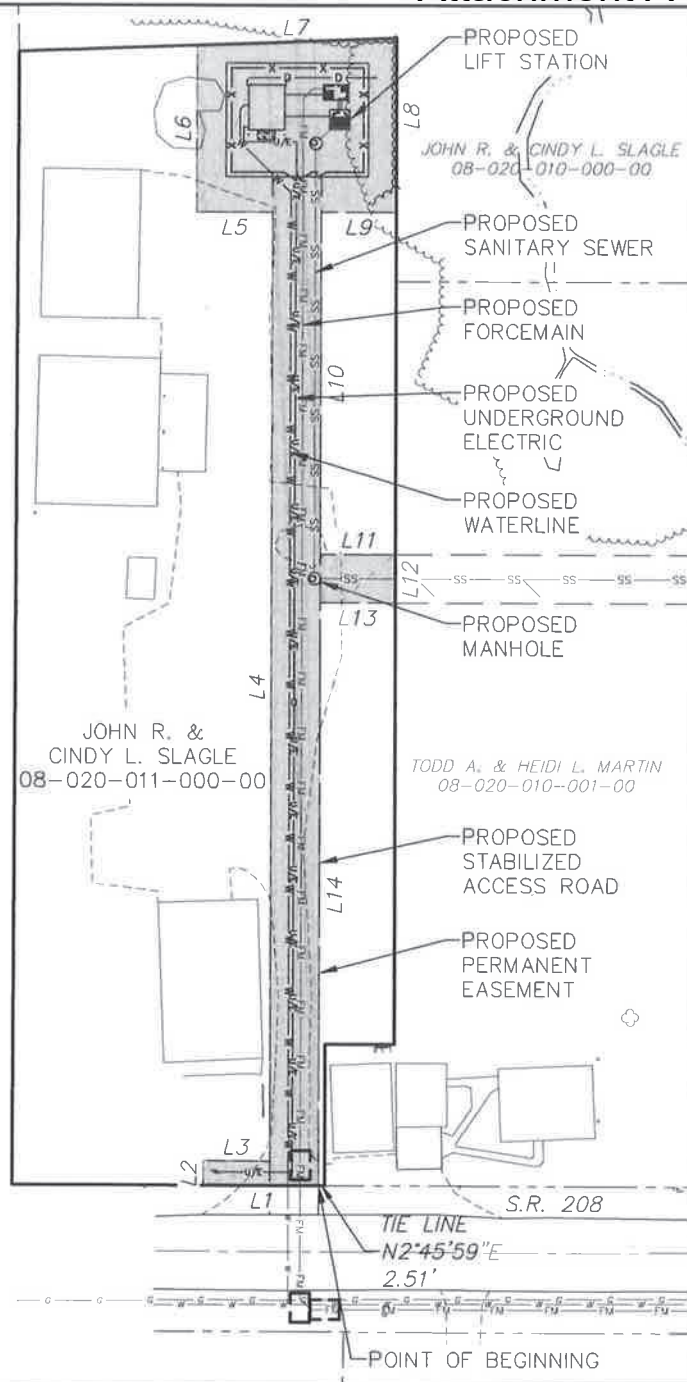
N2°41'54"E a distance of 30.71' to a point; thence

N87°18'06"W a distance of 169.34' to a point; thence

N87°18'06"W a distance of 239.44' to the point and place of beginning. Containing 14,648 square feet.

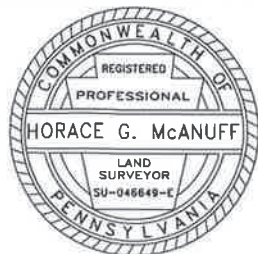
The above described permanent easement and right-of-way is shown on Plat No. 6583 as prepared by Gwin, Dobson and Foreman, Inc. and dated May 14, 2019.

LINE TABLE		
LINE	BEARING	LENGTH
L1	N2°45'59"E	47.29'
L2	S87°14'01"E	10.00'
L3	S2°45'59"W	27.28'
L4	S87°18'06"E	390.13'
L5	N2°41'54"E	31.00'
L6	S87°18'06"E	68.94'
L7	S0°33'18"W	81.77'
L8	N87°18'06"W	72.00'
L9	N2°41'54"E	30.71'
L10	N87°18'06"W	140.72'
L11	S2°41'54"W	30.71'
L12	N87°18'06"W	20.00'
L13	N2°41'54"E	30.71'
L14	N87°18'06"W	239.44'



NOTES

1. ALL PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN ON THIS EXHIBIT WERE OBTAINED FROM AVAILABLE RECORDS, DEEDS, TAX MAPS AND FIELD OBSERVATIONS. THE ACCURACY OF THE LINES AND LIMITS SHOWN IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
2. THE PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN DO NOT CONSTITUTE A BOUNDARY SURVEY AND THE LIMITS OF ALL PROPERTIES AND RIGHT OF WAYS WERE PREPARED WITHOUT THE BENEFIT OF AN INDEPENDENT CERTIFICATE OF TITLE PREPARED BY A LICENSED TITLE AGENCY.
3. THE LOCATION OF FEATURES SHOWN ON THIS EXHIBIT, INCLUDING BUT NOT LIMITED TO, BUILDINGS, PAVING, SIDEWALKS, PARKING AREAS, FENCES, WATERLINES, SANITARY SEWER LINES, OIL OR NATURAL GAS LINES, INLETS, STORM DRAINS, STORMWATER MANAGEMENT FACILITIES, UTILITY POLES, ELECTRIC LINES, FLOODPLAINS, NATURAL WATER COURSES, WETLANDS, ETC., HAVE BEEN OBTAINED FROM THE BEST AVAILABLE RECORDS, AERIAL MAPS, AND PHOTOGRAPHY, FIELD OBSERVATION AND SURVEYS. THE ACCURACY OF THE LOCATION OF THESE FEATURES IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
4. ALL BEARINGS AND COORDINATES SHOWN REFERENCE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).



JOHN R. & CINDY L. SLAGLE (GRANTORS)
 CONVEY TO
 PENNSYLVANIA-AMERICAN
 WATER COMPANY (GRANTEE)

PROPERTY SITUATE IN
 ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
 DATE: 5/14/19 SCALE: AS SHOWN

Prepared by
 GWIN, DOBSON & FOREMAN, INC.
 CONSULTING ENGINEERS
 ALTOONA, PENNSYLVANIA

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DEED OF EASEMENT AND RIGHT-OF-WAY

THIS INDENTURE, made this 18 day of June, 2019, by and between **JOHN R. & CINDY L. SLAGLE**, hereinafter referred to as the "**Grantors**" and **PENNSYLVANIA-AMERICAN WATER COMPANY**, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having an office for the transaction of business at 425 Waterworks Road, Clarion, Pennsylvania 16214, hereinafter referred to as the "**Grantee.**"

WITNESSETH

The Grantors, in consideration of the covenants and agreements hereinafter recited and the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, do hereby give, grant and convey unto the Grantee, its successors and assigns, forever, an Easement and a free uninterrupted and unobstructed Right-of-Way, in, under, across and over the property of the Grantor, situate in Elk Township, Clarion County, Pennsylvania; for the purpose of installing, laying, operating, maintaining, inspecting, removing, repairing, replacing, relaying and adding to, from time to time, pipe or pipes, with necessary fittings, appurtenances and attached facilities, including laterals and connections for the collection of sanitary sewer.

Said Sewer Line Easement and Right-of-Way, as shown on Exhibit "A," and as described on Exhibit "B" attached to this Deed of Easement and Right-of-Way, and made part hereof by reference hereto, is across the Grantors' lands, which are situated in Elk Township, Clarion County, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 1997-4656. Together with the right to the Grantee, its successors and assigns, to (i) enter in and upon the premises described above with people and machinery, vehicles and material at any and all times for the purpose of maintaining, repairing, renewing or adding to the aforesaid sewer line and appurtenances, (ii) remove trees, bushes, undergrowth and other obstructions interfering with the activities authorized herein, and (iii) for doing anything necessary, useful or convenient for the enjoyment of the easement herein granted.

The right of the Grantors to freely use and enjoy their interest in the premises is reserved to the Grantors, their successors and assigns insofar as the exercise thereof does not endanger or interfere with the construction, operation, and maintenance of Grantee's sewer line and attached facilities, except that no

building, structure or similar improvements shall be erected within said easement, nor shall the grade or ground cover over Grantee's facilities be substantially altered, without the consent of the Grantee. Notwithstanding the foregoing, no other pipes or conduits shall be placed within ten (10) feet, measured horizontally, from the said sewer line except pipes crossing same at right angles, in which latter case, a minimum distance of two (2) feet shall be maintained between the pipes. All water mains shall be laid above the sewer line. No excavation or blasting shall be carried on which in any way endangers or might endanger the water pipe lines and attached facilities.

TO HAVE AND TO HOLD the above granted Easement and Right-of-Way unto the same Grantee, its successors and assigns forever. The Grantee agrees, by the acceptance of this Deed of Easement and Right-of-Way that, upon any opening made in connection with any of the purposes of this Easement and Right-of-Way, said opening shall be backfilled and resurfaced to as nearly as possible the same condition as existed when said opening was made, provided that Grantee shall not be obligated to restore landscaping, other than reseeding any grass which was removed upon entry, all such work to be done at the expense of the Grantee.

Said Grantors do covenant with the said Grantee as follows:

1. That the Grantors are the owners in fee simple of the real estate hereby subjected to said Easement and Right-of-Way, and have good title to convey the same, having acquired said real estate from Grace A. Schmader by deed dated September 25th, 1997, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 1997-4656.
2. That the Grantee shall quietly enjoy said Easement and Right-of-Way.
3. That the premises hereby subjected to said Easement and Right-of-Way are subject to no mortgages, no Exceptions.

IN WITNESS WHEREOF, the Grantors have duly executed this INDENTURE, all as of the day and year first above written.

GRANTORS

WITNESS

WITNESS

John J. ...

Cindy L. Slagle

IN WITNESS WHEREOF, the Grantee has duly executed this INDENTURE, all as of the day and year first above written.

ATTEST:

GRANTEE
PENNSYLVANIA-AMERICAN WATER COMPANY

Asst. *[Signature]*

SECRETARY

DAVID R. KAUFMAN
VICE PRESIDENT-ENGINEERING



ACKNOWLEDGEMENT FOR GRANTORS

COMMONWEALTH OF PENNSYLVANIA }

} SS:

COUNTY OF Clarion }

On this, the 18 day of June, A.D., **2019**, before me, a Notary Public, personally appeared, Cindy L. Skyle, the GRANTORS, known to me or satisfactorily proven to be the persons whose names are subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public James L. McKinstry

My Commission expires: June 10, 2022

Commonwealth of Pennsylvania - Notary Seal
James L. McKinstry, Notary Public
Washington County
My commission expires June 10, 2022
Commission number 1334334
Member, Pennsylvania Association of Notaries

ACKNOWLEDGEMENT FOR PENNSYLVANIA-AMERICAN WATER COMPANY

COMMONWEALTH OF PENNSYLVANIA }

SS:

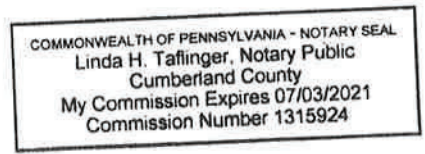
COUNTY OF Cumberland }

On this, the 28th day of June, A.D., 2019, before me, a Notary Public, personally appeared, DAVID R. KAUFMAN, known to me as VICE PRESIDENT-ENGINEERING of PENNSYLVANIA-AMERICAN WATER COMPANY, a corporation, known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public Linda H. Taffinger

My Commission expires: 7/3/21

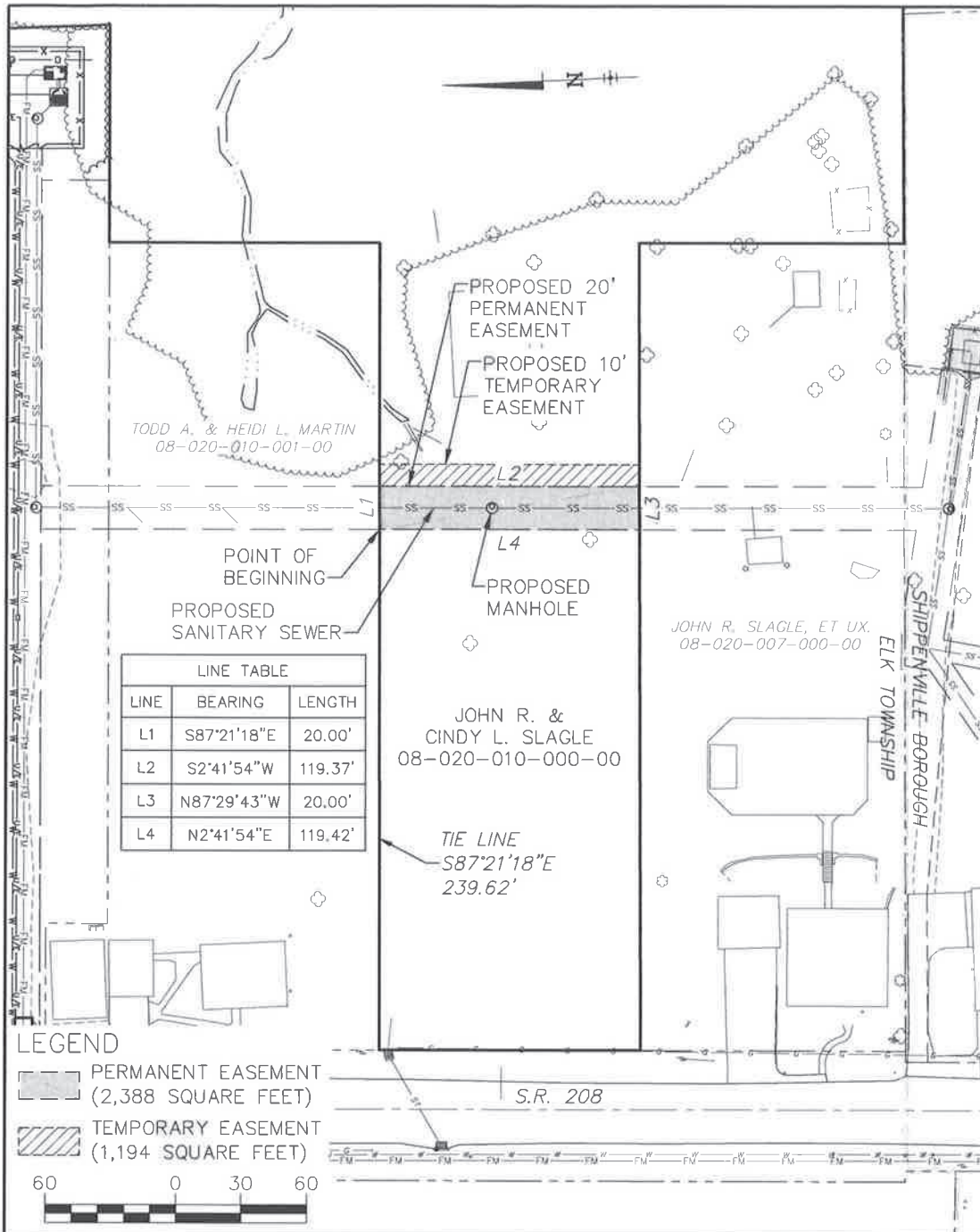


LEGAL DESCRIPTION OF
EASEMENT
JOHN R. & CINDY L. SLAGLE (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN WATER COMPANY (GRANTEE)

All that certain tract or parcel of land situate in Elk Township, Clarion County, Pennsylvania, bounded and described as follows:

Beginning at a point, being S87°21'18"E a distance of 239.62' from the eastern right-of-way line of S.R. 208, on the division line of the lands of Todd A. & Heidi L. Martin and the lands of the Grantors; thence from said point of beginning, along said division line, S87°21'18"E a distance of 20.00' to a point; thence through the lands of the Grantors, S2°41'54"W a distance of 119.37' to a point on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence along said division line, N87°29'43"W a distance of 20.00' to a point; thence through the lands of the Grantors, N2°41'54"E a distance of 119.42' to the point and place of beginning. Containing 2,388 square feet.

In addition to the above described permanent easement, the Grantors herein also convey a temporary easement to be used for the construction of a sewer line. This temporary construction easement is 10 feet from and parallel to the above described permanent easement. This temporary easement will automatically revert back to the Grantors, their heirs and assigns, upon completion of said construction. The above described permanent and temporary easements are shown on Plat No. 6585 as prepared by Gwin, Dobson and Foreman, Inc. and dated May 14, 2019.



LINE TABLE		
LINE	BEARING	LENGTH
L1	S87°21'18"E	20.00'
L2	S2°41'54"W	119.37'
L3	N87°29'43"W	20.00'
L4	N2°41'54"E	119.42'

LEGEND

- PERMANENT EASEMENT (2,388 SQUARE FEET)
 - TEMPORARY EASEMENT (1,194 SQUARE FEET)
- 60 0 30 60

NOTES

1. ALL PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN ON THIS EXHIBIT WERE OBTAINED FROM AVAILABLE RECORDS, DEEDS, TAX MAPS AND FIELD OBSERVATIONS. THE ACCURACY OF THE LINES AND LIMITS SHOWN IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
2. THE PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN DO NOT CONSTITUTE A BOUNDARY SURVEY AND THE LIMITS OF ALL PROPERTIES AND RIGHT OF WAYS WERE PREPARED WITHOUT THE BENEFIT OF AN INDEPENDENT CERTIFICATE OF TITLE PREPARED BY A LICENSED TITLE AGENCY.
3. THE LOCATION OF FEATURES SHOWN ON THIS EXHIBIT, INCLUDING BUT NOT LIMITED TO, BUILDINGS, PAVING, SIDEWALKS, PARKING AREAS, FENCES, WATERLINES, SANITARY SEWER LINES, OIL OR NATURAL GAS LINES, INLETS, STORM DRAINS, STORMWATER MANAGEMENT FACILITIES, UTILITY POLES, ELECTRIC LINES, FLOODPLAINS, NATURAL WATER COURSES, WETLANDS, ETC., HAVE BEEN OBTAINED FROM THE BEST AVAILABLE RECORDS, AERIAL MAPS, AND PHOTOGRAPHY, FIELD OBSERVATION AND SURVEYS. THE ACCURACY OF THE LOCATION OF THESE FEATURES IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
4. ALL BEARINGS AND COORDINATES SHOWN REFERENCE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).



JOHN R. & CINDY L. SLAGLE (GRANTORS)
 CONVEY TO
 PENNSYLVANIA-AMERICAN
 WATER COMPANY (GRANTEE)
 PROPERTY SITUATE IN
 ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
 DATE: 5/14/19 SCALE: AS SHOWN

Prepared by
 GWIN, DOBSON & FOREMAN, INC.
 CONSULTING ENGINEERS
 ALTOONA, PENNSYLVANIA

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DEED OF EASEMENT AND RIGHT-OF-WAY

THIS INDENTURE, made this 18 day of June, 2019, by and between **JOHN R. & CINDY L. SLAGLE**, hereinafter referred to as the "**Grantors**" and **PENNSYLVANIA-AMERICAN WATER COMPANY**, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having an office for the transaction of business at 425 Waterworks Road, Clarion, Pennsylvania 16214, hereinafter referred to as the "**Grantee.**"

WITNESSETH

The Grantors, in consideration of the covenants and agreements hereinafter recited and the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, do hereby give, grant and convey unto the Grantee, its successors and assigns, forever, an Easement and a free uninterrupted and unobstructed Right-of-Way, in, under, across and over the property of the Grantor, situate in Elk Township, Clarion County, Pennsylvania; for the purpose of installing, laying, operating, maintaining, inspecting, removing, repairing, replacing, relaying and adding to, from time to time, pipe or pipes, with necessary fittings, appurtenances and attached facilities, including laterals and connections for the collection of sanitary sewer.

Said Sewer Line Easement and Right-of-Way, as shown on Exhibit "A," and as described on Exhibit "B" attached to this Deed of Easement and Right-of-Way, and made part hereof by reference hereto, is across the Grantors' lands, which are situated in Elk Township, Clarion County, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 10170. Together with the right to the Grantee, its successors and assigns, to (i) enter in and upon the premises described above with people and machinery, vehicles and material at any and all times for the purpose of maintaining, repairing, renewing or adding to the aforesaid sewer line and appurtenances, (ii) remove trees, bushes, undergrowth and other obstructions interfering with the activities authorized herein, and (iii) for doing anything necessary, useful or convenient for the enjoyment of the easement herein granted.

The right of the Grantors to freely use and enjoy their interest in the premises is reserved to the Grantors, their successors and assigns insofar as the exercise thereof does not endanger or interfere with the construction, operation and maintenance of Grantee's sewer line and attached facilities, except that no

building, structure or similar improvements shall be erected within said easement, nor shall the grade or ground cover over Grantee's facilities be substantially altered, without the consent of the Grantee. Notwithstanding the foregoing, no other pipes or conduits shall be placed within ten (10) feet, measured horizontally, from the said sewer line except pipes crossing same at right angles, in which latter case, a minimum distance of two (2) feet shall be maintained between the pipes. All water mains shall be laid above the sewer line. No excavation or blasting shall be carried on which in any way endangers or might endanger the water pipe lines and attached facilities.

TO HAVE AND TO HOLD the above granted Easement and Right-of-Way unto the same Grantee, its successors and assigns forever. The Grantee agrees, by the acceptance of this Deed of Easement and Right-of-Way that, upon any opening made in connection with any of the purposes of this Easement and Right-of-Way, said opening shall be backfilled and resurfaced to as nearly as possible the same condition as existed when said opening was made, provided that Grantee shall not be obligated to restore landscaping, other than reseeding any grass which was removed upon entry, all such work to be done at the expense of the Grantee.

Said Grantors do covenant with the said Grantee as follows:

1. That the Grantors are the owners in fee simple of the real estate hereby subjected to said Easement and Right-of-Way, and have good title to convey the same, having acquired said real estate from John R. Slagle by deed dated October 10th, 1986, and recorded in the Clarion County Recorder of Deeds Office as Instrument Number 10170.
2. That the Grantee shall quietly enjoy said Easement and Right-of-Way.

IN WITNESS WHEREOF, the Grantors have duly executed this INDENTURE, all as of the day and year first above written.

GRANTORS

WITNESS

WITNESS

[Signature]

Cindy L. Skagle

IN WITNESS WHEREOF, the Grantee has duly executed this INDENTURE, all as of the day and year first above written.

ATTEST:

GRANTEE
PENNSYLVANIA-AMERICAN WATER COMPANY

ASCE *[Signature]*

SECRETARY

[Signature]
DAVID R. KAUFMAN
VICE PRESIDENT-ENGINEERING



ACKNOWLEDGEMENT FOR GRANTORS

COMMONWEALTH OF PENNSYLVANIA }

} SS:

COUNTY OF Clarion }

On this, the 18th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, John R. Slegle, the GRANTORS, known to me or satisfactorily proven to be the persons whose names are subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public James L. McKinstry

My Commission expires: June 10, 2022

Commonwealth of Pennsylvania - Notary Seal
James L. McKinstry, Notary Public
Washington County
My commission expires June 10, 2022
Commission number 1334334
Member, Pennsylvania Association of Notaries

ACKNOWLEDGEMENT FOR PENNSYLVANIA-AMERICAN WATER COMPANY

COMMONWEALTH OF PENNSYLVANIA }

COUNTY OF Cumberland }

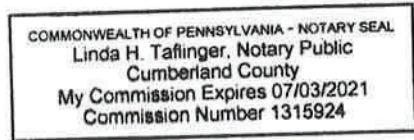
SS:

On this, the 28th day of June, A.D., **2019**, before me, a Notary Public, personally appeared, DAVID R. KAUFMAN, known to me as VICE PRESIDENT-ENGINEERING of PENNSYLVANIA-AMERICAN WATER COMPANY, a corporation, known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument and as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

In Witness Whereof, I have set my hand and official seal.

Notary Public Linda H. Taflinger

My Commission expires: 7-3-21

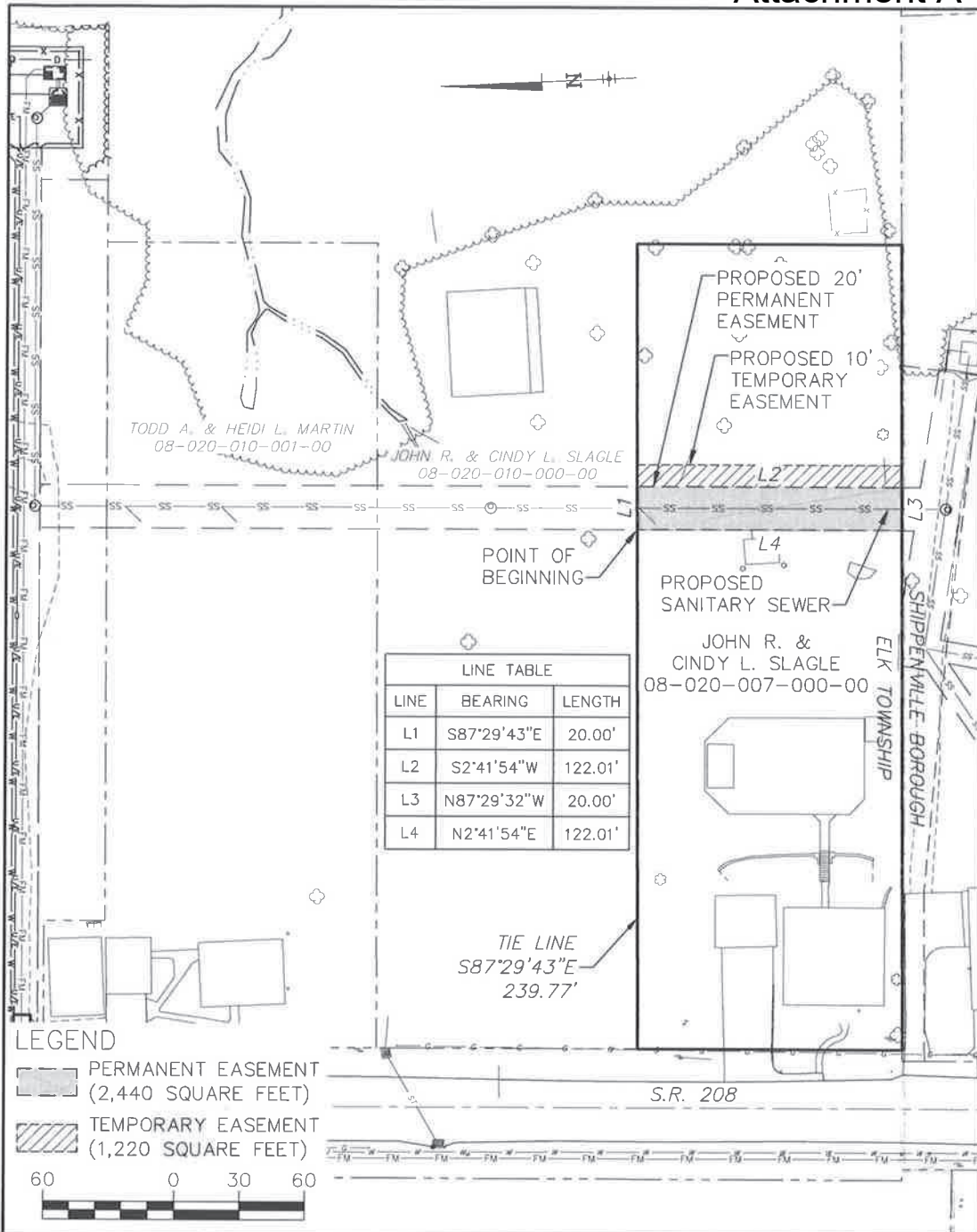


LEGAL DESCRIPTION OF
EASEMENT
JOHN R. & CINDY L. SLAGLE (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN WATER COMPANY (GRANTEE)

All that certain tract or parcel of land situate in Elk Township, Clarion County, Pennsylvania, bounded and described as follows:

Beginning at a point, being $S87^{\circ}29'43''E$ a distance of 239.77' from the eastern right-of-way line of S.R. 208, on the division line of the lands of John R. & Cindy L. Slagle and the lands of the Grantors; thence from said point of beginning, along said division line, $S87^{\circ}29'43''E$ a distance of 20.00' to a point; thence through the lands of the Grantors, $S2^{\circ}41'54''W$ a distance of 122.01' to a point on the division line of the lands of Franklin W. & Rita M. Kiser and the lands of the Grantors, said point also being on the municipal line of Shippenville Borough and Elk Township; thence along said municipal line, $N87^{\circ}29'32''W$ a distance of 20.00' to a point; thence through the lands of the Grantors, $N2^{\circ}41'54''E$ a distance of 122.01' to the point and place of beginning. Containing 2,440 square feet.

In addition to the above described permanent easement, the Grantors herein also convey a temporary easement to be used for the construction of a sewer line. This temporary construction easement is 10 feet from and parallel to the above described permanent easement. This temporary easement will automatically revert back to the Grantors, their heirs and assigns, upon completion of said construction. The above described permanent and temporary easements are shown on Plat No. 6586 as prepared by Gwin, Dobson and Foreman, Inc. and dated May 14, 2019.



NOTES

- ALL PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN ON THIS EXHIBIT WERE OBTAINED FROM AVAILABLE RECORDS, DEEDS, TAX MAPS AND FIELD OBSERVATIONS, THE ACCURACY OF THE LINES AND LIMITS SHOWN IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
- THE PROPERTY AND RIGHT OF WAY LINES AND LIMITS SHOWN DO NOT CONSTITUTE A BOUNDARY SURVEY AND THE LIMITS OF ALL PROPERTIES AND RIGHT OF WAYS WERE PREPARED WITHOUT THE BENEFIT OF AN INDEPENDENT CERTIFICATE OF TITLE PREPARED BY A LICENSED TITLE AGENCY.
- THE LOCATION OF FEATURES SHOWN ON THIS EXHIBIT, INCLUDING BUT NOT LIMITED TO, BUILDINGS, PAVING, SIDEWALKS, PARKING AREAS, FENCES, WATERLINES, SANITARY SEWER LINES, OIL OR NATURAL GAS LINES, INLETS, STORM DRAINS, STORMWATER MANAGEMENT FACILITIES, UTILITY POLES, ELECTRIC LINES, FLOODPLAINS, NATURAL WATER COURSES, WETLANDS, ETC., HAVE BEEN OBTAINED FROM THE BEST AVAILABLE RECORDS, AERIAL MAPS, AND PHOTOGRAPHY, FIELD OBSERVATION AND SURVEYS. THE ACCURACY OF THE LOCATION OF THESE FEATURES IS NEITHER GUARANTEED, WARRANTED NOR IMPLIED.
- ALL BEARINGS AND COORDINATES SHOWN REFERENCE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).



JOHN R. & CINDY L. SLAGLE (GRANTORS)
CONVEY TO
PENNSYLVANIA-AMERICAN
WATER COMPANY (GRANTEE)

PROPERTY SITUATE IN
ELK TOWNSHIP, CLARION COUNTY, PENNSYLVANIA
DATE: 5/14/19 SCALE: AS SHOWN

Prepared by
GWIN, DOBSON & FOREMAN, INC.
CONSULTING ENGINEERS
ALTOONA, PENNSYLVANIA

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

- A-6.** The Application’s Exhibit E included a copy of a construction cost estimate to install two (2) gravity sewer laterals and one (1) pressure sewer lateral to the customers requesting service. Please respond to the following:
- a. Provide a detailed breakdown of the material projected to be required for the installation of the company-owned portions of the sewer laterals including size, material type and quantity;
 - b. Clarify if the estimated construction costs identified for the residential customer connections include both the customer-owned and company-owned sections of the sewer lateral or only the company-owned portion;
 - c. If PAWC-WD intends to furnish and install both the customer-owned and company-owned sections of the sewer laterals, please explain how it complies with PAWC-WD’s effective wastewater tariff;
 - d. Provide the approximate timeframe for the installation of the service laterals and indicate when PAWC-WD would commence service to the requested additional territory; and
 - e. Explain how PAWC-WD anticipates it will finance its costs to serve the requested additional territory (e.g., short-term debt, etc.).

Response:

- a. Typical material required for gravity sewer laterals includes an 8” x 6” wye, a cleanout assembly and approximately 10’ of 6” PVC pipe. Typical material for a pressure sewer main connection is a 2” fused saddle connection, a check valve, shut off valve and approximately 10’ of 2” HDPE pipe.
- b. All of the estimated construction costs on **Exhibit E** are for the Company-owned portion only of sewer facilities only. The customers will be installing and paying for all customer-owned facilities.
- c. PAWC is only furnishing the company-owned section of the sewer lateral.

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

- d. Customers will be hooked up as soon as the Commission approves the Application. Timing will depend on when the customers install their portion of the lateral.
- e. The cost of the service extension will be initially funded by a mixture of short-term debt and internally generated funds, and later will be converted to long-term financing consisting of equity and long-term debt.

Responsible Witness: **Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company (Subparts a and d)**

**Jed A. Fiscus, P.E. – Engineering Manager, Northwest PA
Pennsylvania-American Water Company (Subpart b)**

**Stacey Gress, Director – Rates and Regulatory
American Water Works Service Company (Subpart c)**

Date: **May 13, 2022**

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

- A-7. The Application’s Exhibit F included a copy of the Pennsylvania Department of Environmental Protection (DEP)-approved Sewage Facilities Planning Module for Maple Drive & SR 208 Lift Stations, prepared by Gwin, Dobson & Foreman, Inc., dated January 2019, revised April 2019, (Planning Module) and the approval letter from DEP for the Sewage Facilities Planning Module for Maple Drive & SR 208-North Lift Station Replacements, dated July 25, 2019, (Planning Module Approval Letter). Both the Planning Module and Planning Module Approval Letter indicated the SR 208-North lift station replacement will provide an additional 42 Equivalent Dwelling Units (EDUs) at 250 gallons/EDU for a total capacity of 48 EDUs. Please respond to the following:
- a. Identify the parcels, by number, depicted on a map that collectively makeup the 42 EDUs contemplated as the Evergreen Drive expansion area in the Planning Module;
 - b. Provide evidence that the Requesting Customer Parcels were included as part of the Planning Module;
 - c. Provide a copy of the preliminary engineering report prepared by Koppel Engineers for Elk Township referenced on Page 23 of the Planning Module;
 - d. Provide the date when the SR 208 North Lift Station replacement was placed into service;
 - e. Indicate whether the existing SR 208 Lift Station (a.k.a. School St. Pump Station) was removed from utility plant in service and provide the effect, including salvage, on the net utility plant in service balance;
 - f. Provide the current number of EDUs served by the SR 208-North Lift Station; and
 - g. Provide the projected number of EDUs assigned to each of the Requesting Customer Parcels.

**Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service
to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania**

Attachment A-7-1

**Map Prepared by Kopko Engineering for Elk Township Showing Proposed Sewer
Main Extension**



Proposed Sewer Line: Evergreen Drive- Route 208 Area

Elk Township, Clarion County, Pennsylvania		Date: September 29, 2016
Design: KES		Mapping: S. Farciglia
Checked: RK		

ENGINEERING, CONSTRUCTION, SURVEYING AND ENVIRONMENTAL SERVICES

KOPKO ENGINEERING
 Clarion Office
 PO Box 206
 Shippenville, PA 16254
 (814) 226-4750

Legend

- Low Pressure Sanitary Sewer
- Structures
- Tax Parcels

Source: Esri, DigitalGlobe, GeoEye, Earthstar (Earthstar), CNES/Airbus DS, USDA, AeroGRID, IGN, SDA, and the USGS Earth Explorer

**Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service
to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania**

Attachment A-7-2

Preliminary Engineering Report Prepared by Kopko Engineering

PRELIMINARY ENGINEERING REPORT

FOR

ELK TOWNSHIP, CLARION COUNTY

SANITARY SEWER SYSTEM EXTENSION

September 2016

PREPARED FOR:

Elk Township

1395 Fulton Road
Shippenville, PA 16254

KOPKO ENGINEERING

DESIGN PROFESSIONALS

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APPENDIX B ENVIRONMENTAL ASSESMENT (WETLANDS, SHPO, FEMA)

I General

The Supervisors of Elk Township have expressed a need for an extended sanitary sewer service. The purpose of this project is to provide a safe and reliable public service to prevent failure of existing on-lot sanitary sewer systems. An overall location map is shown in Figure 1. The proposed sanitary system options are shown in Figure 2, 3 and 4.

II. Project Planning Area

A. Location

This project is a multiple phased project that will be located in the Township.

Area 1 – Town Hill 322 - runs along State Route 322 (SR0322) on the east side of Shippenville Borough. This area contains the potential for 32 connections.

Area 2 – Evergreen Drive 208 - Approximately 42 homes and businesses are located in this study area. The proposed service starts at the intersection of Motter Street and SR 208 and extends to the end of Hemlock Drive.

Area 3 – Elk Acres - Approximately 92 homes and businesses are located in this study area. This pipe will be a continuation of the Shippenville sewer that runs along SR208 and will connect to the lift Station proposed at the Shippenville Waste Water Treatment Facility.

Plans and Figures shows a location map of the area and the extent of each area.

B. Environmental Resources Present

There are farmlands, wetlands and plants and animals present in the project area. However, all construction will be taking place in existing road-right of ways and in private existing lots. Proper construction mitigation and restoration efforts will be implemented based on standard practices common to the industry.

C. Growth Areas and Population Trends

According to the United States Census, Elk Township had a population of 8,230 in 2000 and 8,004 in 2010. These numbers reflect a population that is decreasing at an average of 0.28% per year. This decrease does not take into account the population fluctuation due to emerging businesses that could be created by this project.

III. Existing Facilities

A. Location Map

The existing sanitary sewer service areas in the Elk Township are as follows:

Maple Drive

All flow from Maple Drive is collected at Pump Station #1 located near the PAWC – WWTF on the east side of Shippenville where Paint Creek crosses State Route 322 - SR 0322. Near the eastern boundary of the township with Paint Township where it is pumped via force main to the PAWC- WWTP.

Pump Station LS1 is owned and operated by Pennsylvania American Water Company. Currently the pump station sufficiently handles the service areas load.

B . H i s t o r y

C . C o n d i t i o n o f t h e F a c i l i t i e s

The current sanitary sewer systems in both the area of Maple Drive and and Paint Township are in generally good condition and are sized to adequately handle the current loads in a safe and sustainable manner. PAWC is planning to connect the former Shippenville Municipal Authority plant with the PAWC-WWTF (former PEJSA WWTF) with a pressure line along SR322 through the Town Hill -322 area.

D . F i n a n c i a l S t a t u s o f a n y E x i s t i n g F a c i l i t i e s

Elk Township has not identified any existing debt being carried against their existing sewer Districts. The proposed project will likely include a funding package that would include an as yet undetermined grant applications and potential loan amount.

IV. Need For the Project

A. Health and Safety

The proposed sanitary sewer project will provide a public sewer system to portions of the Township that are not currently served and have been identified as areas of residential and commercial growth in the Township and may contain areas of failed on-lot systems.

B . S y s t e m O & M

A sanitary sewer network will replace individual on-lot treatment units. This will reduce the operation and maintenance costs borne by the residents

at this time, and prohibit infiltration to groundwater and promote less potential for groundwater contamination and may lead to additional development in the area.

C. Growth

The goal of this project is to provide landowner with an approved method of treatment for wastewater. The project could spur economic growth in the undeveloped lots of land in the Elk Township. Growth capacity is accounted for in the future demand calculations.

While economic development is viewed as a project benefit, balancing economic development and land protection is necessary, critical, and provided for. All work proposed will be conducted within road right-of-ways and minimal disturbance will occur outside of these areas. Thus, there are no anticipated long-term impacts to the Agricultural Districts as a result of the proposed action including no change in use of agricultural/residential lands within any Agricultural Districts.

V. Alternatives Considered

A. Description

1. **Study Area #1** — Town Hill-322 - This area consists of approximately 32 homes and businesses which is equal to 32 EDUs. Using the 2010 census data, the average household size in Elk Township is 2.49 people. Using 100 gallons per person, one EDU equates to 249 gpd. The average flow from Study Area #1 is approximately 7,968 gpd. (32 EDUs * 249 gpd/EDU = 7,968 gpd)

a. Option 1- Gravity Sewer

Costs associated with this option are 8-inch PVC gravity sewer, associated manholes and laterals, potential pump station upgrade. Work in this phase starts at the top of the hill at the Borough boundary line and connects at Maple Drive. Along this stretch of sewer piping connection to the existing Maple Drive lift station is necessary to keep the gravity sewer main at a manageable depth.

b. Option 2- Low Pressure Collection System

Costs associated with this option are 2-4-inch force main, 8-inch force main, 8-inch associated manholes and laterals, Sewer pipe follows the same path as described in Option 1. A 2-inch pressure line will start at the township line and connect to the PAWC 6-inch pressure line to the PAWC WWTF.

Individual grinder pump stations would be installed at each property near the existing homes or commercial buildings. The individual pumps will convey the waste water to the force main system described above through small diameter laterals. These individual pumps will also provide the energy to send the collected waste water up the force mains to the discharge point.

2. **Study Area #2** — Evergreen Drive – Route 208 Approximately 42 homes and businesses are located in this study area. The average flow is approximately 10,458 gpd. (42 EDUs * 249 gpd/EDU = 10,458 gpd)

This option under this area cover the 2-4 inch low-pressure sewer pipe, associated manholes and laterals, and connection to the sewer system. The proposed service starts at the intersection of Motter Street and SR 208 and extends to the end of Hemlock Drive.

Option 1- Low Pressure *Collection System*

Costs associated with this option are 2-inch force main, 3-inch force main, 4-inch force main, associated laterals, and grinder pump stations. Sewer pipe follows the same path as described above.

3. **Study Area #3**— Elk Acres - Approximately 92 homes and businesses are located in this study area. The average flow is approximately 22,908gpd. (92 EDUs * 249 gpd/EDU = 22,908 gpd)

a. Option 1 Gravity Sewer and pressure

The proposed action includes the installation of approximately 8,896 linear feet of 8-inch PVC gravity sewer pipe. Also the installation of a duplex pump station near Hannold Lane. This pipe will be a continuation of the system using pressure for 7,035 feet sewer that runs along SR208. Then the 7,035 feet of 6-inch pressure sewer line to the former Shipperville WWTP.

b. Option 2 Gravity Sewer and pressure

The proposed action includes the installation of approximately 11,721 linear feet of 8-inch PVC gravity sewer pipe. Also the installation of a duplex pump station. This pipe will be a continuation of the gravity sewer that runs along SR208. To the lift Station. Then 4,210 feet of 6-inch pressure sewer line to the former Shipperville WWTP.

B. Design Criteria

Current and future demand was analyzed to locate and size the proposed sanitary line. Each phase is broken out and divided into equivalent dwelling units (EDU). A summary is included in Appendix A.

Electrical Connection

Each residence with a low pressure system will require an electrical connection to provide power to the new grinder pump, controls, and alarm system. Electrical connection costs are based on service from existing residential breaker

panels with an additional price added for service upgrades. The following assumptions were made in determining the electrical costs:

The grinder pumps are 240 Volt and will require a 12 Amp draw.

Homes built or upgraded in the last 50 to 60 years include a 100 Amp electrical panel.

5 to 20 percent of homes require an upgraded electrical panel.

Odor Control

Odor control measures will be required at high points throughout the system where air within the piping is released to prevent air bubbles from forming. Odor control will consist of carbon media canisters that remove the odorous compounds such as hydrogen sulfide from the air as it passes through the media. The canisters and air release valves on the pressurized main lines would be enclosed in a small (approx. 3 by 4 by 4 feet) buried vault

C. Map

The proposed phases and project area for option 1 is shown in Figure 2 and option 2 is shown in Figure 3.

D. Environmental Impacts

There are no anticipated negative environmental impacts associated with the project. However, an environmental review will be done for the project. All construction will be done in existing road-right-of-ways and private and proper construction mitigation and restoration efforts will be implemented. See Appendix B for FEMA, Wetlands, Federal Wetlands and SHPO maps of the project area.

E. Land Requirements

The majority of work for this project will take place within the right-of-way. Laterals will be extended off the main to edge of the right-of-way at each current residence and commercial property. Easements may need to be obtained for the installation mains, collection line and of the Lift and Pump stations.

F. Construction Problems

There are no foreseen obstacles in the construction process.

G. Cost Estimate

See Appendix C for an itemized list of costs and see Appendix D for a summary of options by phase.

VI. Selection of an Alternative

The recommended alternative is Option 1. This option is both the most cost efficient and easiest to expand upon if further development occurs.

VII. Proposed Project (Recommended Alternative)

A. Project Design

Next Phase

VIII. Conclusions and Recommendations

The proposed sanitary sewer improvements will allow for future expansion and economic growth of Elk Township. Following the project, all of the sewer mains would be owned and maintained by the Town.

It is recommended that Elk Township secure the funding necessary to implement the Sanitary Sewer Improvements and capitalize on the opportunity to provide public sewer to a larger number of residents.

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-8. Please provide a copy of PAWC-WD's most recent Chapter 94 Municipal Wasteload Management Report for Paint-Elk Wastewater Treatment Plant and Collection System submitted to DEP.

Response: Please see PAWC-WD's 2021 Chapter 94 Municipal Wasteload Management Report attached as **Attachment A-8**.

Responsible Witness: **Michelle Cavallo, Senior Supervisor Operations (Clarion WW)**
Pennsylvania-American Water Company

Date: **May 13, 2022**

**Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service
to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania**

Attachment A-8

**Chapter 94 Municipal Wasteload Report of Pennsylvania-American Water Company for
Painted Elk Wastewater Treatment Plant and Collection System**



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT REPORT

PENNSYLVANIA-AMERICAN WATER COMPANY
PAINT-ELK WASTEWATER TREATMENT PLANT AND
COLLECTION SYSTEM

NPDES PERMIT: PA0034924

OPERATING YEAR: 2021



3800-FM-BPNPSM0507 4/2014
Chapter 94 Report



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

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: **2021**

- Permittee is owner and/or operator of a POTW or other sewage treatment facility
- Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION			
Permittee Name:	Pennsylvania American Water Company	Permit No.:	PA0034924
Mailing Address:	852 Wesley Drive	Effective Date:	October 1, 2016
City, State, Zip:	Mechanicsburg, PA 17055	Expiration Date:	September 30, 2021
Contact Person:	Samuel Miller	Renewal Due Date:	March 31, 2021
Title:	Engineering Project Manager	Municipality:	Paint Township
Phone:	814-229-4020	County:	Clarion
Email:	Samuel.Miller@amwater.com	Consultant Name:	N/A
CHAPTER 94 REPORT COMPONENTS			
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. <u>(25 Pa. Code § 94.12(a)(1))</u></p> <p>Check the appropriate boxes:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Line graph for flows attached (Attachment B) <input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment A) <input type="checkbox"/> Section 1 is not applicable (report is for a collection system). 			
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. <u>(25 Pa. Code § 94.12(a)(2))</u></p> <p>Check the appropriate boxes:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Line graph for organic loads attached (Attachment C) <input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment A) <input type="checkbox"/> Section 2 is not applicable (report is for a collection system). 			

3800-FM-BPNPSM0507 4/2014
Chapter 94 Report

3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))

Not Applicable

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

Check the appropriate boxes:

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment**)
- List summarizing each extension or project attached (**Attachment**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment**)

Comments:

Not Applicable

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

See Report Narrative.

3800-FM-BPNPSM0507 4/2014
Chapter 94 Report

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

Check the appropriate boxes:

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

Comments:

See Report Narrative.

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

Check the appropriate boxes:

- The collection system does not contain pump stations
- The collection system does contain pump stations (Number – 5)
- Discussion of condition of each pump station attached (**See Report Narrative**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

Check the appropriate boxes:

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment**)
- Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

3800-FM-BPNPSM0507 4/2014
Chapter 94 Report

9. Existing or Projected Overload.

Check the appropriate boxes:

- This report demonstrates an existing hydraulic overload condition.
- This report demonstrates a projected hydraulic overload condition.
- This report demonstrates an existing organic overload condition.
- This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

Corrective Action Plan attached (**Attachment**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

Sewage Sludge Management Inventory attached (**Attachment**)

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

Annual CSO Report attached (**Attachment**)

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**Attachment E**)

RESPONSIBLE OFFICIAL CERTIFICATION


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

Jed A. Fiscus, P.E.

Name of Responsible Official

814-279-4710

Telephone No.

DocuSigned by:

 73E719EF880D45A

Signature

3/25/2022

Date

3800-FM-BPNPSM0507 4/2014
Chapter 94 Report

PREPARER CERTIFICATION

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

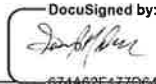
Samuel Miller

Name of Preparer

814-229-2040

Telephone No.

DocuSigned by:



674A82F177D6478

Signature

3/25/2022

Date



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT REPORT

PENNSYLVANIA-AMERICAN WATER COMPANY
PAINT ELK
WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM

NPDES PERMIT: PA0034924

OPERATING YEAR: 2021



DocuSigned by:
PERMITEE SIGNATURE: Jon C Natale
5A90F81F320C4CE...

Jon Natale, Sr. Manager - Operations – Northwest - Pennsylvania-American Water Company

DocuSigned by:
REPORT PREPARER SIGNATURE: Samuel J Miller
674A62F177DB479...

Samuel J. Miller, Engineering Project Manager - Pennsylvania-American Water Company



Report Summary and Index

Report Summary and Index

The purpose of the Municipal Wasteload Management Report is to provide the Pennsylvania Department of Environmental Protection (PaDEP) with information for a review of the load on the wastewater facilities and to ensure that there is sufficient time to plan and construct needed additions. This report includes information on all collection systems tributary to the treatment plant. In accordance with Section 94.12, Annual Report, of the PaDEP Rules and Regulations, the report includes the following:

1. Introduction
2. Hydraulic Loading (§94.12(a)1)
3. Organic Loading (§94.12(a)2)
4. Basis of Loading Projections (§94.12(a)3)
5. Projected Overload Conditions (§94.12(a)1) and (§94.12(a)2)
6. Industrial Waste Report (§94.12(a)8)
7. Collection System Extensions (§94.12(a)4)
8. Wastewater Facilities Monitoring, Maintenance, Repair and Rehabilitation (§94.12(a)5)
9. Condition of Collection System (§94.12(a)6)
10. Condition of Lift Stations (§94.12(a)7)
11. Calibration Report

ATTACHEMENTS

- A. Hydraulic and Organic Loading Table
- B. Hydraulic Loading Graph
- C. Organic Loading Graph
- D. WWTF Process Diagram
- E. Calibration Reports for Flow Meters
- F. Certifications and Training Transcripts for Operators
- G. Tools and Equipment List
- H. Collection System Summary Table



1. Introduction

Pennsylvania-American Water Company (PAWC) owns and operates the Paint-Elk Wastewater System that consists of a 0.600 MGD Wastewater Treatment Plant (WWTP), five (5) lift stations, and collection and conveyance sewers necessary to service portions of Paint and Elk Townships and Shippenville Borough. PAW acquired the Paint-Elk system on August 1, 2014 and acquired the Shippenville Borough system on August 4, 2015. A sewer main extension was completed in 2017 that interconnected the Shippenville system to the Paint-Elk system. The Shippenville system is now considered a basin within the Paint-Elk system.

The collection system serves portions of Paint and Elk Townships and Shippenville Borough. The PAWC Paint-Elk collection system (including Shippenville) consists of approximately **90,010** LF of various sizes of gravity pipe, **21,323** LF of force main and pressure sewer and approximately **425** manholes. The majority of the collection system piping is PVC pipe, while the vast majority of the manholes are pre-cast concrete.

The WWTP is operated under NPDES Permit PA0034924. The NPDES permit expired on September 30, 2021, and the new permit application is still under review by PADEP. The WWTP consists of a headworks with fine screen, influent flow meter and four (4) aerated lagoons. Disinfection is achieved with a chlorine feed system and chlorine contact tank. Post aeration, in the form of a cascade aerator, is included downstream of the chlorine contact tank. The Paint-Elk WWTP is located at 9242 SR 322, Shippenville, PA 16254.

2. Hydraulic Loading (§94.12(a)1)

The hydraulic loading graph (Attachment B) illustrates the hydraulic loading on the treatment plant plotted from average daily flows for each month from **2017 to 2021** and the hydraulic loading approved by the National Pollutant Discharge Elimination System (NPDES) permit.



Attachment A provides a list of the average daily flows for each month from **2017 to 2021** with the annual average daily flow and 3-month maximum consecutive average daily flow for each year.

Based on the information in Attachment A, the average ratio of maximum month to average loading (peaking factor) for Years **2017 to 2021** is **1.30**.

3. **Organic Loading (§94.12(a)2)**

The organic loading graph (Attachment C) illustrates the organic loading on the plant plotted from average daily loadings for each month from **2017 to 2021** and the organic loading approved by the NPDES permit.

Attachment A provides a list of the average daily organic loadings for each month from **2017 to 2021** and the annual average load and maximum monthly load for each year. Based on the information in Attachment A, the average ratio of maximum month to average loading (peaking factor) for Years **2017 to 2021** is **2.24**. The loading is calculated by multiplying the average daily flow by the influent BOD.

4. **Basis of Loading Projections (§94.12(a)3)**

In an effort to determine future hydraulic and organic loadings to the plant, a forecast of future population served was determined for Years **2021 to 2025**. The projected EDUs within the Paint-Elk system were determined by examining the 2013 Paint-Elk WWTP Ch. 94 Report prepared by the EADS Group along with the interconnection of the Shipperville WW system per the approved Act 537 Plan.

The Shipperville WW system was interconnected to the Paint-Elk system in the fall of 2017. The projected EDUs for **2021-2025** are based on the average number of EDUs per year for the Paint-Elk WW system (8 EDUs) plus the projected number



of EDUs per year for the Shippenville WW system (8 EDUs). The projected number of EDUs per year is based on the graph on page 12 of the approved 2012 Act 537 Plan for Shippenville.

The hydraulic load is based on 400 gal/day/EDU. The organic load is based on 0.17 lbs/day/person x 2.35 persons per EDU. The 2.35 persons per EDU are based on the average of the population density of persons per household from the 2020 census data for the three municipalities (Paint Twp., Elk Twp. and Shippenville Borough).

Attachment A depicts the estimated number of additional EDUs served and respective hydraulic and organic loads anticipated for the next five years. These additional annual hydraulic and organic loadings were added to the five-year annual average daily hydraulic and organic loading in order to approximate the loadings at the PAW Paint-Elk Wastewater Treatment Plant for the next five years (**2022 - 2026**). The projected 3-consecutive maximum monthly flows were calculated utilizing the average ratio over the past five years of the 'Average 3-month maximum flows' to the 'Average Monthly Flows'. That ratio was multiplied by the projected average annual flow to calculate the 3-consecutive maximum monthly flow. The maximum monthly loading was also determined based on the average ratio of maximum month loadings to average loadings, times the projected average loading. The results are also depicted on Graphs in Appendices B and C.

5. Projected Overload Conditions

The plant is not currently nor projected to be hydraulically overloaded in the next five years.



The plant is not currently nor projected to be organically overloaded in the next five years.

6. Industrial Waste Report

PAW's PUC approved tariff provides for the regulation of sanitary sewer waste which includes a provision on industrial waste discharge to PAW's system.

The Paint-Elk system does not currently have any industrial user that discharges industrial waste to their system. A service application is required for connection to PAW's system. PAW reviews the applications for potential industrial users. No industrial users were connected to the system in Year **2021**.

7. Collection System Extensions

No new connections or extensions were completed in 2021

8. Wastewater Facilities Monitoring, Maintenance, Repair and Rehabilitation

PAW is responsible for the operation and maintenance of one 0.600 MGD wastewater treatment plant, five wastewater lift stations, and collection and conveyance sewers serving Paint Township and Elk Township and Shippenville Borough in Clarion County.

The Paint-Elk WW system is operated by the PAWC Clarion WW staff. The local Clarion production staff of PAWC consists of a Wastewater Supervisor, Lead Operator and two additional Operators. The certified operators' certificates and training transcripts are attached in **Attachment F**. The three operators work 8-hour days Monday through Friday, and one operator works 3-hour days Saturday through Sunday.



Evaluation of the sewer system was started upon acquisition of the system and has included creation of GIS mapping, flow monitoring and CCTV inspection. The information gathered will be utilized to aid with project selection for PAW's Wastewater Long Term Infrastructure Improvement Plan (LTIP) for the Paint-Elk WW system that is described in more detail in section 9 of this report.

Sampling continues in accordance with Part A, of the NPDES permit.

The NPDES requirements for 2021 are listed below (Note that the permit expired in September 2021 and new permit renewal application is under review by PADEP)

<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
Total Flow	1/Week	Measured
pH	1/Week	Grab
Dissolved Oxygen	1/Week	Grab
Total Residual Chlorine	1/Week	Grab
CBOD5	Two/Month	8-hour composite
BOD5 (Influent)	Two/Month	8-hour composite
Total Suspended Solids (Influent)	Two/Month	8-hour composite
Total Suspended Solids	Two/Month	8-hour composite
Fecal Coliform	Two/Month	Grab
Total Nitrogen	One/Quarter	8-hour composite
Total Phosphorus	One/Quarter	6-hour composite

Monthly operational reports are submitted by PAWC as required to the PaDEP and the U.S. Environmental Protection Agency. In addition to the influent/effluent sampling, PAWC personnel check the plant daily, grease equipment either weekly or monthly, change the oil for equipment yearly, clean the air filters and blowers yearly and perform general housekeeping to keep the facilities clean. PAW performed the following repairs/maintenance at the WWTP in **2021**:



- Installed new Storm Water Inlets along the WWTP entrance road
- Installed a new storage cabinet for flammable materials.
- Replaced the pH meter in the lab.
- Lagoon #1 Sludge Removal

In 2021, approximately **925 metric tons** of sludge was sent to the landfill as part of the work that was completed to clean out Lagoon #1 at the WWTP.

The PAW operators, in accordance with the PUC approved Tariff, inspect all new sewer connections to ensure that no sources of storm water have been connected to the sanitary sewer. When necessary, PAW contracts the services of resident inspectors for inspection of sewer extensions proposed by PAW and for developer extensions to ensure the extensions are constructed in accordance with the PUC approved tariff and bidding documents.

Monitoring includes inspection of the wastewater collection and conveyance system to resolve problems as they are identified. Manholes are monitored to identify lines that contribute to I/I problems.

Preventive maintenance consists of both inside and outside housekeeping. Equipment maintenance includes cleaning, lubrication, routine inspection of all pumps and apparatus and implementation of proper maintenance procedures for all specific plant units. Records are kept of all maintenance, inspection, and repairs. A list of available tools and equipment is attached in the **Attachment G**. PAW has contracts in place with several contractors to provide maintenance services. PAW also has its own internal maintenance services division. If a problem arises that PAW personnel need assistance to address, local contractors are available and under contract to assist with any emergencies. Below is a list of a few of the contractors that are available to PAW:



- ❖ Bruce and Merrilees (Electrical)
- ❖ Konecranes (Cranes and Hoists)
- ❖ Daman Superior (Pumps)
- ❖ Mealy Excavating and Construction, Inc. (Emergency Repairs)
- ❖ Environmental Service and Equipment Company (Chlorine System Maintenance)
- ❖ Pipe Eye (Heavy Jetting – Vac Truck)
- ❖ Williams Sanitation (Vac Truck)

9. Condition of Sewer System

The general condition of the interceptors, conveyance, and collection sewer lines maintained by PAW varies with the newer sections being in better condition. In 2018, PAW's Wastewater Long Term Infrastructure Improvement Plan (LTIIP) and Distribution System Improvement Charge (DSIC) that includes the Paint-Elk WW system was filed with the Pennsylvania Public Utility Commission for review. The LTIIP includes reoccurring investment in wastewater collection system improvements. A Collection System Summary Table is included in **Attachment H** and includes details of service, sewer system evaluation, routine maintenance and rehabilitation statistics for the collection system.

10. Condition of Wastewater Lift Stations

PAW operated and maintained five lift stations on the collection system in **2021**. The five lift stations each have a pressurized force main that connects to the gravity system at various locations.



LIFT STATION CURRENT AND PROJECTED MAXIMUM EFFLUENT FLOWS

Pennsylvania American Water - Paint-Elk Wastewater System Lift Station Summary

LIFT STATION EFFLUENT FLOWS				
LIFT STATION	MAX DAILY FLOW RATE (MGD)*	2021 MAX DAY (MG)**	PROJECTED 2-YEAR MAX DAY FLOW (MG)***	% of Max Pump Rate
Maple Drive	0.2016	0.0050	0.0041	2%
SR 66	0.2880	0.0286	0.0238	8%
Riverhill	0.5760	0.0370	0.0307	5%
SR 208 North	0.1440	0.0021	0.0017	1%
Shipperville	0.6048	0.1420	0.1181	20%
* Max daily flow rate based on design pump capacities of the lift stations. The max. daily flow is calculated from the max. flow rate.				
** Max day flow for all lift stations is based on information around the date of 9-22-2021 . The highest Shipperville LS effluent daily flows for 2021 was recorded around this date due to a heavy rainfall over several days.				
*** Projected 2-Year Flow based on ratio of 2023 projected monthly hydraulic loading to 2021 average monthly hydraulic loading multiplied by the max day flow for 2021 .				

Based on the above table and the fact that PAW production staff has not visually identified any overflows, the lift stations are not currently hydraulically overloaded nor are they projected to be within two years.

The lift stations are in good structural condition. Improvements to Riverhill and SR 208 North Lift Stations were completed in late 2020, and Maple Drive improvements were completed in early 2021. Construction was started in late 2021 for the improvement project for the SR 66 lift station. The lift stations are checked and run times are recorded usually five (5) days of the week. Pumps are greased weekly. The generators are checked and run times are recorded weekly. Wet wells are checked weekly. In addition to preventative maintenance, the following work was performed:



- Maple Drive Lift Station
 - Installed a berm and Storm Water Collection Basins to move surface water away from the station.
- Riverhill Lift Station
 - None
- SR 66 Lift Station
 - None
- SR 208 North Lift Station
 - None
- Shippenville Lift Station
 - Cleaned out check valves

11. Calibration Reports

The calibration reports for the influent & effluent flow measuring devices at the WWTP are in the **Attachment E**. The influent meter was calibrated on **12-07-2021**. The effluent meter was calibrated on **12-07-2021**. The influent flow meter was used for flow data for this report.

**ATTACHMENT A
HYDRAULIC AND ORGANIC
LOADING TABLE**



**PADEP Chapter 94 Spreadsheet
Sewage Treatment Plants**

Reporting Year:

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity: MGD
 Upgrade Planned in Next 5 Years? Year:
 Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: lbs BOD5/day
 Upgrade Planned in Next 5 Years? Year:
 Future Organic Design Capacity: lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2017	2018	2019	2020	2021
January	0.166	0.149	0.118	0.249	0.2
February	0.184	0.248	0.196	0.279	0.244
March	0.13	0.156	0.216	0.39	0.268
April	0.125	0.166	0.283	0.229	0.205
May	0.167	0.083	0.217	0.181	0.306
June	0.116	0.101	0.359	0.128	0.186
July	0.135	0.109	0.186	0.118	0.279
August	0.09	0.092	0.145	0.122	0.219
September	0.076	0.18	0.139	0.127	0.196
October	0.095	0.127	0.185	0.152	0.271
November	0.162	0.198	0.231	0.163	0.198
December	0.114	0.137	0.214	0.281	0.271

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

Month	2017	2018	2019	2020	2021
January	188	131	72	248	173
February	282	130	796	585	201
March	125	79	187	331	536
April	152	257	122	292	216
May	97	72	161	229	548
June	85	50	160	232	154
July	142	154	134	197	381
August	159	173	222	201	214
September	133	62	129	161	406
October	158	174	373	257	239
November	244	143	210	312	209
December	107	121	249	467	668

Annual Avg 0.13 0.146 0.207 0.202 0.237
 Max 3-Mo Avg 0.16 0.19 0.286 0.306 0.26
 Max : Avg Ratio 1.23 1.30 1.38 1.51 1.10
 Existing EDUs
 Flow/EDU (GPD)
 Flow/Capita (GPD)
 Exist. Overload? NO NO NO NO NO

Annual Avg 156 129 235 293 329
 Max Mo Avg 282 257 796 585 668
 Max : Avg Ratio 1.81 1.99 3.39 2.00 2.03
 Existing EDUs
 Load/EDU
 Load/Capita
 Exist. Overload? NO NO NO NO NO

Projected Flows for Next Five Years (MGD)

	2022	2023	2024	2025	2026
New EDUs	16.0	16.0	16.0	16.0	16.0
New EDU Flow	0.0056	0.0056	0.0056	0.0056	0.0056
Proj. Annual Avg	0.19	0.1956	0.2012	0.2068	0.2124
Proj. Max 3-Mo Avg	0.248	0.255	0.263	0.27	0.277
Proj. Overload?	NO	NO	NO	NO	NO

Projected BOD5 Loads for Next Five Years (lbs/day)

	2022	2023	2024	2025	2026
New EDUs	16	16	16	16	16
New EDU Load	9.344	9.344	9.344	9.344	9.344
Proj. Annual Avg	238	247	256	266	275
Proj. Max Avg	533	554	575	596	617
Proj. Overload?	NO	NO	NO	NO	NO

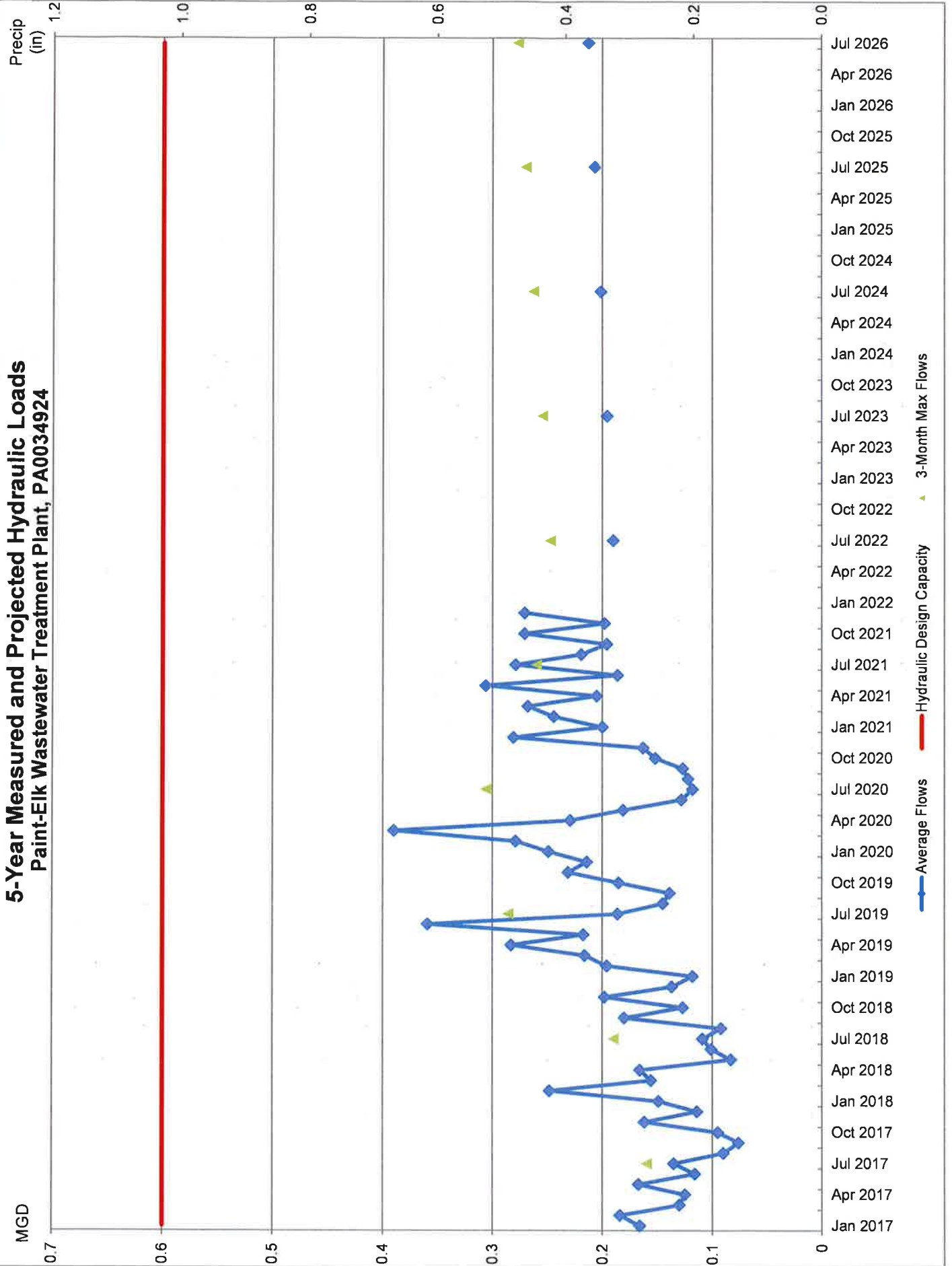
Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

Month	2017	2018	2019	2020	2021
January	5.08	3.85	1.9	3.22	1.36
February	3.13	4.59	3.3	4.23	1.92
March	3.88	3.28	2.61	6.32	2.19
April	3.09	3.74	5.33	4.07	2.17
May	10.08	3.16	6.26	3.49	3.75
June	7.28	5.34	8.32	3.03	5.27
July	4.36	6.49	6.57	1.67	6.57
August	2.56	3.55	3.11	3.15	6.97
September	2.18	7.47	2.48	2.25	3.49
October	4.0	4.81	7.06	4.0	5.96
November	5.49	4.3	1.94	3.69	1.71
December	1.71	4.48	3.75	2.19	3.53

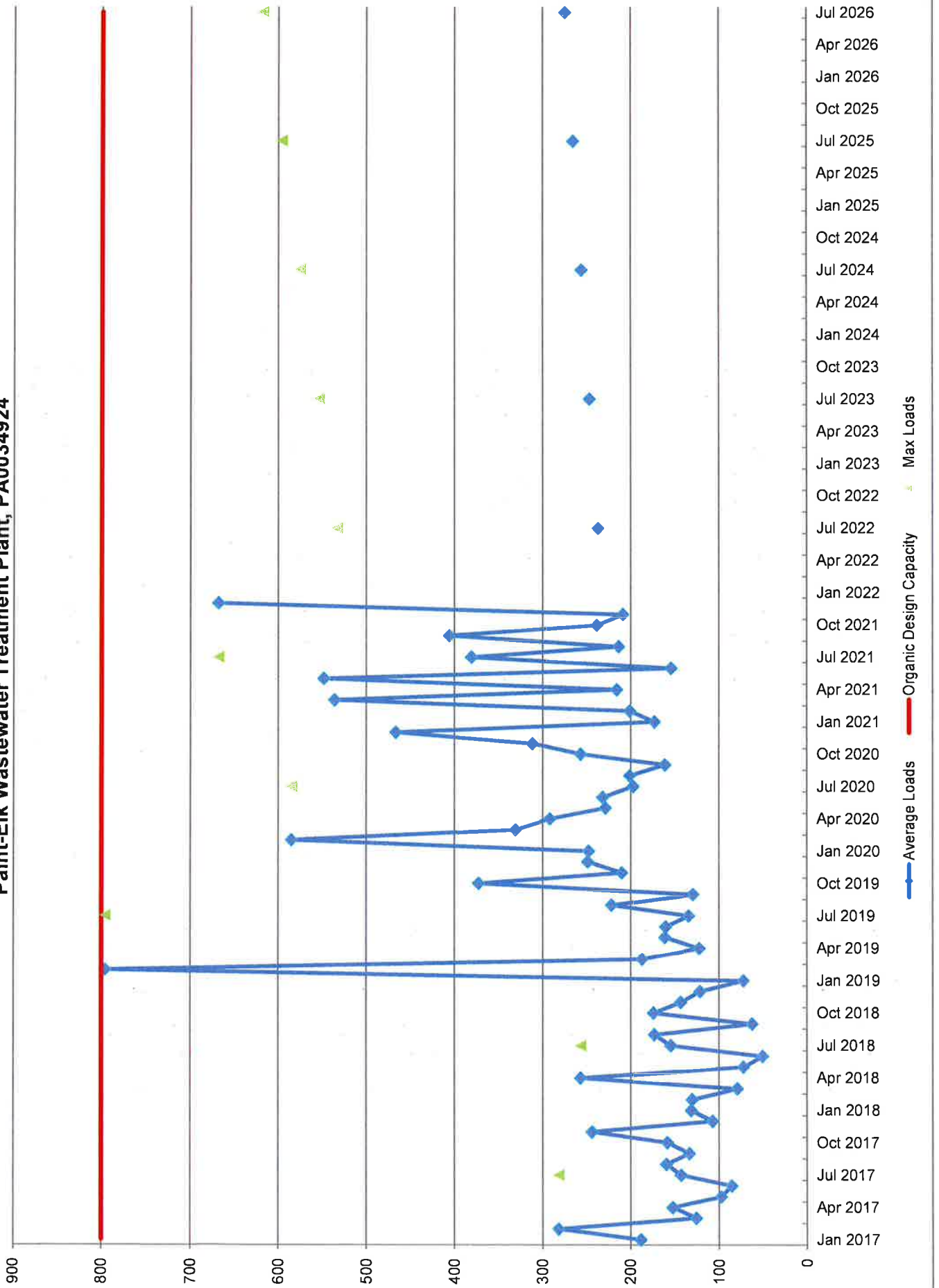
ATTACHMENT B
HYDRAULIC
LOADING GRAPH

5-Year Measured and Projected Hydraulic Loads Paint-Elk Wastewater Treatment Plant, PA0034924

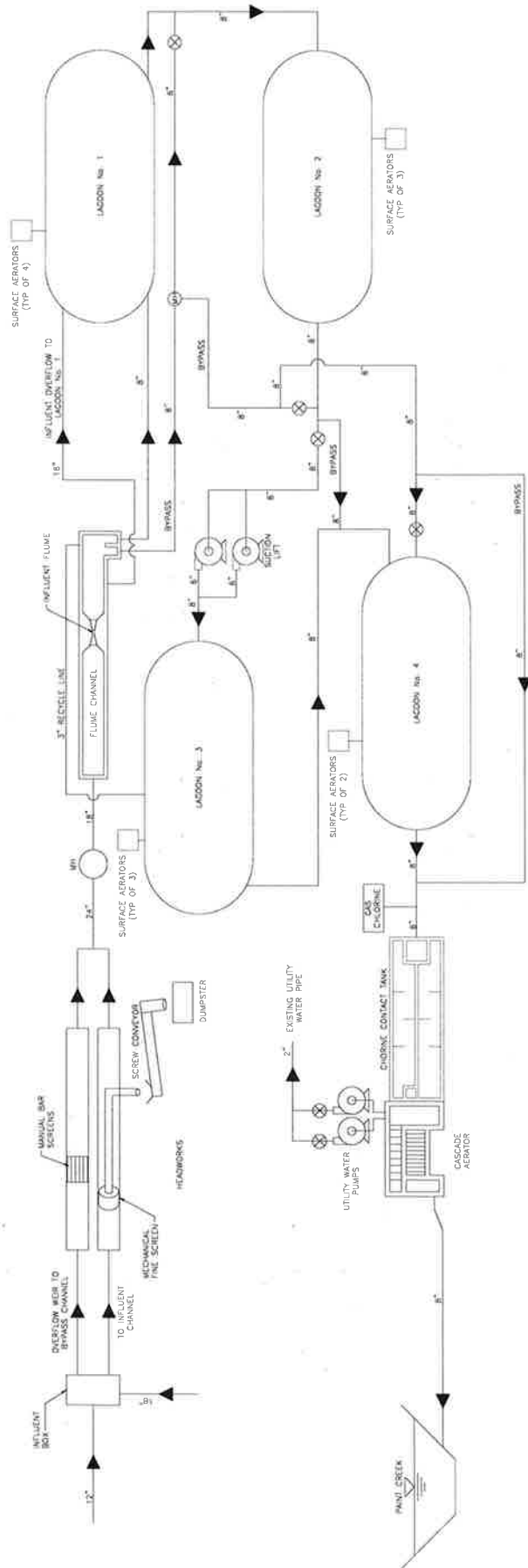


ATTACHMENT C
ORGANIC LOADING
GRAPH

5-Year Measured and Projected Organic Loads Paint-Elk Wastewater Treatment Plant, PA0034924



ATTACHMENT D
WWTF PROCESS DIAGRAM



EXISTING PROCESS FLOW SCHEMATIC
NO SCALE

REVISIONS

PENNSYLVANIA-AMERICAN WATER DISTRICT

PAINT-ELK WW DISTRICT

**PAINT-ELK WASTEWATER TREATMENT PLANT
DISINFECTION AND LIFT STATION IMPROVEMENT
PROJECT**

OVERALL PLANT SCHEMATICS

PAINT-ELK WW DISTRICT

PENNSYLVANIA-AMERICAN WATER DISTRICT

AMERICAN WATER DISTRICT

ALTOONA, PA 16802

DATE: 12/13/2010

PROJECT: PAINT-ELK WW DISTRICT

DESIGNER: J. J. JOHNSON

DRAWN BY: J. J. JOHNSON

SCALE: AS SHOWN

USE: PRELIMINARY DESIGN ONLY FOR CONSTRUCTION PURPOSES

124-380004-P01



100% SUBMISSION

ATTACHMENT E
CALIBRATION REPORTS FOR FLOW METERS



FIELD CALIBRATION CERTIFICATE

NOTE: This is a multi-part form. For legible copies, please press firmly when entering data.

Certificate No CC T.I.M. - 2913

Customer Information: _____ Ref PO No _____

Company Pa. American Water

Site Address Paint Elk

City Clatsion State: Pa Zip 16214

Contact Information:

Name Michelle Cavallo

Title SR Supv

Street Address Same as above

City _____ State: _____ Zip _____

Tel [] _____

Instrument Data:

Description Paint Elk Inf. Ultrasonic Flow xmts.

Manufacturer Krohne Model No. Opti Sound

Serial No. _____ Tag No. _____

Calibration Data:

Units of Measurement

1. 4-20 mA DC 6. _____

2. _____ 7. _____

3. _____ 8. _____

4. _____ 9. _____

5. _____ 10. _____

Test Equipment:

1. Fluke 8060 A D.U.M

2. _____

3. _____

4. _____

5. _____

Reference Data:

Ambient temperature (°F): 26

Relative Humidity (%) _____

The instrumentation described above has been accurately calibrated under ambient conditions in accordance with the Manufacturer's documented procedures and specification. The test equipment used is calibrated and is traceable to the National Institute of Standards and technology.

Calibrated by:

[Signature]
NAME

12/7/02
DATE



FIELD CALIBRATION CERTIFICATE

NOTE: This is a multi-part form. For legible copies, please press firmly when entering data.

Certificate No CC T.I.M. 2913

Customer Information: _____ Ref PO No _____

Company Pa. American Water

Site Address Paint EIK

City Clairton State: Pa Zip 16214

Contact Information:

Name Michelle Cavallo

Title SR. Supv.

Street Address Same as above

City _____ State: _____ Zip _____

Tel [] _____

Instrument Data:

Description Paint EIK EFF Ultrasonic Flow meters

Manufacturer Krohne Model No. Opti Sound

Serial No. _____ Tag No. _____

Calibration Data:

Units of Measurement

- 1. 4-20 mA DC 6. _____
- 2. _____ 7. _____
- 3. _____ 8. _____
- 4. _____ 9. _____
- 5. _____ 10. _____

Test Equipment:

- 1. Fluke 8060 A D.V.O.M
- 2. _____
- 3. _____
- 4. _____
- 5. _____

Reference Data:

Ambient temperature (°F): 26

Relative Humidity (%) _____

The instrumentation described above has been accurately calibrated under ambient conditions in accordance with the Manufacturer's documented procedures and specification. The test equipment used is calibrated and is traceable to the National Institute of Standards and technology.

Calibrated by:

Kimmy Bell
NAME

12/17/2021
DATE



FIELD CALIBRATION CERTIFICATE

NOTE: This is a multi-part form. For legible copies, please press firmly when entering data.

Certificate No CC T.I.M-2913

Customer Information:

Ref PO No _____

Company Pa. American Water

Site Address Paint Elk Stations

City Clatsion

State: Pa

Zip 16214

Contact Information:

Name Michelle Cavallo

Title SR. Supr.

Street Address Same as above

City _____

State: _____

Zip _____

Tel [] _____

Instrument Data:

Description River Hill, Shipperville, Rte 208 + Maple Dr. Flow Converters

Manufacturer SIEMENS

Model No. F Mag 6000

Serial No. _____

Tag No. _____

Calibration Data:

Units of Measurement

- 1. 4-20 M.A.D.C
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

Test Equipment:

- 1. FLUKE 8060 A D.V.O.M
- 2. _____
- 3. _____
- 4. _____
- 5. _____

Reference Data:

Ambient temperature (°F): 26

Relative Humidity (%) _____

The instrumentation described above has been accurately calibrated under ambient conditions in accordance with the Manufacturer's documented procedures and specification. The test equipment used is calibrated and is traceable to the National Institute of Standards and technology.

Calibrated by:

Jim Puyffli
NAME

12/7/2021
DATE

ATTACHMENT F
CERTIFICATIONS AND TRAINING TRANSCRIPTS FOR
OPERATORS

Commonwealth of Pennsylvania

Department of Environmental Protection

In accordance with the

State Board for Certification of Water and Wastewater Systems Operators

and the Regulations of the

Department of Environmental Protection

MICHELLE L CAVALLI

Is Hereby Authorized to Operate

WASTEWATER SYSTEM

Class: B,E, Wastewater

Subclass: 1,3,4

Client ID: 199548

**MICHELLE L CAVALLI
211 W FAIRMONT AVE
NEW CASTLE PA 16105-1909**

Issue Date Oct 1, 2020
Expiration Date Sep 30, 2023

Certificate No. S20841

Joseph J. Standerski
Board Chairman

EarthWise Academy Transcript

Wastewater Certification Courses

199548 MICHELLE CAVALLO
211 W FAIRMONT AVE
NEW CASTLE, PA 16105-1909

Friday, March 4, 2022 1:19:41 PM

Cycle Start Date: 10/1/2020

Certification Expires: 9/30/2023

Course ID	Course Name	Completion Date	Contact Hours
5016	Heartsaver First Aid with CPR/AED training	11/13/2020	4.0
7137	IS-907: Active Shooter: What You Can Do (FEMA)	12/3/2020	1.0
8400	IS-700.B: An Introduction to the National Incident Management System	12/7/2020	3.5
8399	IS-200.C: Basic Incident Command System for Initial Response	12/23/2020	4.0
8688	Slips, Trips, and Falls Training for Water and Wastewater Operators	1/25/2021	1.0
3165	Cross Connection Control - Transition to States	1/26/2021	1.0
8687	Cold Stress Safety Training for Water and Wastewater	1/26/2021	1.0
8360	IS-100.C: Introduction to the Incident Command System, ICS 100	2/1/2021	2.0
8003	Customer Service Online CSO-101	2/1/2021	3.0
8674	Ammonia Safety Training for Water and Wastewater	4/29/2021	1.5
7861	Electrical Competency Training - Level 1	10/5/2021	6.0

Total Contact Hours: 28.0

Note: You have completed the DEP-required system security course.

Water Certification Courses

199548 MICHELLE CAVALLO
211 W FAIRMONT AVE
NEW CASTLE, PA 16105-1909

Friday, March 4, 2022 1:19:41 PM

Cycle Start Date: 4/1/2021

Certification Expires: 3/31/2024

Course ID	Course Name	Completion Date	Contact Hours
8674	Ammonia Safety Training for Water and Wastewater	4/29/2021	1.5
7830	Dam Safety training-Inspection, Operation and Maintenance	9/2/2021	4.0
7861	Electrical Competency Training - Level 1	10/5/2021	6.0

Total Contact Hours: 11.5

Note: You have completed the DEP-required system security course.

Commonwealth of Pennsylvania

Department of Environmental Protection

*In accordance with the
State Board for Certification of Water and Wastewater Systems Operators
and the Regulations of the
Department of Environmental Protection*


DAVID O BOHLANDER

Is Hereby Authorized to Operate
WASTEWATER SYSTEM
Class: A,E, Wastewater
Subclass: 1,2,3,4,5

Client ID: 288704

**DAVID O BOHLANDER
553 CORBETT LN
CLARION PA 16214-7011**

Issue Date Jan 1, 2021
Expiration Date Dec 31, 2023



Board Chairman

Certificate No. S17076

EarthWise Academy Transcript

Wastewater Certification Courses			
288704 DAVID BOHLANDER 553 CORBETT LN CLARION, PA 16214-7011		Friday, March 4, 2022 2:38:27 PM	
Cycle Start Date: 1/1/2021		Certification Expires: 12/31/2023	
Course ID	Course Name	Completion Date	Contact Hours
8688	Slips, Trips, and Falls Training for Water and Wastewater Operators	1/25/2021	1.0
8687	Cold Stress Safety Training for Water and Wastewater	1/26/2021	1.0
3163	Environmental Spills and Release Reporting Procedure	3/3/2021	1.0
8831	Preventing Injuries from Atmospheric Hazards (Respiratory Protection & Fit Testing Training)	8/25/2021	2.5
8535	K-9 Awareness for Drinking Water and Wastewater Operators	8/25/2021	1.0
7861	Electrical Competency Training - Level 1	10/5/2021	6.0
Total Contact Hours:			12.5
Note: You have completed the DEP-required system security course.			

ATTACHMENT G
TOOL AND EQUIPMENT LIST

**PAWC PAINT-ELK WASTEWATER
2021 WASTEWATER TREATMENT PLANT EQUIPMENT INVENTORY**

LOCATION	EQUIPMENT AND TOOLS
CONTROL BUILDING	HOT TAP MACHINE
CONTROL BUILDING	25' 5/8" GARDEN HOSE (X2)
CONTROL BUILDING	GOULDS DITCH PUMP #EPO411A
CONTROL BUILDING	AIR TANK 5 GALLON
CONTROL BUILDING	25' AIR HOSE
CONTROL BUILDING	DAYTON HAND TRUCK
CONTROL BUILDING	COLEMAN COOLER
CONTROL BUILDING	6' ALUMINUM LADDER
CONTROL BUILDING	5 TON BOTTLE JACK
CONTROL BUILDING	YALE 1/2 TON CHAIN FALL
CONTROL BUILDING	2" SQUARE TUBE HITCH MOUNT BOOM
CONTROL BUILDING	GOLDAK LOCATOR
CONTROL BUILDING	CHLORINE EMERGENCY REPAIR KIT
CONTROL BUILDING	LAMOTTE COLOIMETER
CONTROL BUILDING	HACH PH METER
CONTROL BUILDING	HACH MODEL HQ 30D DO METER
CONTROL BUILDING	LAWN TRAILER
CONTROL BUILDING	SPACE HEATER (X5)
CONTROL BUILDING	TRIPOD WINCH RECOVERY SYSTEM
CONTROL BUILDING	65 GALLON POLY TANK
CONTROL BUILDING	3/4" MILWAUKEE DRILL
CONTROL BUILDING	HONDA SNOW BLOWER
CONTROL BUILDING	JOHN DEERE GATOR WITH PLOW/SPREADER
CONTROL BUILDING	FLUKE 175 MULTIMETER
CONTROL BUILDING	MISC HAND TOOLS AND VALVE WRENCHES
CONTROL BUILDING	LUFKIN MEASURING WHEEL
CONTROL BUILDING	15' SLUDGE JUDGE
CONTROL BUILDING	LOCKOUT TAGOUT KIT
CONTROL BUILDING	PROTO TOOL CHEST
CONTROL BUILDING	WESTWARD 16 PC COMBO WRENCH SET-SAE
CONTROL BUILDING	WESTWARD 16 PC COMBO WRENCH SET-METRIC
CONTROL BUILDING	WESTWARD 3/8" DRIVE SOCKET WRENCH SET- SAE/METRIC
CONTROL BUILDING	WESTWARD 1/2" DRIVE SOCKET WRENCH SET- SAE/METRIC
CONTROL BUILDING	WESTWARD 3/4" SOCKET WRENCH SET- SAE
CONTROL BUILDING	WESTWARD 3/4" SOCKET WRENCH SET- METRIC
CONTROL BUILDING	WESTWARD 3/8"- 1/2" HEX BIT SET
CONTROL BUILDING	WESTWARD RATCHETING BOX END WRENCH SET-SAE
CONTROL BUILDING	WESTWARD 1.5-2" COMBINATION WRENCHES
CONTROL BUILDING	15" CRESCENT WRENCH
CONTROL BUILDING	12" CRESCENT WRENCH
CONTROL BUILDING	10" CRESCENT WRENCH
CONTROL BUILDING	24" PIPE WRENCH
VARIOUS	24" LIFE RING (X12)
CONTROL BUILDING	SensilON pH meter
CONTROL BUILDING	Hach DO meter + probe
CONTROL BUILDING	Fireproof Cabinet
CONTROL BUILDING	SCADA Cabinet

ATTACHMENT H
COLLECTION SYSTEM SUMMARY TABLE

Pennsylvania American Water - Paint-Elk Wastewater System Collection System Summary

	2014	2015	2016	2017	2018	2019	2020	2021	TOTALS
Sanitary Sewer Overflows and bypasses	0	0	0	2	3	0	0	0	5
Basement flooding/back-up	0	0	0	0	0	5	0	0	5
Sanitary sewer blockage	1	1	0	1	1	4	0	2	10
Sanitary sewer pipe breaks	0	0	0	0	0	0	0	0	0
Service lateral blockages	0	0	0	0	1	1	0	0	2
Service lateral breaks	0	0	0	0	0	0	0	0	0
Service complaints	4	1	0	1	2	10	0	0	18
Sewer Mains (LF)									
Rehab (lining or pipe bursting)	0	0	0	0	0	0	0	0	0
Replace	0	0	0	2,803	750	2,644	1,498	1,072	8,767
Smoke Testing	0	0	0	0	0	0	0	0	0
Cleaning	0	0	0	0	0	0	0	0	0
CCTV	0	0	61,457	0	0	2,583	3,440	0	67,480
New (Extensions)	0	0	0	8,300	0	0	0	0	8,300
Manholes (EA)									
Rehab	0	0	0	1	0	0	0	5	6
Replace	0	0	0	10	3	15	18	5	51
New Install	0	0	0	6	6	1	2	6	21
Service laterals (EA)									
Replace	1	0	0	1	1	36	18	5	62
New	1	0	0	0	0	0	2	2	5

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-9. Please provide the permitted treatment capacity and maximum month flow of PAWCWD’s Paint-Elk Wastewater Treatment Plant.

Response: The permitted Design Hydraulic Capacity is .600 million gallons per day (“MGD”) and the maximum month flow as of May 2021 was .306 MGD.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-10. Please provide a copy of the DEP-approved Water Quality Management Parts I and II permits for the SR 208 North Lift Station.

Response: This project only requires a Part II Water Quality Management Permit. Please see this permit attached as **Attachment A-10**.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

**Application of Pennsylvania-American Water Company
for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Treatment Service
to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania**

Attachment A-10

**Water Quality Management Permit of Pennsylvania-American Water Company for
SR 208 North Lift Station**

September 11, 2019

Jed Fiscus
PA American Water Co.
425 Waterworks Road
Clarion, PA 16214

Re: WQM Permit - Sewage
Paint Elk STP
Permit No. 1619403
Authorization ID No. 1275061
Paint Township, Clarion County

Dear Mr. Fiscus:

Your Water Quality Management (WQM) permit is enclosed. You must comply with all Standard and Special Conditions attached to this Permit. Construction must be done in accordance with the permit application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

Please note that you are responsible for securing all other required permits, approvals and/or registrations associated with the project, if applicable, under Chapters 102 (erosion and sedimentation control), 105 (stream obstructions and encroachments) and 106 (floodplains) of DEP's regulations. Construction may not proceed until all other required permits have been obtained.

Enclosed is the "Water Quality Management Post Construction Certification" form. A Pennsylvania-registered Professional Engineer must sign and complete this form prior to startup of the facilities. You or your authorized representative must also sign the form. This certification and other post-construction documentation must be submitted to DEP within 30 days of completion of the project and must be received by DEP prior to commencing operation of the facilities.

Please be advised that the authority granted in this permit will, if not specifically extended, cease and be null and void two years from the issuance date of this permit unless construction has begun on or before the second anniversary of the permit date.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Mr. Jed Fiscus

- 2 -

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

During construction or upon completing construction, please contact Emily Bach at 814.332.6938 or ebach@pa.gov so that an inspection of the facilities may be conducted, at DEP's discretion.

Sincerely,

A handwritten signature in blue ink, appearing to read "John A. Holden".

John A. Holden, P.E.
Environmental Program Manager
Clean Water Program

Enclosures

cc: Gwin Dobson & Foreman Inc.



WATER QUALITY MANAGEMENT PERMIT

<p>A. PERMITTEE (Name and Address): CLIENT ID#: 87712 PA American Water Co. 425 Waterworks Road Clarion, PA 16214</p>	<p>B. PROJECT/FACILITY (Name): Paint Elk STP</p>	
<p>C. LOCATION (Municipality, County): SITE ID#: 251999 Paint Township, Clarion County</p>		
<p>D. This permit approves the construction and operation of sewage facilities consisting of: Replacement of four lift stations including: Maple Drive Lift Station, SR 208 North Lift Station, SR 66 North Lift Station, and Riverhill Lift Station. New forcemain will also be installed from the lift stations to the connection points of the existing lines and some interconnecting gravity sewer. The complete replacement of all four existing lift stations includes: new pumps, wetwells, controls, electrical equipment, emergency generators, access road improvements, site fencing, SCADA, and interconnecting forcemain and gravity sewer. Riverhill generator will be reusing the existing generator.</p>		
<p>Pump Station: <u>SR 208 North Lift Station</u> Design Capacity: <u>100</u> GPM</p>	<p>Pump Station: <u>Maple Drive Lift Station</u> Design Capacity: <u>140</u> GPM</p>	<p>Sewage Treatment Facility: Annual Average Flow: ----- MGD Design Hydraulic Capacity: ----- MGD Design Organic Capacity: ----- lb/day</p>
<p>Pump Station: <u>SR 66 North Lift Station</u> Design Capacity: <u>200</u> GPM</p>	<p>Pump Station: <u>River Hill Lift Station</u> Design Capacity: <u>200</u> GPM</p>	
<p>E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:</p> <ol style="list-style-type: none"> New Permits: All construction, operations and procedures shall be in accordance with the Water Quality Management Permit application dated May 15, 2019, its supporting documentation and addendums dated June 26, 2019, which are hereby made a part of this permit. Permit Conditions Relating to Sewerage are attached and made part of this permit. 		
<p>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</p> <ol style="list-style-type: none"> If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 <i>et seq.</i> Issuance of this permit shall not relieve the permittee of any responsibility under any other law. 		
<p>PERMIT ISSUED: SEP 11 2019</p>	<p>BY: John A. Holden, P.E. TITLE: Clean Water Program Manager Northwest Regional Office</p>	



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

PERMIT CONDITIONS RELATING TO SEWERAGE
For use in Water Quality Management Permits

(Check boxes that apply)

General

- 1. The Department of Environmental Protection (DEP) considers the licensed Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
- 2. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
- 3. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
- 4. The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
- 5. When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
- 6. The approval of the plans, and the authority granted in this permit, if not specifically extended, shall cease and be null and void 2 years from the issuance date of this permit unless construction or modification of the facilities covered by this permit has begun on or before the second anniversary of the permit date.
- 7. If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
- 8. If, after the issuance of this permit, DEP approves a municipal sewage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
- 9. This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
- 10. This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
- 11. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in the NPDES Permit and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.

Construction

- 12. This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the applicability of additional permits.

- 13. The facilities shall be constructed under the supervision of a Pennsylvania licensed Professional Engineer in accordance with the approved reports, plans and specifications.
- 14. A Pennsylvania licensed Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using the "Post Construction Certification" form (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. As-built drawings, photographs (if available) and a description of all deviations from the application and design plans must be submitted to DEP within 30 days of certification.
- 15. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
- 16. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.

Operation and Maintenance

- 17. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
- 18. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
- 19. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
- 20. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
- 21. The sewerage facilities shall be properly operated and maintained to perform as designed.
- 22. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
- 23. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, *et seq.* shall operate the sewage treatment plant.
- 24. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
- 25. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
- 26. All connections to the approved sanitary sewers must be in accordance with the official Act 537 Plan and, if applicable, a corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
- 27. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.

3800-PM-WSFR0179a 9/2005
Post Construction Certification
 COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER

**WATER QUALITY MANAGEMENT
 POST CONSTRUCTION CERTIFICATION**

PERMITTEE IDENTIFIER	
Permittee	PA American Water Co.
Municipality	Paint Township
County	Clarion
WQM Permit No.	<u>1619403</u>
Facility Type	Sewage
All of the above information should be taken directly from the Water Quality Management Permit.	
CERTIFICATION	
<p>This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.</p>	
<p>I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.</p>	
Construction Completion Date (MM/DD/YYYY): _____	
Engineer' s Seal	Professional Engineer
	Name _____ (Please Print or Type)
	Signature _____
	Date _____
	License Expiration Date _____
	Firm or Agency _____
	Telephone _____
	Permittee or Authorized Representative
	Name _____ (Please Print or Type)
	Signature _____
	Title _____
	Telephone _____

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of
the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an
Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-11. Please indicate whether Elk Township has a mandatory sewer connection ordinance that applies to the Application's requested territory.

Response: Elk Township does not have a mandatory sewer connection ordinance.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-12. Please indicate whether PAWC-WD and/or Elk Township will require the installation of grinder pumps by customers in the Application’s requested territory. If Elk-Township has a mandatory grinder pump ordinance, provide a copy of the approved grinder pump ordinance.

Response: Elk Township does not have a grinder pump ordinance. Customers will not be required to install grinder pumps.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-13. Please state whether PAWC-WD has adequate wastewater collection, conveyance treatment and disposal capacities to meet present and future customer demands in the Application’s requested territory.

Response: Yes, PAWC maintains adequate wastewater collection, conveyance treatment and disposal capacities to meet present and future customer demands.

Responsible Witness: Michelle Cavallo, Senior Supervisor Operations (Clarion WW)
Pennsylvania-American Water Company

Date: May 13, 2022

Application of Pennsylvania-American Water Company – Wastewater Division for Approval of the Right to Offer, Render, Furnish and Supply Wastewater Service to the Public in an Additional Portion of Elk Township, Clarion County, Pennsylvania

Docket No. A-2022-3030364

A-14. Please explain how approval of the Application would benefit existing PAWC-WD customers.

Response: Approval of this application will result in more customers being connected to PAWC's water system without increasing capital or operating expenses. An increase in customers along this system will allow PAWC to divide the operating costs among more customers and keep rates lower for all PAWC customers.

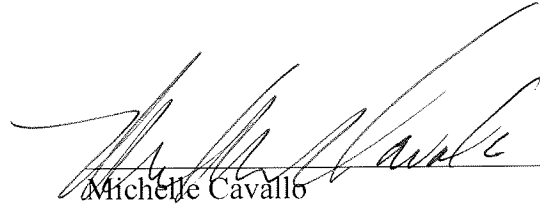
Responsible Witness: Stacey Gress, Director – Rates and Regulatory
American Water Works Service Company

Date: May 13, 2022

VERIFICATION

I, MICHELLE CAVALLO, hereby state that the facts above set forth in the attached Responses to Data Requests are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.

5/11/2022
Date



Michelle Cavallo
Senior Supervisor Operations
Pennsylvania-American Water Company

VERIFICATION

I, Stacey Gress, hereby state that the facts above set forth above are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.



Stacey Gress, Director Rates and Regulatory
American Water Works Service Company

Dated: 5/13/2022

VERIFICATION

I, BENJAMIN J. GLADIS, hereby state that the facts above set forth in the attached Responses to Data Requests are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.

5/12/2022

Date

Benjamin Gladis

Benjamin J. Gladis
Senior GIS Analyst
Pennsylvania-American Water Company

VERIFICATION

I, JED A. FISCUS, hereby state that the facts above set forth in the attached Responses to Data Requests are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.

5-11-22

Date



Jed A. Fiscus, P.E.
Engineering Manager, Northwest PA
Pennsylvania-American Water Company