



July 29, 2022

Electronically Filed
Rosemary Chiavetta, Secretary
PA Public Utility Commission
Keystone Bldg., 2nd Floor
400 North Street Harrisburg, PA 17120

Re: Pittsburgh Water and Sewer Authority Quarterly Compliance Plan Progress Report Consolidated Docket Numbers: M-2018-2640802 (water), M-2018-2640803 (wastewater), P-2018-3005039 (wastewater)

Dear Secretary Chiavetta:

Enclosed please find the Pittsburgh Water and Sewer Authority ("PWSA") Compliance Plan Quarterly Update Report for the Second Quarter of 2022. This Report is being filed pursuant to the Commission's March 26, 2020 Opinion and Order entered at the above referenced docket numbers which addressed compliance issues regarding PWSA's transition to the Commission's jurisdiction effective April 1, 2018 pursuant to 66 Pa. C.S. §§ 3201-3209.

As part of its reporting requirements, PWSA has prepared an update on each of the areas where it is required to provide information and compiled them in a standard format. These areas include Operations, Billing and Customer Service, Lead, Infrastructure/Engineering, Finance and Accounting, and Contractual/Other Issues. Each section addresses the requirements associated with: (1) the Partial Settlement approved pursuant to the March 26, 2020 Opinion and Order (also referred to as the "Master List of Stipulations"); (2) PWSA's Revised Compliance Plan as filed April 27, 2020; and (3) the Settlement of PWSA's 2020 rate case approved on December 3, 2020 at Docket Nos. R-2020-3017951 and R-2020-3017970.

Sincerely,

William J. Pickering

William Pickering, Chief Executive Officer

CERTIFICATE OF SERVICE

I hereby certify that this day I served a copy of PWSA's Quarterly Compliance Plan Report upon the persons listed below in the manner indicated in accordance with the requirements of 52 Pa. Code Section 1.54.

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July 29, 2022

Pittsburgh Water and Sewer Authority
PUC Quarterly Update Report
Q2 2022



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1. Operations

Operations activities are those that involve operations and maintenance (O&M) in the water, wastewater, and stormwater systems. This includes O&M activities at the Aspinwall Water Treatment Facility, as well as O&M activities in the water transmission, storage and distribution systems and the wastewater/stormwater collection and conveyance systems.

a. Compliance Plan Supplement Requirements

The Compliance Plan Supplement addresses topics including hydrant replacement, leak detection, valve maintenance, metered service, meter testing/replacement, operational effectiveness, and an expanded use of mobile work, as shown in Table 1. This section lays out each of the requirements that PWSA has committed to meeting, as well as a progress update and/or plan for achieving the PUC's standards. Below the table is a narrative describing each task yet to be completed. Completed tasks are also shown in Appendix A.

Table 1: Compliance Plan Supplement Requirements - Operations

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
Replace one hundred hydrants per year.	On-going	A total of 59 Hydrants were replaced in 2022.

i. Replace one hundred hydrants per year

PWSA agreed to replace one hundred hydrants per year. The replacement program is focused on removing older models from service on larger diameter mains. PWSA has replaced a total of 59 in 2022. The work associated with this task is being completed using both contractors and in-house staff. Hydrant replacements are coordinated with the small diameter main replacement program so that new hydrants are installed on new mains that replace older 4- and 6-inch mains that provide inadequate flow and/or pressure. Hydrant inspections continue to exceed previous year totals.

2. Billing/Customer Service

Many of the PUC's requirements relating to Billing and Customer Service fall under Chapter 56 of Title 52, which was created to establish and enforce "uniform, fair, and equitable residential public utility service standards." PWSA has already taken considerable steps to ensure Billing and Customer Service compliance, and many of the initiatives agreed to in the Master List of Stipulation Requirements, Tariff Settlement, Compliance Plan or the Compliance Plan Supplement have already been completed.

a. Master List of Stipulation Requirements

The Master List of Stipulation Requirements was developed in July 2019 in response to feedback from the Parties and to codify additional reporting requirements for PWSA. Table 3 highlights these additional reporting requirements.

Table 3: Billing/Customer Service Requirements from the Master List of Stipulations

Task	Timeline (if specified in the Master List of Stipulations)	Progress to Date
Commitments from motion to move issues from Stage 1 to Stage 2	On-going	On-Target (Moved to Stage 2); "Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections" was filed with the Commission on April 9, 2021; and two all party workshops were held in June 2021. The Commission filed their Report and Directed Questions on August 5, 2021. The parties worked with the ALJ to develop a litigation schedule, and PWSA's Direct Testimony was filed on October 15, 2021. PWSA's Rebuttal Testimony was filed on January 21, 2022. On March 14, 2022, the parties filed a Joint Petition for Settlement Stage 2 Customer Service and Collections Issues. The Recommended Decision from the Administrative Law Judge is due on May 25, 2022. On May 18, 2022, ALJ's Vero and Chiodo issued a Recommended Decision to adopt the Settlement without modification. On July 14, 2022, the Commission voted to adopt the Recommended Decision of ALJ's Vero and Chiodo. Customer Service is working to execute the commitments of the Settlement, which are due 135 days from the Order date.
56.94 and 56.336 – Interim personal contact procedures immediately prior to termination	Quarterly Progress Reports	On-Target (Moved to Stage 2); "Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections" was filed with the Commission on April 9, 2021. An updated draft RFP, including revisions based on feedback from OCA, was delivered to all parties for review on June 29, 2021. The final RFP was issued by PWSA on August 5, 2021. PWSA is in contract negotiations with the sole, responsible bidder. An agreement with Cosmos Technologies, Inc. is in place, and Cosmos has been performing personal contact at the time of termination since December 7, 2021.

i. Commitments from Motion to Move Issues from Stage 1 to Stage 2

Per the Commission's directive, the following issues were moved to Stage 2 of the Compliance Plan process:

- The language, format, and method of providing suspension and termination notice pursuant to Chapter 14 of the Public Utility Code and Chapter 56 of the Commission's regulations;
- PWSA's compliance with the Discontinuance of Services to Leased Premises Act (DSLPA) ;
- PWSA's plan for collections; to include strategies to reduce overall delinquencies and to ensure collections practices for residential customers are consistent with legal requirements; and
- Personal contact: Per further discussion with the parties, PWSA will: (1) evaluate adding additional information in the quarterly report in line with the examples set forth in Section III.MM.2.a.iii.b of the Stage 1 Compliance Plan Settlement Agreement; (2) assess whether hiring a third party contractor to knock on the door might be a viable option; and, (c) will

attempt to specifically reach out to other Pittsburgh utilities to see if they can provide information about how they address safety concerns related to knocking on the door for the termination process.

“Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections” was filed with the Commission on April 9, 2021.

The Commission filed their Report and Directed Questions on August 5, 2021.

PWSA’s Direct Testimony was filed on October 15, 2021.

PWSA’s Rebuttal Testimony was filed on January 21, 2022.

On March 14, 2022, the parties filed a Joint Petition for Settlement Stage 2 Customer Service and Collections Issues. The Recommended Decision from the Administrative Law Judge is due on May 25, 2022.

On May 18, 2022, ALJ’s Vero and Chiodo issued a Recommended Decision to adopt the Settlement without modification. On July 14, 2022, the Commission voted to adopt the Recommended Decision of ALJ’s Vero and Chiodo. Customer Service is working to execute the commitments of the Settlement, which are due 135 days from the Order date.

ii. Interim personal contact procedures

As part of its COVID-19 pandemic response, PWSA had extended the moratorium on shut-off’s for residential customers regardless of income. In June 2021, PWSA began to make personal telephone contact attempts to residential customers with past due balances, encouraging them to enter into income-based payment plans and to enroll in one or more of its enhanced customer assistance programs. Per a directive of the Executive Committee of the PWSA Board of Directors, PWSA may not issue a termination notice to a residential customer without first making an attempt at personal telephone contact, including the offering of payment arrangements and customer assistance programs. As of May 2, 2022, the personal telephone contact requirement was lifted, and Collections Life Cycle activities resumed as normal.

Table 4: Compliance Plan Requirements- Interim Personal Contact Process Results

	April 2022	May 2022	June 2022
Personal Contact Attempts	103	128	146
Terminations Completed	53	74	85
Terminations Placed on Hold Due to Personal Contact	22	37	31
Terminations Not Completed Due to Curb Box Issues	24	14	24

b. Compliance Plan Supplement Requirements

The Compliance Plan Supplement addresses topics including informal complaints, bill changes, use of collection services, customer service metrics, and creating/working with the LIAAC as shown in Table 5. This section lays out each of the requirements that PWSA has committed to meeting, as well as a progress update and/or plan for achieving the PUC’s standards. Below the table is a narrative discussion of each task that has yet to be completed. Tasks associated with the Compliance Plan Supplement that were completed in prior reporting periods are shown in Appendix A.

Table 5: Compliance Plan Supplement Requirements – Billing/Customer Service

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
Work with the parties to determine an appropriate informal complaint tracking information review process.		On-Target (Moved to Stage 2); "Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections" was filed with the Commission on April 9, 2021; and two all party workshops were held in June 2021. The Commission filed their Report and Directed Questions on August 5, 2021. The parties worked with the ALJ to develop a litigation schedule, and PWSA's Direct Testimony was filed on October 15, 2021. PWSA's Rebuttal Testimony was filed on January 21, 2022. On March 14, 2022, the parties filed a Joint Petition for Settlement Stage 2 Customer Service and Collections Issues. On May 18, 2022, Administrative Law Judge's Vero and Chiodo issued a Recommended Decision to adopt the Settlement without modification. On July 14, 2022, the Commission voted to adopt the Recommended Decision of ALJ's Vero and Chiodo. Customer Service is working to execute the commitments of the Settlement, which are due 135 days from the Order date.
Make the changes identified in Paragraphs III.1.1 through III.10 of the Settlement consistent with the timeframes established by the final order in this proceeding and provide a copy of the changes to the LIAAC.		The following are complete with a portion of (c) on-going: <ul style="list-style-type: none"> • Improved outreach and messaging for programs (a); • Launched a social media campaign (b); • Designed a comprehensive arrearage forgiveness component to address arrears at the time of enrollment, scheduled to launch with the SAP go-live in August 2022 (c); • Assessed applicable data (d); • PWSA launched two campaigns to fund the Hardship Grant in December 2020; an internal campaign to its employees, and an external campaign to its customers (e); • Exploring issues related to the structure of the Hardship Grant program (f); • Reviewed changes to PWSA customer service policies and procedures (g); and • Funding BDP with separate budgets for water and wastewater (h).

i. **Work with the parties to determine an appropriate informal complaint tracking information review process**

On target to be addressed during Stage 2 of the Compliance Plan. "Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections" was filed with the Commission on April 9, 2021. PWSA was hopeful for direction on this subject following the two all party workshops held in June 2021. However, the Commission filed their Report and Directed Questions on August 5, 2021. The parties worked with the ALJ to develop a litigation schedule, and PWSA's Direct Testimony was filed on October 15, 2021. PWSA's Rebuttal Testimony was filed on January 21, 2022. On March 14, 2022, the parties filed a Joint Petition for Settlement Stage 2 Customer Service and Collections Issues. On May 18, 2022, the Administrative Law Judge's Vero and Chiodo issued a Recommended Decision to adopt the Settlement without modification. On July 14, 2022, the Commission voted to adopt the Recommended Decision of ALJ's Vero and Chiodo. Customer Service is working to execute the commitments of the Settlement, which are due 135 days from the Order date.

- ii. Make the changes identified in Paragraphs III.1.1 through III.10 of the Settlement consistent with the timeframes established by the final order in this proceeding and to provide a copy of the changes to the LIAAC

PWSA has completed the changes identified in Paragraphs III.1.1 through III.10 of the Settlement, consistent with the timeframes established by the final order in this proceeding. The changes that have been made were reviewed with the LIAAC and are contained within archived presentations to the committee. As of this quarter, the only outstanding item is a portion of “c” that is on-going.

c. Compliance Plan Requirements

For PWSA’s customer service and billing areas, the Compliance Plan addresses topics including the bill redesign, plain language requirements, and translation assistance for shut-offs (Table 6). This section lays out each of the remaining billing and customer service requirements for PWSA, as well as a progress update and/or plan for achieving the PUC’s standards. Tasks that were completed and reported in previous updates have been moved to Appendix B.

Table 6: Compliance Plan Requirements – Billing and Customer Service

Task	Timeline (if specified in the Compliance Plan)	Progress to Date
56.81-56.118 and 56.321-56.358 - Meet plain language requirements for shut-off notices. (Now moved to Stage 2 of the Compliance Plan.)		On Target (Moved to Stage 2); “Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections” was filed with the Commission on April 9, 2021; and two all party workshops were held in June 2021. The Commission filed their Report and Directed Questions on August 5, 2021. The parties worked with the ALJ to develop a litigation schedule, and PWSA’s Direct Testimony was filed on October 15, 2021. PWSA’s Rebuttal Testimony was filed on January 21, 2022. On March 14, 2022, the parties filed a Joint Petition for Settlement Stage 2 Customer Service and Collections Issues. On May 18, 2022, ALJ’s Vero and Chiodo issued a Recommended Decision to adopt the Settlement without modification. On July 14, 2022, the Commission voted to adopt the Recommended Decision of ALJ’s Vero and Chiodo. Customer Service is working to execute the commitments of the Settlement, which are due 135 days from the Order date.

- i. 56.81-56.118 and 56.321-56.358 - Meet plain language requirements for shut-off notices

PWSA revised its shut-off notices towards compliance with the plain language requirements. Note that these requirements will now be handled in Stage 2 of the Compliance Plan process. “Stage 2 Compliance Plan: Chapters 14 & 56, DSLPA and Collections” was filed with the Commission on April 9, 2021. The Commission filed their Report and Directed Questions on August 5, 2021. The parties worked with the ALJ to develop a litigation schedule, and PWSA’s Direct Testimony was filed on October 15, 2021. PWSA’s Rebuttal Testimony was filed on January 21, 2022. On March 14, 2022, the parties filed a Joint Petition for Settlement Stage 2 Customer Service and Collections Issues. On May 18, 2022, the Administrative Law Judge’s Vero and Chiodo issued a Recommended Decision to adopt the Settlement without modification. On July 14, 2022, the Commission voted to adopt the Recommended Decision of ALJ’s Vero and Chiodo. Customer Service is working to execute the commitments of the Settlement, which are due 135 days from the Order date.

3. Lead

One of the major focus areas of the Tariff and Compliance Plan Supplement was PWSA's lead remediation program. The following sections lay out the requirements related to lead, as well as the actions that PWSA has already taken or are underway to address this issue.

a. Tariff and Compliance Plan Supplement Requirements

The Compliance Plan Supplement addresses topics including the Community Lead Response Advisory Committee (CLRAC), customer outreach and communication, feasibility analysis, and service line replacement practices as shown in Table 7. This section lays out each of the requirements that PWSA has committed to reporting on a quarterly basis. Below the table is a narrative discussion of each area.

Table 7: Compliance Plan Supplement Requirements – Lead

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
Provide Data on lead service line replacements completed and location of replacements.	Quarterly	Please see the report submitted to PA DEP with these details included in Appendix H.
Results of the Lead Level Testing	N/A	See Table Below.
PWSA will provide information regarding actual replacement costs including quarterly and cumulative year-to-date data.	Quarterly	Replacement costs were \$857,452 for the 2 nd quarter of 2022. These do not include costs for LSLR as part of the Small Diameter Water Main Replacement program.

i. Provide Data on lead service line replacements completed and location of replacements

PWSA prepares and submits reports to the PA Department of Environmental Protection on a quarterly basis that provides data on lead service line replacements, including the number of replacements completed and the locations of these replacements. The latest quarterly report, dated May 13, 2022 is included in Appendix H.

ii. Results of the Lead Level Testing

Results of the Lead Level testing are as follows:

Sample Round	90 th Percentile Sample Result (ppb)
1998	9
1999	2
2000	8
2001	6
2004	9.5
2007	9
2010	10.3
2013	14.8
2016a	22

2016b	18
2017a	15
2017b	21
2018a	10
2018b	20
2019a	17.5
2019b	10
2020a	5.1
2021b	7.05
2022a	4.42

- iii. PWSA will provide information regarding actual replacement costs including quarterly and cumulative year-to-date data

Actual replacement costs for the 2nd quarter of 2022 are \$857,452. These costs do not include service lines replaced as part of the Small Diameter Water Main Replacement Contracts.

The Compliance Plan requirements associated with PWSA's lead remediation program were addressed through the Tariff and Compliance Plan Settlement document.

4. Infrastructure

Infrastructure activities are those that involve capital planning, investment, and installation/renewal in the water, wastewater, and stormwater systems. This includes distribution system master planning, meter installations, capital project cost/projection effectiveness, record keeping, pressure assurance, and design/construction standards updates.

a. Master List of Stipulation Requirements

The Master List of Stipulation Requirements was developed in July 2019 to respond to feedback from the Parties, and to codify additional reporting requirements for PWSA. Table 8 highlights these additional reporting requirements.

Table 8: Infrastructure Requirements from the Master List of Stipulations

Task	Timeline (if specified in the Master List of Stipulations)	Progress to Date
Projected Expenditures	Quarterly	Located in Appendix L
LTIP – Materials, Valves, Prioritization	Quarterly	PWSA is in the process of updating its GIS to facilitate reporting on this data

i. Projected Expenditures

Projected expenditures for open and active projects and details about funding sources are included in Appendix L in the document.

ii. LTIP – Materials Report, Valves, Prioritization

Material, size, and other key attributes of the primary water and sewer assets continue to be updated. As the data becomes available and PWSA's GIS is updated, PWSA will provide a comprehensive materials report and updated information regarding types and sizes of valves in future Compliance Plan Progress Reports. PWSA will also provide additional information regarding the prioritization of valve and main replacements and will notify the parties when its Computerized Maintenance Management System (CMMS) project is implemented.

b. Compliance Plan Supplement Requirements

The Compliance Plan Supplement addresses topics including development of a distribution system master plan, a district metering program, the Highland Membrane Filtration Plant (HMFP)/Highland No. 1 Reservoir, and the cost effectiveness of PWSA's projections, as shown in Table 9. This section lays out each of the requirements that PWSA has committed to meeting, as well as a progress update and/or plan for achieving the PUC's standards. Below the table is a narrative discussion of each area.

Table 9: Compliance Plan Supplement Requirements – Infrastructure

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
Develop and implement district metering program.	2020	A draft district metering plan was provided as part of the Water Distribution System Master Plan. The first phase is to rehabilitate metering at the pump stations. Pump Station metering equipment has been installed. Flow transmitters are currently being calibrated by a third party.
Develop a plan to track cost effectiveness and cost reporting relative to projections.	With future filings	PWSA is monitoring several metrics related to the effectiveness of its cost projections through its eBuilder project management software.
Update on Orthophosphate Program	Quarterly	On Target

i. Develop and implement district metering program

PWSA currently has operational flow meters at the following locations:

- Raw Water Meter: Ross Pump Station Discharge
- Treated Water Meters: Individual filter gallery effluent flow meters
- System Delivery Flow Meters:
 - Aspinwall Pump Station
 - Bruecken Pump Station Highland Reservoir No. 2 (Rising Mains 3 and 4)
 - Fox Chapel Pump Station
- District Meters
 - Highland Reservoir No. 1 60-inch Transmission Line (Meter Number MFP-1)
 - Highland Reservoir No. 1 30-inch Transmission Line (Meter Number MFP-2)
 - Lincoln Pump Station
- System Delivery Flow Meters
 - Bruecken Pump Station Highland Reservoir No. 1 (Rising Mains 1 and 2) - These meters were not able to be reinstated due to issues with the startup of the Membrane Filtration Plant. This meter is still not reinstated, until Rising Main 1 can be taken out of service.
- Pump Station Flow Meters

Additional flow meters will be installed as part of the rehabilitation of the booster chlorination facilities at the discharge of the tanks and reservoirs. Pump Station flow meters will be replaced as part of rehabilitation of the pump stations planned in the 2022 – 2026 Capital Improvement Plan (see Appendix L).

ii. **Develop a plan to track cost effectiveness and cost reporting relative to projections**

PWSA has begun to monitor several metrics related to cost effectiveness and cost reporting relative to its projected capital spending. It is using the eBuilder project management software to track project costs and progress, which allows advanced calculation of performance metrics. Currently, PWSA is tracking project total costs and cash flow relative to budget. PWSA is working on defining additional metrics such as Estimated Cost at Completion (ECAC), schedule variance, change order volume and percentage of total project, etc., and has scheduled a preliminary internal review to receive, review, and address comments. A list of metrics being considered for tracking, as was requested by the PUC and other interested parties is contained in Appendix C.

iii. **Update on Orthophosphate Program**

Construction of four new Orthophosphate Addition Facilities (one each at both the Aspinwall and Bruecken Pump Stations and two at Highland Park Reservoir No. 1) was completed in April 2019. Start-up of the facilities were taken in phases: Bruecken PS was April 1, Aspinwall PS was April 15 and Highland 1 Facilities began April 29, 2019. Full orthophosphate application is underway, and multiple rounds of water quality testing has shown water quality improvements at customers with lead service lines.

The project associated with the construction of the Orthophosphate Addition Facilities is the “Corrosion Control Chemical Storage and Feed Systems” Project, PWSA Project No. 2017-322-107-0. This project was extended in July 2019 to permit the design and construction of modified orthophosphate chemical storage containers at both the Aspinwall Pump Station and Bruecken Pump Station, converting from temporary soft walled poly totes to permanent double-wall storage tanks with exterior fill stations and associated structural improvements (interior and exterior). This modification is typical of the design implemented at the two Highland No. 1 Orthophosphate Storage Sites and is currently in construction. This modification was requested by PWSA Operations to reduce concerns associated with handling and transporting the chemical during refilling and replacing totes at these sites. PWSA received Public Water Supply Construction permit dated April 7, 2022. The first of two tanks at each site have been installed, and the Aspinwall PS tanks have been feeding since July 19, 2022. PWSA is switching over to the tanks at Bruecken Pump Station. However, these pumps will be offline through the end of 2022 due to the Highland No. 2 Reservoir and Rising Main 3 construction. Therefore, the tanks at the Bruecken Pump Station will not be online until early 2023.

c. **Compliance Plan Requirements**

For PWSA’s infrastructure area, the Compliance Plan addresses topics including records management, meeting pressure requirements, metering municipal and flat rate customers, metering all sources of supply, ensuring appropriately sized mains and operable valves, and incorporating the PUC’s design requirements into a formalized design manual (Table 10). Compliance tasks associated with PUC Section 65.8 (Meters – Change-outs) and 65.17 (Standards of Design – Flushing Program) have already been addressed in the Compliance Plan Supplement Requirements. As such, this section lays out each of the remaining infrastructure requirements for PWSA, as well as a progress update and/or plan for achieving the PUC’s standards.

Table 10: Compliance Plan Requirements – Infrastructure

Task	Timeline (if specified in the Compliance Plan)	Progress to Date
65.4 Update GIS with main installation date and material.	by 2021	PWSA is continuing to update GIS attribute information using historic record drawings. Based on the time it takes to complete these updates the project will be substantially complete by late 2022.
65.4 Update GIS with hydrant and valve status.	On-going	On Target
65.4 Organize, store, and input current records backlog into GIS.	On-going	On Target

65.6 Develop an SOP to address areas of high pressure.	by the end of 2019	Addressed by Master Plan, but SOP is to be developed.
65.17 Continue to work on replacing all 4" water mains.	On-going	On Target, to be addressed by Master Plan and Small Diameter Water Main Replacement Program.
65.17 Incorporate the PUC's design requirements, specifications, and standard details into a formalized design manual.	2019 and 2020	Formalized design manual in progress

i. 65.4 - Records

Section 65.4 of Chapter 65 requires that utilities must keep complete maps, plans, or records of their entire distribution systems showing the size, character, and location of each main, street valve, and service line. In meeting this obligation, PWSA Document Management team has developed and introduced policies and procedures for records digitization, standardized indexing, long term maintenance, and efficient retrieval. These policies are now in effect and supported by the ongoing use of a digital document management system provided by Docuware.

Within GIS, attributes such as main installation date, diameter, material, valve location, and hydrant details are being populated on an ongoing basis as record documents continue to be reviewed. PWSA has made significant progress in enabling hyperlinks to the digitized record document file locations established in Docuware. Work will continue indefinitely as new record sets are identified and construction projects are completed. Associated metrics are shown in Appendix C.

ii. 65.6 - Pressures

PWSA is aware of locations within its system where pressure falls below 25 psi. In accordance with Part 4 of the PA DEP October 25, 2017 Administrative Order, PWSA has installed 24 pressure monitoring stations, which monitor and record pressures every 15 minutes, and report on low or loss of pressure by text and email alert. An additional 36 monitoring stations were installed throughout the system for continuous monitoring with one pressure monitor remaining to be installed. PWSA is also aware of areas where pressure exceeds 150 psi and is in the process of developing an SOP to address this issue. Capital projects associated with areas of low pressure will be addressed in the Water Distribution System Master Plan and CIP, and PWSA is on-target to meet the projected timeframes.

iii. 65.17 – Standards of Design

PWSA has updated its standard details and specifications and based on the PUC's standards of design and plans to produce a formalized design manual.

5. Finance, Contractual, and Other Issues

PWSA has already made considerable effort to ensure compliance regarding financial, contractual, and other issues, and many of the initiatives agreed to in the Tariff Settlement, Compliance Plan or the Compliance Plan Supplement have already been completed. The following sections focus on identifying the remaining requirements and highlighting PWSA's progress in each of these areas.

a. Compliance Plan Supplement Requirements

The Compliance Plan Supplement addresses topics including negotiations with the City of Pittsburgh and ALCOSAN, rates for public fire hydrant service, flat rates for unmetered customers, the discount for Pennsylvania American Water customers, as shown in Table 11. This section lays out each of the requirements that PWSA has committed to meeting, as well as a progress update and/or plan for achieving the PUC's standards. Below the table is a narrative discussion of each area. Tasks that were completed and reported on in previous updates have been moved to Appendix A.

Table 11: Compliance Plan Supplement Requirements – Finance, Contractual, and Other Issues

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
Consider the proposal for a flat rate for both water and wastewater for all unmetered and unbilled municipal and government properties or buildings served by PWSA.		On-going
Investigate the allocation of flows to ALCOSAN and other municipalities to determine the feasibility of measuring stormwater separately from wastewater.		On-going
Evaluate the potential ways to address PWSA's contract with ALCOSAN, including renegotiation of the contract.		On-going

i. Consider the proposal for a flat rate for both water and wastewater for all unmetered and unbilled municipal and government properties or buildings served by PWSA

PWSA has begun its consideration of the proposal for a flat rate for both water and wastewater for all unmetered and unbilled municipal and government properties/buildings served by PWSA as part of the rate model for the current tariff filing. PWSA plans to calculate water and wastewater rates for unmetered and/or unbilled municipal properties in the next base rate case.

ii. Investigate the allocation of flows to ALCOSAN and other municipalities to determine the feasibility of measuring stormwater separately from wastewater

Approximately 70% of PWSA's collection system is combined, which prevents the Authority from accurately measuring stormwater and wastewater separately. However, PWSA is investigating the allocation of flows to ALCOSAN and studying the value, maintenance requirements, and use ratios for its shared conveyance system.

iii. Evaluate the potential ways to address PWSA's contract with ALCOSAN, including renegotiation of the contract

PWSA has initiated evaluation of its contract with ALCOSAN and is in the process of identifying opportunities to address existing issues.

b. Compliance Plan Requirements

For PWSA's financial, contractual, and other areas, the Compliance Plan addresses topics including the system of accounts, annual financial reporting requirements, a workforce diversity policy, and emergency response planning and self-certification requirements, as shown in Table 12. This section lays out each of the remaining financial, contractual, and other requirements for PWSA, as well as a progress update and/or plan for achieving the PUC's standards.

Table 12: Compliance Plan Requirements – Finance, Contractual, and Other Issues

Task	Timeline (if specified in the Compliance Plan)	Progress to Date
65.16 System of Accounts	2021	See estimated completion date below
73.5 Service Life Study Report	June 1, 2025	On Target
Capital Lease Agreement	2025	On Target

i. 65.16 - System of Accounts

Section 65.16 mandates that a public utility, having an annual operating revenue of \$750,000 or more shall keep its accounts in conformity with the most recent Uniform System of Accounts for Class A Water Utilities, as prescribed by the National Association of Regulatory Utility Commissioners (NARUC). PWSA has completed its effort to map its current chart of accounts to the NARUC chart of accounts in order to identify existing gaps. A Request for Proposals was issued for an Enterprise Resource Planning (ERP) system and closed on March 19, 2020. PWSA is prepared to file all required reports, and complete installation of an ERP system on or after August 2022.

ii. 73.5 - Service Life Study Report

Section 73.5 stipulates that public utilities with intrastate gross revenues in excess of \$20 million per year shall file a service life study report with the Office of Special Assistants every five years. PWSA met this requirement by filing the Service Life Study Report in June 2020. The next service life study report will be due June 1, 2025.

iii. Capital Lease Agreement

PWSA plans to purchase the system for \$1 when eligible in 2025, unless a new arrangement is negotiated and approved by the Commission in advance of that timeline.

6. Appendix A – Completed Compliance Plan Requirements

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
<i>Operations</i>		
Install a new meter test station for testing 5/8" to 2" meters.	April 2019	Completed
Develop a leak detection program and restructure staff to add more personnel for leak detection.	April 2019	Completed
Hire a private contractor to test meters that are 3" and above on site or at their facility.		Completed. The PWSA Board of Directors awarded this contract to Vanguard on April 26, 2019.
65.8 Develop criteria for when to test meters that have been pulled from service, prior to disposal.	Within 6 months of Compliance Plan Filing	Completed
61.17 Implement a flushing program	2020	Completed. Flushing program has been implemented. Tracking of hydrants flushed and inspected in Spry Mobile.
67.1 Develop a SOP to notify the Commission during periods of unscheduled service interruptions	Within 6 months of Compliance Plan Filing	Completed
Record water used for flushing after main breaks by having crews record the time flushed and flow gauges to record water used.	October 2019	Completed. Recording water lost during the leak has been developed and is in Spry Mobile. Water usage is also being recorded for flushing hydrants during normal operations.
Track the 20 Operating Metrics identified in I&E St. No. 4, p. 5		Completed. PWSA is tracking the 20 Operating Metrics identified in I&E St. No. 4, p. 5. Results of these operating metrics will be shown in Appendix C as data is available.
Develop a plan to track age of customer meters and to test and/or replace meters over 20 years old.		Completed. Plan has been developed; Customer Service is currently tracking installation dates.
65.7 Hire a contractor to assist with inspecting, sizing, and installing meters for municipal and unmetered properties.	2024	Completed. Contractor was hired to assist with inspecting, sizing, and installing meters.
65.11 Develop SOPs, including communications protocols, for periods of mandatory conservation.	2020	Completed. Drought Contingency Plan developed in August 2021
65.8 Add additional plumbers to address 50,000 meters that are overdue for testing/change-out.	Immediately	Completed. Additional plumbers have been hired.
Restructure to support delivery of formal valve operation, flushing, and leak detection programs	April 2019	PWSA has completed its restructuring and met valve inspection and hydrant inspection goals.
65.8 Develop a program to test 10-25% of commercial meters annually.	2022	Completed

69.16 Update Emergency Response Plan SOPs	Within 6 months of Compliance Plan Filing	On-going
<i>Billing/Customer Service</i>		
Conduct a regular review of informal complaint information to determine complaint trends and whether there is a need to implement additional or new internal training policies.		PWSA is regularly reviewing informal complaints to determine trends and the need for further training.
Track whether customer complaints are related to water, sewer, or stormwater.	Monthly	Completed
Suspend the use of Jordan Tax Service, Inc.	With the Commission's final order approving the Settlement	Completed
Track the following metrics: Abandon %, ACD handling time, average speed of answer, CSR attendance, Customer satisfaction, service level % (Appendix E).	Monthly	Completed
Collect and report on requested billing data (Appendix E).		Completed. Data appears in Appendix E of this report.
Provide interested parties and the Commission's Bureau of Consumer Services with a draft of the bill changes for feedback and recommendations.		Completed. The bill draft was provided on March 29, 2019. Responses were provided in April 2019 by OCA, I&E, and Pittsburgh UNITED.
Inform customers of the payment arrangement terms, based on the consumer's ability to pay upon contact with the customer, and offer payment arrangements as permitted by Chapter 14.		Completed. Informal practices in this area have been formalized to demonstrate compliance.
Form a Low-Income Assistance Advisory Committee.	Meetings should occur at least quarterly	Completed
Revise Bill Discount Program rate to provide for a 75% discount on the minimum water and/or wastewater charge for customers with income at or below 150% of the federal poverty level.		Completed, and effective as of March 1, 2019.
56.11-56.25 and 56.261-56.275 - Complete bill redesign project.		Completed as of June 3, 2020

Submit a detailed Plan that outlines the program parameters for each of its low-income assistance programs.	Next Base Rate Proceeding	Completed as of the September 23, 2019 LIAAC meeting
PWSA Affordability Analysis		Completed as of December 15, 2019
Track the following metrics: Abandon %, ACD handling time, average speed of answer, CSR attendance, Customer satisfaction, service level % (Appendix E).	Monthly	Completed
Expand the use of the SpryPoint Mobile app.		Completed as of go live on January 14, 2020
PWSA Affordability Analysis		Completed as of December 15, 2019

Suspend the use of Jordan Tax Service, Inc.	With the Commission's final order approving the Settlement	Completed as of June 30, 2019
Track whether customer complaints are related to water, sewer, or stormwater.	Monthly	Completed
Expand the use of SpryMobile app		Completed as of go-live January 14, 2020
Track the following metrics: Abandon %, ACD handling time, average speed of answer, CSR attendance Customer satisfaction, service level % (Appendix D).	Monthly	Completed. Data is in Appendix E of this report
56.11-56.25 and 56.261-56.275 - Complete bill redesign project.		Completed as of June 3, 2020
BCS input on PWSA CAP Program	Next base rate case	Rate case settlement filed on September 30, 2020; Commission-approved rates went into effect at PWSA on January 14, 2021, including numerous enhancements to the customer assistance programs.
Commission development of a "Model Water CAP Design"		Commission-approved rates went into effect at PWSA on January 14, 2021, including numerous enhancements to the customer assistance programs.
Provide water meters for each DPW division and have them installed on hydrants	October 2019	Completed. PWSA assigned 12 meters to DPW to track water usage.
Conduct a regular review of informal complaint information to determine complaint trends and whether there is a need to implement additional or new internal training policies.		PWSA is regularly reviewing informal complaints to determine trends and is responding with process adjustments and/or further training. Based on BCS feedback, PWSA kicked-off a Call Quality Initiative in October 2020, including increased live monitoring, coaching of staff, and the implementation of after call surveys effective December 18, 2020. After call customer survey data for the first quarter of 2021 was provided to the Commission as an exhibit to the Stage 2 Compliance Plan filing on April 9, 2021.
Collect and report on requested billing data (Appendix D)	Quarterly	Reporting found in Appendix D.
Fund BDP program using revenues collected from approved rates in the tariff filing.		On-going
Customer outreach	On-going	PWSA participates in upwards of 100 community meetings annually. The PGH2O Cares team was approved by the Commission in PWSA's 2020 rate case and was launched with enhanced outreach efforts as of February 15, 2021. Please refer to the presentations to the Low Income Assistance Advisory Committee (LIAAC). The Cares team has participated in virtual community outreach meetings, has garnered the ability to enroll customers into the assistance programs, and has increased customer enrollment numbers in the Bill Discount Program (BDP).

<i>Infrastructure</i>		
65.14 Reestablish operability of meters at each source of supply and install an additional meter at Fox Chapel Station.	2019	Completed
Develop a Water Distribution System Master Plan to address master metering, non-revenue water, and include an AWWA Water Audit based on available data	2019-2020	Final Report was completed in February 2020
LTIP – Customer Owned Lead Service Lines		Completed
LTIP – Workforce Development		Completed
LTIP – Construction Coordination with Other Utilities and Municipalities		Completed
LTIP – Distribution System Improvement Charge (DSIC)	Next base rate case	Completed on January 14, 2021 at 5%.
A cost/benefit analysis comparing continuing to operate the HMFP instead of covering and placing a physical barrier around Highland No. 1 Reservoir.	With the next base rate filing	Completed
Selection Processes and Existing Contractors	Annually	Completed in June 2020
Provide a detailed cost breakdown of actual and projected operating and capital costs on a calendar year basis incurred and estimated to be incurred to operate the HMFP.	Starting within 30 days of the signature date of the Settlement and quarterly thereafter	Completed. See Appendix G.
65.7 Secure a contractor to assist with inspection, sizing, and installation of meters and associated equipment for municipal buildings and flat rate customers.	2024	Completed. Contractor has been secured. As of Sept 2021, there are 9 municipal accounts to be metered.
Construction Project Tracking and Evaluation	November 12, 2019	PWSA has developed and validated a list of proposed metrics
65.18 Complete the development of a comprehensive flushing program.	Starts in 2018	Completed. PWSA has developed a comprehensive flushing program
65.18 Review the existing system to ensure ample valves.	Starts in 2018	Completed
65.18 Increase the number of valves inspected and operated per year.	2019	PWSA developed a valve inspection program and is tracking the valves operated in Spry Mobile.
65.4 Develop a series of SOPs for records filing, records updates in GIS, and records retrieval.	Within 6 months	Completed
<i>Lead</i>		
Form a Community Lead Response Advisory Committee (CLRAC).	Initiated within 30 days of Settlement Agreement	The first quarterly meeting was held January 8, 2019, and subsequent meetings occurred on February 6, 2019, March 4, 2019, April 24, 2019, June 3, 2019, August 12, 2019, September 24, 2019, and December 10, 2019. Meetings have occurred quarterly in March, June, September and December each year since.
Make best efforts to send a letter notifying the resident and property owner of the results of a curb box inspection.	Within 90 days of the completion of the inspection, but no later than 120 days	Completed
Make all historical service line records available for public viewing on website.	Within 90 days of effective date of rates	Completed in early January 2019.

Analyze per-line costs for replacing lead service lines.	Within 90 days of effective date of rates	This information was presented to CLRAC on April 24, 2019.
Develop an outreach program to notify customers of their eligibility for free filters, including at a minimum, a letter or bill insert.	Within 90 days of effective date of rates	Completed
Make best efforts to send a letter notifying the resident and property owner of the results of a curb box inspection.	Within 90 days of the completion of the inspection, but no later than 120 days	Completed
Make all historical service line records available for public viewing on website.	Within 90 days of effective date of rates	Completed
Continue to make a good-faith effort to secure an agreement with PennVEST enabling it to obtain customer consent for private-side lead service line replacements at any point before PWSA completes lead service line replacements for the work order covering the customer's property.	For 2019 program	Approval obtained from PENNVEST.
65.6 Install additional monitoring stations for areas of low pressure.	by 2020	Completed
When PWSA started testing for lead levels.	N/A	1998
Provide quarterly updates regarding the progress of the orthophosphate program.	Quarterly	Please see the report submitted to PA DEP with these details included in Appendix H.
<i>Finance, Contractual, and Other Issues</i>		
Formally notify the City of Pittsburgh of the record and outcome of this case, that the Cooperation Agreement is being reviewed by the PUC in the Compliance Filing proceeding, and that PWSA's LTIP Filing is pending with the Commission.		Completed
Serve the City with a copy of Final Commission Orders and file a certificate of service with the Commission verifying that such service was made.	Issued in this matter within 10 days of their issuance	Completed
Investigate the City of Pittsburgh discount for PAWC water customers as originated under the terms of the 1973 Agreement between the City of Pittsburgh and Western Pennsylvania Water Company.	Next Base Rate Case	The analysis has been completed and the subsidy was eliminated on December 31, 2019.
69.16 Update emergency response plan with updated SOPs.	October 31, 2019	Completed
101.4 File a Self-Certification Form	February 28, 2020	Completed
Residential Fire Protection and Standby Charges	Next Base Rate Case	Completed. Residential customers who have been charged private fire protection have been identified and have been credited for those payments.
Investigate the City of Pittsburgh discount for PAWC water customers as originated under the terms of the 1973 Agreement between the City of Pittsburgh and Western Pennsylvania Water Company		Completed
101.3 – Plan Requirements		<ul style="list-style-type: none"> > Physical security plan: 12/31/2019 > Cyber security plan: Approved

		<ul style="list-style-type: none"> > Emergency response plan – 10/31/2019 > Business continuity plan – 10/31/2019
Renegotiate the Cooperation Agreement with the City of Pittsburgh.	Quarterly Updates, beginning 4/30	Cooperation agreement signed and filed with the PUC.
Analyze the feasibility of assessing a flat rate to the unmetered customers.	Next Base Rate Case	Completed on January 14, 2021.
69.801 Develop a formal policy to improve diversity in the workforce.	By the end of 2019	Completed
Ownership of Wastewater Laterals	Final Report Submission, January 15, 2021	Report submitted to the parties on January 15, 2021.
65.19 Filing of Annual Financial Reports	2019	On-going
Consider the timeframe for developing a separate rate for public fire hydrant service.	Next Base Rate Case	Completed
Consider assessing the City of Pittsburgh a separate rate for public fire hydrant service.	Next Base Rate Case	Completed
Propose a plan or method for developing separate cost of service studies for wastewater and stormwater for the development of stormwater rates.		Completed
Bulk Water: Sales for Resale	Within 120 days of the Final Commission Order	Completed
Bulk Wastewater Conveyance Agreements	Within 120 days of the Final Commission Order	Completed
Capital Investment Plan Report	2020	Filed on January 26, 2022
73.3 Annual Depreciation Reports	April 1, 2024	Complete. Depreciation Reports will continue to be filed annually.

7. Appendix B – Title 52 Sections where PWSA Believes it is Currently in Compliance

Section	Subchapter	Currently in Compliance
56.1	Preliminary Provisions for Utilities and Customers Subject to Chapter 14 of the Public Utility Code	X
56.31 – 56.58	Credit and Deposits Standards Policy (Water)	X
56.71 – 56.72	Interruption and Discontinuance of Service (Water)	X
56.81-56.118	Include information in Spanish directing Spanish-speaking customers to numbers for translation assistance for shut-offs (Water)	X
56.14 – 56.174	Disputes; Termination Disputes; Informal and Formal Complaints (Water)	X
56.191	Restoration of Service (Water)	X
56.251 – 56.252	Provisions for Wastewater, Steam Heat and Small Natural Gas Distribution Utilities and Victims of Domestic Violence with a Protection from Abuse Order	X
56.281 – 56.307	Credit and Deposits Standards Policy (Wastewater)	X
56.311 – 56.312	Interruption and Discontinuance of Service (Wastewater)	X
56.371 – 56.411	Disputes; Termination Disputes; Informal and Formal Complaints (Wastewater)	X
56.321-56.358	Include information in Spanish directing Spanish-speaking customers to numbers for translation assistance for shut-offs (Wastewater)	X
56.421 – 56.422	Restoration of Service (Wastewater)	X
56.441	Informal Complaints (Wastewater)	X
65.3.	Complaints.	X
65.5.	Interruptions of service.	X
65.9.	Adjustment of bills for meter error.	X
65.10.	Disputed bills.	X
65.12.	Notice of desire to have service discontinued.	X
65.13.	Temporary service.	X
65.14.	Reestablish operability of meters at each source of supply and install an additional meter at Fox Chapel Station.	X
65.15.	Refusal to serve applicants.	X
69.51 – 69.85	Inclusion of State Taxes and Gross Receipts Taxes in Base Rates	X
69.169	Policy Statement Interpreting Terms Included In 66 Pa.C.S. § 1326	X
69.261 – 69.267	Policy Statement on Customer Assistance Programs	X
69.351	Implementation of SFAS 106	X
73.7.	Capital investment plan report	X
121.3.	LTIIP.	X
121.4.	Filing and Commission review procedures.	X

8. Appendix C – 20 Operating Metrics Identified in I&E St. No. 4, p. 5

Metric	Q2 2022
Pipeline Materials (% of pipe segments with materials listed in GIS)	Water: 29% (19,580 out of 68,473 water mains have material populated) Sewer: 76% (35,193 out of 46,132 sewer mains have material populated)
Pipeline Age (% of pipe segments with age listed in GIS)	Water and Sewer: Not a field in GIS at this time, but can be calculated using installation date, so same % as below could be provided
Leak History per Mile (number of leaks per 100 miles of pipe per year) *	62.8 leaks per 100 miles
Pipeline Pressures (distribution pressure devices recording pressure outside minimum and maximum for more than 10 minutes)	There are 61 Loggers throughout our system monitoring pipeline pressures.
Installation Year (% of pipe segments with installation year listed in GIS)	Water: 62% (42,225 out of 68,473 water mains have date installed populated) Sewer: 16% (7,286 out of 46,132 sewer mains have a date installed populated)
Pipeline Diameter (% of pipe segments with pipeline diameter listed in GIS)	Water: 100% (68,137 out of 68,473 water mains have a diameter populated) Sewer: 100% of active sewer mains have a diameter populated (includes some assumed inlet lateral diameters)
Pipeline Mileage (miles of active and retired pipe in the distribution system)	Water: Active Water Mains: 963.3 miles; Abandoned Water Mains: 162.5 miles mapped in GIS (includes abandoned water mains layer originally exported from CAD prior to GIS conversion) Active Sewer Mains: 1,237.1 miles; Abandoned Sewer Mains: 62.5 miles mapped in GIS
Addition/Retirements of Plant (GIS or CMMS field denoting active or inactive assets)	TBD
Materials and Supplies (Value of materials and supplies on-hand)	TBD
Leak Repair (number of leaks repaired – distribution main)	369 in 2022
Leak Repair (number of leaks repaired – service line)	73 in 2022
Pipeline Damages from Excavation (GIS or CMMS field denoting suspected cause of leak)	35 instances for Q2, 68 total in 2022
Plant in Service (Asset inventory)	TBD
Corrosion Protection Programs (pipe segments protected by cathodic protection)	TBD
Lead Levels (Lead and copper action level, current period)	4.42 ppb
Miles of Lead Pipeline	PWSA reports lead service lines in number of service lines, not by mile

Cost of Lead Pipeline Replacement for PWSA Work Crews (average pipeline replacement cost per period)	TBD
Cost of Lead Pipeline Replacement for PWSA Contractors (average pipeline replacement cost per period)	Based on our 2019 LSLR Program costs, the average public side LSLR cost \$4,350 and the average private side LSLR cost \$7,990.
Sanitary Flow Reduction (Number of reportable SSOs per year)	2
Sanitary Flow Reduction (Volume of reportable SSOs per year)	0.99
Miles of Combined Sewer Separation (per year)	No Separation projects were completed in Q2 2022
Unaccounted for Water (% of finished water that is unaccounted for)	67.29%
Non-revenue Water (% of finished water that is non-revenue)	65.93%

*Leaks will be geotagged to the segments in which they occur.

Appendix D – Low Income Customer Billing Metrics

Billing Metrics	January 2022		April 2022		July 2022	
Billed revenue	\$66,037,499		\$65,903,567		\$69,436,427	
Receipts actually collected	\$71,363,717		\$62,524,786		\$66,732,134	
Number of accounts in arrears	12,756		9,682		11,043	
Dollars of arrears	\$11,795,754		\$8,172,441		\$14,376,060.39	
Number of accounts disconnected for nonpayment	61		231		210	
Number of accounts receiving a notice of disconnection for nonpayment	3,074		3,141		9,322	
Number of bill discount participants who entered the bill discount program with unpaid account balances	234		285		567	
Dollars of unpaid account balances for bill discount program participants at the time those participants entered the bill discount program	\$264,421.41		\$311,231.38		\$493,706.80	
Number of bill discount participants by agreed-upon poverty ranges	15234	0.00%	15214	0.00%	15226	0.00%
	15219	0.00%	15204	0.00%	15211	0.00%
	15206	0.00%	15204	0.00%	15213	0.00%
	15226	0.00%	15211	0.00%	15210	0.00%
	15210	0.00%	15210	0.00%	15212	0.00%
	15210	0.00%	15211	0.00%	15201	0.00%
	15212	0.00%	15210	0.00%	15220	0.00%
	15212	0.00%	15201	0.00%	15227	0.00%
	15216	0.00%	15212	0.00%	15221	0.00%
	15205	0.00%	15212	0.00%	15206	0.00%
	15205	0.00%	15206	0.00%	15226	0.00%
	15212	0.00%	15214	0.00%	15210	0.00%
	15212	0.00%	15204	0.00%	15226	0.00%
	15212	0.00%	15210	0.00%	15204	0.00%
	15210	0.00%	15204	0.00%	15212	0.00%
	15207	0.00%	15216	0.00%	15214	0.00%
	15214	0.00%	15208	0.00%	15214	0.00%
	15214	0.00%	15208	0.00%	15214	0.00%
	15224	0.00%	15204	0.00%	15206	0.00%
	15207	0.00%	15224	0.00%	15206	0.00%
	15216	0.00%	15206	0.00%	15204	0.00%
	15205	0.00%	15201	0.00%	15212	0.00%
	15214	0.00%	15203	0.00%	15212	0.00%

	15203	0.00%	15214	0.00%	15208	0.00%
	15211	0.00%	15210	0.00%	15214	0.00%
	15208	0.00%	15220	0.00%	15210	0.00%
	15210	0.00%	15210	0.00%	15205	0.00%
	15208	0.00%	15208	0.00%	15220	0.00%
	15213	0.00%	15210	0.00%	15206	0.00%
	15201	0.00%	15217	0.00%	15214	0.00%
	15224	0.00%	15217	0.00%	15210	0.00%
	15210	0.00%	15210	0.00%	15203	0.00%
	15216	0.00%	15210	0.00%	15212	0.00%
	15210	0.00%	15216	0.00%	15209	0.00%
	15226	0.00%	15207	0.00%	15226	0.00%
	15204	0.00%	15201	0.00%	15214	0.00%
	15210	0.00%	15210	0.00%	15214	0.00%
	15212	0.00%	15214	0.00%	15235	0.00%
	15212	0.00%	15206	0.00%	15212	0.00%
	15211	0.00%	15211	0.00%	15212	0.00%
	15210	0.00%	15207	0.00%	15217	0.00%
	15210	0.00%	15208	0.00%	15210	0.00%
	15210	0.00%	15224	0.00%	15212	0.00%
	15212	0.00%	15219	0.00%	15210	0.00%
	15220	0.00%	15224	0.00%	15210	0.00%
	15214	0.00%	15209	0.00%	15210	0.00%
	15210	0.00%	15212	0.00%	15216	0.00%
	15206	0.00%	15234	0.00%	15211	0.00%
	15212	0.00%	15212	0.00%	15203	0.00%
	15211	0.00%	15208	0.00%	15211	0.00%
	15204	0.00%	15210	0.00%	15210	0.00%
	15212	0.00%	15211	0.00%	15210	4.32%
	15210	0.00%	15207	0.00%	15210	7.76%
	15211	0.00%	15233	0.00%	15207	8.83%
	15216	0.00%	15208	0.00%	15210	9.29%
	15210	0.00%	15226	0.00%	15212	12.80%
	15204	0.00%	15216	0.00%	15210	13.25%
	15212	0.00%	15226	0.00%	15214	13.44%
	15210	0.00%	15220	0.00%	15204	15.47%
	15211	0.00%	15210	0.07%	15201	15.64%
	15216	0.00%	15201	1.31%	15221	16.13%
	15201	0.00%	15212	1.85%	15211	17.30%
	15211	0.00%	15204	7.01%	15205	17.43%
	15226	0.00%	15226	8.65%	15210	17.66%
	15210	0.00%	15214	15.14%	15207	21.00%
	15203	0.00%	15212	15.89%	15206	21.49%
	15216	0.00%	15210	17.30%	15210	21.62%
			15205	18.33%	15204	21.73%
			15210	19.64%		

15220	0.00%	15210	20.17%	15206	22.94%
15201	2.26%	15212	20.84%	15204	23.86%
15220	4.20%	15214	20.84%	15220	26.49%
15207	4.53%	15208	21.53%	15208	27.13%
15211	5.46%	15227	21.88%	15208	27.94%
15207	10.93%	15204	23.62%	15205	28.44%
15203	11.65%	15217	24.02%	15210	28.80%
15212	13.58%	15214	25.68%	15204	29.57%
15212	13.66%	15213	26.49%	15216	29.57%
15204	13.78%	15201	28.14%	15204	31.90%
15206	13.78%	15212	29.57%	15204	32.20%
15216	15.58%	15204	31.08%	15214	32.51%
15210	18.20%	15213	33.85%	15207	33.42%
15227	18.58%	15212	34.59%	15212	34.00%
15206	21.54%	15224	35.32%	15226	34.59%
15207	21.77%	15206	35.32%	15201	34.59%
15219	23.29%	15212	36.47%	15210	35.32%
15210	24.00%	15217	36.96%	15204	36.96%
15207	27.32%	15206	37.52%	15226	37.66%
15210	27.32%	15210	37.79%	15211	37.80%
15212	28.96%	15212	39.32%	15201	38.44%
15212	29.51%	15210	39.55%	15207	41.29%
15201	30.62%	15220	39.94%	15226	41.68%
15227	30.70%	15212	40.65%	15226	41.94%
15210	31.70%	15210	41.68%	15206	42.41%
15233	31.70%	15204	41.68%	15212	42.60%
15211	33.48%	15220	41.68%	15212	42.77%
15212	33.73%	15213	41.68%	15204	43.29%
15205	34.31%	15212	42.00%	15204	44.15%
15227	34.44%	15210	42.95%	15204	44.29%
15201	35.75%	15206	43.76%	15221	44.35%
15226	36.23%	15205	45.19%	15220	45.28%
15214	36.23%	15210	45.28%	15208	45.98%
15216	36.41%	15210	46.79%	15210	47.57%
15203	37.16%	15208	46.90%	15217	48.04%
15227	37.22%	15210	46.93%	15227	48.04%
15212	38.66%	15203	47.68%	15220	48.57%
15219	38.66%	15217	50.15%	15219	51.97%
15210	39.06%	15219	52.43%	15206	52.80%
15210	40.75%	15210	52.43%	15219	53.48%
15211	40.85%	15214	52.43%	15206	54.40%
15213	41.48%	15210	52.43%	15214	54.64%
15214	41.69%	15201	52.43%	15217	54.70%
		15207	52.47%	15212	55.12%
		15210	52.66%		

15219	42.30%	15214	52.98%	15212	55.12%
15209	42.59%	15219	52.98%	15212	55.12%
15201	43.11%	15219	53.83%	15224	55.36%
15204	44.75%	15210	54.40%	15208	55.44%
15219	44.78%	15204	55.12%	15204	56.22%
15210	44.78%	15214	55.44%	15214	56.22%
15214	45.28%	15208	55.63%	15204	56.22%
15212	45.28%	15206	55.64%	15212	56.43%
15224	45.28%	15204	56.09%	15212	56.56%
15210	46.39%	15206	56.49%	15204	57.32%
15204	46.39%	15204	56.62%	15208	57.40%
15220	48.01%	15226	56.87%	15226	58.03%
15208	49.12%	15208	57.32%	15207	58.98%
15219	50.77%	15210	57.95%	15201	58.98%
15212	50.85%	15207	58.98%	15210	58.98%
15212	53.04%	15207	59.96%	15210	58.98%
15219	53.36%	15212	61.25%	15212	59.76%
15216	53.39%	15210	61.76%	15214	60.29%
15203	53.55%	15207	61.81%	15216	60.54%
15206	53.96%	15201	61.81%	15205	60.82%
15204	54.21%	15212	62.53%	15207	61.21%
15208	54.34%	15207	62.92%	15207	61.81%
15210	54.70%	15207	64.53%	15207	61.81%
15210	54.70%	15207	64.53%	15220	62.34%
15201	55.11%	15212	64.68%	15213	62.53%
15120	55.11%	15214	64.68%	15210	62.83%
15201	55.11%	15201	65.54%	15219	64.53%
15206	55.80%	15201	65.54%	15233	64.53%
15226	55.90%	15208	65.54%	15201	65.43%
15208	55.90%	15210	65.99%	15221	65.87%
15212	55.90%	15208	66.23%	15210	66.23%
15226	56.83%	15212	66.23%	15219	66.49%
15219	57.95%	15212	66.52%	15213	66.52%
15214	58.87%	15212	66.59%	15212	66.52%
15226	58.87%	15206	67.47%	15212	66.58%
15210	59.23%	15207	67.50%	15210	66.70%
15224	60.28%	15208	68.08%	15226	66.93%
15210	60.62%	15206	68.32%	15208	67.20%
15214	61.79%	15227	68.49%	15214	67.77%
15206	61.90%	15214	68.52%	15212	68.87%
15203	62.00%	15211	68.70%	15208	68.96%
15210	62.00%	15235	68.87%	15201	69.14%
15211	63.40%	15207	69.19%	15210	69.19%
		15214	69.19%	15220	69.21%
		15210	70.11%	15224	69.93%
		15206	70.11%		

15204	63.54%	15212	70.22%	15216	70.11%
15201	64.76%	15226	70.64%	15226	70.20%
15212	65.22%	15212	70.64%	15203	70.22%
15214	65.44%	15203	72.09%	15209	70.64%
15207	65.57%	15217	72.09%	15219	70.64%
15212	65.57%	15212	72.32%	15212	70.64%
15120	65.66%	15206	72.76%	15201	70.64%
15206	65.68%	15233	72.95%	15206	70.64%
15226	66.52%	15219	72.95%	15204	70.65%
15214	66.71%	15209	73.11%	15220	71.18%
15226	67.55%	15212	73.55%	15206	71.70%
15212	67.65%	15204	73.91%	15214	72.09%
15226	67.92%	15208	74.17%	15214	72.09%
15210	67.92%	15210	74.26%	15201	72.41%
15212	68.89%	15219	74.26%	15212	72.41%
15208	68.89%	15216	74.76%	15216	72.58%
15211	68.89%	15207	75.50%	15207	72.76%
15216	69.59%	15207	75.61%	15219	73.29%
15210	70.19%	15201	75.94%	15219	74.00%
15208	71.18%	15210	75.94%	15212	74.06%
15210	71.75%	15212	76.03%	15214	74.17%
15232	72.21%	15212	76.19%	15224	74.26%
15226	72.21%	15227	76.20%	15209	74.26%
15220	73.88%	15219	76.47%	15213	74.26%
15206	74.07%	15201	76.54%	15211	74.26%
15204	74.26%	15214	77.26%	15212	74.26%
15214	74.35%	15226	77.61%	15207	74.71%
15210	74.36%	15207	77.70%	15220	75.17%
15219	74.53%	15234	77.92%	15212	75.63%
15212	74.53%	15217	78.16%	15210	75.76%
15204	74.53%	15207	78.16%	15233	75.94%
15216	74.81%	15207	78.16%	15206	76.02%
15210	75.84%	15210	78.16%	15201	76.03%
15219	76.03%	15219	78.65%	15226	76.03%
15201	76.50%	15208	78.65%	15210	76.03%
15206	76.58%	15208	78.65%	15207	76.20%
15206	76.58%	15201	79.03%	15207	76.21%
15224	76.77%	15206	79.10%	15207	76.21%
15214	77.32%	15208	79.47%	15217	76.21%
15212	77.32%	15206	79.47%	15204	76.22%
15205	77.57%	15206	79.47%	15217	76.38%
15210	77.89%	15219	79.47%	15234	76.60%
15220	77.89%	15206	79.47%	15214	76.73%
		15205	79.47%	15226	76.73%
		15210	80.09%	15206	77.12%
		15226	80.30%		
		15210	81.60%		

15210	77.89%	15220	81.66%	15201	77.70%
15227	79.22%	15210	82.30%	15209	77.97%
15233	79.94%	15210	82.35%	15210	77.97%
15217	80.50%	15205	82.46%	15204	78.16%
15206	80.59%	15212	82.74%	15208	78.23%
15210	80.87%	15204	83.18%	15210	78.32%
15212	81.04%	15210	83.37%	15206	78.41%
15208	81.19%	15224	83.37%	15214	78.47%
15212	81.19%	15210	83.37%	15205	78.53%
15206	81.34%	15214	83.97%	15219	78.65%
15219	81.51%	15234	84.54%	15201	79.03%
15212	81.97%	15210	84.77%	15219	79.47%
15224	81.98%	15220	84.77%	15211	79.47%
15210	82.12%	15210	84.77%	15210	79.47%
15120	82.55%	15212	85.20%	15212	79.56%
15212	82.63%	15212	85.83%	15211	79.82%
15204	82.66%	15220	86.49%	15224	79.83%
15219	82.66%	15212	86.50%	15212	79.98%
15210	82.66%	15214	86.81%	15212	80.00%
15211	82.66%	15226	87.30%	15203	81.24%
15206	83.35%	15212	87.56%	15212	81.66%
15210	83.39%	15210	87.59%	15214	81.92%
15210	83.85%	15211	88.30%	15211	82.25%
15216	83.85%	15210	88.30%	15211	82.65%
15220	84.04%	15210	88.30%	15210	83.37%
15212	84.23%	15214	88.30%	15220	83.37%
15221	84.32%	15219	88.30%	15214	83.71%
15204	84.94%	15210	88.48%	15213	83.89%
15233	85.25%	15207	88.79%	15216	85.07%
15219	85.62%	15206	88.92%	15216	85.20%
15224	86.04%	15214	89.26%	15208	85.87%
15205	86.14%	15204	89.29%	15210	86.12%
15211	86.31%	15213	89.92%	15216	86.49%
15214	86.37%	15106	90.35%	15226	86.49%
15224	86.98%	15206	90.81%	15204	86.49%
15219	87.43%	15220	91.13%	15210	86.80%
15212	87.43%	15212	91.49%	15204	87.15%
15212	88.04%	15204	91.75%	15212	87.56%
15207	88.14%	15206	91.75%	15210	88.21%
15210	88.23%	15221	92.36%	15210	88.30%
15233	88.26%	15206	92.80%	15214	88.30%
15206	88.51%	15206	92.89%	15214	88.52%
15204	89.44%	15224	93.21%	15208	88.70%
		15211	93.32%	15212	88.70%
		15212	93.79%		
		15214	93.79%		

15212	89.55%	15213	94.83%	15214	89.26%
15207	89.55%	15209	95.14%	15219	89.88%
15203	89.55%	15210	95.14%	15201	90.07%
15220	89.91%	15207	95.14%	15206	90.33%
15224	89.91%	15210	95.20%	15208	90.51%
15210	90.57%	15206	95.36%	15232	91.13%
15212	90.57%	15217	95.50%	15206	91.13%
15214	90.57%	15214	96.66%	15211	91.66%
15220	90.87%	15214	96.80%	15213	91.75%
15216	91.33%	15205	97.00%	15210	92.01%
15224	92.83%	15201	97.13%	15220	92.15%
15213	93.00%	15208	97.13%	15205	92.28%
15207	93.17%	15219	97.13%	15212	92.45%
15224	93.17%	15204	97.98%	15216	92.80%
15219	93.50%	15206	98.22%	15210	92.89%
15220	94.19%	15235	98.31%	15214	93.06%
15208	94.72%	15201	98.31%	15210	93.07%
15204	95.09%	15210	98.37%	15207	93.33%
15234	95.50%	15201	98.64%	15216	93.85%
15233	95.78%	15214	99.78%	15224	94.27%
15201	96.44%	15212	100.40%	15206	95.10%
15206	96.45%	15214	100.52%	15204	95.63%
15204	96.71%	15201	100.75%	15206	95.63%
15204	96.72%	15210	101.28%	15210	96.09%
15217	97.45%	15210	101.55%	15211	96.80%
15219	97.75%	15210	101.66%	15207	96.87%
15212	98.36%	15207	101.82%	15212	97.13%
15234	98.36%	15206	102.23%	15201	97.13%
15212	98.90%	15210	102.96%	15234	97.13%
15209	99.41%	15210	103.17%	15214	97.13%
15201	99.62%	15206	103.78%	15204	97.13%
15212	99.62%	15206	103.78%	15212	97.13%
15208	99.85%	15210	103.78%	15219	97.32%
15214	100.64%	15207	103.78%	15213	97.56%
15233	101.55%	15217	103.78%	15206	97.64%
15210	101.97%	15206	103.81%	15219	97.84%
15220	102.13%	15209	103.81%	15204	98.31%
15201	102.48%	15217	103.93%	15208	98.31%
15220	102.48%	15212	104.14%	15212	98.31%
15212	102.48%	15220	104.21%	15226	98.54%
15207	102.48%	15206	104.21%	15214	98.81%
15210	102.76%	15204	104.34%	15214	98.81%
15206	102.86%	15209	104.37%	15224	98.81%
		15213	104.86%	15220	99.13%
		15234	105.19%	15208	99.69%
		15216	105.96%		

15206	102.95%	15208	105.96%	15204	100.49%
15213	103.14%	15212	106.40%	15207	100.66%
15204	103.33%	15226	107.18%	15219	101.55%
15208	103.33%	15206	107.76%	15226	101.81%
15212	103.33%	15206	107.92%	15212	102.96%
15214	103.70%	15220	108.11%	15206	103.13%
15210	105.47%	15120	108.52%	15210	103.40%
15210	105.75%	15210	109.58%	15210	103.78%
15204	106.77%	15204	109.62%	15206	104.02%
15206	106.77%	15226	110.11%	15213	104.19%
15207	107.46%	15208	110.11%	15210	104.21%
15206	107.61%	15204	110.24%	15212	104.21%
15219	108.42%	15217	110.38%	15210	104.21%
15220	108.68%	15204	111.41%	15205	104.80%
15224	109.29%	15211	111.45%	15206	104.86%
15226	109.29%	15224	112.43%	15211	104.86%
15201	109.29%	15220	112.58%	15211	104.86%
15207	109.29%	15224	113.12%	15210	105.48%
15204	110.12%	15201	113.29%	15208	105.52%
15212	110.22%	15212	113.55%	15226	105.70%
15208	110.22%	15220	114.53%	15210	106.14%
15211	110.22%	15212	114.63%	15221	106.44%
15216	110.22%	15210	114.63%	15212	106.51%
15212	110.87%	15219	114.79%	15208	106.75%
15226	111.71%	15210	115.41%	15212	106.83%
15210	111.80%	15211	116.47%	15210	107.89%
15219	112.36%	15221	116.56%	15226	108.11%
15211	113.21%	15201	116.76%	15207	108.43%
15219	113.21%	15206	117.29%	15208	108.70%
15212	113.48%	15206	117.44%	15210	108.97%
15212	113.85%	15206	117.44%	15224	109.23%
15211	114.21%	15210	117.62%	15226	109.25%
15233	115.98%	15220	117.79%	15212	109.32%
15226	116.09%	15212	117.97%	15208	109.42%
15210	116.46%	15206	117.97%	15224	109.49%
15206	116.46%	15210	117.97%	15206	109.72%
15208	116.65%	15217	117.97%	15206	109.94%
15214	117.11%	15212	117.97%	15210	110.38%
15212	117.11%	15227	117.97%	15211	110.56%
15201	117.11%	15212	117.97%	15211	110.82%
15214	117.33%	15212	118.26%	15212	110.99%
15226	117.48%	15211	118.49%	15204	111.41%
15214	117.74%	15214	119.65%	15214	111.41%
		15204	119.82%	15207	111.48%
		15214	119.84%		

15106	117.93%	15214	120.11%	15212	111.96%
15212	118.04%	15214	120.71%	15208	112.43%
15204	119.16%	15208	121.06%	15209	112.62%
15207	119.55%	15208	121.50%	15210	112.66%
15212	120.22%	15210	122.03%	15120	112.93%
15210	120.22%	15208	122.45%	15212	113.38%
15214	120.28%	15210	122.61%	15210	113.47%
15204	121.12%	15217	122.97%	15218	114.01%
15206	121.12%	15220	123.62%	15207	114.26%
15214	122.37%	15212	123.62%	15214	114.53%
15216	122.89%	15204	123.62%	15210	114.79%
15204	122.95%	15205	123.99%	15235	114.79%
15207	122.98%	15207	124.52%	15212	115.35%
15224	122.98%	15206	124.52%	15201	115.35%
15217	123.60%	15224	125.03%	15208	115.41%
15211	123.63%	15212	125.05%	15207	115.50%
15205	123.91%	15218	125.05%	15210	115.50%
15210	124.00%	15238	125.65%	15214	115.54%
15216	124.00%	15210	126.72%	15206	115.67%
15205	125.68%	15207	126.74%	15206	115.67%
15220	125.68%	15206	127.31%	15212	115.81%
15214	128.57%	15203	127.68%	15212	115.94%
15210	128.84%	15226	128.04%	15207	116.13%
15216	128.85%	15206	128.78%	15232	116.16%
15201	128.94%	15224	129.35%	15208	116.20%
15475	129.88%	15217	129.35%	15212	116.76%
15203	129.88%	15219	130.24%	15207	117.39%
15207	130.44%	15201	130.27%	15226	117.97%
15212	130.44%	15217	130.27%	15204	118.26%
15212	130.44%	15214	131.08%	15224	118.85%
15204	130.44%	15219	131.08%	15214	118.92%
15204	131.15%	15205	131.08%	15220	119.28%
15226	131.15%	15209	131.08%	15206	119.35%
15212	131.15%	15214	131.08%	15201	119.74%
15210	131.32%	15210	131.08%	15212	119.80%
15203	132.26%	15226	131.21%	15201	119.82%
15217	133.14%	15212	132.19%	15212	120.05%
15210	134.07%	15207	132.42%	15219	121.08%
15206	134.16%	15211	132.45%	15235	121.25%
15226	134.60%	15212	132.45%	15204	121.30%
15201	134.91%	15212	132.45%	15210	121.84%
15219	135.31%	15201	132.71%	15206	121.85%
15206	136.78%	15204	132.98%	15212	122.38%
		15217	133.25%	15214	122.69%
		15221	133.50%		

15201	137.77%	15206	133.70%	15210	123.24%
15233	137.77%	15226	134.22%	15207	123.36%
15204	138.05%	15201	134.23%	15216	123.62%
15212	139.11%	15210	134.35%	15209	123.62%
15201	139.57%	15207	134.39%	15206	123.62%
15219	139.75%	15203	135.19%	15210	123.62%
15212	139.75%	15206	136.25%	15201	124.15%
15204	139.75%	15206	136.32%	15210	124.50%
15226	140.67%	15216	136.42%	15211	124.99%
15208	140.87%	15219	138.10%	15206	125.05%
15210	141.22%	15207	138.38%	15217	125.05%
15216	143.01%	15210	139.16%	15204	126.18%
15226	143.28%	15214	139.78%	15219	127.15%
15213	143.57%	15226	140.69%	15234	128.19%
15212	144.41%	15204	140.84%	15210	128.30%
15211	144.66%	15212	141.28%	15207	128.57%
15227	144.66%	15204	141.73%	15214	129.01%
15226	144.66%	15207	141.99%	15210	129.45%
15212	144.97%	15212	142.08%	15209	129.45%
15205	145.25%	15210	142.22%	15220	129.50%
15210	146.56%	15201	142.34%	15212	129.73%
15210	146.74%	15217	142.34%	15226	129.73%
15214	146.74%	15201	142.52%	15210	129.98%
15219	146.91%	15217	142.70%	15214	130.27%
15212	148.11%	15212	143.29%	15206	130.27%
15203	148.14%	15213	143.81%	15206	130.27%
15210	148.73%	15216	143.99%	15206	130.68%
15203	149.07%	15206	144.13%	15212	130.77%
15212	149.12%	15206	145.64%	15206	130.77%
15205	149.72%	15210	145.90%	15207	130.86%
15213	150.82%	15210	145.90%	15212	130.95%
		15219	146.40%	15204	131.08%
		15207	146.49%	15201	131.08%
		15210	146.73%	15211	131.08%
		15206	147.00%	15210	131.08%
		15212	149.67%	15219	131.08%
		15212	149.81%	15207	131.20%
		15206	150.74%	15226	131.46%
				15214	131.46%
				15205	131.86%
				15206	132.01%
				15209	132.19%
				15208	132.45%
				15219	132.45%

			15217	132.45%
			15206	132.45%
			15212	132.45%
			15233	132.45%
			15212	132.71%
			15219	132.77%
			15213	133.69%
			15224	133.91%
			15210	133.96%
			15212	134.03%
			15221	134.05%
			15203	134.42%
			15204	134.54%
			15224	134.70%
			15214	135.01%
			15214	135.10%
			15212	135.10%
			15219	136.22%
			15220	137.84%
			15211	138.35%
			15214	138.38%
			15207	139.16%
			15234	139.34%
			15216	139.96%
			15205	140.06%
			15210	140.25%
			15212	140.31%
			15201	140.67%
			15207	140.69%
			15226	141.28%
			15206	141.31%
			15216	143.05%
			15224	143.14%
			15204	143.33%
			15219	144.18%
			15207	144.81%
			15210	144.96%
			15212	145.70%
			15210	146.58%
			15205	146.72%
			15214	147.75%
			15210	147.81%
			15216	147.83%
			15210	148.57%

			15208 148.70%
			15211 148.89%
			15210 149.05%
			15213 149.23%
			15219 149.58%
			15208 150.41%
			15206 150.74%
Average usage	3,341 gallons	3,411 gallons	3,269 gallons
Average bill including ALCOSAN charges	\$119.12	\$121.62	\$129.27
Number of PWSA customers receiving a PWSA hardship grant	65	97	72

Appendix E – Call Center Metrics and Customer Service Monthly Reports

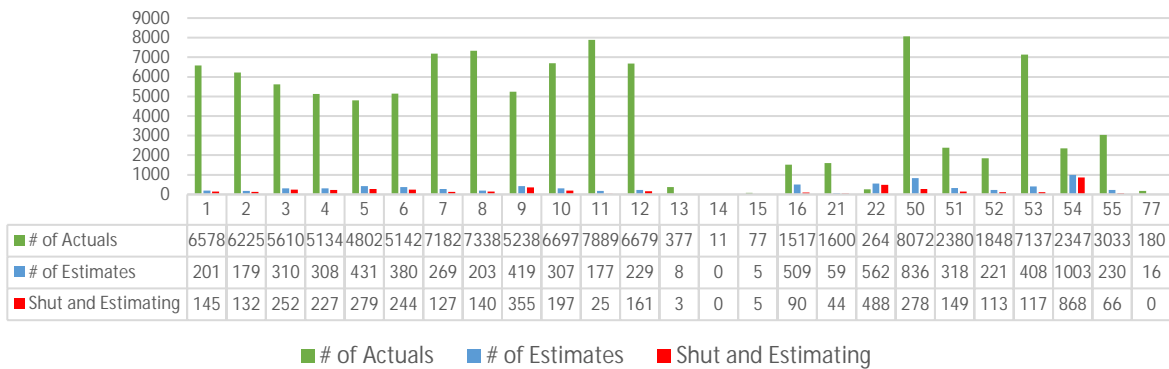
Metric	April 2022	May 2022	June 2022
Abandoned Calls (% of total calls)	2.4%	2.3%	2.2%
Automatic Call Distributor (ACD) Handling Time (minutes)	4:45	5:07	4:58
Average Speed of Answer (minutes)	0:59	1:08	1:02
Customer Service Representative Staffing (FTE – Full Time Equivalents)	13 FTE's 3 PTE's	13 FTE's 4 PTE's	14 FTE's 4 PTE's
Customer Satisfaction (customer survey)	99.9%	99.9%	99.9%
Service Level %	83.0%	81.0%	83.5%

CUSTOMER SERVICE MONTHLY REPORT

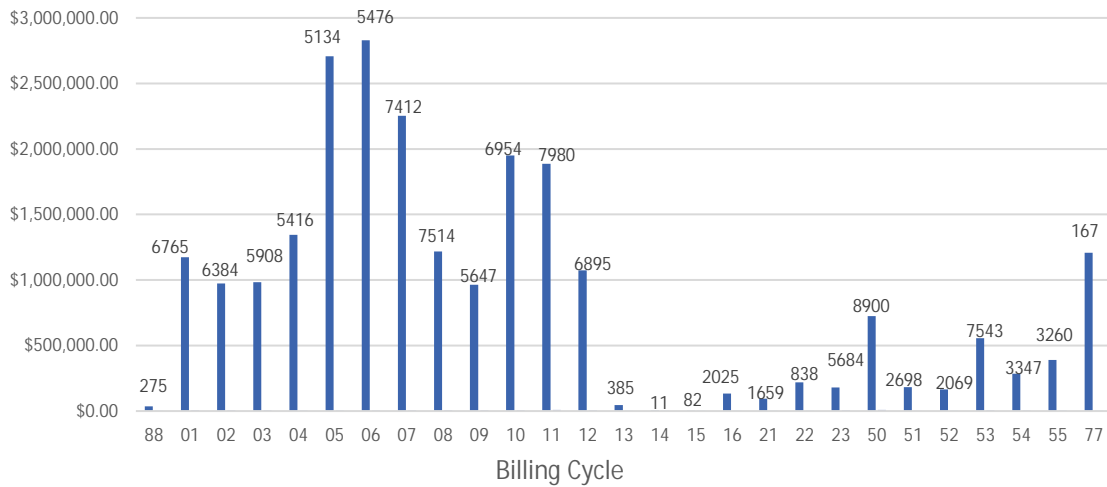
AMI and BILLING – APRIL 2022

The Non-Access Campaign continues to address the 1,411 aged actual meter readings and the 2,349 estimated meter readings. Under the PA PUC Compliance Plan, customers are to be notified via letters and posting notices to make appointments for a meter upgrade. PWSA successfully upgraded 898 meters in April 2022. Additionally, 757 letters were issued, 1,287 properties were posted, and 67 accounts were shut for non-access. Billing received 462 final bill requests and processed them within 7-10 days. Billing totals for the month of April 2022 were 116,428 bills produced in the amount of \$23,538,988.57.

Billed Actual vs. Estimated Readings April 2022



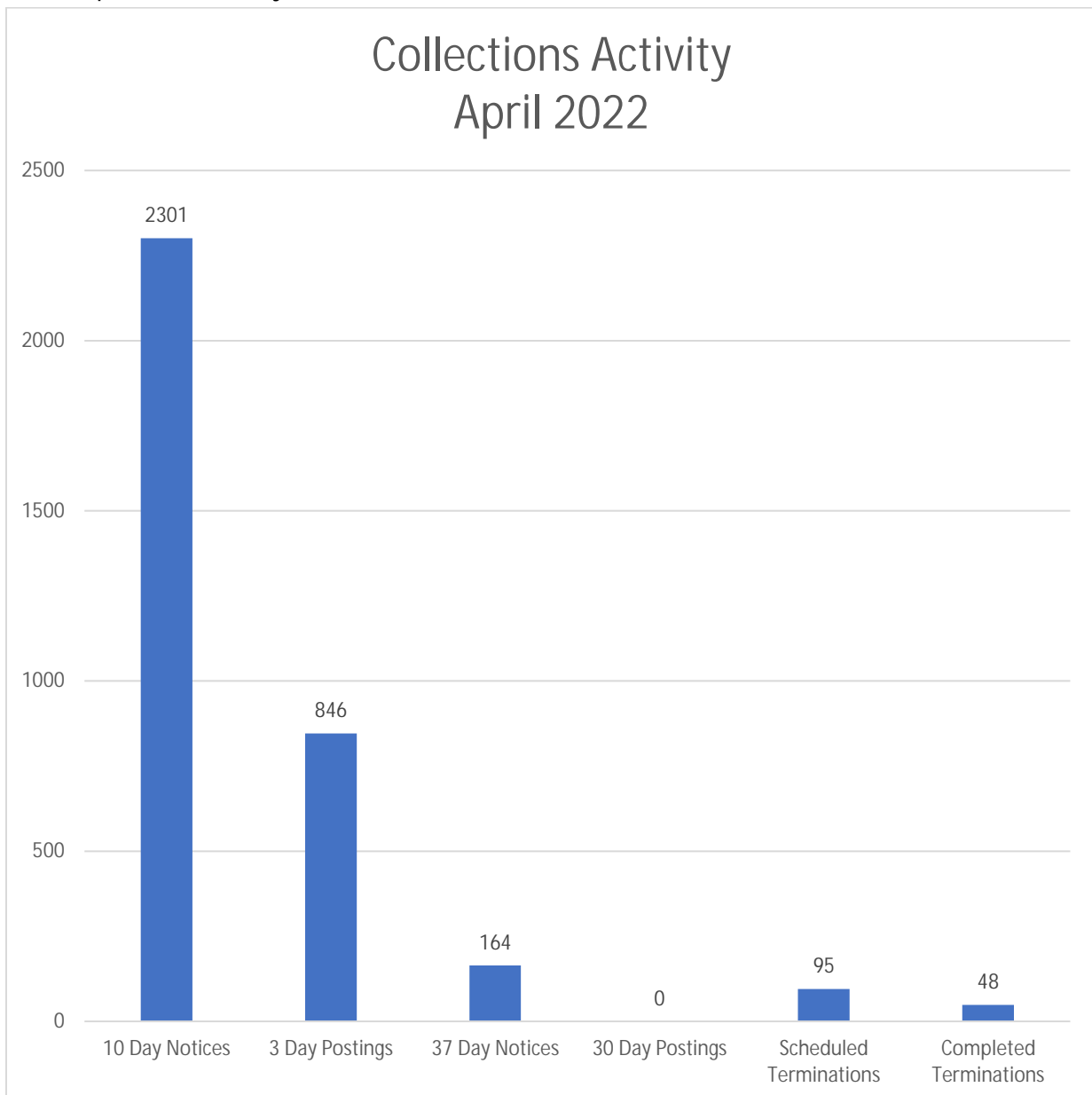
Billed Amounts in April 2022



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – APRIL 2022

In April 2022, the total Collections were \$20,673,673, which was \$2,865,315 less than what was billed in March 2022. Out of a total of 2,031 customer inquiries to info@pgh2o.com, Collections personnel responded to 2,031, all within 48 hours. Payment Plans for the month of April 2022 totaled 4,210, and there were 5,443 customers enrolled in the Bill Discount Program. Due to PWSA's ongoing COVID-19 response, the walk-up counter remains closed. The below chart represents activity on both residential and non-residential accounts.

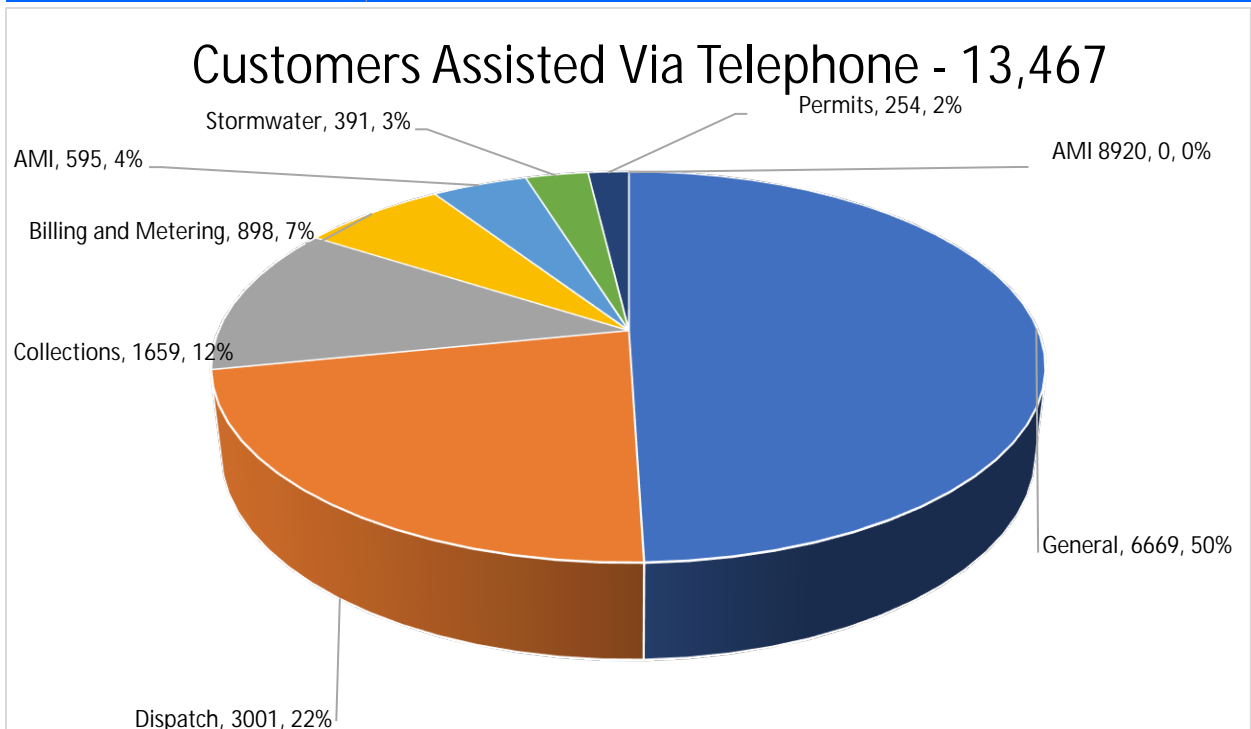


CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – APRIL 2022

There were 20 business days and 1 holiday in the month of April 2022. In the month of April, the Contact Center’s attendance rate changed to 13 full time employees and 3 part time employees with 2 new full time employees hired on March 28, 2021. In the next six weeks, the newly hired employees will complete training with our Senior Customer Service Manager. Of the 13,467 calls handled in the month of April 2022, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. The Contact Center yielded an abandonment rate of 2.4% with an average speed of answer of 59 seconds.

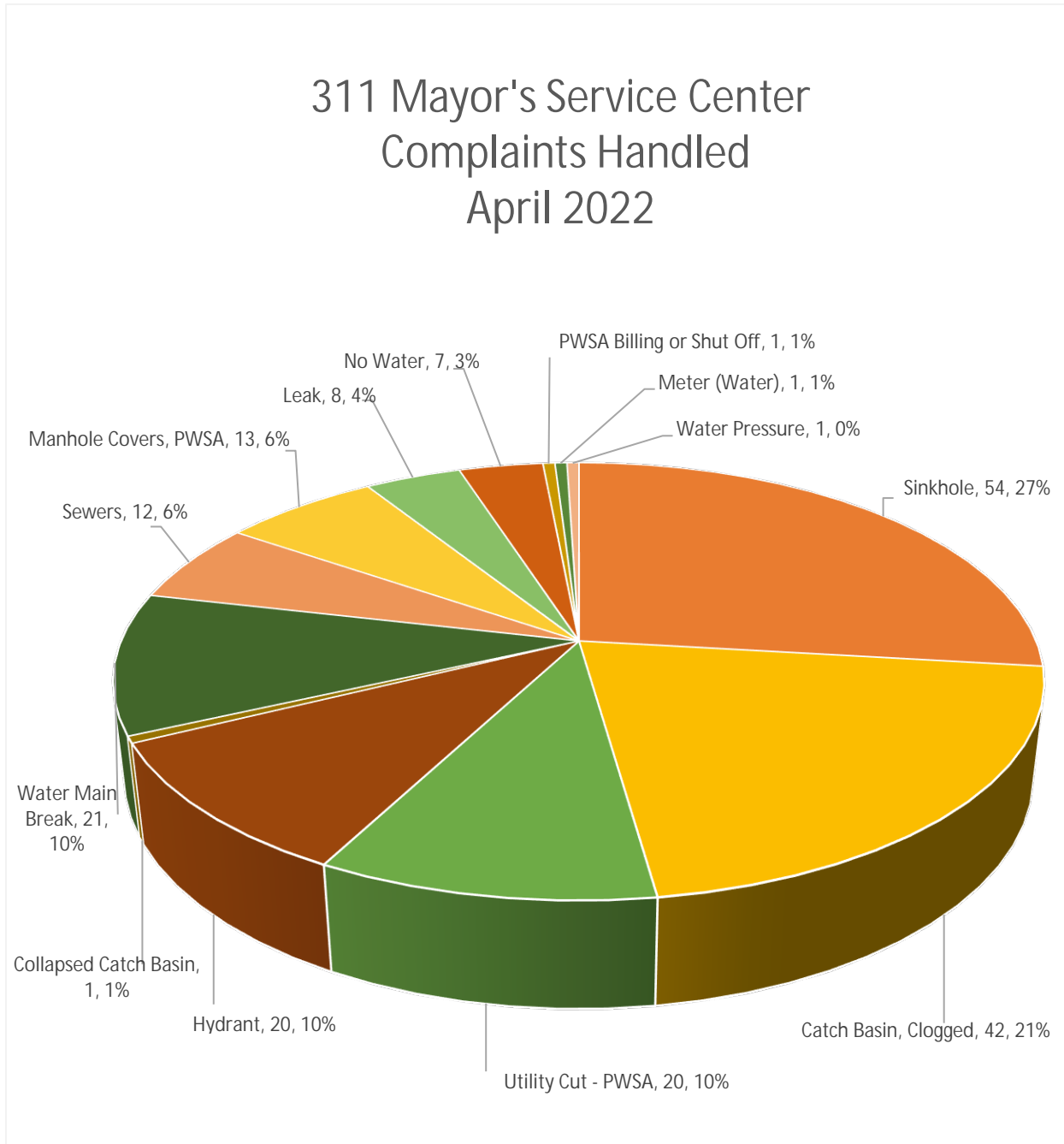
Queue Group Performance by Queue								
1 - All Queues								
4/1/2022 - 4/30/2022 - 00:00 - 24:00								
Created on 5/1/2022 7:02:46 AM by TishaJones								
ACD queue	ACD queue name	ACD calls offered	ACD calls handled	Average speed of answer (hh:mm:ss)	Average ACD handling time (hh:mm:ss)	Abandon %	Service level %	Answer %
P001	General	6854	6669	00:01:17	00:05:36	2.7%	76.7%	97.3%
P004	Dispatch	3060	3001	00:00:11	00:01:47	1.9%	98.6%	98.1%
P002	Collections	1688	1659	00:01:10	00:06:29	1.7%	79.4%	98.3%
P003	Billing and Metering	924	898	00:01:17	00:04:50	2.8%	76.4%	97.2%
P005	AMI	602	595	00:00:34	00:04:11	1.2%	93.2%	98.8%
P009	Stormwater	408	391	00:01:26	00:07:26	4.2%	73.0%	95.8%
P008	Permits	275	254	00:00:15	00:02:54	1.1%	100.0%	92.4%
P006	AMI 8920	0	0	00:00:00	00:00:00	0.0%	100.0%	0.0%
Totals		13811	13467	00:00:59	00:04:45	2.4%	83.0%	97.5%



CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – APRIL 2022

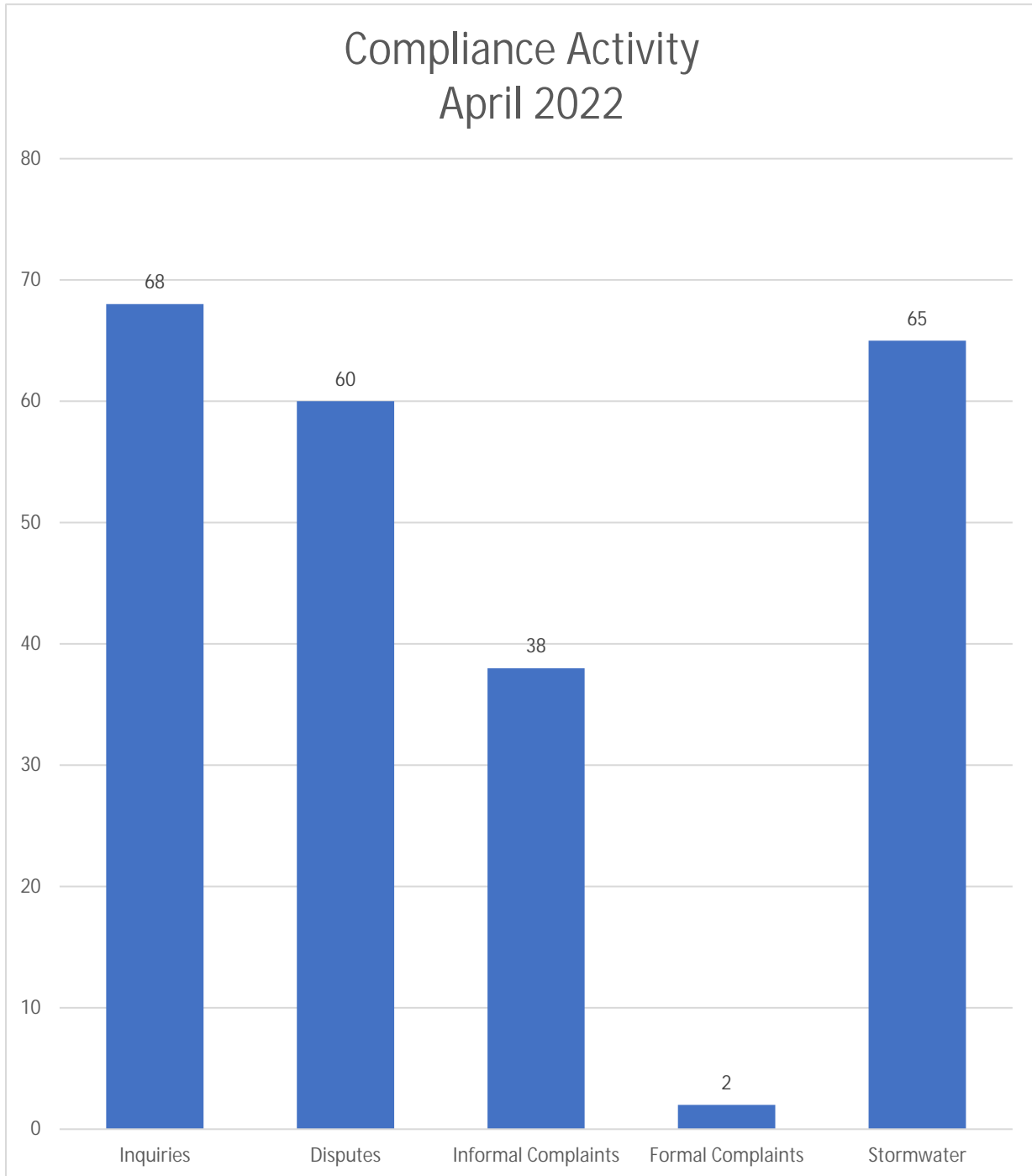
Dispatch responded to 3,001 calls for emergency service in April 2022. In this month, the Dispatchers issued 107 Interruptions of Service and facilitated 167 dig requests to Pennsylvania One Call.



CUSTOMER SERVICE MONTHLY REPORT

PUC COMPLIANCE – APRIL 2022

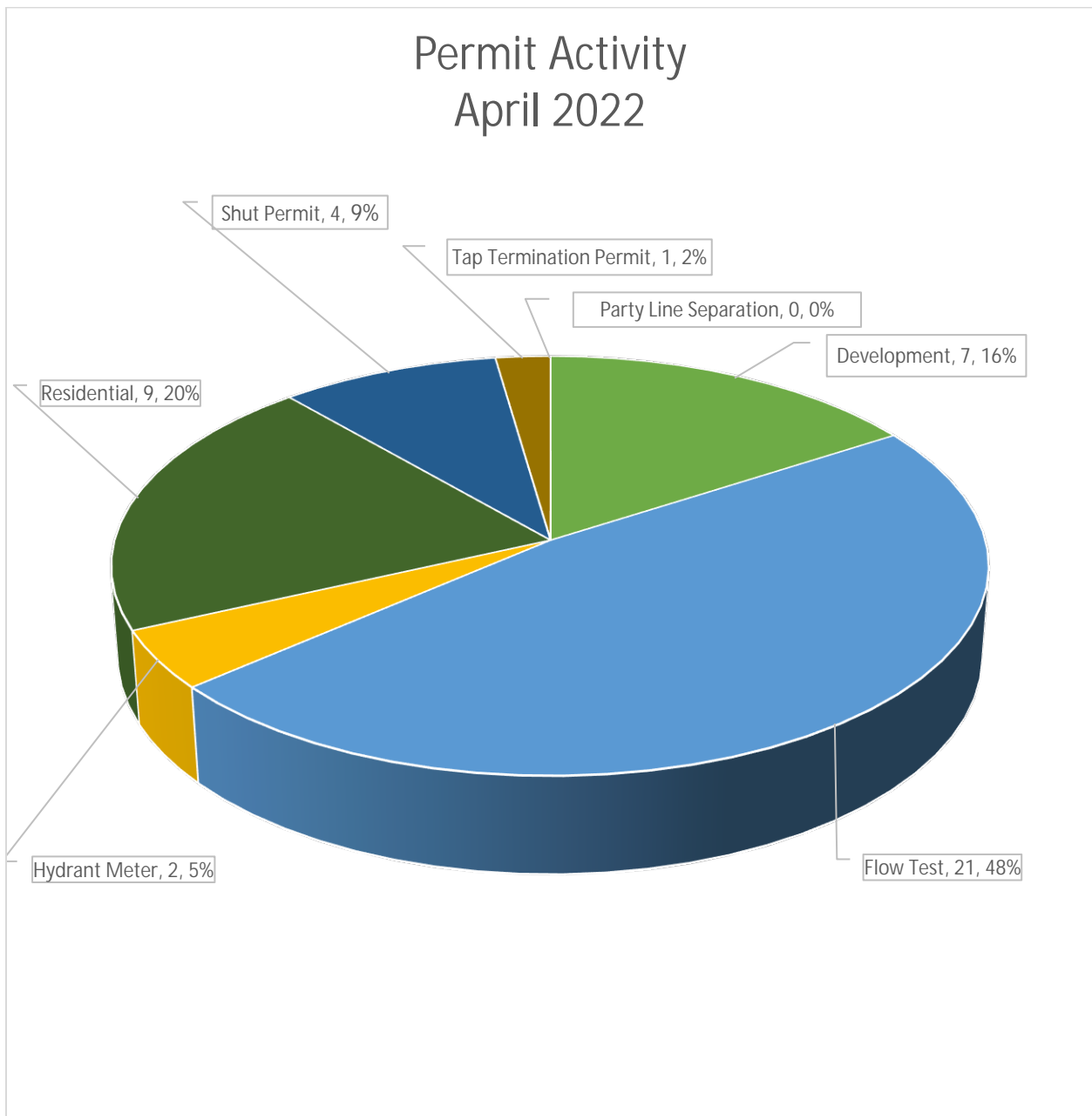
PWSA received 68 Inquiries, 60 Disputes, 38 Informal Complaints, 2 Formal Complaints, and 65 Stormwater Inquiries in the month of April 2022.



CUSTOMER SERVICE MONTHLY REPORT

PERMITS – APRIL 2022

In April 2022, staff issued 44 permits, as illustrated below. Additionally, Permits personnel processed 672 dye testing certification requests online, with 275 customers paying the processing fee via check and 397 paying via credit/debit card. Permits staff also assisted 275 customers via telephone in the month of April 2022.

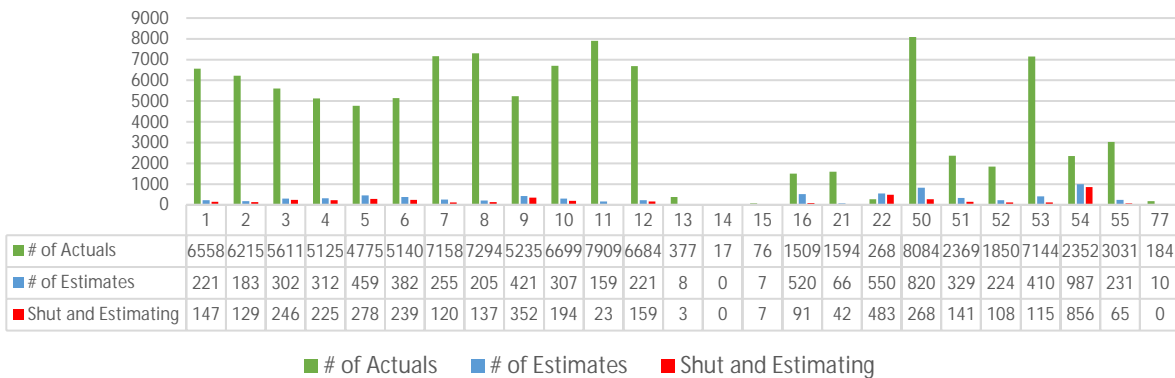


CUSTOMER SERVICE MONTHLY REPORT

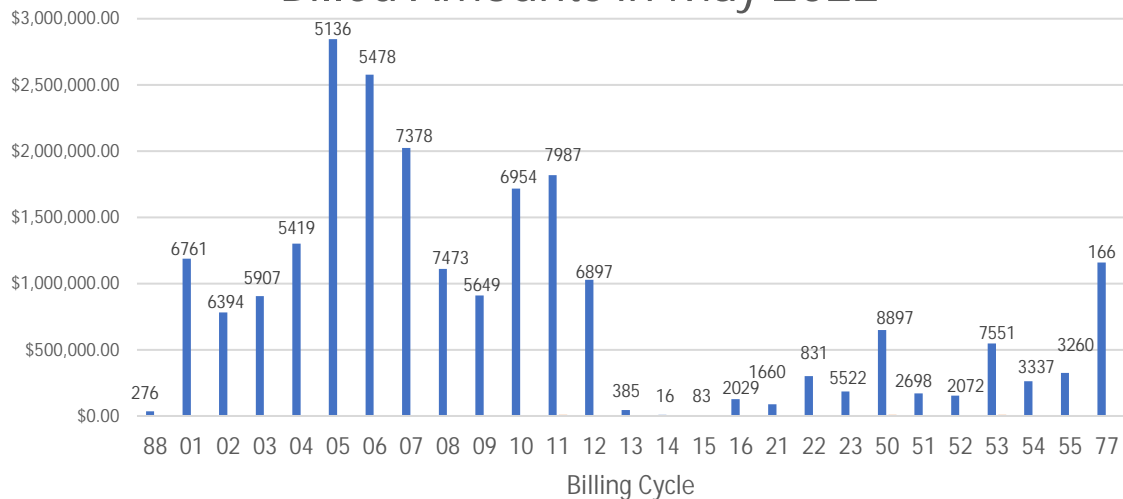
AMI and BILLING – MAY 2022

The Non-Access Campaign continues to address the 1,680 aged actual meter readings and the 2,308 estimated meter readings. Under the PA PUC Compliance Plan, customers are to be notified via letters and posting notices to make appointments for a meter upgrade. PWSA successfully upgraded 630 meters in May 2022. Additionally, 2,398 letters were issued, 371 properties were posted, and 135 accounts were shut for non-access. Billing received 395 final bill requests and processed them within 7-10 days. Billing totals for the month of May 2022 were 116,216 bills produced in the amount of \$22,271,634.53.

Billed Actual vs. Estimated Readings May 2022



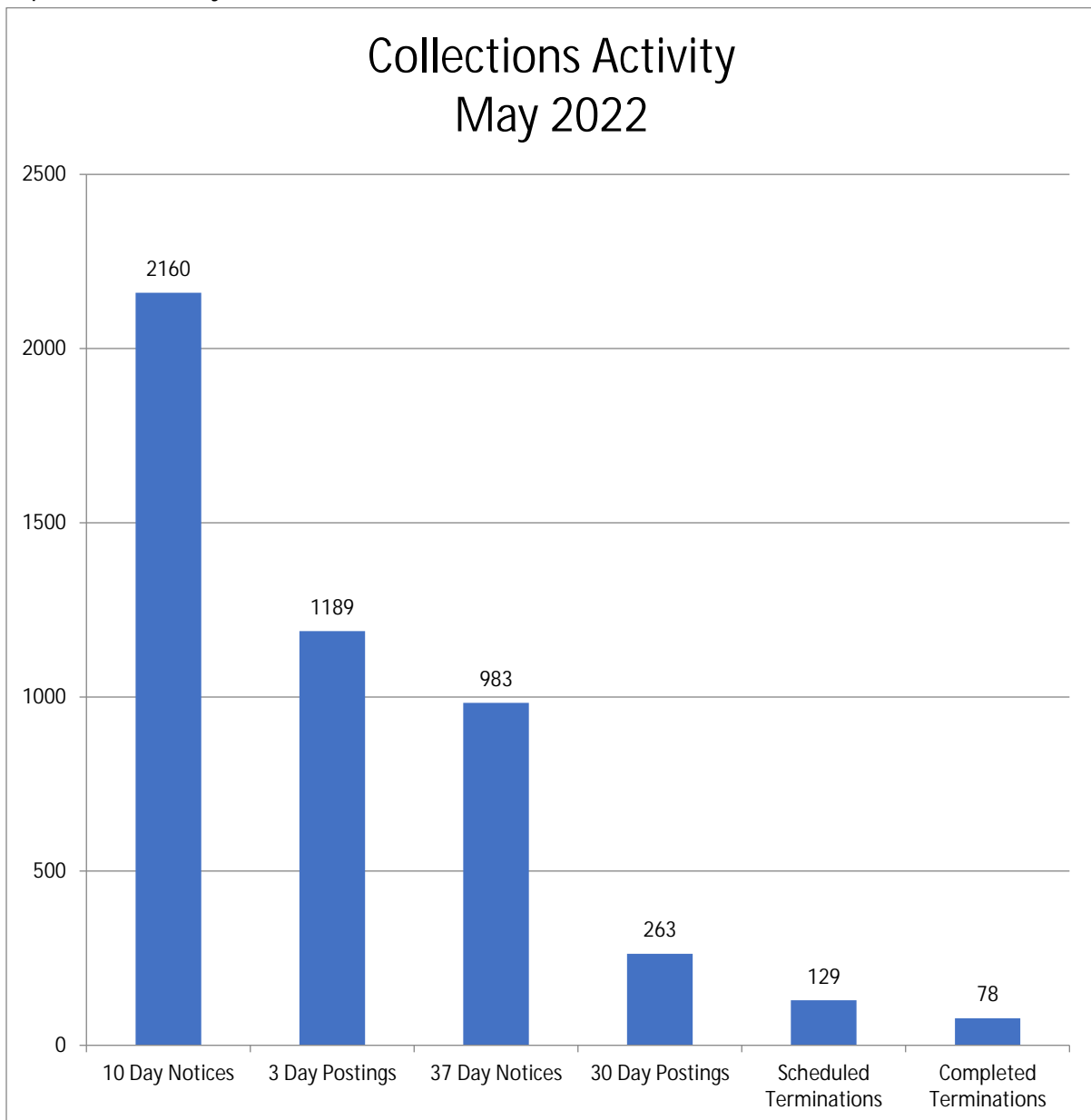
Billed Amounts in May 2022



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – MAY 2022

In May 2022, the total Collections were \$22,398,622, which was \$1,185,366 less than what was billed in April 2022. Out of a total of 2,099 customer inquiries to info@pgh2o.com, Collections personnel responded to 2,099, all within 48 hours. Payment plans for the month of May 2022 totaled 4,584, and there were 5,502 customers enrolled in the Bill Discount Program. Due to PWSA's ongoing COVID-19 response, the walk-up counter remains closed. The below chart represents activity on both residential and non-residential accounts.



CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – MAY 2022

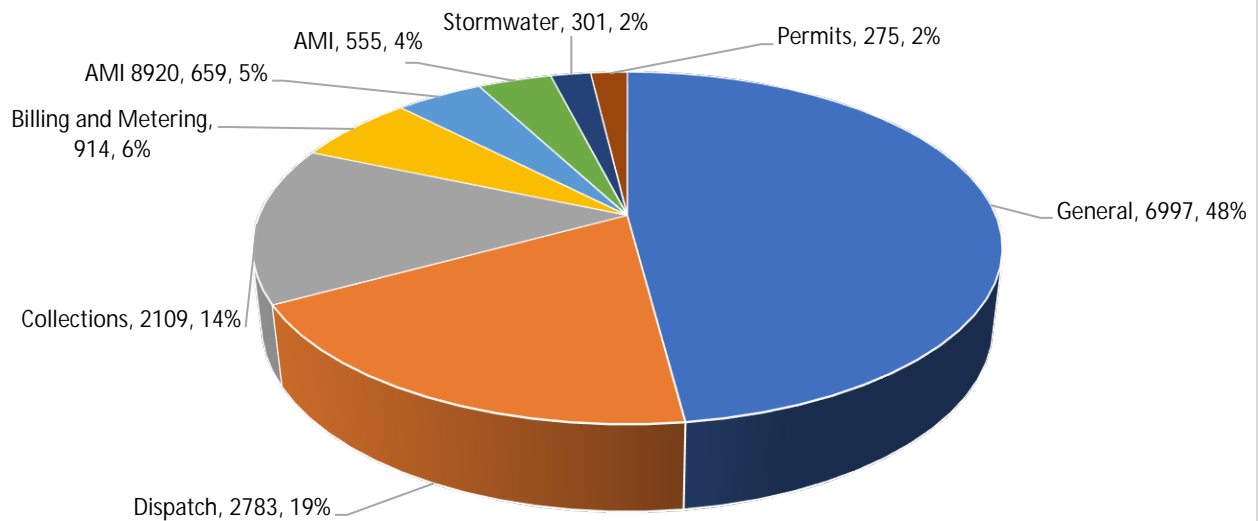
There were 21 business days and 1 holiday in the month of May 2022. In the month of May, the Contact Center’s attendance rate changed to 13 full time employees and 4 part time employees. Also, two new, full time employees began work on May 9, 2022 and May 23, 2022, respectively. In the next six weeks, these employees will complete our new hire training program. Of the 14,593 calls handled in the month of May 2022, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. The Contact Center yielded an abandonment rate of 2.3% with an average speed of answer of 1 minute and 8 seconds.

Queue Group Performance by Queue

1 - All Queues
 5/1/2022 - 5/31/2022 - 00:00 - 24:00
 Created on 6/1/2022 7:00:58 AM by TishlaJones

ACD queue	ACD queue name	ACD calls offered	ACD calls handled	Average speed of answer (hh:mm:ss)	Average ACD handling time (hh:mm:ss)	Abandon %	Service level %	Answer %
P001	General	7204	6997	00:01:28	00:05:54	2.9%	73.7%	97.1%
P004	Dispatch	2818	2783	00:00:09	00:01:53	1.2%	98.7%	98.8%
P002	Collections	2156	2109	00:01:42	00:07:22	2.2%	70.5%	97.8%
P003	Billing and Metering	950	914	00:01:24	00:05:33	3.8%	73.8%	96.2%
P006	AMI 8920	1265	659	00:00:08	00:03:49	0.2%	100.0%	52.1%
P005	AMI	571	555	00:00:40	00:03:47	2.8%	89.8%	97.2%
P009	Stormwater	314	301	00:01:23	00:07:06	4.1%	74.5%	95.9%
P008	Permits	299	275	00:00:15	00:02:36	2.3%	100.0%	92.0%
Totals		15577	14593	00:01:08	00:05:07	2.3%	81.0%	93.7%

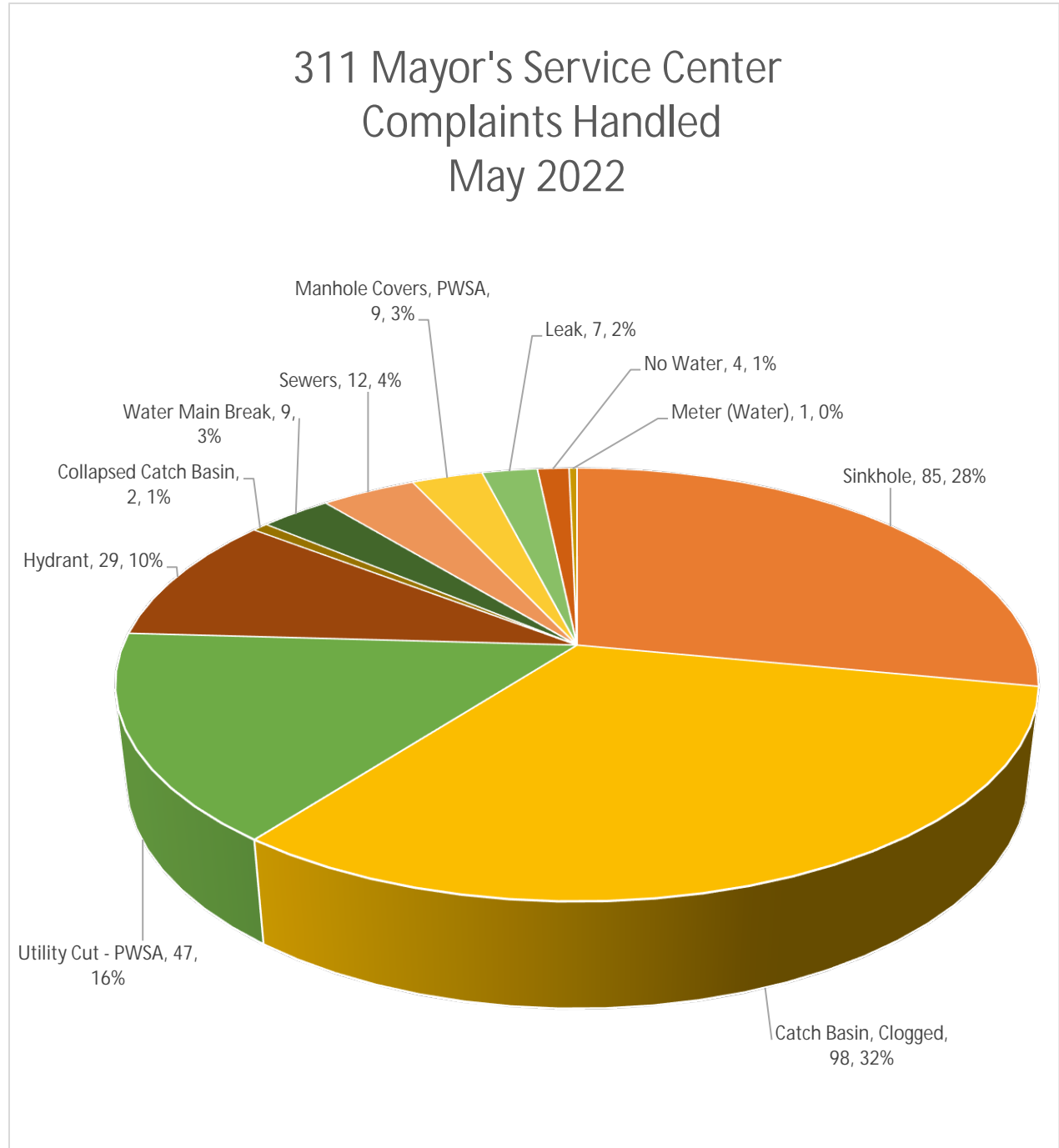
Customers Assisted Via Telephone - 14,593



CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – MAY 2022

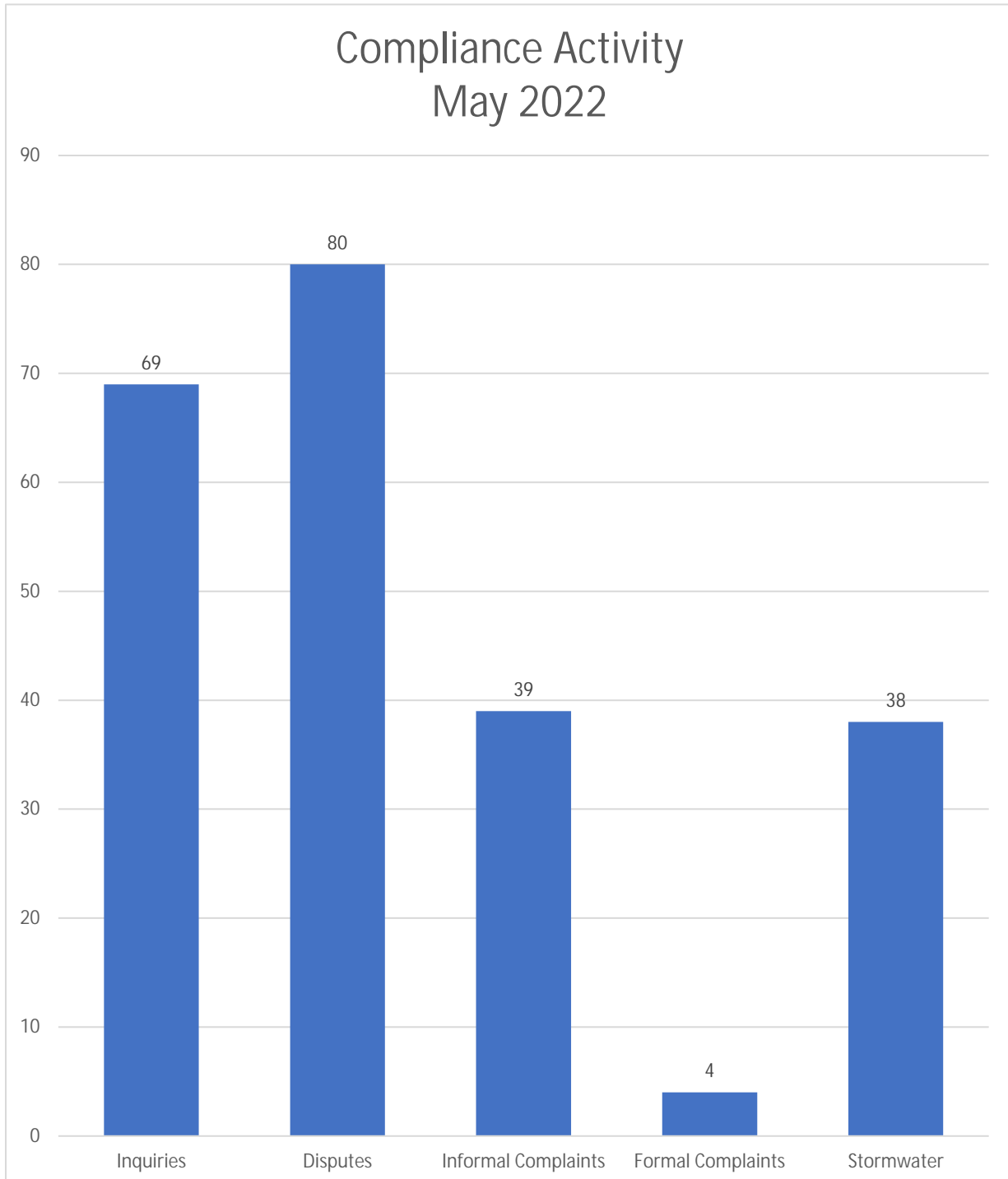
Dispatch responded to 2,783 calls for emergency service in May 2022. In this month, the Dispatchers issued 116 Interruptions of Service and facilitated 132 dig requests to Pennsylvania One Call.



CUSTOMER SERVICE MONTHLY REPORT

PUC COMPLIANCE – MAY 2022

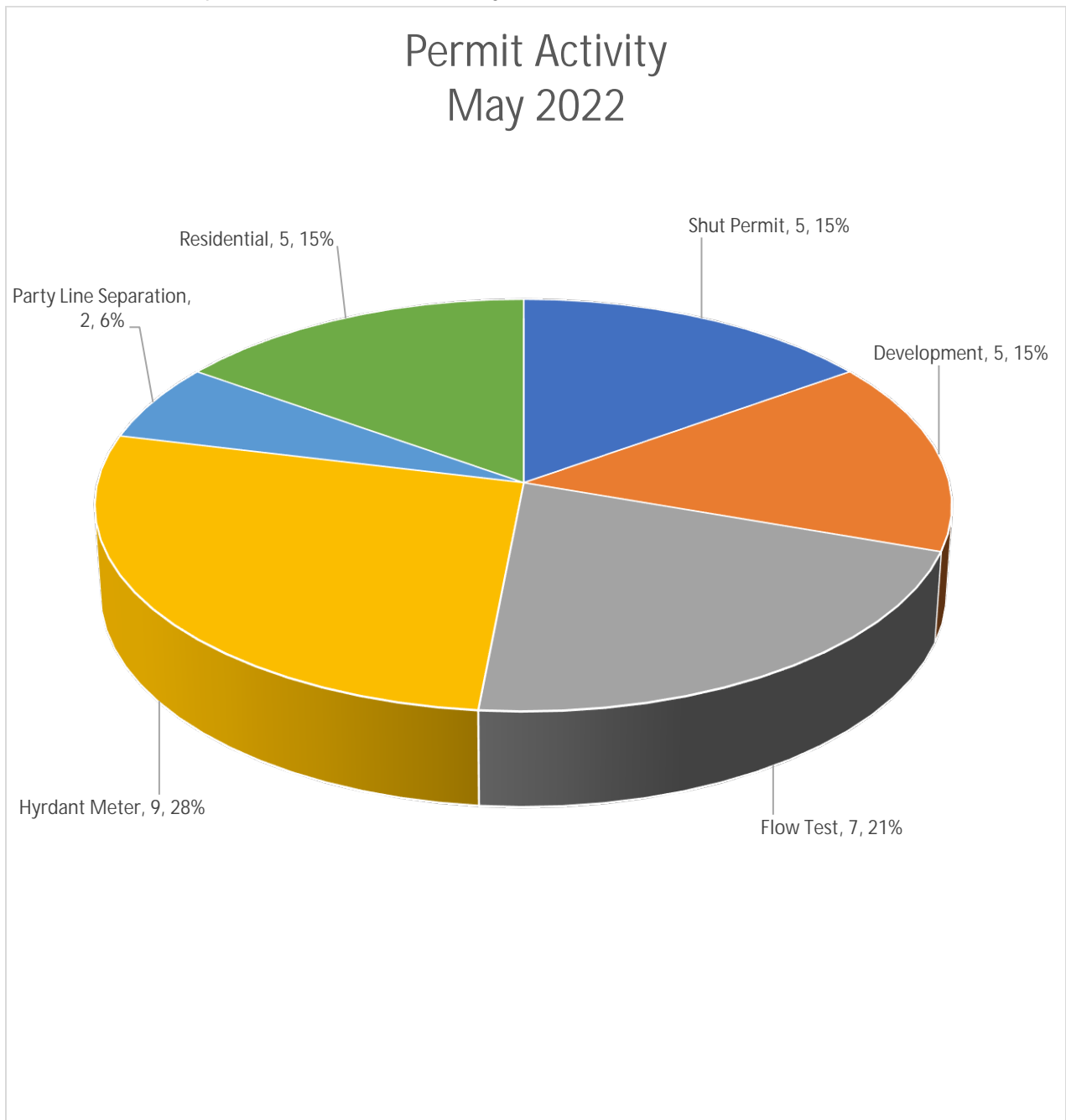
PWSA received 69 Inquiries, 80 Disputes, 39 Informal Complaints, 4 Formal Complaints, and 38 Stormwater Inquiries in the month of May 2022.



CUSTOMER SERVICE MONTHLY REPORT

PERMITS – MAY 2022

In May 2022, staff issued 33 permits, as illustrated below. Additionally, Permits personnel processed 705 dye testing certification requests online, with 234 customers paying the processing fee via check and 471 paying via credit/debit card. Permits staff also assisted 275 customers via telephone in the month of May 2022.

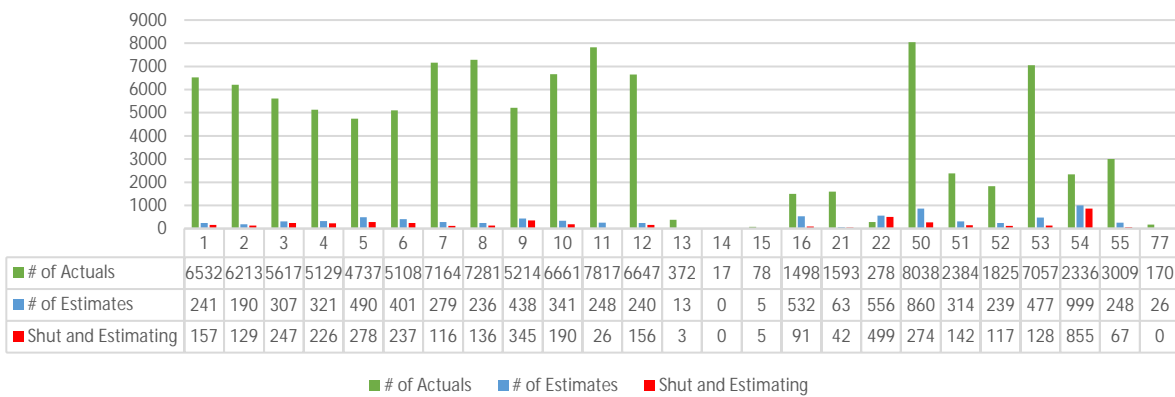


CUSTOMER SERVICE MONTHLY REPORT

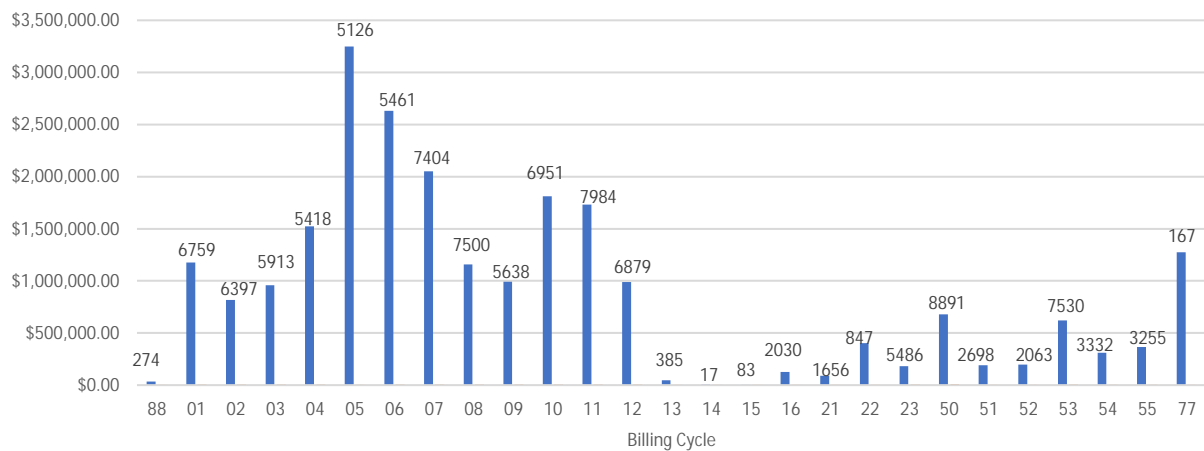
AMI and BILLING – JUNE 2022

The Non-Access Campaign continues to address the 1,571 aged actual meter readings and the 2,297 estimated meter readings. Under the PA PUC Compliance Plan, customers are to be notified via letters and posting notices to make appointments for a meter upgrade. PWSA successfully upgraded 702 meters in June 2022. Additionally, 757 letters were issued, 959 properties were posted, and 71 accounts were shut for non-access. Billing processed 559 final bill requests. Billing totals for the month of June 2022 were 116,144 bills produced in the amount of \$23,625,804.25.

Billed Actual vs. Estimated Readings June 2022



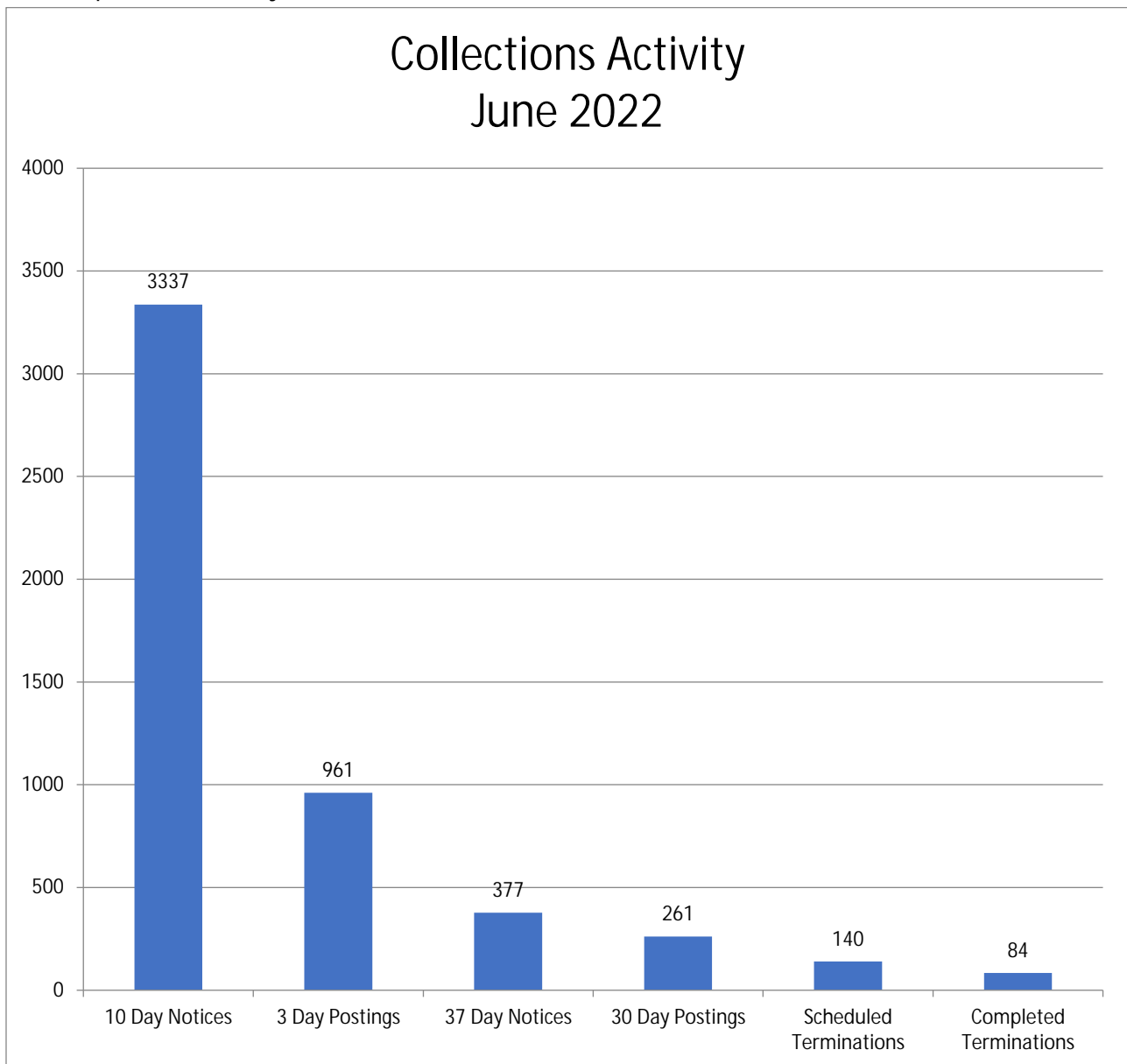
Billed Amounts in June 2022



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – JUNE 2022

In June 2022, the total Collections were \$23,659,749, which was \$1,388,115 *more* than what was billed in May 2022. Out of a total of 2,332 customer inquiries to info@pgh2o.com, Collections personnel responded to 2,282, all within 48 hours. Payment plans for the month of June 2022 totaled 4,795, and there were 5,537 customers enrolled in the Bill Discount Program. Due to PWSA's ongoing Covid-19 response, the walk-up counter remains closed. The below chart represents activity on both residential and non-residential accounts.



CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – JUNE 2022

There were 21 business days and 1 holiday in the month of June 2022. In the month of June, the Contact Center’s attendance rate changed to 14 full time employees and 4 part time employees. Of the 14,574 calls handled in the month of June 2022, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. The Contact Center yielded an abandonment rate of 2.2% with an average speed of answer of 1 minute and 2 seconds.

Queue Group Performance by Queue

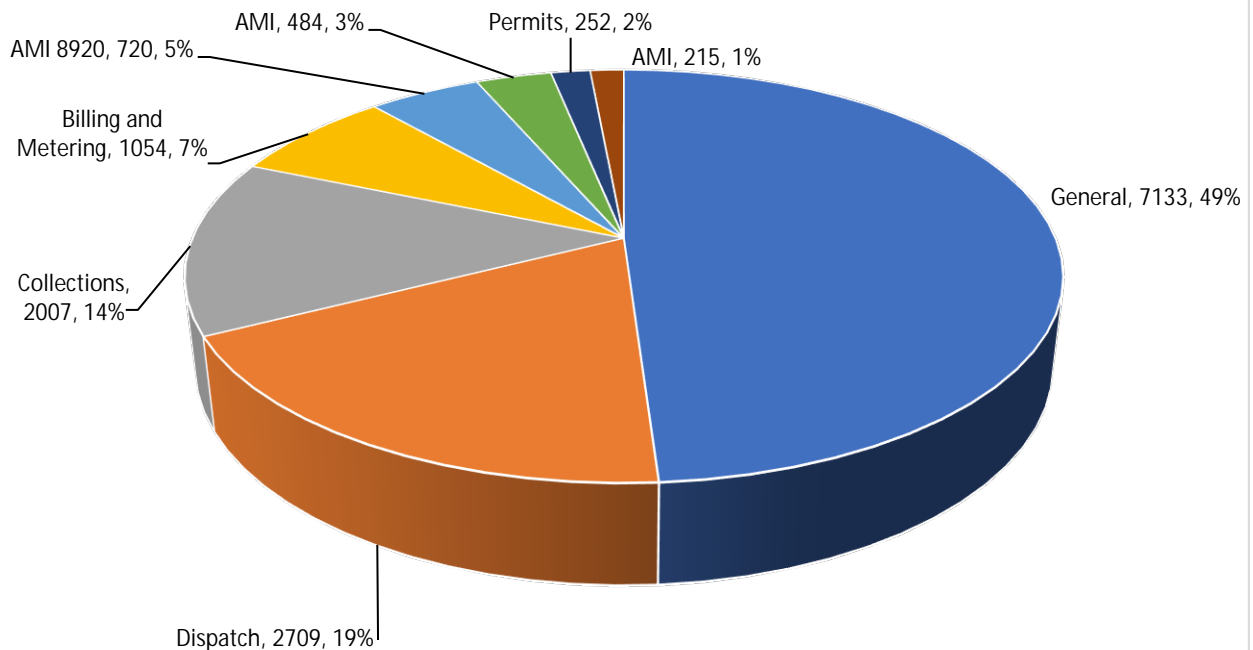
1 - All Queues

6/1/2022 - 6/30/2022 - 00:00 - 24:00

Created on 7/1/2022 7:07:15 AM by TishaJones

ACD queue	ACD queue name	ACD calls offered	ACD calls handled	Average speed of answer (hh:mm:ss)	Average ACD handling time (hh:mm:ss)	Abandon %	Service level %	Answer %
P001	General	7336	7133	00:01:15	00:05:46	2.8%	78.1%	97.2%
P004	Dispatch	2731	2709	00:00:09	00:01:45	0.8%	99.0%	99.2%
P002	Collections	2057	2007	00:01:52	00:06:51	2.4%	72.3%	97.6%
P003	Billing and Metering	1088	1054	00:01:10	00:05:22	3.1%	78.7%	96.9%
P006	AMI 8920	1216	720	00:00:08	00:04:13	0.4%	100.0%	59.2%
P005	AMI	486	484	00:00:38	00:03:50	0.4%	91.4%	99.6%
P008	Permits	284	252	00:00:15	00:02:42	3.9%	100.0%	88.7%
P009	Stormwater	231	215	00:01:21	00:07:23	6.9%	74.5%	93.1%
Totals		15429	14574	00:01:02	00:04:58	2.2%	83.5%	94.5%

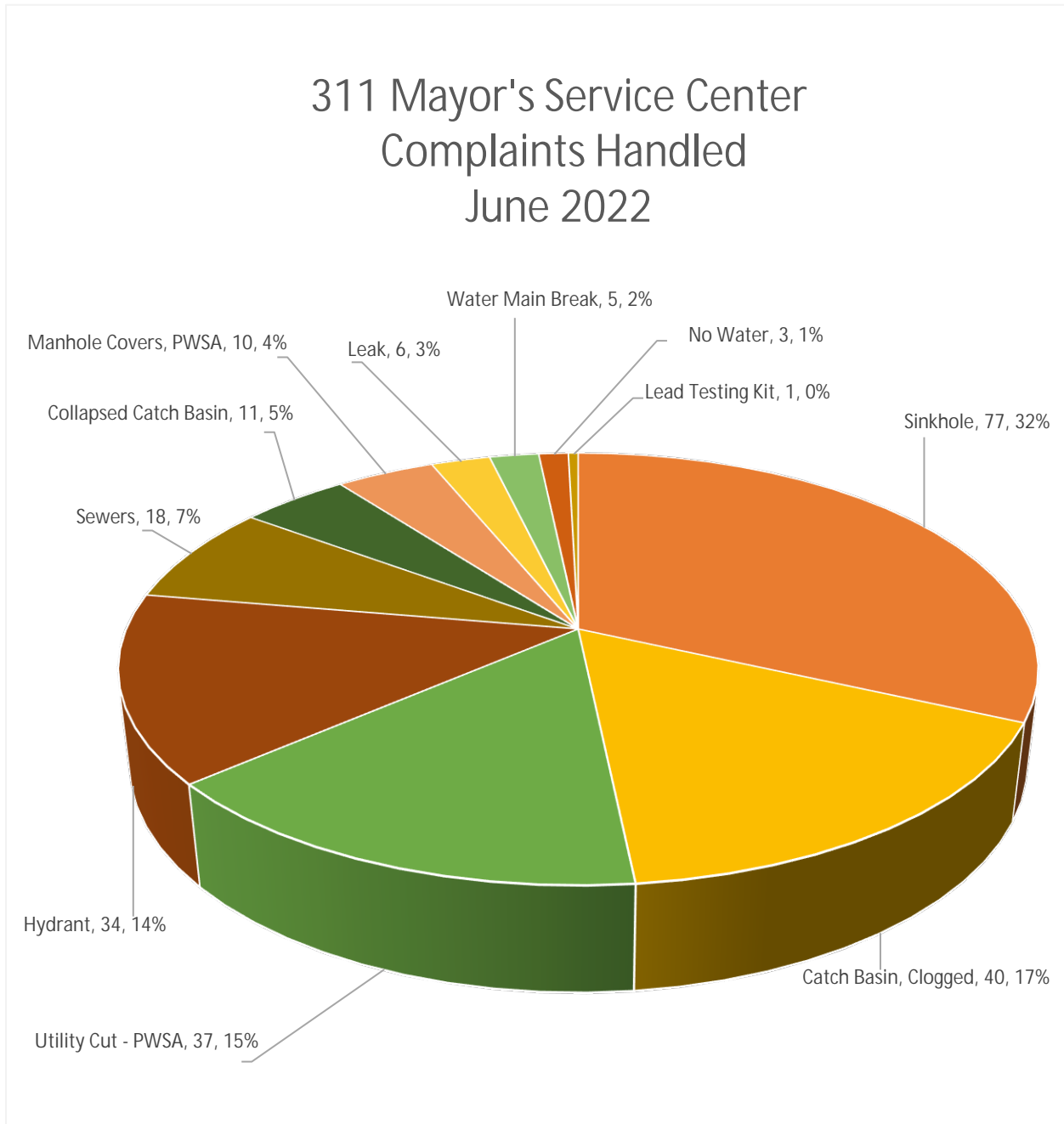
Customers Assisted Via Telephone - 14,574



CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – JUNE 2022

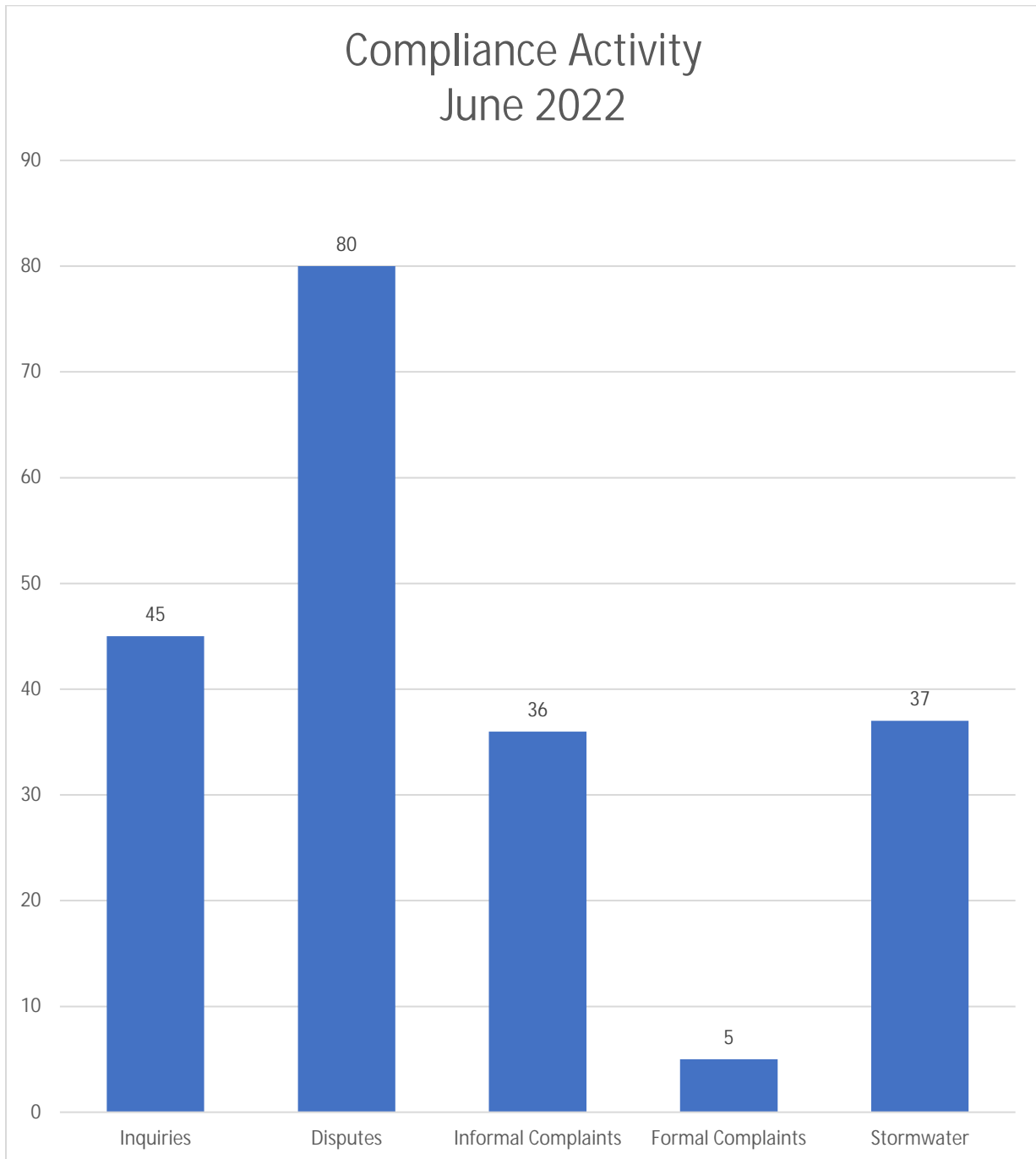
Dispatch responded to 2,709 calls for emergency service in June 2022. In this month, the Dispatchers issued 89 Interruptions of Service and facilitated 122 dig requests to Pennsylvania One Call.



CUSTOMER SERVICE MONTHLY REPORT

PUC COMPLIANCE – JUNE 2022

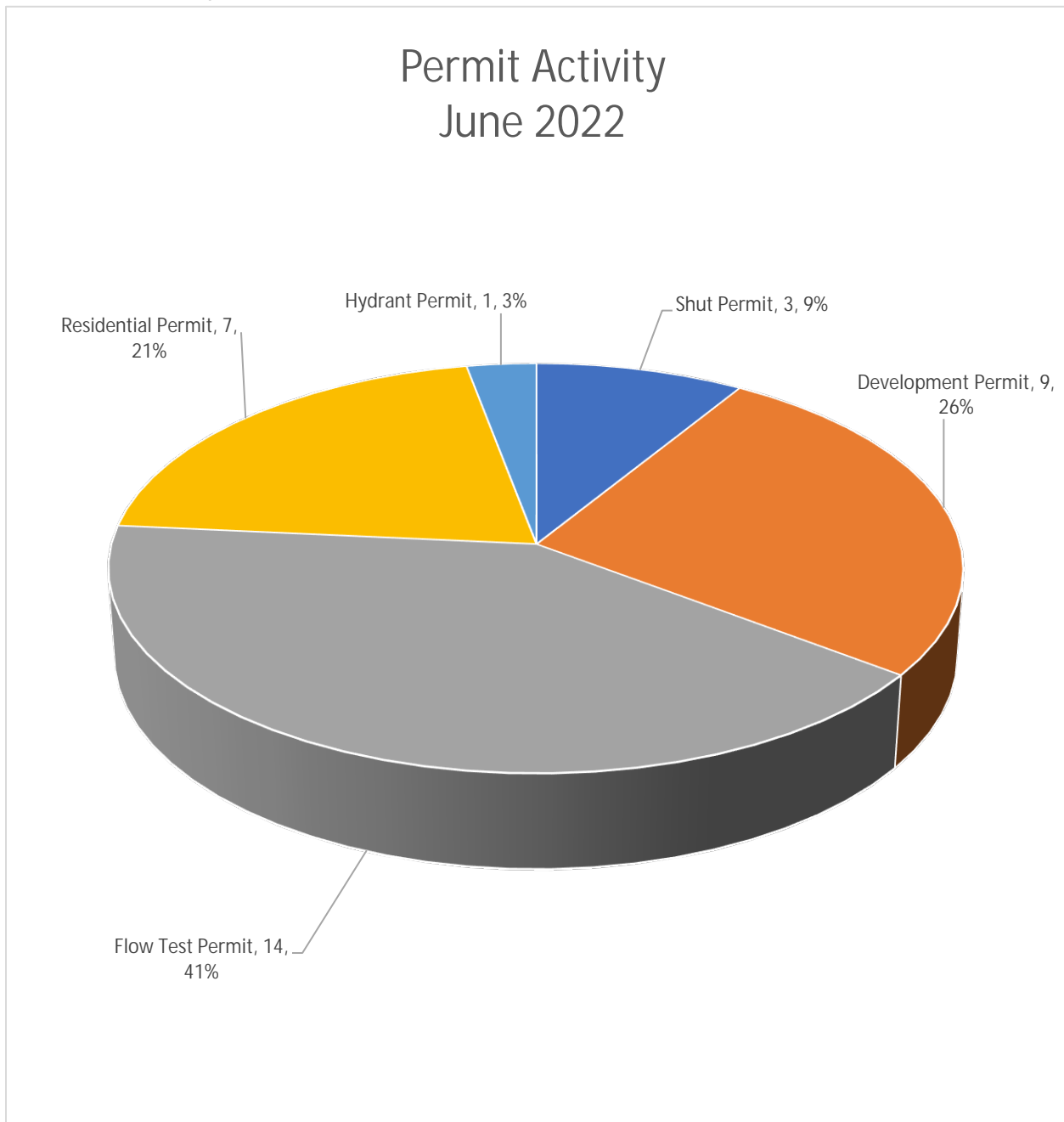
PWSA received 45 Inquiries, 80 Disputes, 36 Informal Complaints, 5 Formal Complaints, and 37 Stormwater Inquiries in the month of June.



CUSTOMER SERVICE MONTHLY REPORT

PERMITS – JUNE 2022

In June 2022, staff issued 34 permits as illustrated below. Additionally, Permits personnel processed 601 dye testing certification requests online, with 173 customers paying the processing fee via check and 428 paying via credit/debit card. Permits staff also assisted 252 customers via telephone in the month of June 2022.



Appendix F- Vacancy Report

910F Executive Office

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Executive Office	Intern	Vacant	Vacant
Totals			

911F Cust Service

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Customer Service	Senior PUC Compliance Manager	Vacant	Vacant
Customer Service	Lead Program Customer Assistance	Vacant	Vacant
Customer Service	Dispatcher	Vacant	Vacant
Customer Service	Customer Service Representative 2	Vacant	Vacant
Customer Service	Customer Service Representative 1	Vacant	Vacant
Customer Service	Customer Service Representative 1	Vacant	Vacant
Customer Service	Customer Service Representative 1	Vacant	Vacant
Customer Service	Customer Service Representative 3	Vacant	Vacant
Customer Service	Customer Service Representative 3	Vacant	Vacant

912F MIS

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
MIS	IT Project Manager	Vacant	Vacant
MIS	Technical Program Manager for Assest Manager	Vacant	Vacant
MIS	IT Administrative Assistant	Vacant	Vacant
MIS	GIS Intern	Vacant	Vacant

Totals

913F Finance

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Finance	Accounting Specialist I	Vacant	Vacant

Totals

915F HR

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Human Resources	Senior Manager, Organizational Development	Vacant	Vacant
Human Resources	Human Resources Analyst	Vacant	Vacant

Total

916F Legal

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Legal	Corporate Counsel	Vacant	Vacant
Legal	Paralegal	Vacant	Vacant
Legal	Administrative Assistant	Vacant	Vacant

Total

917F Safety and Security

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Safety and Security	Security Guard	Vacant	Vacant
Safety and Security	Security Guard	Vacant	Vacant
Safety and Security	Security Guard	Vacant	Vacant
Safety and Security	Security Guard	Vacant	Vacant
Safety and Security	Intern	Vacant	Vacant

Total

920F Warehouse

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Warehouse	Inventory Control Specialist 2	Vacant	Vacant
Warehouse	Inventory Control Specialist	Vacant	Vacant

Total

921F Public Affairs

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Public Affairs	Intern	Vacant	Vacant
Public Affairs	Intern	Vacant	Vacant

Total

930F Engineering

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Engineering	Chief Engineering Officer	Vacant	Vacant
Engineering	Project Manager	Vacant	Vacant
Engineering	Senior Manager, Construction	Vacant	Vacant
Engineering	Senior Project Manager-Water	Vacant	Vacant
Engineering	Engineering Technician III-Stormwater	Vacant	Vacant
Engineering	Engineering Technician III-Wastewater	Vacant	Vacant
Engineering	Inspector III	Vacant	Vacant
Engineering	Project Manager - Construction	Vacant	Vacant

Total

931F Environmental Compliance

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Environmental Compliance	Administrative Assistant	Vacant	Vacant

Total

321F Lab

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Lab	Senior Manager, Water Quality	Vacant	Vacant
Lab	Project Manager, Laboratory	Vacant	Vacant
Lab	Scientist 2	Vacant	Vacant
Lab	Chemist II - Year 7	Vacant	Vacant
Lab	Scientist 2	Vacant	Vacant
Lab	Scientist 1	Vacant	Vacant

Total

322F WTP

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Water Treatment Plant	Deputy Director of Production	Vacant	Vacant
Water Treatment Plant	Electrician	Vacant	Vacant
Water Treatment Plant	Plant Maintenance Foreman	Vacant	Vacant
Water Treatment Plant	Plant Operator - Class A	Vacant	Vacant
Water Treatment Plant	Stationary Engineer	Vacant	Vacant
Water Treatment Plant	Plant Operator	Vacant	Vacant

Total

325F Water Ops

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Water Ops	Chief of Operations Technical Support	Vacant	Vacant

Water Ops	Heavy Equipment Operator	Vacant	Vacant
Water Ops	Utility Worker 2 - Licensed	Vacant	Vacant
Water Ops	Utility Worker 2	Vacant	Vacant
Water Ops	Utility Worker I	Vacant	Vacant
Water Ops	Utility Worker I	Vacant	Vacant
Water Ops	Valve & Hydrant Operator	Vacant	Vacant
Water Ops	Truck Driver	Vacant	Vacant
Water Ops	Truck Driver	Vacant	Vacant
Water Ops	Truck Driver	Vacant	Vacant
Water Ops	Valve & Hydrant Specialist	Vacant	Vacant
Water Ops	Utility Worker I	Vacant	Vacant

Total

424F Sewer Ops

**2022 Vacancy
as of June 30, 2022**

Department	Title	Name	
Sewer Ops	Sewer Foreman	Vacant	Vacant
Sewer Ops	T.V. Truck Specialist	Vacant	Vacant
Sewer Ops	T.V. Truck Specialist	Vacant	Vacant
Sewer Ops	Utility Worker I	Vacant	Vacant
Sewer Ops	Utility Worker I	Vacant	Vacant
Sewer Ops	Utility Worker I	Vacant	Vacant
Sewer Ops	Utility Worker I	Vacant	Vacant

Total

Appendix G – Microfiltration Plant

Project Name	Project Number	Project Phase	Project Start (Year)	Capital Project Budget	Capital Budget Savings/Overage s	Project Commitment	Amount Paid	Amount Not Yet Invoiced	Amount Remaining	Actual 2017 Expenditures	Actual 2018 Expenditures	Actual 2019 Expenditures	Actual 2020 Expenditures	Actual 2021 Expenditures	Actual 2022 Expenditures Q1	Actual 2022 Expenditures Q2
MFP Transformer Repair and UPS Replacement	2017-322-103-0	Complete	2017	\$ 89,425.00	\$ -	\$ 89,425.00	\$ 89,392.76	\$ 32.24	\$ 32.24	\$ 1,674.00	\$ 87,718.76	\$ -	\$ -	\$ -		
MFP Assessment and Critical Process Improvements	2017-322-104-0	Construction	2017	\$ 4,636,897.38	\$ 813,488.29	\$ 3,823,409.09	\$ 3,461,872.89	\$ 361,536.20	\$ 1,175,024.49	\$ 350,929.77	\$ 1,226,932.79	\$ 920,585.11	\$ 802,982.93	\$ 157,140.71	\$ 3,301.58	
Highland Park Membrane Filtration Module Replacement Program	2017-322-105-0	Complete	2017	\$ 1,482,788.00	\$ 157,986.76	\$ 1,324,801.24	\$ 1,324,801.24	\$ -	\$ 157,986.76	\$ 532,974.00	\$ 52,403.83	\$ 189,029.00	\$ 547,232.73	\$ 3,161.68		
Aspinwall and MFP Fiberglass Reinforced Plastic Chemical Tank Inspections and	2017-322-102-0	Complete	2017	\$ 295,000.00	\$ 54,425.83	\$ 240,574.17	\$ 240,574.17	\$ -	\$ 54,425.83	\$ 19,231.66	\$ 142,826.48	\$ 783.02	\$ 45,434.58	\$ 32,298.43		
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Construction	2017	\$ 5,748,200.08	\$ 93,813.70	\$ 5,654,386.38	\$ 5,562,084.59	\$ 92,301.79	\$ 186,115.49	\$ -	\$ 641,342.70	\$ 3,494,954.26	\$ 1,220,467.55	\$ 160,698.14	\$ 35,685.23	\$ 8,936.71
Highland Reservoir #1 Parapet Wall Repairs	2017-322-106-1	Complete	2019	\$ 2,351,478.08	\$ 47,418.34	\$ 2,304,059.74	\$ 2,304,059.74	\$ -	\$ 47,418.34	\$ -	\$ -	\$ 240,266.12	\$ 1,953,034.67	\$ 110,758.95		
Highland Park MFP Improvements Project	2021-322-100-0	Construction	2021	\$ 444,500.00	\$ 418,708.29	\$ 25,791.71	\$ 25,491.71	\$ 300.00	\$ 419,008.29					\$ 25,491.71		
Permit (UV)	Operating	On-going	2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500.00	\$ 5,000.00	\$ -			
Chemicals	Operating	On-going	2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,170.50	\$ 24,867.80	\$ 51,753.90	\$ 2,540.66	\$ 3,685.50
Utilities	Operating	On-going	2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,360.00	\$ 4,360.00	\$ 13,312.19	\$ 117,901.96	\$ 169,211.11	\$ 43,912.22	\$ 30,010.68
Security	Operating	On-going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,365.13	\$ 316,850.63	\$ 385,274.24	\$ 88,781.12	\$ 86,198.27
Supplies	Operating	On-going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,350.00	\$ 99,163.00	\$ 76,288.86	\$ 3,500.00	\$ 11,803.80
PWSA Staff Hours	Operating	On-going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,486.40	\$ 925,554.55	\$ 472,846.72	\$ 93,318.80	\$ 64,994.40



May 13, 2022

Renee Diehl, Environmental Program Manager
Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222-4745

Re: Lead Program Quarterly Progress Report
Pittsburgh Water and Sewer Authority

Dear Ms. Diehl:

Pursuant to Paragraph 3.f. of the Consent Order and Agreement (COA) dated November 17, 2017, Pittsburgh Water and Sewer Authority (PWSA) is providing this Lead Program Quarterly Progress Report, every three (3) months following the date of the execution of the COA. This report will provide details on the progress and current status of each of the following:

- | | |
|--------------|---|
| Section 1: | Implementation of Corrosion Control Feasibility Study |
| Section 2: | Consumer Tap Notices |
| Section 3: | 72-hour Partial Line Replacement Sample Results |
| Section 4: | Partial Lead Service Line Replacements |
| Section 5: | Implementation of Community Environmental Project (CEP) |
| Section 6: | Identification of Lead Service Lines |
| Section 7: | Lead Service Line Replacements |
| Section 8: | Advisory Committee |
| Attachment A | Consumer Tap Notice: Example Letter |
| Attachment B | Post-Construction Sample Results |
| Attachment C | Partial Lead Service Line Replacements |

If any additional information is needed or if we can answer any questions, please let us know.

Regards,

William J. Pickering

William J. Pickering
Chief Executive Officer



Lead Program Quarterly Progress Report – May 15, 2022

Section 1 - Implementation of Corrosion Control Treatment Feasibility Study

Under paragraph 3.b.ii of the November 17, 2017 Consent Order & Agreement (COA), the Pittsburgh Water and Sewer Authority (PWSA) was required to submit an application for a permit to construct the corrosion control treatment facilities within ninety (90) days of the approval of the feasibility study. On April 27, 2018, PWSA received a letter from the Pennsylvania Department of Environmental Protection (PADEP) stating that the selection of orthophosphate as optimal corrosion control treatment for PWSA was approved.

PWSA completed design of the corrosion control chemical facilities and submitted a permit application to PADEP on May 10, 2018. Under paragraph 3.b.iii, PWSA was to complete construction of the modified corrosion control treatment facilities in accordance with the amended construction permit within 180 days of the PADEP issuing an amended construction permit. The PADEP issued the Construction Permit for the Orthophosphate Addition and Storage Project on September 24, 2018. PWSA received the Building Permit from the City of Pittsburgh's Department of Permits, Licenses, and Inspections (PLI) on January 17, 2019. A Letter Amendment to the COA provided for phased implementation of orthophosphate for corrosion control, and PWSA coordinated these start up dates with PADEP. PADEP inspected all three sites on March 26, 2019. The PADEP issued the amended Operation Permit for the corrosion control facilities on March 29, 2019.

PWSA began implementation of the modified corrosion control treatment facilities upon receipt of the amended Operation Permit from PADEP on March 29, 2019. PWSA introduced orthophosphate as approved in the amended permit, as follows:

- Bruecken Pump Station Application Point – Highland 2 Super System on April 1, 2019
- Aspinwall Pump Station Application point – Lanpher Reservoir Super System on April 15, 2019
- MFP1 and MFP2 sites – Highland 1 Reservoir Super System on April 29, 2019

PWSA is performing work on the Aspinwall Pump Station and Bruecken Pump Station corrosion control treatment facilities to change out the orthophosphate storage from totes to double water storage tanks. This conversion will increase storage capacity and improve loading and storage monitoring. A Certificate of Construction for the first tank conversion was submitted to PADEP on May 6, 2022. Upon issuance of an Operating Permit from PADEP work will begin to complete the second tank conversion at each station.



Also, this period PWSA performed maintenance and calibration on the flow meters associated with the MFP1 and MFP2 sites. These flow meters are used to pace orthophosphate feed rates to the Highland 1 Reservoir Super System.

Parallel to the implementation of orthophosphate, PWSA continues with the implementation of the Distribution System Monitoring Plan associated with orthophosphate addition. This monitoring program consists of the following components:

- Regulatory monitoring
 - Lead and Copper Rule (LCR)
 - Water Quality Parameter (WQP)
 - Revised Total Coliform Rule (RTCR)
 - Disinfection Requirements Rule (DRR)
 - Stage 2 Disinfectants and Disinfection Byproducts Rule (D/DBP)
- Supplemental Monitoring
 - Enhanced RTCR site monitoring
 - PRS monitoring stations
 - Lead service line profiles
 - Aspinwall Water Treatment Plant entry point
 - Orthophosphate dosage and optimization

The collected data indicates that the addition of orthophosphate continues to have a positive impact on corrosion. The monitoring stations appear to have established steady lead levels well below initial values and below the action level of 15 ppb. The residential lead profiles conducted at several locations throughout the city also indicate progress of lowering lead levels from the pre-orthophosphate addition. The corrosion control team is conducting a detailed investigation at some sites that exceeded action levels to gain better understanding for their occurrence.

PWSA recently completed a LCR Compliance Sampling period from July 2021 to December 2021 (2021b), with a 90th percentile result of 7.05 ppb. This follows a 90th percentile result for the January 2020 to June 2020 period of 5.1 ppb, and a 90th percentile result for the period of June 2019 to December 2020 of 10.0 ppb. PWSA has accordingly achieved two consecutive six-month rounds of compliance sampling that were below the 15 ppb action level and remains below that level. The January 2022 to June 2022 (2022a) Compliance Sampling is currently underway.

On April 20, 2020, PWSA submitted a permit application to PADEP to adjust pH and orthophosphate levels. The application was supplemented by a Corrosion Control Optimization Plan (Plan), and an amended permit was issued on November 4, 2020. The Plan activities included four “Events” and 40 weeks of monitoring, and the original scope of the plan was complete with a final report presented on August 27, 2021. The Plan included the adjustment of pH to 7.8 and orthophosphate dose to 1.7 mg/l.



During implementation of the Plan, extensive sampling was done throughout the distribution system to detect any impact these changes may have on lead release.

During a meeting with PADEP on October 21, 2021, PWSA presented the results of the Plan, and recommended increasing the orthophosphate dose and continuing the monitoring. A request to modify the Public Water Supply Operation Permit to allow this increased orthophosphate dose (1.9 mg/L) was submitted to PADEP on April 4, 2022.

Once the final orthophosphate dose is determined, PWSA will conduct two additional 6-month LCR compliance sampling events, after which a request for designation of optimal corrosion control treatment Water Quality Parameter (WQP) performance requirements will be submitted to PADEP.

Section 2 - Consumer Tap Notices

PWSA is conducting a LCR compliance sampling event for January 2022 to June 2022 (2022a). PWSA recently completed a LCR Compliance Sampling period from July 2021 to December 2021 (2021b), with a 90th percentile result of 7.05 ppb, which is below the action level of 15ppb. Therefore, Tier 2 public notice to PWSA customers is not required.

PWSA mails sample kits directly to customers at Tier 1 sites on the sampling plan. These kits include a one-liter sampling bottle, PADEP approved sampling instructions and return postage to the lab. Every customer who is served by water at sites that were sampled is mailed a sample results letter (See Attachment A) within 3 business days of PWSA receiving and conducting a Quality Assurance review of the results.

When PWSA receives a sample result that exceeds 10 ppb, a NSF-certified water filter pitcher and 6-month supply of filter cartridges is mailed to the customer, at no cost to the customer, the same business day. If any result exceeds 15 ppb total lead, PWSA's contracted laboratory informs PWSA by telephone within one hour. If the laboratory is unable to reach PWSA by telephone within one hour, the laboratory notifies the PADEP regional office by telephone within 2 hours. The laboratory also notifies the PADEP regional office in writing within 24 hours of the determination of the exceedance using the 24-hour notice form. This notification is either emailed or faxed, as long as the 24-hour deadline is met. Additionally, when any result exceeds 15 ppb total lead, PWSA Lead Help reaches out to the customer with the exceedance via an available phone number. If the customer's phone number(s) on file are not valid, a letter is sent via US mail to request updated contact information from the customer.

Section 3 - 72 Hour Partial Line Replacement Sample Results

As discussed below, per PUC order, effective April 4, 2021, partial service line replacements are no longer authorized.



25 Pa. Code § 109.1107(d)(4)(ii) states: *The system shall collect the partial lead service line replacement sample and report the results of the analysis to the owner and the residents served by the line within 3 business days of receiving the results.* Paragraph 3.a.iii and iv of the COA provide for follow up notice to residents who do not return samples and additional sampling and replacement cartridges for homes with partial replacements that exceed that lead action level of 15 ppb.

In accordance with 25 Pa. Code § 109.1107(d)(4)(ii), PWSA requests that property owners collect a water sample (post-construction sample) after every partial line replacement.

In addition, PWSA provides a sample kit to property owners to collect a water sample after full line replacements and private-only or public-only (non-lead on the private side) replacements that PWSA performs.

For all post-construction sample locations that exceed the lead action level of 15 ppb (partial or full line replacement), the customer is contacted via phone or email, in addition to receiving a letter with their sample results. If PWSA needs to reach a tenant with no contact information, PWSA Lead Help Desk will look up the owner in an attempt to contact them. Residents are reminded to continue to use the NSF-certified water filter pitcher provided at the completion of construction and are provided a test kit to collect another sample three months after the lead service line replacement. Additional water pitcher filter cartridges are provided at the time of delivery of the 3-month sample kit for partial line replacement locations.

If any post-construction sample comes back over 50 ppb (partial line or full line replacement), in addition to the above notifications, PWSA mobilizes to the property to assist with flushing the line. In these instances, the resident is given a sample kit and asked to collect a new water sample following the flush to ensure that the flushing was effective in reducing the post-construction lead levels.

If a resident did not return their water sample after any partial line replacement, the resident receives a second notice via door hanger reminder to return their sample kit.

Post-construction sample results (partial line and full line replacement) are provided in Attachment B. From July 1, 2016 through April 30, 2022, 8,942 public lead service lines have been replaced. Post-construction samples have been returned from 4,126 of those locations. From February 1, 2022 through April 30, 2022 (this quarterly progress report reporting period) 106 public lead service lines were replaced, and 19 of those locations returned a post-construction sample.

Section 4 - Partial Lead Service Line Replacements

25 Pa. Code § 109.1107(d)(4)(i) provides: *The system shall provide notice to residents of all buildings served by the line at least 45 days prior to commencing partial line replacement.* Paragraph 3.a.i. of the COA provides that PWSA *shall provide (via door hanger notification) an additional advance notification not more than five (5) days and not less than seventy-two (72) hours prior to the initiation of work.* Except for emergency lead service line replacements, PWSA provides the required notifications.



Per PUC Order, effective April 4, 2021 partial service line replacements are no longer authorized. If the homeowner does not sign an agreement to allow PWSA to replace their lead private side service line, they will be subject to termination of water service. When possible, PWSA Operations will provide temporary water service from the new public side service line until the private service line can be replaced to avoid termination.

In accordance with paragraph 3.a.v. of the COA, PWSA provides PADEP a weekly report of all emergency partial lead service line replacements where a 45-day notification in accordance with 25 Pa. Code § 109.1107(d)(4)(i) was not possible. After June 22, 2017, the only replacements not receiving the 45-day notification are those that were replaced due to an emergency such as a main break, service line break, or service line leak.

There were two Emergency Partial Lead Service Line Replacements reported during the quarterly reporting period February 1, 2022 through April 30, 2022. The complete list of lead service line replacements where a 45-day notice was not provided for the current reporting period is included in Attachment C.

All lead service line replacements, including partial replacements, are provided with information to flush the service line, a NSF-certified water filter pitcher and replacement filter cartridges, a post-construction water sample kit, and health information regarding lead service line replacement. Locations where a partial replacement is performed are also given a door hanger reminder to return the post-construction water sample kit if PWSA has not received the water sample results six weeks after construction.

Section 5 - Implementation of Community Environmental Project (CEP)

The CEP was conducted in accordance with the PADEP approval dated February 15, 2018 and subsequent revisions to the approval. Construction associated with the CEP portion of the Individual Lead Service Line Replacement (ILSLR) contract was initiated in mid-December 2018 and approximately \$1.81 million was spent by the end of January 2021, successfully completing the CEP Program.

PWSA considers the CEP program extremely successful, and a cornerstone of our commitment to our low-income customers. Through this program we have qualified and received agreements from 730 customers throughout our water service area. The \$1.8 million in CEP funding has provided for the replacement of over 382 private lead service lines – well above our initial goal of the program of working at about 400 homes and replacing 200 private lead service lines.

Section 6 - Identification of Lead Service Lines

On December 24, 2020, PWSA submitted a Supplemental Materials Evaluation report as required by Paragraph 3.c.iii of the COA. This multi-year effort consists of a comprehensive evaluation of all available methods for service line identification detailed in the July 31, 2019 Revised Service Line Material Inventory Approach approved by PADEP on June 26, 2020.



PWSA has an ongoing process to continuously update the service line material inventory based on data collected through various programs and construction activities, The data is published to our website searchable by address, and that information is updated monthly. Another supplemental materials evaluation will be presented to the PADEP by December 31, 2022 in accordance with Paragraph 3.c.iv of the COA.

Section 7 - Lead Service Line Replacements

PWSA began recording lead service line replacements in February 2016. A table of all lead service line replacements since July 1, 2016 was included in earlier Progress Reports. Since the requirement for mandatory lead service line replacement has ended, this table will not be included in this and future reports.

The PWSA Board approved a lead service line replacement policy (included in the February 15, 2018 quarterly report) that if there is lead on the public side service line, allows PWSA and PWSA contractors to replace the private side of the service line, with homeowner authorization, if lead or galvanized iron has been confirmed. This Policy was updated by the PWSA Board at their July 26, 2019 meeting to continue to offer no-cost private side lead or galvanized iron service line replacements when PWSA replaces the public side, as well as expand the program of offering an income-based reimbursement program to customers who want to replace their private side lead or galvanized iron service lines when PWSA is not replacing the public side.

From July 1, 2016 through April 30, 2022, 8,942 public lead and 5,903 private lead or galvanized iron service lines have been replaced by PWSA or a PWSA contractor.

Lead Service Line Replacements

- Small Diameter Water Main Replacement Contracts

PWSA service line replacement efforts include projects to replace small diameter water mains, and PWSA is currently offering public and private service line replacement during the Small Diameter Water Main Replacement (SDWMR) and BRT Water Main Replacement (BRT) contracts. The service line aspects of SDWMR programs will be similar to the LSLR program, with the difference being that all public service lines will be replaced, not only lead public service lines. Private lead and galvanized iron service lines will continue to be replaced at no direct cost to PWSA customers. The streets where the mains will be replaced include some priority lead areas and other locations with problematic mains.

BRT: The BRT contract was awarded March 2021 and will replace 2 miles of water main and 294 public and associated private lead service lines. The BRT construction started in early May 2021; this work is expected to be complete in May 2022.

2021 SDWMR: The 2021 SDWMR Program consists of two construction contracts for the replacement of water mains to replace 8 miles of water main and approximately 900 public and associated private



lead services lines. The SDWMR construction work was awarded in January 2022 and construction began in March 2022.

2022 SDWMR: The 2022 SDWMR Program consists of the replacement of water mains to replace approximately 8 miles of water main and approximately 950 public and associated private lead services lines. The 2022 SDWMR is currently in design and is anticipated to begin in early 2023.

In addition, PWSA is providing public and private lead service line replacement, where necessary, under Water Relay work orders.

- Lead Service Line Replacement Contracts

PWSA is offering full service line replacement during the LSLR contracts. PWSA Policy for the LSLR Program dictates that private lead and galvanized iron service lines will be replaced at no direct cost to PWSA customers with homeowner authorization, even at locations where the public side of the service line is verified as non-lead.

Neighborhood LSLR: The City of Pittsburgh recently approved the use of \$17.0 million in American Recovery Plan funds for PWSA to complete LSLRs within its service area. The neighborhood selection and approach was reviewed by the Community Lead Response Advisory Committee (CLRAC) members at the December 2021 meeting. This funding will allow for approximately 1,400 work locations. A Construction contract for this project was awarded in January 2022, and work began in April 2022.

Priority Locations LSLR: PWSA received a PENNVEST award on October 20, 2021 consisting of a \$1.8 million loan and \$2.8 million grant for lead service line replacement projects at priority locations. PWSA currently defines priority locations as childcare facilities and locations where we detect elevated lead levels. A Construction contract for this project was awarded in January 2022, and work began in March 2022.

PWSA Operations Urgent LSLR: PWSA has a construction contract to perform replacement of privately-owned lead service lines when PWSA Operations performs urgent replacements as a result of emergency line breaks or leaks. This program initially began in early December 2018, and a new contract was recently awarded. This is to prevent partial lead service line replacement caused by urgent replacement, and the private side replacement is completed at no cost to the customer.

PWSA coordinates with customers that have a private side lead service line to replace the lead service line during urgent replacements. Per PUC order, effective April 4, 2021, partial service line replacements are no longer authorized. If the homeowner does not sign an agreement to allow PWSA to replace their private side lead service line, they will be subject to termination of water service. When possible, PWSA will provide temporary water service from the new public side service line until the private service line can be replaced to avoid termination.



Pittsburgh
Water & Sewer
Authority

Section 8 - Advisory Committee

PWSA formed a Community Lead Response Advisory Committee (CLRAC) consisting of interested parties to the Pennsylvania Utilities Commission (PUC) rate filing, representatives of local community groups and a public health expert, based on a tariff settlement with the PUC. The CLRAC has met regularly and is working with PWSA to evaluate and advise PWSA on recommended modifications to the LSLR Program. The primary purposes of the CLRAC are to provide consultation and feedback on PWSA's LSLR Program and lead remediation efforts. All minutes of the CLRAC meetings are posted on the PWSA website. <http://lead.pgh2o.com/resources/clrac/>

Per PUC order, PWSA is required to terminate service to customers when we replace a public side service line, the private side is lead or galvanized iron, and the customer does not agree to have PWSA install a replacement private side service line. This requirement was effective in early April 2021.

ATTACHMENT A
CONSUMER TAP NOTICES: EXAMPLE LETTER

COMMUNITY LEAD RESPONSE



5/10/2022

John Doe
123 Main Street
Zionsville, IN, 46077

Kit ID#: 1234

2022 Lead and Copper Rule Notification

Dear John Doe,

Thank you for participating in the Pittsburgh Water and Sewer Authority's (PWSA) lead testing program. Your test kit is helping inform you and PWSA about the quality of our drinking water.

Sample Id	Collected On	Analyzed For	Result	Unit
1234	1/1/2020	Lead	0	ppb
1234	1/1/2020	Copper	15	ppb


The results of the sample taken from 123 Main Street, Zionsville, IN 46077 are listed in the above table. The Environmental Protection Agency (EPA) lead action level is 15 ppb and the copper action level is 1300 ppb.

What is the lead action level?

The lead action level is an EPA drinking water standard that requires water service providers to take additional steps to control lead levels when they reach or exceed 15 ppb. We ask residents from our service area to submit samples to help us determine if our treatment methods are effective at reducing corrosion from lead pipes. If more than ten percent of the samples we collect exceed the lead action level of 15 ppb, we must take certain actions like replace lead service lines and explore alternative water treatment methods. It is important to remember that this is not a safety standard because there is no safe level of lead.

Lead Help Desk:
412.255.8987
LeadHelp@pgh2o.com

Resources:
pgh2o.com/lead-facts

Stay Connected:
 [@pgh2o](https://twitter.com/pgh2o)

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

COMMUNITY LEAD RESPONSE



What do my results mean?

If the lead result listed above is 10 ppb or greater, you should have received a complimentary water filter pitcher and filters that are certified to remove lead delivered to the service address. If PWSA has previously provided you with a complimentary water pitcher, you will receive additional replacement filters. Please call our water testing partner, 120 Water, at 800-674-7961 if you did not receive these.

If the lead test result is ND ppb (Not Detected), this indicates that the laboratory equipment was not able to detect lead in the water sample.

Completing a lead test is a good first step in understanding your water quality. To check further for sources of lead, you can test your household plumbing for lead using swabs, which you can find at most home improvement stores. You can also check our online map at www.pgh2o.com/leadmap to see if your home has historical data on file indicating that lead pipe was used to build your service line.

If your lead test sample was not following a service line replacement, and you are interested in replacing your lead service line, PWSA's Lead Service Line Reimbursement Program offers up to 100% reimbursement and provides a minimum of a \$1,000 reimbursement based on a tiered income eligibility. In partnership with Dollar Energy Fund, PWSA will verify your income and determine the level of reimbursement you qualify for. Please contact **Dollar Energy Fund** today at **866-762-2348** to begin the reimbursement process.


What are the health effects of lead and copper?

According to EPA, "Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development."

According to EPA, "Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor."

Lead Help Desk:
412.255.8987
LeadHelp@pgh2o.com

Resources:
pgh2o.com/lead-facts

Stay Connected:
 [@pgh2o](https://twitter.com/pgh2o)

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

COMMUNITY LEAD RESPONSE



How does lead and copper exposure happen?

The Mayo Clinic states that most exposure to lead happens by ingesting paint chips or lead-contaminated dust. There can also be lead in soil and drinking water. Lead enters drinking water through corrosion in lead pipes or plumbing materials. The primary source of lead in PWSA's system are the old water service lines that connect homes to the water main in the street. Our water mains are not made of lead, and there is no lead in our water when it leaves the water treatment facilities.

What can I do to reduce exposure to lead and copper in drinking water?

If you know or suspect that you have lead service lines or plumbing, there are ways to reduce your exposure to lead in your drinking water:


- Run your water to flush out lead. If you haven't used your water for several hours, run your cold tap for one minute before using your water for cooking or drinking. If your home has a longer lead line, this may require flushing for a longer period of time. Using toilets, washing clothes, showering, or doing dishes before you drink from your tap are all ways that you can flush your water lines without wasting water.
- Use cold water for cooking and preparing baby formula. Lead dissolves more easily in hot water. Do not drink, cook with, or make baby formula using hot water.
- Do not boil water to remove lead. Boiling water does not remove or reduce lead exposure.
- Look for alternative sources or treatment of water. Purchase or use the provided NSF Water Filter that is certified to remove lead from your water. Customers can also choose to drink bottled water. Coupons for NSF Water Filters certified to remove lead are available at lead.pgh2o.com.
- Identify if your plumbing fixtures contain lead. Lead check swabs are available at hardware stores to help you detect lead on plumbing surfaces, such as solder and pipes. Consider replacing pipes and fixtures that contain lead.
- Contact us if you decide to replace your lead service line. Depending on your income, you may be eligible to have your lead water service line replaced at no cost.
- Get your child's blood tested. If you think that your child may have been exposed to lead, talk to your doctor about testing your child. Allegheny County requires all children to be tested for lead exposure at approximately 9-12 months and again at 24 months.

What is being done?

We are identifying and replacing thousands of lead service lines, with a goal of replacing all of the lead service lines in our system. As we identify the location of lead service lines, we make this information available to the public on our webpage at <http://lead.pgh2o.com>. Customers who want to replace their lead service lines on their own should contact our Lead Help Desk for more information about coordinating efforts.

Lead Help Desk:
412.255.8987
LeadHelp@pgh2o.com

Resources:
pgh2o.com/lead-facts

Stay Connected:
 [@pgh2o](https://twitter.com/pgh2o)

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

COMMUNITY LEAD RESPONSE



Where can I get more information?

For more information, visit the PWSA lead website at <http://lead.pgh2o.com> or call 412.255.8987.

Sincerely,

William J. Pickering

William Pickering

Chief Executive Officer

ATTACHMENT B
POST CONSTRUCTION SAMPLE RESULTS
(Partial Line and Full Line Replacement Locations)

Post-Construction Replacement Sample Results (All) Report as of April 30, 2022

Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5		
5020086	Upper Lawrenceville Relay	BLG	5309	HOLMES ST	Lead	Lead	Non-Lead	Copper	2016-07-05	2019-01-14	Yes		9.5	2017-07-11	2017-07-17														
5020093	Upper Lawrenceville Relay	BLG	5323	HOLMES ST	Lead	Lead Tailpiece	Non-Lead	Copper Tailpiece	2016-07-08	2019-01-17	Yes		3.9	2017-07-09	2017-07-17														
5078778	Ops	BLG	3522	SIMEN AVE	Lead	Lead	PEX	Copper	2016-07-11	2019-01-17	Yes	Emergency	10.2	2019-01-20	2019-03-20														
5017464	Ops	BLG_01	428	FISS ST	Lead	Lead	PEX	Not Replaced	2016-07-12		Yes	Emergency	14	2017-07-11	2017-07-20														
5020622	Upper Lawrenceville Relay	BLG	5331	HOLMES ST	Lead	Lead	Non-Lead	Copper	2016-07-12	2019-01-02	Yes		108	2019-01-04	2019-01-11														
5028213	Ops	BLG_01	1012	WINTERTON ST	Lead	Lead	PEX	Copper	2016-07-18	2019-05-31	Yes	Emergency	17	2017-07-25	2017-08-03	6.79	2019-06-01	2019-06-25											
5046129	Ops	BLG	4221	SHIELDS ST	Lead	Lead	PEX	Copper	2016-07-19	2019-02-06	Yes	Emergency	ND	2019-02-08	2019-02-19														
5003065	Ops	BLG_01	206	CHESTERFIELD RD	Lead	Lead	PEX	Not Replaced	2016-07-21		Yes	Emergency	ND	2017-07-15	2017-07-20														
5048521	Ops	BLG	5264	2ND AVE	Lead	Lead	PEX	Copper	2016-07-21	2019-01-09	Yes	Emergency	ND	2019-01-16	2019-01-22														
5020213	Upper Lawrenceville Relay	BLG	5109	CARNEGIE ST	Lead	Lead	Non-Lead	Copper	2016-07-25	2018-12-20	Yes		6.3	2017-07-09	2017-07-20	ND	2019-01-02	2019-01-11											
5020285	Upper Lawrenceville Relay	BLG_01	5108	CARNEGIE ST	Lead	Lead	Non-Lead	Copper	2016-07-25	2019-03-22	Yes		4	2017-07-02	2017-08-03	17.2	2019-03-23	2019-04-10											
5048522	Ops	BLG_01	5266	2ND AVE	Lead	Lead	PEX	Not Replaced	2016-07-26		Yes	Emergency	14	2017-07-11	2017-07-20														
5020233	Upper Lawrenceville Relay	BLG	5131.5	CARNEGIE ST	Lead	Lead	Non-Lead	Copper	2016-07-27	2019-01-15	Yes		3.2	2019-01-23	2019-02-04														
5020234	Upper Lawrenceville Relay	BLG	5133	CARNEGIE ST	Lead	Lead	Non-Lead	Copper	2016-07-27	2018-12-20	Yes		22	2017-07-09	2017-07-19	19	2017-10-30	2017-11-09											
5020237	Upper Lawrenceville Relay	BLG	5135	CARNEGIE ST	Lead	Lead	PEX	Copper	2016-07-27	2018-12-19	Yes		22	2017-07-02	2017-07-13	10	2017-08-03	2017-08-14	ND	2018-12-21	2019-01-07								
5020261	Upper Lawrenceville Relay	BLG	5156	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	2016-08-02		Yes		4.8	2017-06-30	2017-07-19														
5019695	Upper Lawrenceville Relay	BLG	5159	CARNEGIE ST REAR	Lead	Lead Tailpiece	Non-Lead	Copper Tailpiece	2016-08-03	2019-01-04	Yes		2.5	2017-07-05	2017-09-20														
5070381	Ops	A16_06	512	ARMANDALE ST	Lead	Lead	PEX	Copper	2016-08-03	2018-11-20	Yes	Emergency	5.6	2017-07-13	2017-07-20	ND	2018-10-31	2019-01-14											
5006770	Ops	BLG	525	MELWOOD AVE	Lead	PEX	PEX	Not Replaced	2016-08-04		No	Emergency	5.4	2017-07-06	2017-07-13														
5019696	Upper Lawrenceville Relay	BLG	5161.5	CARNEGIE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2016-08-04	2018-12-19	Yes		2.6	2017-07-01	2017-07-13	ND	2018-12-20	2019-01-07											
5019697	Upper Lawrenceville Relay	BLG	5163	CARNEGIE ST	Lead	Lead	Copper	Copper	2016-08-04	2018-12-19	Yes		4	2017-07-03	2017-07-13														
5019700	Upper Lawrenceville Relay	BLG	5165	CARNEGIE ST	Lead	Lead	Non-Lead	Copper	2016-08-05	2019-03-05	Yes		ND	2019-05-07	2019-05-15														
5051908	Ops	BLG	2300	PRIMROSE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2016-08-05	2019-01-22	Yes	Emergency	2.2	2019-01-24	2019-02-04														
5028480	Ops	BLG	6395	STANTON AVE	Lead	Lead	PEX	Copper	2016-08-08	2019-02-11	Yes	Emergency	ND	2017-11-13	2017-12-04														
5075090	Ops	BLG	17	DUNLAP ST	Lead	Lead	PEX	Copper	2016-08-08	2019-02-06	Yes	Emergency	ND	2019-03-23	2019-04-16														
5004258	Ops	BLG_01	3103	NIAGARA ST	Lead	Lead	PEX	Not Replaced	2016-08-12		Yes	Emergency	98	2017-07-07	2017-07-13														
5041493	Ops	BLG	7220	MEADE ST	Lead	Lead	PEX	Copper	2016-08-19	2019-01-09	Yes	Emergency	27	2017-07-08	2017-07-17	13	2017-07-28	2017-08-03											
5044460	Ops	BLG	1222	LANCASTER AVE	Lead	Lead	PEX	Copper	2016-08-25	2019-01-03	Yes	Emergency	ND	2017-09-02	2017-09-20	11.8	2019-01-04	2019-01-11											
5059590	Ops	A01_03	125	TUSCOLA ST	Lead	Lead	PEX	Copper	2016-08-30	2018-05-16	Yes	Emergency	ND	2018-10-24	2018-11-13														
5051624	Ops	BLG_01	7	HOLT ST	Lead	Lead	PEX	Not Replaced	2016-09-01		Yes	Emergency	8.6	2017-07-09	2017-07-17														
5071007	Ops	A16_06	1415	BUENA VISTA ST	Lead	Lead	PEX	Copper	2016-09-02	2018-11-30	Yes	Emergency	58	2017-07-09	2017-07-17	2.6	2018-10-27	2018-11-09	ND	2018-12-02	2018-12-17								
5037581	Ops	BLG	5508	BEACON ST	Lead	Lead	PEX	Copper	2016-09-07	2019-02-08	Yes	Emergency	9.2	2017-08-14	2017-08-22	1.54	2019-02-18	2019-02-27											
5072382	Ops	BLG	2329	HAZELTON ST	Lead	Lead	PEX	Copper	2016-09-08	2019-01-14	Yes	Emergency	7	2019-01-15	2019-01-22														
5050529	Ops	A14_03	2118	SIDNEY ST	Lead	Copper	PEX	Not Replaced	2016-09-08		No	Emergency	ND	2018-09-09	2018-10-12														
5072381	Ops	BLG	2331	HAZELTON ST	Lead	Lead	PEX	Copper	2016-09-09	2019-01-17	Yes	Emergency	338	2019-01-14	2019-01-28														
5022995	Upper Lawrenceville Relay	BLG	5430	KEYSTONE ST	Lead	Lead	Non-Lead	Copper	2016-09-13	2019-01-28	Yes		9.2	2017-08-02	2017-08-11	ND	2019-02-02	2019-02-12											
5022988	Upper Lawrenceville Relay	BLG	5431	KEYSTONE ST	Lead	Lead	Non-Lead	Copper	2016-09-14	2019-01-28	Yes		1.81	2019-01-30	2019-03-28														
5012454	Maryland Avenue Relay	BLG	927	MARYLAND AVE	Lead	Lead	Copper	Copper	2016-09-15	2019-01-15	Yes		8	2017-07-10	2017-07-21	9.9	2017-07-25	2017-09-20	4.9	2019-01-16	2019-01-28	ND	2019-01-23	2019-02-04					
5012500	Maryland Avenue Relay	BLG_01	911	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	2016-09-15		Yes		11	2017-07-08	2017-07-21														
5012501	Maryland Avenue Relay	BLG_01	915	MARYLAND AVE	Lead	Lead	Copper	Copper	2016-09-15	2019-08-19	Yes		9.7	2017-07-13	2017-07-21	10	2018-08-22	2018-09-06	59.1	2019-08-21	2019-09-03	ND	2019-08-29	2019-09-16					
5022990	Upper Lawrenceville Relay	BLG	5434	NATRONA WAY	Lead	Lead	Non-Lead	Copper	2016-09-15	2019-02-04	Yes		5.1	2017-07-07	2017-07-19	ND	2019-02-06	2019-02-19											
5022994	Upper Lawrenceville Relay	BLG	5438	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	2016-09-15		Yes		ND	2017-07-06	2017-07-19														
5040277	Ops	BLG	201	ELYSIAN ST	Lead	Lead	PEX	Copper	2016-09-15	2019-01-02	Yes	Emergency	10.3	2019-01-03	2019-01-11	8.9	2019-01-03	2019-01-23											
5072101	Ops	BLG	2510	MAPLE AVE	Lead	Lead	PEX	Copper	2016-09-16	2019-01-18	Yes	Emergency	14	2017-11-16	2017-12-01	4.06	2019-04-13	2019-04-24											
5066064	Ops	BLG	212	W NORTH AVE	Lead	Copper	PEX	Not Replaced	2016-09-25		No	Emergency	ND	2017-07-07	2017-10-04														
5018054	Ops		4838	HATFIELD ST	Lead	PEX	PEX	Not Replaced	2016-10-03		No	Emergency	ND	2018-07-31	2018-08-17														
5036901	Ops	BLG	1544	SHADY AVE	Lead	Lead	PEX	Copper	2016-10-04	2019-01-23	Yes	Emergency	ND	2017-08-02	2017-08-11	7.4	2019-01-25	2019-02-04											
5055674	Ops	BLG_01	53	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	2016-10-04		Yes	Emergency	69	2017-07-09	2017-07-17														
5050590	Ops	A14_03	2406	SIDNEY ST	Lead	Copper	PEX	Not Replaced	2016-10-05		No	Emergency	ND	2018-09-09	2018-10-12														
5047658	Ops	BLG	234	FLOWERS AVE	Lead	Lead	PEX	Copper	2016-10-19	2019-01-03	Yes	Emergency	8.6	2017-07-07	2017-07-13														
5122045	Spring Street Relay	BLG	10	SPRING STREET	Lead	Lead	Non-Lead	Copper	2016-10-20	2019-02-28	Yes		ND	2019-04-17	2019-04-30														
5122047	Spring Street Relay	BLG	12	SPRING STREET	Lead	Lead	Copper	Copper	2016-10-20	2019-01-28	Yes		ND	2019-01-30	2019-02-12														
5032416	Ops	BLG_01	7055	CHAUCER ST	Lead	Lead	PEX	Not Replaced	2016-10-21		Yes	Emergency	14	2017-07-06	2017-07-13														
5122046	Spring Street Relay	BLG	11	SPRING STREET	Lead	Lead	Non-Lead	Copper	2016-10-27	2019-01-28	Yes		14.7	2019-01-29	2019-02-06														
5054245	Ops	Private Reimbursement	146	S 17TH ST	Lead	Lead	PEX	Non-Lead	2016-10-31	2016-10-11	Yes	Emergency	3.1	2017-10-16	2017-10-26														
5122044	Spring Street Relay	BLG_01	9	SPRING STREET	Lead	Lead	Non-Lead	Not Replaced	2016-11-01		Yes		38	2017-07-13	2017-07-21	8.5	2018-01-30	2018-02-08											
5079437	Ops	Private Reimbursement																											

Post-Construction Replacement Sample Results (All) Report as of April 30, 2022

Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5	
5042353	Ops	BLG	1750	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2017-05-09		No	Emergency	2.6	2018-01-01	2018-01-12													
5059557	A01_03	A01_03	48	RUTH ST	Lead	Lead	PEX	Copper	2017-05-10	2018-05-24	Yes		4.8	2018-05-30	2018-06-15	10	2018-06-22	2018-07-08										
5050961	Ops	A14_03	2331	SARAH ST	Lead	Copper	PEX	Not Replaced	2017-05-11		No	Emergency	2	2018-01-14	2018-02-08													
5056124	A01_03	A01_03	53	RUTH ST	Lead	Lead	PEX	Copper	2017-05-11	2018-05-11	Yes		ND	2018-05-14	2018-05-24													
5059658	A01_03	A01_03	64	RUTH ST	Lead	Lead	PEX	Copper	2017-05-11	2018-05-09	Yes		27	2017-05-28	2017-06-05	13	2017-06-06	2017-06-23	ND	2018-05-10	2018-05-21							
5005633	Ops	BLG	2916	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-05-12	2019-01-11	Yes	Emergency	ND	2019-01-12	2019-01-22													
5056110	A01_03	A01_03	79	RUTH ST	Lead	Lead	PEX	Copper	2017-05-15	2018-05-10	Yes		36	2017-05-16	2017-05-24	42	2017-06-07	2017-06-23	4.1	2018-05-14	2018-05-24							
5056111	A01_03	A01_03	77	RUTH ST	Lead	Lead	PEX	Copper	2017-05-15	2018-05-10	Yes		19	2017-05-20	2017-09-22	9.5	2017-10-26	2017-11-09	ND	2018-05-20	2018-05-29							
5059560	A01_03	A01_03	54	RUTH ST	Lead	Lead	PEX	Copper	2017-05-15	2018-05-15	Yes		110	2017-05-16	2017-05-24	ND	2018-03-23	2018-03-29										
5058588	A02_02	A02_02	222	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	2017-05-16		Yes		5.3	2017-05-16	2017-05-30													
5058598	A02_02	A02_02	43	NATCHEZ ST	Lead	Lead	PEX	Copper	2017-05-16	2018-05-01	Yes		3.2	2018-05-03	2018-05-21													
5058599	A02_02	Private Reimbursement	223	NATCHEZ ST	Lead	Lead	PEX	Non-Lead	2017-05-16	2017-05-19	Yes		62	2017-06-07	2017-06-14	21	2017-08-08	2017-08-14	29	2018-02-28	2018-03-12							
5061522	A01_03	A01_03	148	RUTH ST	Lead	Lead	PEX	Not Replaced	2017-05-16		Yes		53	2017-07-19	2017-07-28	25	2017-08-17	2017-09-20										
5058521	A02_02	A02_02	313	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	2017-05-17		Yes		2.7	2017-05-17	2017-05-30													
5059647	A01_03	A01_03	100	RUTH ST	Lead	Lead	PEX	Copper	2017-05-17	2018-05-09	Yes		10	2017-05-23	2017-05-31	ND	2018-05-29	2018-06-06										
5061510	A01_03	A01_03	132	RUTH ST	Lead	Lead	PEX	Copper	2017-05-18	2018-05-08	Yes		37	2017-05-19	2017-05-30													
5061517	A01_03	A01_03	138	RUTH ST	Lead	Lead	PEX	Copper	2017-05-18	2018-05-08	Yes		100	2017-05-22	2017-05-30													
5058515	A02_02	Private Reimbursement	331	NATCHEZ ST	Lead	Lead	PEX	Copper	2017-05-19	2017-06-05	Yes		9.8	2017-05-20	2017-05-30													
5037952	Ops	Private Reimbursement	5407	GUARINO RD	Lead	Lead	PEX	Copper	2017-05-22	2017-08-28	Yes	Emergency	36	2017-05-25	2017-06-05	15	2017-09-12	2017-10-09	8.9	2018-02-07	2018-02-20							
5058830	A02_02	A02_02	438	NATCHEZ ST	Lead	Lead	PEX	Copper	2017-05-23	2018-04-26	Yes		34	2017-05-24	2017-06-05													
5042371	ES_1	BLG	6511	DARLINGTON RD	Lead	Lead	PEX	Copper	2017-05-24	2018-12-31	Yes		10	2017-05-26	2017-06-05	ND	2019-01-02	2019-01-11										
5042383	ES_1	BLG	6538	DARLINGTON RD	Lead	Lead	PEX	Not Replaced	2017-05-24		Yes		10	2017-06-27	2017-07-07													
5039231	ES_1	B07_05_A	6357-6359	ALDERSON ST	Lead	Lead	PEX	Copper	2017-05-25	2019-11-04	Yes		23	2017-05-25	2017-06-05	13	2017-06-08	2017-06-23	4.78	2019-11-05	2019-11-11							
5058926	A02_02	A02_02	222	PROSPECT ST	Lead	Lead	PEX	Copper	2017-05-25	2018-05-01	Yes		ND	2020-01-03	2020-01-22													
5059563	A01_03	A01_03	112	TUSCOLA ST	Lead	Lead	PEX	Copper	2017-05-25	2018-05-14	Yes		5.6	2017-05-27	2017-06-05	5.6	2018-05-16	2018-05-29										
5059564	A01_03	A01_03	116	TUSCOLA ST	Lead	Lead	PEX	Not Replaced	2017-05-25		Yes		2	2018-02-02	2018-02-08													
5059565	A01_03	A01_03	118	TUSCOLA ST	Lead	Lead	PEX	Copper	2017-05-25	2018-05-17	Yes		71	2017-05-27	2017-06-05	ND	2018-05-21	2018-06-05										
5058928	A02_02	A02_02	226	PROSPECT ST	Lead	Lead	PEX	Not Replaced	2017-05-26		Yes		1400	2017-05-30	2017-06-05	610	2017-06-06	2017-06-23	96	2017-07-10	2017-07-19	47	2018-02-03	2018-02-08	5.3	2019-02-20	2019-02-27	
5058930	A02_02	A02_02	234	PROSPECT ST	Lead	Lead	PEX	Not Replaced	2017-05-30		Yes		11	2017-06-04	2017-06-12													
5037031	ES_1	BLG_01	5535	BARTLETT ST	Lead	Lead	PEX	Copper	2017-05-31	2019-04-23	Yes		27	2017-10-30	2017-11-09	ND	2017-11-19	2017-12-06	7.08	2019-04-24	2019-04-30							
5018105	Ops	A07_07	142	HOME ST	Lead	Copper	PEX	Not Replaced	2017-05-31		No	Emergency	ND	2017-05-31	2017-06-12													
5018108	Ops	A07_07	148	HOME ST	Lead	Copper	PEX	Not Replaced	2017-05-31		No	Emergency	ND	2018-07-30	2018-08-14													
5059025	A02_02	A02_02	257	PROSPECT ST	Lead	Lead	PEX	Not Replaced	2017-06-01		Yes		23	2017-07-23	2017-07-31													
5049684	Ops	A15_05_A	1038	WELFER ST	Lead	Copper	PEX	Not Replaced	2017-06-01		No	Emergency	ND	2018-06-20	2019-01-14													
5058891	A02_02	A02_02	511-513	NATCHEZ ST	Lead	Lead	PEX	Copper	2017-06-02	2018-05-08	Yes		7.1	2017-06-09	2017-06-21													
5060815	Ops	BLG	402-404	SWEETBRIAR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2017-06-02	2019-02-15	Yes	Emergency	1.92	2019-04-26	2019-05-07													
5122587	Ops	BLG_02	1029	EVERGREEN AVENUE	Lead	Lead	PEX	Copper	2017-06-02	2020-02-17	Yes	Emergency	37	2017-09-25	2017-10-05	6.05	2020-05-04	2020-05-11										
5001227	Ops	BLG	1421	PENN AVE	Lead	Lead	PEX	Not Replaced	2017-06-06		Yes	Emergency	230	2017-06-09	2017-06-14	6.2	2018-01-27	2018-02-02										
5059356	Ops	A12_02	79	NORTON ST	Lead	Copper	PEX	Not Replaced	2017-06-20		No	Emergency	12	2018-06-11	2018-06-25													
5058934	Ops	A02_02	300	PROSPECT ST	Lead	Lead	PEX	Copper	2017-06-21	2018-05-02	Yes	Emergency	130	2017-07-18	2017-07-28													
5018484	Ops		4521	BUTLER ST	Lead	Lead	PEX	Not Replaced	2017-06-22		Yes	Emergency	ND	2017-06-23	2017-07-07	ND	2017-06-24	2017-07-07	2.5	2017-06-25	2017-07-07	5.1	2020-06-30	2020-07-13				
5058816	A02_02	A02_02	179	BELONDA ST	Lead	Copper	PEX	Not Replaced	2017-06-22		No		5.4	2017-06-27	2017-07-07													
5065834	Ops	BLG_01	1226	MONTEREY ST	Lead	Lead	PEX	Not Replaced	2017-06-22		Yes	Emergency	ND	2017-10-25	2017-11-07													
5042710	Ops		6346	CROMBIE ST	Lead	Copper	PEX	Not Replaced	2017-06-23		No	Emergency	23	2017-07-03	2017-07-13	5.3	2018-01-31	2018-02-08										
5058813	A02_02	A02_02	185	BELONDA ST	Lead	Copper	PEX	Not Replaced	2017-06-26		No		12	2017-06-26	2017-07-07													
5080514	Ops		3810	WEALTH ST	Lead	Copper	PEX	Not Replaced	2017-06-27		No	Emergency	11	2017-06-29	2017-07-07													
5050570	Ops	A14_03	2330	SIDNEY ST	Lead	Copper	PEX	Not Replaced	2017-06-27		No	Emergency	ND	2018-10-09	2018-10-18													
5012416	Ops	Ops	5723	KENTUCKY AVE	Lead	Copper	PEX	Not Replaced	2017-07-05		No	Emergency	ND	2018-08-22	2018-10-12													
5033349	Ops	BLG_01	7225	RACE ST	Lead	Lead	PEX	Copper	2017-07-12	2019-05-14	Yes	Emergency	31	2017-07-15	2017-07-20	24	2017-07-26	2017-10-05	4	2018-03-08	2018-03-26	7.25	2019-05-20	2019-05-29				
5003596	Ops-Unlisted	BLG_02	2701	5TH AVE	Lead	Lead	PEX	Not Replaced	2017-07-13		Yes	Emergency	12	2017-07-14	2017-07-21													
5051699	Ops		2609	STELLA ST	Lead	Copper	PEX	Not Replaced	2017-07-13		No	Emergency	34	2017-07-15	2017-07-28													
5071736	Ops		2451	SNYDER ST	Lead	Copper	PEX	Not Replaced	2017-07-14		No	Emergency	200	2017-07-14	2017-07-28													
5018128	Ops	A07_07	140	47TH ST	Lead	Lead	PEX	Copper	2017-07-14	2018-08-23	Yes	Emergency	19	2017-08-03	2017-08-14	3.9	2017-10-10	2017-10-26										
5036554	Ops		1444	BEECHWOOD BLVD	Lead	PEX	PEX	Not Replaced	2017-07-17		No	Emergency	3.4	2017-07-21	2017-07-28													
5080504	Ops		3815	WEALTH ST	Lead	Copper	PEX	Not Replaced	2017-07-17		No	Emergency	5.3	2017-07-23	2017-08-03													
5061204	A04_04	A04_04	607	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2017-07-19		No		6.1	2017-07-28	2017-08-08													
5067719	BLG		1038	GOEHRING ST	Lead	Lead	PEX</																					

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5				
5041887	Ops		314	S LEXINGTON AVE	Lead	Copper	PEX	Not Replaced	2017-09-18		No	Emergency	4.7	2017-09-26	2017-10-05																
5004432	Ops	BLG_01	3316	HARDIE WAY	Lead	Lead	PEX	Not Replaced	2017-09-20		Yes	Emergency	19	2017-09-26	2017-10-26																
5020739	Ops		5549	CAMELIA ST	Lead	Copper	PEX	Not Replaced	2017-09-25		No	Emergency	ND	2017-10-03	2017-10-12																
5048649	Ops	BLG	231	WINSTON ST	Lead	Lead	PEX	Copper	2017-09-25	2019-02-08	Yes	Emergency	ND	2019-03-28	2019-04-10																
5006752	A06_06	A06_06	3451	MILWAUKEE ST	Lead	Lead	PEX	Copper	2017-09-26	2018-06-07	Yes	Emergency	110	2017-09-27	2017-10-05	7.5	2017-09-28	2017-10-09	7.9	2017-10-10	2017-10-18										
5006873	A06_06	A06_06	3376	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-09-26	2018-06-06	Yes	Emergency	810	2017-09-26	2017-10-05	1500	2017-09-28	2017-10-16	86	2017-09-29	2017-10-26	80	2017-10-18	2017-11-03	9.8	2018-01-28	2018-02-08				
5014180	Ops		344	W PENN PL	Lead	Lead	PEX	Not Replaced	2017-09-26		No	Emergency	25	2017-09-28	2017-10-09																
5019680	Ops	Private Reimbursement	5205	PENN AVE	Lead	Lead	PEX	Copper	2017-09-26	2017-09-27	Yes	Emergency	22	2017-09-27	2017-10-09	11	2017-10-26	2017-11-08													
5006889	A06_06	A06_06	3367	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-09-27	2018-05-24	Yes	Emergency	5.6	2017-09-28	2017-10-09	30	2017-09-30	2017-10-12	2.2	2017-10-18	2017-10-31	4	2018-05-25	2018-06-08							
5006890	A06_06	A06_06	3369	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-09-27	2018-05-24	Yes	Emergency	5.4	2017-09-28	2017-10-09	7.2	2017-10-04	2017-10-12	ND	2017-10-19	2017-10-31										
5006891	A06_06	A06_06	3363	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-09-27	2018-05-25	Yes	Emergency	9.8	2017-09-28	2017-10-09	30	2017-09-28	2017-10-09													
5006892	A06_06	A06_06	3365	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-09-27	2018-05-10	Yes	Emergency	38	2017-09-28	2017-10-09	15	2017-09-28	2017-10-09	3.2	2017-10-18	2017-10-31										
5012202	Ops-Unlisted	BLG_02	342	DENNISON AVE	Copper	Lead	PEX	Not Replaced	2017-09-27		Yes	Emergency	ND	2017-09-28	2017-10-09																
5038336	Ops	A05_05	5870	PHILLIPS AVE	Lead	Lead	PEX	Copper	2017-09-27	2018-05-03	Yes	Emergency	700	2017-09-29	2017-10-10	9	2017-11-16	2017-12-01													
5037167	Ops		1807	WIGHTMAN ST	Lead	Non-Lead	PEX	Not Replaced	2017-09-28		No	Emergency	7.5	2018-03-21	2018-03-29																
5038904	A05_05	A05_05	2365	SHERBROOK ST	Lead	Copper	PEX	Not Replaced	2017-10-02		No	Emergency	7.3	2017-10-04	2017-10-18																
5038907	A05_05	A05_05	2355	SHERBROOK ST	Lead	Copper	PEX	Not Replaced	2017-10-02		No	Emergency	3.2	2017-10-02	2017-10-12																
5078151	Ops	BLG	3406	GASS AVE	Lead	Lead	PEX	Copper	2017-10-02	2019-02-22	Yes	Emergency	21	2017-11-07	2017-11-21	12	2017-12-04	2017-12-15													
5018501	Ops-Unlisted		181	46TH ST	Lead	Copper	PEX	Not Replaced	2017-10-03		No	Emergency	ND	2017-10-06	2017-10-18																
5052645	Ops	BLG	3227	JOSEPHINE ST	Lead	Lead	PEX	Not Replaced	2017-10-04		Yes	Emergency	15	2017-10-08	2017-10-26	ND	2017-11-06	2017-11-27													
5038880	A05_05	Private Reimbursement	2343	ELDRIDGE ST	Lead	Lead	PEX	Non-Lead	2017-10-05	2017-10-20	Yes	Emergency	35	2017-10-19	2017-10-31	8.8	2017-11-04	2017-11-20													
5038933	A05_05	A05_05	2331	PITTOCK ST	Lead	Lead	PEX	PEX	2017-10-05	2017-10-05	No	Emergency	ND	2017-10-11	2017-10-26																
5012400	Ops	A18_08	5726	HOWE ST	Lead	Lead	PEX	Copper	2017-10-05	2018-11-19	Yes	Emergency	240	2017-10-08	2017-11-03	4.1	2017-10-18	2017-10-26	ND	2018-11-21	2018-12-05										
5074218	Unknown	BLG_02	2540	SPRING GARDEN AVE	Lead	Unknown	PEX	Not Replaced	2017-10-07		Yes	Emergency	4.6	2017-10-10	2017-10-26																
5035607	Ops		813	HASTINGS ST	Lead	PEX	PEX	Not Replaced	2017-10-11		No	Emergency	2.4	2018-04-10	2018-04-19																
5074175	Ops		2728	SPRING GARDEN AVE	Lead	Copper	PEX	Not Replaced	2017-10-13		No	Emergency	12	2017-10-13	2017-10-26																
5046586	Ops	BLG	356	BIGELOW ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2017-10-14	2019-02-25	Yes	Emergency	ND	2019-07-08	2019-07-15																
5041472	Ops		111	S LEXINGTON AVE	Lead	Copper	PEX	Not Replaced	2017-10-19		No	Emergency	2.1	2018-03-16	2018-03-28																
5077245	Ops		1215	HODGKISS ST	Lead	Copper	PEX	Not Replaced	2017-10-19		No	Emergency	4.8	2017-10-24	2017-11-07																
5022553	Ops	BLG	5419	BUTLER ST	Lead	Copper	PEX	Not Replaced	2017-10-21		No	Emergency	36	2017-10-25	2017-11-10																
5022075	Ops	A17_07	1029	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2017-10-23		No	Emergency	ND	2017-10-29	2017-11-09	ND	2018-10-31	2018-11-09													
5004619	Ops		3387	PARKVIEW AVE	Lead	Copper	PEX	Not Replaced	2017-10-24		No	Emergency	ND	2017-11-17	2017-12-06																
5019870	Ops		5232	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2017-10-24		No	Emergency	7.6	2017-10-25	2017-11-08																
5033824	Susquehanna Street Relay	BLG	7230	SUSQUEHANNA ST	Lead	Lead	PEX	Copper	2017-10-25	2019-02-02	Yes	Emergency	5.7	2018-03-20	2018-03-29	12.4	2019-02-03	2019-02-12													
5016726	Ops-Unlisted		4213	SHERROD ST	Lead	Copper	PEX	Not Replaced	2017-10-28		No	Emergency	17	2017-10-31	2017-11-09	21	2017-11-21	2017-12-07													
5003476	WR	BLG	340	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	2017-10-30		Yes	Emergency	2.3	2017-10-31	2017-11-09	3	2017-11-02	2017-11-27	ND	2017-11-04	2017-12-07	ND	2017-11-29	2018-01-03							
5043806	Ops	BLG	405	E END AVE	Lead	Lead	PEX	Copper	2017-10-30	2018-12-26	Yes	Emergency	ND	2019-01-06	2019-01-11																
5043807	Ops	BLG	407	E END AVE	Lead	Lead	PEX	Copper	2017-10-30	2018-12-26	Yes	Emergency	ND	2018-12-27	2019-01-07																
5003569	WR	BLG	337	S BOUQUET ST	Lead	Lead	Non-Lead	Copper	2017-10-31	2019-01-23	Yes	Emergency	7.1	2017-11-17	2017-12-08																
5034847	Ops		5411	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2017-10-31		No	Emergency	ND	2018-08-24	2018-09-11																
5003467	WR		320	S BOUQUET ST	Lead	Copper	Non-Lead	Not Replaced	2017-11-01		No	Emergency	5.1	2017-11-06	2017-12-06	4.1	2017-11-08	2017-12-06													
5003468	WR	BLG_01	322	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	2017-11-01		Yes	Emergency	13	2017-11-06	2017-12-07																
5033813	Susquehanna Street Relay	BLG	7215	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	2017-11-01		Yes	Emergency	2.6	2019-07-17	2019-07-26																
5037424	Ops		6315	BARTLETT ST	Lead	Copper	PEX	Not Replaced	2017-11-01		No	Emergency	7.8	2017-11-02	2017-11-21																
5033819	Susquehanna Street Relay	BLG	7220	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Copper	2017-11-02	2019-01-04	Yes	Emergency	19	2017-11-03	2017-11-20																
5022195	Ops	BLG	1200	JANCEY ST	Lead	Copper	PEX	Not Replaced	2017-11-07		No	Emergency	ND	2017-11-09	2017-12-01																
5046076	Ops	BLG	4122	LYDIA ST	Lead	Lead	PEX	Not Replaced	2017-11-07		Yes	Emergency	ND	2018-01-23	2018-01-31																
5021976	Ops	BLG	1201	JANCEY ST	Lead	Lead	PEX	Not Replaced	2017-11-08		Yes	Emergency	5.1	2017-12-09	2018-01-03																
5044401	Ops		1207	TREVANION AVE	Lead	Copper	PEX	Not Replaced	2017-11-08		No	Emergency	130	2017-11-11	2017-12-04	13	2017-12-06	2017-12-15													
5030600	Ops	BLG	6733	FRANKSTOWN AVE	Lead	Copper	PEX	Not Replaced	2017-11-09		No	Emergency	3.1	2017-11-17	2017-12-01																
5018368	Ops	BLG	164	45TH ST	Lead	Lead	PEX	Not Replaced	2017-11-30		Yes	Emergency	ND	2018-05-02	2018-05-10																
5030883	Ops	BLG	6939	CHURCHLAND ST	Lead	Lead	PEX	Copper	2017-12-03	2019-01-08	Yes	Emergency	9.3	2017-12-11	2017-12-18	ND	2019-01-23	2019-02-04													
5039496	Ops	BLG	6360	BURCHFIELD AVE	Lead	Lead	Copper	Copper	2017-12-07	2019-01-18	Yes	Emergency	35	2017-12-11	2017-12-18	32	2018-07-12	2018-08-01	1.7	2019-01-23	2019-02-04										
5045332	Ops	BLG	4102.5	LYDIA ST	Lead	Lead	PEX	Not Replaced	2017-12-07		Yes	Emergency	12	2018-01-13	2018-01-23																
5022270	Ops	BLG_01	1015	JANCEY ST	Lead	Lead	PEX	Not Replaced	2017-12-13																						

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5076616	Ops	BLG	2819	BREKER ST	Lead	Lead	PEX	Copper	2018-02-14	2019-02-15	No	Emergency	1.53	2019-02-27	2019-03-04													
5017885	Ops		4622	CARROLL ST	Lead	Non-Lead	PEX	Not Replaced	2018-02-15		No	Emergency	ND	2018-10-17	2018-11-01													
5068708	Ops	BLG_01	1225	HASLAGE AVE	Lead	Lead	PEX	Not Replaced	2018-02-19		Yes	Emergency	28	2018-02-20	2018-02-27													
5022480	Ops		5416.5	DRESDEN WAY	Lead	PEX	PEX	Not Replaced	2018-02-21		No	Emergency	21	2018-02-24	2018-03-06													
5013696	Ops	BLG	5324	CORAL ST	Lead	Lead	PEX	Copper	2018-02-23	2019-01-11	Yes	Emergency	6.8	2018-02-28	2018-03-15	ND	2019-01-12	2019-01-22										
5037870	Ops	BLG	5919	DOUGLAS ST	Lead	Lead	PEX	Not Replaced	2018-02-23		Yes	Emergency	20	2018-02-26	2018-03-06	18	2018-06-20	2018-07-11										
5010057	Ops	BLG	5438	CLAYBOURNE ST	Lead	Lead	PEX	Not Replaced	2018-02-26		Yes	Emergency	12	2018-03-19	2018-03-28	2.3	2018-03-31	2018-04-19										
5048257	Ops	BLG	5126	CHAPLAIN WAY	Lead	Lead	PEX	Copper	2018-02-28	2018-12-11	Yes	Emergency	5	2018-03-24	2018-03-27	ND	2018-12-13	2019-01-04										
5071030	Ops		325	JACKSONIA ST	Lead	Copper	PEX	Not Replaced	2018-03-06		No	Emergency	6.8	2018-03-07	2018-03-26													
5072912	Ops	BLG	6	MAUCH ST	Lead	Lead	PEX	Copper	2018-03-07	2018-12-13	Yes	Emergency	20	2018-03-10	2018-03-29													
5002842	Ops	BLG	221	DUNSEITH ST	Lead	Lead	PEX	Copper	2018-03-13	2018-12-06	Yes	Emergency	30	2018-03-13	2018-03-27	4	2018-06-20	2018-07-19										
5024428	Ops	BLG	1627	CHISLETT ST	Lead	Lead	PEX	Copper	2018-03-14	2018-12-04	Yes	Emergency	5.4	2018-03-15	2018-03-27	2.1	2019-01-15	2019-01-28										
5021212	Ops		5328	CAMELIA ST	Lead	Copper	PEX	Not Replaced	2018-03-15		No	Emergency	7.1	2018-03-16	2018-03-27													
5030285	Ops		6637	SHETLAND AVE	Lead	Copper	Copper	Not Replaced	2018-03-15		No	Emergency	2	2018-03-16	2018-03-27													
5058007	Ops	BLG	300	BIGHAM ST	Lead	Lead	PEX	Copper	2018-03-15	2019-01-29	Yes	Emergency	ND	2019-02-25	2019-03-04													
5045998	Ops		4308	HALDANE ST	Lead	Copper	PEX	Not Replaced	2018-03-20		No	Emergency	290	2018-03-20	2018-04-02	ND	2018-04-11	2018-04-19										
5037540	Ops		5448	BARTLETT ST	Lead	Copper	PEX	Not Replaced	2018-03-23		No	Emergency	5.3	2018-04-24	2018-05-04													
5055179	Ops	BLG	1835	ARLINGTON AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2018-03-23	2019-02-05	Yes	Emergency	1.39	2019-02-07	2019-02-19													
5061404	Ops		239	ALBERT ST	Lead	Copper	PEX	Not Replaced	2018-03-23		No	Emergency	2	2018-03-23	2018-04-03													
5024294	Ops	A17_07	1433	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-03-24		No	Emergency	ND	2018-11-01	2019-01-14													
5074709	A03_01	A03_01	202	BONVUE ST	Lead	Lead	PEX	Not Replaced	2018-03-29		Yes		480	2018-03-29	2018-04-10	3.7	2018-04-15	2018-04-27										
5074710	A03_01	A03_01	204	BONVUE ST	Lead	Lead	PEX	Not Replaced	2018-03-30		Yes		15	2018-07-31	2018-08-17	13.4	2019-10-31	2019-11-11	10	2020-01-24	2020-02-03							
5028115	Ops	Private Reimbursement	1212	N SHERIDAN AVE	Lead	Lead	Copper	Copper	2018-04-02	2018-05-10	Yes	Emergency	ND	2018-04-03	2018-04-13													
5058500	A02_02	A02_02	307	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-02	2018-04-02	No		2.4	2018-04-04	2018-04-19													
5058501	A02_02	A02_02	305	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-02	2018-04-02	No		4.4	2018-04-04	2018-04-13													
5074409	A03_01	A03_01	105	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-05	2018-04-05	No		8.8	2018-04-06	2018-04-12													
5074435	A03_01	A03_01	111	BONVUE ST	Lead	Lead	PEX	Copper	2018-04-05	2018-04-05	No		ND	2018-04-14	2018-04-23													
5074735	A03_01	A03_01	203	BONVUE ST	Lead	Lead	PEX	Copper	2018-04-05	2018-04-05	No		6.4	2018-04-05	2018-04-13													
5014403	Ops		357	S GRAHAM ST	Lead	PEX	PEX	Not Replaced	2018-04-06		No	Emergency	ND	2018-04-17	2018-05-01													
5074697	A03_01	A03_01	229	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-09	2018-04-09	No		ND	2018-04-14	2018-04-23													
5074704	A03_01	A03_01	115	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-09	2018-04-09	No		ND	2018-04-11	2018-04-19													
5028197	Ops		1130	WINTERTON ST	Lead	Copper	PEX	Not Replaced	2018-04-10		No	Emergency	6	2018-04-11	2018-04-19													
5058491	A02_02	A02_02	312	BELONDA ST	Lead	Lead & Galvanized	PEX	Copper	2018-04-10	2018-04-10	No		5.4	2018-06-10	2018-07-06													
5058801	A02_02	A02_02	468	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-10	2018-04-10	No		ND	2018-04-11	2018-04-19													
5074694	A03_01	A03_01	239	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-10	2018-04-10	No		6.9	2018-04-25	2018-05-03													
5074733	A03_01	A03_01	211	BONVUE ST	Lead	Lead	PEX	Copper	2018-04-10	2018-04-10	No		ND	2018-05-01	2018-05-08													
5074685	A03_01	A03_01	204	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-11	2018-04-11	No		ND	2018-04-14	2018-04-19													
5058811	A02_02	A02_02	189	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-12	2018-04-12	No		16	2018-04-12	2018-04-30													
5058536	A02_02	A02_02	331	KEARSARGE ST	Lead	Lead	PEX	Copper	2018-04-13	2018-04-13	No		ND	2018-04-19	2018-04-27													
5058812	A02_02	A02_02	187	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-16	2018-04-16	No		4.9	2018-04-20	2018-04-27													
5074419	A03_01	A03_01	28	BONVUE ST	Lead	Lead	PEX	Copper	2018-04-16	2018-04-16	No		4.8	2018-04-17	2018-04-24													
5074695	A03_01	A03_01	241	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-16	2018-04-16	No		11	2018-05-02	2018-05-17													
5074708	A03_01	A03_01	120	BONVUE ST	Lead	Lead	PEX	Copper	2018-04-16	2018-04-16	No		ND	2018-04-19	2018-04-27													
5036044	Ops		1325	SHADY AVE	Lead	Copper	PEX	Not Replaced	2018-04-17		No	Emergency	8.6	2018-04-19	2018-04-27													
5004052	Ops		5	OAKLAND SQ	Lead	PEX	PEX	Not Replaced	2018-04-18		No	Emergency	3.4	2018-04-26	2018-05-29													
5013622	Ops	BLG	258	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2018-04-18	2019-01-28	Yes	Emergency	23	2018-04-21	2018-04-27	2.03	2019-02-02	2019-02-12										
5074686	A03_01	A03_01	200	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-18	2018-04-18	No		4.8	2018-07-22	2018-08-08													
5058892	A02_02	A02_02	123	WILBERT ST	Lead	Lead	PEX	Copper	2018-04-19	2018-04-19	No		ND	2018-06-20	2018-07-06													
5011433	Ops	BLG	248	SPAHR ST	Lead	Lead	PEX	Copper	2018-04-20	2018-12-13	Yes	Emergency	30	2018-04-24	2018-05-01	5.6	2018-10-03	2018-10-18	4.4	2018-12-17	2019-01-07							
5058440	A02_02	A02_02	4	LOWEN ST	Lead	Lead	PEX	Copper	2018-04-20	2018-04-20	No		220	2018-04-23	2018-05-04	ND	2018-05-07	2018-05-21										
5058815	A02_02	A02_02	181	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-23	2018-04-23	No		5.1	2018-04-23	2018-05-01													
5075735	A03_01	A03_01	4063	GRIZELLA ST	Lead	Copper	PEX	Not Replaced	2018-04-23		No		ND	2018-04-24	2018-05-31													
5058807	A02_02	A02_02	479	BELONDA ST	Lead	Lead	PEX	Copper	2018-04-24	2018-04-24	No		12	2018-04-24	2018-05-03													
5049657	Ops	A15_05_A	909	KENNEBEC ST	Lead	PEX	PEX	Not Replaced	2018-04-25		No	Emergency	22	2018-05-21	2018-05-31													
5074372	A03_01	A03_01	100	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-25	2018-04-25	No		2.1	2018-04-26	2018-05-08													
5074382	A03_01	A03_01	34	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-25	2018-04-25	No		2.2	2018-04-27	2018-05-17													
5075527	A03_01	A03_01	114	MONTANA ST	Lead	Lead	PEX	Copper	2018-04-25	2018-04-25	No		ND	2018-04-26	2018-05-04													
5074378	A03_01	A03_01	42	WALDORF ST	Lead	Lead	PEX	Copper	2018-04-26	2018-04-26	No		ND	2018-04-27	2018-05-03			</										

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5				
5016127	Ops	BLG	245	45TH ST	Lead	Lead	PEX	Copper	2018-05-14	2018-12-14	Yes	Emergency	4.4	2018-07-31	2018-08-23	ND	2018-12-17	2019-01-07													
5038884	A05_05	A05_05	2335	ELDRIDGE ST	Lead	Lead	PEX	Copper	2018-05-15	2018-05-15	No		18	2018-06-13	2018-06-27																
5006863	A06_06	A06_06	3352	WEBSTER AVE	Lead	Lead	PEX	Copper	2018-05-16	2018-05-16	No		ND	2018-05-30	2018-06-06																
5009264	Ops		3606	BANDERA ST	Lead	Copper	PEX	Not Replaced	2018-05-17		No	Emergency	20	2018-06-04	2018-06-25																
5038413	A05_05	A05_05	5915	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-17	2018-05-17	No		4.8	2018-05-19	2018-05-29																
5006909	A06_06	A06_06	3332	MCNEIL PL	Lead	Lead	PEX	Copper	2018-05-21	2018-05-21	No		ND	2018-05-22	2018-06-08																
5006847	A06_06	A06_06	3310	WEBSTER AVE	Lead	Lead	PEX	Copper	2018-05-22	2018-05-22	No		ND	2018-10-09	2018-10-31																
5006878	A06_06	A06_06	3395	WEBSTER AVE	Lead	Lead	PEX	Copper	2018-05-22	2018-05-22	No		4.6	2018-05-29	2018-06-06																
5038269	A05_05	A05_05	2311	ELDRIDGE ST	Lead	Lead	PEX	Copper	2018-05-22	2018-05-22	No		15	2018-05-26	2018-06-08	4	2018-05-26	2018-06-08													
5042179	Ops		7416	BEN HUR ST	Lead	Copper	PEX	Not Replaced	2018-05-22		No	Emergency	ND	2018-05-31	2018-06-06																
5053000	Ops		20	S 14TH ST	Lead	Copper	PEX	Not Replaced	2018-05-22		No	Emergency	ND	2018-12-29	2019-01-11																
5038284	A05_05	A05_05	2309	SHERBROOK ST	Lead	Lead	PEX	Copper	2018-05-23	2018-05-23	No		73	2018-06-02	2018-06-15																
5056448	A01_03	A01_03	438	EDGEMONT ST	Lead	Lead	PEX	Copper	2018-05-23	2018-05-23	No		18	2018-05-23	2018-06-06																
5057721	A01_03	A01_03	404	KINGSBORO ST	Lead	Lead	PEX	Copper	2018-05-23	2018-05-23	No		ND	2018-05-24	2018-06-06																
5038914	A05_05	A05_05	2329	SHERBROOK ST	Lead	Lead	PEX	Copper	2018-05-24	2018-05-24	No		4	2018-07-28	2018-08-14																
5042175	Ops	BLG	7419	BEN HUR ST	Lead	Lead	PEX	Copper	2018-05-24	2018-12-04	Yes	Emergency	22	2018-05-30	2018-06-08	30	2018-08-08	2018-08-23	ND	2018-12-05	2018-12-17										
5043702	Ops		7440	BEN HUR ST	Lead	Copper	Copper	Not Replaced	2018-05-25		No	Emergency	24	2018-05-25	2018-06-25																
5056442	A01_03	A01_03	429	EDGEMONT ST	Lead	Lead	PEX	Copper	2018-05-25	2018-05-25	No		ND	2018-05-29	2018-06-08																
5006896	A06_06	A06_06	3349	WEBSTER AVE	Lead	Lead	PEX	Copper	2018-05-29	2018-05-29	No		24	2018-05-30	2018-06-08																
5038895	A05_05	A05_05	2342	SHERBROOK ST	Lead	Lead	PEX	Copper	2018-05-29	2018-05-29	No		9	2018-07-28	2018-08-09																
5057693	A01_03	A01_03	411	EDGEMONT ST	Lead	Lead	PEX	Copper	2018-05-29	2018-05-29	No		ND	2018-05-30	2018-06-06																
5056299	Ops		428	IBERIA ST	Lead	Copper	PEX	Not Replaced	2018-05-30		No	Emergency	13	2018-05-31	2018-06-18																
5057712	A01_03	A01_03	413	KINGSBORO ST	Lead	Lead	PEX	Copper	2018-05-30	2018-05-30	No		5	2018-06-14	2018-07-03																
5057728	A01_03	A01_03	418	KINGSBORO ST	Lead	Lead	PEX	Copper	2018-05-30	2018-05-30	No		6	2018-05-30	2018-06-08																
5038313	A05_05	A05_05	5815	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-05-31	2018-05-31	No		ND	2018-05-31	2018-06-15																
5056463	A01_03	A01_03	434	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	2018-05-31		Yes		ND	2018-06-27	2018-08-01																
5024062	Ops		1715	CHISLETT ST	Lead	Copper	PEX	Not Replaced	2018-06-01		No	Emergency	ND	2018-06-04	2018-06-15																
5038881	A05_05	A05_05	2341	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	2018-06-01		Yes		37	2018-08-01	2018-08-17																
5038898	A05_05	A05_05	2348	SHERBROOK ST	Lead	Lead	PEX	Copper	2018-06-01	2018-06-01	No		8	2018-06-02	2018-06-15																
5038307	A05_05	A05_05	5831	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-04	2018-06-04	No		4	2018-06-07	2018-06-25																
5038909	A05_05	A05_05	2343	SHERBROOK ST	Lead	Lead	PEX	Copper	2018-06-04	2018-06-04	No		9	2018-06-08	2018-06-25																
5057727	A01_03	A01_03	416	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	2018-06-04		Yes		30	2018-06-05	2018-06-25	10	2018-08-31	2018-09-13													
5061670	A04_04	A04_04	336	ARION ST	Lead	Lead	PEX	Copper	2018-06-04	2018-06-04	No		ND	2018-10-04	2018-10-18																
5007026	A06_06	A06_06	3426	MILWAUKEE ST	Lead	Lead	PEX	Copper	2018-06-05	2018-06-05	No		4	2018-06-07	2018-06-25																
5061621	A04_04	A04_04	20	SOFFEL ST	Lead	Lead	PEX	Copper	2018-06-05	2018-06-05	No		ND	2018-06-12	2018-07-03																
5006976	A06_06	A06_06	3374	MILWAUKEE ST	Lead	Lead	PEX	Copper	2018-06-06	2018-06-06	No		5	2018-06-09	2018-06-25																
5043696	Ops		7437	BEN HUR ST	Lead	Copper	PEX	Not Replaced	2018-06-06		No	Emergency	ND	2018-06-12	2018-07-03																
5056467	A01_03	A01_03	433	E WARRINGTON AVE	Lead	Copper	PEX	Not Replaced	2018-06-06		No		42	2018-06-07	2018-06-25																
5075650	A11_01	A11_01	4139	FRANKLIN RD	Lead	Lead	PEX	Copper	2018-06-06	2018-06-06	No		ND	2018-06-11	2018-07-03																
5058864	A02_02	A02_02	516	NATCHEZ ST	Lead	Lead	PEX	Copper	2018-06-07	2019-06-07	Yes		19	2018-06-09	2018-07-03																
5075653	A11_01	A11_01	4133	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	2018-06-07		No		ND	2018-09-06	2018-10-12																
5075652	A11_01	A11_01	4135	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	2018-06-07		No		84	2018-06-10	2018-07-03																
5006744	A06_06	A06_06	3483	MILWAUKEE ST	Lead	Lead	PEX	Copper	2018-06-08	2018-06-08	No		7	2018-06-10	2018-07-03																
5038305	A05_05	A05_05	5837	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-08	2018-06-08	No		ND	2018-06-12	2018-07-03																
5074388	A11_01	A11_01	4008	FRANKLIN RD	Lead	Lead	PEX	Copper	2018-06-08	2018-06-08	No		4	2018-06-11	2018-07-03																
5061612	A04_04	A04_04	724	BOGGS AVE	Lead	Lead	PEX	Copper	2018-06-11	2018-06-11	No		1.55	2019-08-15	2019-08-26																
5061667	A04_04	A04_04	656	BOGGS AVE	Lead	Lead	PEX	Copper	2018-06-11	2018-06-11	No		ND	2018-06-11	2018-07-03	318	2018-06-12	2018-07-03													
5005205	Ops		3731	CHILDS	Lead	PEX	PEX	Not Replaced	2018-06-12		No	Emergency	17	2018-06-18	2018-07-08																
5007360	A06_06	A06_06	758	BRYN MAWR RD	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		11	2018-06-14	2018-07-03																
5007363	A06_06	A06_06	764	BRYN MAWR RD	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		14	2018-06-14	2018-08-01																
5038451	A05_05	A05_05	5905	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		42	2018-06-15	2018-08-01																
5038457	A05_05	A05_05	5906	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		ND	2018-06-12	2018-07-03																
5038459	A05_05	A05_05	5910-5912	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		4	2018-06-14	2018-07-03																
5061626	A04_04	A04_04	709	SOUTHERN AVE	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		ND	2018-06-13	2018-07-03																
5061707	A04_04	A04_04	703	BOGGS AVE	Lead	Lead	PEX	Copper	2018-06-12	2018-06-12	No		8	2018-06-13	2018-08-01																
5006965	A06_06	A06_06	765	BRYN MAWR RD	Lead	Lead	PEX	Copper	2018-06-13	2018-06-13	No		62	2018-06-15	2018-08-01	9	2018-07-08	2018-09-04													
5028896	Ops	BLG	1244	ALBUM ST	Lead	Lead	PEX	Copper	201																						

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5	
5075694	A11_01	A11_01	4018	PERRYVILLE AVE	Lead	Copper	PEX	Not Replaced	2018-06-20		No		ND	2018-06-25	2018-07-08													
5075672	A11_01	A11_01	4114	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	2018-06-20		No		6	2018-06-22	2018-07-08													
5007031	A06_06	A06_06	728	ADELAIDE ST	Lead	Lead	PEX	Copper	2018-06-21	2018-06-21	No		ND	2018-10-11	2018-10-18													
5038868	A05_05	A05_05	2350	ELDRIDGE ST	Lead	Lead	PEX	Copper	2018-06-21	2018-06-21	No		19	2018-06-21	2018-07-30													
5038919	A05_05	A05_05	2318	PITTOCK ST	Lead	Lead	PEX	Copper	2018-06-21	2018-06-21	No		13	2018-08-28	2018-09-11													
5056386	A13_03	A13_03	81	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-21	2018-06-21	No		ND	2018-06-24	2018-07-08													
5075599	A11_01	A11_01	4065	VINCETON ST	Lead	Lead	PEX	Copper	2018-06-21	2018-06-21	No		ND	2018-06-21	2018-07-08													
5049624	A15_05_B	A15_05_B	4150	WINDSOR ST	Lead	Lead	Copper	Copper	2018-06-21	2018-06-21	No		ND	2018-06-27	2018-08-01													
5038920	A05_05	A05_05	2320	PITTOCK ST	Lead	Lead	PEX	Copper	2018-06-22	2018-06-22	No		9.6	2018-10-08	2018-10-18													
5042418	Ops		1853	SHAW AVE	Lead	Copper	PEX	Not Replaced	2018-06-22		No	Emergency	ND	2018-06-25	2018-07-08													
5068598	Ops		1745	COWLEY ST	Lead	Copper	Copper	Not Replaced	2018-06-22		No	Emergency	ND	2018-07-06	2018-08-23													
5075504	A11_01	A11_01	18	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-06-22	2018-06-22	No		9	2018-06-25	2018-07-08													
5075558	A11_01	A11_01	15	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-06-22	2018-06-22	No		ND	2018-06-28	2018-07-08													
5057540	A13_03	A13_03	109	HARWOOD ST	Lead	Copper	PEX	Not Replaced	2018-06-23		No		16	2018-06-24	2018-07-11													
5057548	A13_03	A13_03	91	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-23	2018-06-23	No		4	2018-06-26	2018-08-01													
5075505	A11_01	A11_01	12	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-06-23	2018-06-23	No		ND	2018-06-28	2018-07-19													
5074324	A11_01	A11_01	4010	VINCETON ST	Lead	Lead	PEX	Copper	2018-06-23	2018-06-23	No		ND	2018-06-27	2018-07-30													
5057545	A13_03	A13_03	97	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-24	2018-06-24	No		ND	2020-02-14	2020-04-06													
5038921	A05_05	A05_05	2324	PITTOCK ST	Lead	Lead	PEX	Copper	2018-06-25	2018-06-25	No		13	2018-06-26	2018-07-08													
5061205	A04_04	A04_04	605	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	2018-06-25		Yes		11	2018-06-30	2018-07-30													
5036583	A08_08	A08_08	6517	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-06-25	2018-06-25	No		7	2018-06-26	2018-08-01													
5036582	A08_08	A08_08	6519	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2018-06-25		No		ND	2018-06-28	2018-08-01													
5057541	A13_03	A13_03	105	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-25	2018-06-25	No		ND	2018-06-28	2018-07-30													
5059248	A12_02	A12_02	246	DILWORTH ST	Lead	Copper	PEX	Not Replaced	2018-06-25		No		ND	2018-06-26	2018-07-08													
5049560	A15_05_B	A15_05_B	973	LILAC ST	Lead	Lead	Copper	Copper	2018-06-25	2018-06-25	No		4	2018-08-04	2018-08-21													
5075667	A11_01	A11_01	4100	FRANKLIN RD	Lead	Lead	PEX	Not Replaced	2018-06-25		Yes		6	2018-07-10	2018-07-30													
5057530	A13_03	A13_03	106	SECANE ST	Lead	Copper	PEX	Not Replaced	2018-06-25		No		8	2018-06-27	2018-07-30													
5024779	Ops		1341	CORDOVA RD	Lead	Copper	PEX	Not Replaced	2018-06-26		No	Emergency	23	2018-06-28	2018-07-19													
5038289	A05_05	A05_05	2302	PITTOCK ST	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		13	2018-06-30	2018-07-19													
5057531	A13_03	A13_03	110	SECANE ST	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		4	2018-06-30	2018-07-30													
5049531	A15_05_B	A15_05_B	928	LILAC ST	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		4	2018-07-19	2018-08-03													
5042224	A08_08	A08_08	6526	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2018-06-26		No		4	2018-06-27	2018-08-01													
5056168	A13_03	A13_03	76	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		14	2018-07-27	2018-08-14													
5074512	A11_01	A11_01	3907	VINCETON ST	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		6	2018-06-29	2018-07-19													
5075503	A11_01	A11_01	20	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		6	2018-06-29	2018-07-30													
5075557	A11_01	A11_01	21	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-06-26	2018-06-26	No		9	2018-06-29	2018-07-19													
5049572	A15_05_B	A15_05_B	947	LILAC ST	Lead	Lead	Copper	Copper	2018-06-27	2018-06-27	No		5	2018-06-28	2018-07-11													
5075502	A11_01	A11_01	22	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-06-27	2018-06-27	No		4	2018-07-09	2018-07-30													
5074516	A11_01	A11_01	3906	VINCETON ST	Lead	Lead	PEX	Copper	2018-06-27	2018-06-27	No		20	2018-07-09	2018-07-30													
5049576	A15_05_B	A15_05_B	939	LILAC ST	Lead	Lead	PEX	Copper	2018-06-28	2018-06-28	No		24	2018-06-29	2018-07-19													
5042186	A08_08	A08_08	6549	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-06-28	2018-06-28	No		ND	2018-06-29	2018-07-19	5	2018-07-04	2018-07-30										
5056356	A13_03	A13_03	58	PASADENA ST	Lead	Lead	PEX	Copper	2018-06-28	2018-06-28	No		ND	2018-07-01	2018-07-30													
5056349	A13_03	A13_03	47	PASADENA ST	Lead	Lead	PEX	Copper	2018-06-28	2018-06-28	No		ND	2018-06-29	2018-07-19													
5042182	A08_08	A08_08	6531	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-06-28	2018-06-28	No		ND	2018-07-12	2018-07-30													
5054760	Ops		164	S 18TH ST	Lead	Copper	PEX	Not Replaced	2018-06-29		No	Emergency	ND	2018-07-02	2018-08-09													
5059275	A12_02	A12_02	201	DILWORTH ST	Lead	Lead	PEX	Copper	2018-06-29	2018-06-29	No		ND	2018-07-01	2018-07-30													
5056358	A13_03	A13_03	54	PASADENA ST	Lead	Lead	PEX	Copper	2018-06-29	2018-06-29	No		ND	2018-07-04	2018-07-30													
5049570	A15_05_B	A15_05_B	951	LILAC ST	Lead	Copper	PEX	Not Replaced	2018-06-29		No		ND	2018-07-04	2018-07-30													
5042180	A08_08	A08_08	6535	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-06-29	2018-06-29	No		4	2018-08-06	2018-08-23													
5042185	A08_08	A08_08	6537	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-06-29	2018-06-29	No		ND	2018-08-03	2018-08-23													
5042184	A08_08	A08_08	6541	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-02	2018-07-02	No		530	2018-07-03	2018-07-30													
5057607	A13_03	A13_03	82	PASADENA ST	Lead	Lead	PEX	Copper	2018-07-02	2018-07-02	No		9	2018-07-07	2018-07-30													
5036576	A08_08	A08_08	6520	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2018-07-02		No		ND	2018-07-06	2018-07-30													
5049559	A15_05_B	A15_05_B	975	LILAC ST	Lead	Lead	PEX	Copper	2018-07-02	2018-07-02	No		11	2018-07-07	2018-07-30													
5056351	A13_03	A13_03	53	PASADENA ST	Lead	Lead	PEX	Copper	2018-07-03	2018-07-03	No		4	2018-07-05	2018-07-30													
5025994	Ops		6014	BRYANT ST	Lead	Copper	PEX	Not Replaced	2018-07-04		No	Emergency	5	2018-07-24	2018-08-09													
5056350	A13_03	A13_03	49	PASADENA ST	Lead	Lead	PEX	Copper	2018-07-05	2018-07-05	No		43	2018-07-05	2018-07-30													
5042218	A08_08	A08_08	6554	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-06	2018-07-06	No		6	2018-07-07	2018-07-30													
5049584	A15_05_B	A15_05_B	929	LILAC ST	Lead	Lead	PEX	Copper	2018-07-06	2018-07-11	Yes		ND															

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5	
5018033	A07_07	A07_07	4932	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-10	2018-08-10	No		ND	2018-09-27	2018-10-18													
5042242	A08_08	A08_08	6625	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-10	2018-08-10	No		ND	2018-08-13	2018-08-28													
5016472	Urgent Water	Urgent Water	258	MAIN ST	Copper	Lead	Copper	Copper	2018-08-13	2018-08-13	No	Emergency	ND	2018-08-29	2018-09-11													
5018152	A07_07	A07_07	4738	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-13	2018-08-13	No		6	2018-08-16	2018-08-30													
5017998	A07_07	A07_07	180	49TH ST	Lead	Copper	PEX	Not Replaced	2018-08-13	2018-08-13	No		ND	2018-08-16	2018-08-30													
5017997	A07_07	A07_07	178	49TH ST	Lead	Lead	PEX	Copper	2018-08-13	2018-08-13	No		ND	2018-08-14	2018-08-28													
5018153	A07_07	A07_07	4740	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-13	2018-08-13	No		4	2018-08-21	2018-09-04													
5042011	A08_08	A08_08	6649	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-13	2018-08-13	No		7	2018-08-14	2018-08-28													
5018045	A07_07	A07_07	4904	HATFIELD ST	Lead	PEX	PEX	Not Replaced	2018-08-13	2018-08-13	No		ND	2018-08-16	2018-08-28													
5075570	A11_01	A11_01	40	BASCOM AVE	Lead	Lead	PEX	Copper	2018-08-13	2018-08-13	No		ND	2018-08-15	2018-08-28													
5049711	A15_05_C	A15_05_C	4034	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-14	2018-08-14	No		ND	2018-11-28	2018-12-05													
5042293	A08_08	A08_08	6615	AYLESBORO AVE	Lead	Lead	PEX	Copper	2018-08-14	2018-08-14	No		7	2018-08-15	2018-08-28													
5049747	A15_05_C	A15_05_C	4023	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-14	2018-08-14	No		6	2018-08-15	2018-08-28													
5018016	A07_07	A07_07	4912	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-14	2018-08-14	No		1220	2018-08-17	2018-09-11													
5042029	A08_08	A08_08	6659	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-15	2018-08-15	No		10	2018-08-16	2018-08-30													
5018042	A07_07	A07_07	4914	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-15	2018-08-15	No		4	2018-08-16	2018-09-04													
5018092	A07_07	A07_07	4713	HATFIELD ST	Lead	Lead	PEX	Copper	2018-08-15	2018-08-15	No		24	2018-08-17	2018-09-04													
5018039	A07_07	A07_07	4920	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-15	2018-08-15	No		ND	2018-08-16	2018-08-30													
5042248	A08_08	A08_08	6641	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-15	2018-08-15	No		5	2018-08-18	2018-09-04	ND	2019-02-25	2019-03-12										
5018090	A07_07	A07_07	4717	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-15	2018-08-15	No		4	2018-08-15	2018-08-28													
5074457	Ops		3852	BAYTREE ST	Lead	Non-Lead	PEX	Not Replaced	2018-08-16	2018-08-16	No	Emergency	ND	2018-10-12	2018-10-31													
5049712	A15_05_C	A15_05_C	4038	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-16	2018-08-16	No		12	2018-08-18	2018-09-04													
5035190	Ops	BLG_01	1126	MURRAYHILL AVE	Lead	Lead	PEX	Copper	2018-08-17	2019-04-17	Yes	Emergency	7.59	2019-02-03	2019-03-28	6.31	2019-04-28	2019-05-07										
5060217	Ops		227	SEWARD ST	Lead	Copper	PEX	Not Replaced	2018-08-17	2018-08-17	No	Emergency	ND	2018-08-25	2018-09-11													
5042295	A08_08	A08_08	6625	AYLESBORO AVE	Lead	Lead	PEX	Copper	2018-08-17	2018-08-17	No		5	2018-08-21	2018-09-04													
5049428	A15_05_C	A15_05_C	1041	MIRROR ST	Lead	Lead	PEX	Copper	2018-08-17	2018-08-17	No		6	2018-08-19	2018-09-04													
5049430	A15_05_C	A15_05_C	1045	MIRROR ST	Lead	Lead	PEX	Not Replaced	2018-08-17	2018-08-17	Yes		18.6	2018-11-12	2018-11-27	ND	2019-01-23	2019-02-04										
5042033	A08_08	A08_08	6675	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-17	2018-08-17	No		ND	2018-08-23	2018-09-11													
5006645	Ops	BLG	3342	RIDGEWAY ST	Lead	Lead	PEX	Copper	2018-08-19	2019-02-25	Yes	Emergency	30	2018-08-26	2018-09-13													
5049708	A15_05_C	A15_05_C	4026	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-20	2018-08-20	No		ND	2019-06-01	2019-06-25													
5042249	A08_08	A08_08	6643	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-20	2018-08-20	No		32	2018-08-21	2018-09-04													
5049707	A15_05_C	A15_05_C	4024	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-20	2018-08-20	No		ND	2018-09-21	2018-10-08													
5018188	A07_07	A07_07	4635	PLUMMER ST	Lead	Lead	PEX	Copper	2018-08-20	2018-08-20	No		ND	2018-08-22	2018-09-04													
5042032	A08_08	A08_08	6671	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-20	2018-08-20	No		8	2018-08-27	2018-09-11													
5018081	A07_07	A07_07	4737	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-20	2018-08-20	No		ND	2020-06-10	2020-06-22													
5075632	A11_01	A11_01	4040	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2018-08-20	2018-08-20	No		ND	2018-08-30	2018-09-13													
5042235	A08_08	A08_08	6551	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-21	2018-08-21	No		8	2018-08-22	2018-09-11													
5042031	A08_08	A08_08	6667	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-21	2018-08-21	No		4	2018-08-23	2018-09-11													
5042299	A08_08	A08_08	6659-6663	AYLESBORO AVE	Lead	Copper	PEX	Not Replaced	2018-08-21	2018-08-21	No		4	2018-08-25	2018-09-11													
5075633	A11_01	A11_01	4042	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2018-08-21	2018-08-21	No		ND	2018-08-31	2018-09-13													
5041956	A08_08	A08_08	1457	BARNESDALE ST	Lead	Lead	PEX	Copper	2018-08-22	2018-08-22	No		6	2018-08-22	2018-09-11	ND	2018-08-23	2018-09-11										
5018186	A07_07	A07_07	4639	PLUMMER ST	Lead	Lead	PEX	Copper	2018-08-22	2018-08-22	No		4	2018-08-27	2018-09-11													
5049706	A15_05_C	A15_05_C	1048	MIRROR ST	Lead	Lead	PEX	Copper	2018-08-22	2018-08-23	No		15	2018-08-25	2018-09-11													
5042297	A08_08	A08_08	6633	AYLESBORO AVE	Lead	Lead	PEX	Copper	2018-08-22	2018-08-22	No		8	2018-08-24	2018-09-11													
5018180	A07_07	A07_07	168	47TH ST	Lead	Lead	PEX	Copper	2018-08-22	2018-08-22	No		13	2018-09-02	2018-10-12													
5018179	A07_07	A07_07	4634	MODOC WAY	Lead	Lead	PEX	Copper	2018-08-22	2018-08-22	No		5	2018-08-27	2018-09-11													
5049704	A15_05_C	A15_05_C	1040	MIRROR ST	Lead	Copper	PEX	Not Replaced	2018-08-22	2018-08-22	No		10	2018-08-23	2018-09-06													
5078902	Ops	BLG	3415	DIPLOMA ST	Lead	Lead	PEX	Copper	2018-08-23	2019-01-29	Yes	Emergency	2.02	2019-03-31	2019-04-10													
5018181	A07_07	A07_07	170	47TH ST	Lead	Lead	PEX	Copper	2018-08-23	2018-08-23	No		ND	2018-08-23	2018-09-06													
5042281	A08_08	A08_08	6527	AYLESBORO AVE	Lead	Copper	PEX	Not Replaced	2018-08-23	2018-08-23	No		12	2018-08-26	2018-09-11	4	2018-08-27	2018-09-11										
5041974	A08_08	A08_08	6672	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-23	2018-08-23	No		20	2018-08-25	2018-09-11													
5018590	A07_07	A07_07	187	47TH ST	Lead	Copper	PEX	Not Replaced	2018-08-23	2018-08-23	No		570	2018-08-24	2018-09-11	ND	2018-11-17	2018-12-05										
5042275	A08_08	A08_08	6530	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-24	2018-08-24	No		15	2018-08-27	2018-10-08													
5018091	A07_07	A07_07	4715	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-24	2018-08-24	No		ND	2018-10-14	2018-11-08													
5041976	A08_08	A08_08	6666	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-24	2018-08-24	No		4	2018-08-27	2018-09-11													
5042268	A08_08	A08_08	6600	DALZELL PL	Lead	Copper	PEX	Not Replaced	2018-08-24	2018-08-24	No		5.4	2018-10-29	2018-11-08													
5042279	A08_08	A08_08	6517	AYLESBORO AVE	Lead	Lead	PEX	Copper	2018-08-24	2018-08-24	No		14	2018-09-11	2018-10-12													
5042232	A08_08	A08_08	6541	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-27	2018-08-27	No		13	2018-08-28	2018-09-11													

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5049371	A15_05_C	A15_05_C	1030	FLEMINGTON ST	Lead	Lead	PEX	Copper	2018-09-04	2018-09-04	No		6	2018-09-08	2018-10-12												
5042231	A08_08	A08_08	6535	DALZELL PL	Lead	Lead	PEX	Copper	2018-09-04	2018-09-04	No		7	2018-09-09	2018-10-12												
5123011	A10_M	A10_M	549	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-04	2018-09-04	No		ND	2018-09-05	2018-10-12												
5018211	A07_07	A07_07	4832	BLACKBERRY WAY	Lead	Lead	PEX	Copper	2018-09-04	2018-09-04	No		ND	2018-09-12	2018-10-12												
5018162	A07_07	A07_07	167	48TH ST	Lead	Lead	PEX	Not Replaced	2018-09-04		Yes		13.4	2019-01-21	2019-01-28	10.2	2019-11-11	2019-11-18									
5059380	A12_02	A12_02	471	NORTON ST	Lead	Lead	PEX	Copper	2018-09-04	2018-09-05	No		7	2018-09-06	2018-10-12												
5049350	A15_05_C	A15_05_C	1033	FLEMINGTON ST	Lead	Lead	PEX	Copper	2018-09-05	2018-09-05	No		11	2018-09-17	2018-10-18												
5049488	A15_05_C	A15_05_C	4015	WINDSOR ST	Lead	Lead	PEX	Copper	2018-09-05	2018-09-05	No		5	2018-09-16	2018-10-08												
5041985	A08_08	A08_08	6632	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-09-06	2018-09-06	No		ND	2018-09-10	2018-10-12												
5122871	A10_M	A10_M	532	NORTH AVENUE	Lead	Lead	PEX	Not Replaced	2018-09-06		No		21	2018-09-06	2018-10-12												
5019840	Ops		5307	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2018-09-07		No	Emergency	6	2018-09-11	2018-10-12												
5065566	Ops	BLG	812	GALVESTON AVE	Lead	Lead	PEX	Not Replaced	2018-09-07		Yes	Emergency	6	2018-09-08	2018-10-12												
5011384	A18_08	A18_08	5819	ALDER ST	Lead	Lead	PEX	Not Replaced	2018-09-07		Yes		4.8	2018-09-27	2018-10-18												
5049373	A15_05_C	A15_05_C	1024	FLEMINGTON ST	Lead	Lead	PEX	Copper	2018-09-07	2018-09-07	No		41	2018-09-22	2018-10-12	2.03	2019-02-15	2019-02-27									
5122870	A10_M	A10_M	530	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-07	2018-09-07	No		23	2018-09-07	2018-10-12	ND	2019-03-06	2019-03-19									
5122999	A10_M	A10_M	527	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-07	2018-09-07	No		ND	2018-09-10	2018-10-12												
5122868	A10_M	A10_M	526	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-07	2018-09-07	No		ND	2018-09-18	2018-10-12												
5011448	A18_08	A18_08	5917	ALDER ST	Lead	Copper	PEX	Not Replaced	2018-09-11		No		8	2018-09-12	2018-10-12												
5011446	A18_08	A18_08	5921	ALDER ST	Lead	Copper	PEX	Not Replaced	2018-09-11		No		7	2018-09-12	2018-10-12												
5041987	A08_08	A08_08	6624	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-09-11	2018-09-11	No		ND	2018-09-12	2018-10-12												
5123010	A10_M	A10_M	547	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-11	2018-09-11	No		ND	2018-09-15	2018-10-12												
5003268	Ops		312	MEYRAN AVE	Lead	PEX	PEX	Not Replaced	2018-09-12		No	Emergency	ND	2018-09-15	2018-10-12												
5018020	Plum Way Water Relay	Plum Way Water Relay	4916	PLUM WAY	Lead	Lead	PEX	Copper	2018-09-12	2018-09-12	No		ND	2018-09-21	2018-10-08												
5011440	A18_08	A18_08	5929 A	ALDER ST	Lead	Lead	PEX	Copper	2018-09-12	2018-09-12	No		14	2018-09-13	2018-10-12												
5041988	A08_08	A08_08	6620	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-09-13	2018-09-13	No		3.3	2019-01-25	2019-02-06												
5011444	A18_08	A18_08	5925	ALDER ST	Lead	Lead	PEX	Copper	2018-09-13	2018-09-13	No		ND	2018-09-15	2018-10-12												
5011450	A18_08	A18_08	5911	ALDER ST	Lead	Lead	PEX	Copper	2018-09-13	2018-09-13	No		19	2018-09-22	2018-10-08												
5041990	A08_08	A08_08	6612	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-09-14	2018-09-14	No		21	2018-09-15	2018-10-12												
5041992	A08_08	A08_08	6604	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-09-14	2018-09-14	No		5	2018-09-15	2018-10-12												
5017967	Plum Way Water Relay	Plum Way Water Relay	4839	PLUM WAY	Lead	Copper	PEX	Not Replaced	2018-09-17		No		ND	2018-10-23	2018-11-08												
5122861	A10_M	A10_M	512	NORTH AVENUE	Lead	Copper	PEX	Not Replaced	2018-09-17		No		ND	2018-09-19	2018-10-12												
5013072	Ops	BLG	451	CEDARVILLE ST	Lead	Lead	PEX	Copper	2018-09-18	2019-02-18	Yes	Emergency	ND	2018-09-19	2018-10-12	1.25	2019-02-20	2019-02-27									
5057001	Ops	BLG	307	BELTZHOVER AVE	Lead	Lead	PEX	Copper	2018-09-18	2019-02-08	Yes	Emergency	ND	2018-09-21	2018-10-12	1.85	2019-02-09	2019-02-19									
5011442	A18_08	A18_08	5937 C	ALDER ST	Lead	Lead	PEX	Copper	2018-09-18	2018-09-18	No		ND	2021-10-08	2021-10-18												
5054100	A14_03	A14_03	1915	WHARTON ST	Lead	Copper	PEX	Not Replaced	2018-09-18		No		ND	2018-10-08	2018-10-18												
5057002	Ops	BLG_01	309	BELTZHOVER AVE	Lead	Lead	PEX	Copper	2018-09-19	2019-07-02	Yes	Emergency	7	2018-10-31	2019-01-08												
5011435	A18_08	A18_08	5939	ALDER ST	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		ND	2018-11-11	2018-11-27												
5011388	A18_08	A18_08	5829	ALDER ST	Lead	Copper	PEX	Not Replaced	2018-09-19		No		ND	2018-09-25	2018-10-08												
5011434	A18_08	A18_08	5937	ALDER ST	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		7.5	2018-10-19	2018-11-08												
5054103	A14_03	A14_03	1921	WHARTON ST	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		67	2018-09-22	2019-01-08	2.6	2019-02-06	2019-02-12									
5017991	Plum Way Water Relay	Plum Way Water Relay	4841	HATFIELD ST	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		ND	2018-09-23	2018-10-08												
5011389	A18_08	A18_08	5833	ALDER ST	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		ND	2018-09-24	2018-10-12												
5054104	A14_03	A14_03	1923	WHARTON ST	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		5.6	2018-09-27	2018-10-18												
5122356	A10_M	A10_M	426	NORTH AVE	Lead	Lead	PEX	Copper	2018-09-19	2018-09-19	No		ND	2018-09-21	2018-10-12												
5011437	A18_08	A18_08	5933B	ALDER ST	Lead	Lead	PEX	Copper	2018-09-20	2018-09-20	No		44	2018-09-23	2018-10-08	ND	2019-02-13	2019-02-19									
5122373	A10_M	A10_M	452	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-20	2018-09-20	No		ND	2018-09-21	2018-10-12												
5122322	A10_M	A10_M	302	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-21	2018-09-22	No		ND	2019-01-04	2019-01-11												
5122367	A10_M	A10_M	442	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-21	2018-09-21	No		ND	2018-10-24	2018-11-08												
5054105	A14_03	A14_03	1925	WHARTON ST	Lead	Copper	PEX	Not Replaced	2018-09-21		No		6	2018-09-23	2018-10-12												
5122327	A10_M	A10_M	308	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-21	2018-09-21	No		ND	2018-09-26	2018-10-08												
5122325	A10_M	A10_M	306	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-22	2018-09-22	No		4.6	2018-09-25	2018-10-18												
5122360	A10_M	A10_M	433	NORTH AVENUE	Lead	Copper	PEX	Not Replaced	2018-09-22		No		5	2018-09-25	2018-10-08												
5067972	Ops	BLG_01	1356	LOWRIE ST	Lead	Lead	PEX	Copper	2018-09-23	2021-06-07	Yes	Emergency	2.04	2021-06-10	2021-07-06												
5035019	Ops	BLG	419	SALINE ST	Lead	Lead	PEX	Copper	2018-09-24	2019-01-24	Yes	Emergency	48	2018-09-25	2018-10-08	2.4	2019-01-29	2019-02-06									
5011504	A18_08	A18_08	331	SPAHR ST	Lead	Lead	PEX	Copper	2018-09-24	2018-09-24	No		ND	2018-10-04	2018-10-18												
5011503	A18_08	A18_08	333	SPAHR ST	Lead	Lead	PEX	Copper	2018-09-24	2018-09-24	No		5.8	2018-09-27	2018-10-18												
5011488	A18_08	A18_08	369	SPAHR ST	Lead	Lead	PEX	Copper	2018-09-24	2018-09-24	No		13	2018-09-26	2018-10-08												
5049653	A15_05_A	A15_05_A	921	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-09-25	2018-09-25	No		40	2018-10-03	2019-01-03												
5049614	A15_05_A	A15_05_A	940	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-09-25	2018-09-25	No		ND	2018-09-28	2018-10-18												

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5				
5037464	Ops	BLG	5465	BARTLETT ST	Lead	Lead	PEX	Copper	2018-11-24	2019-02-07	Yes	Emergency	9.6	2019-01-07	2019-01-11	4.62	2019-02-11	2019-02-19													
5024293	A17_07	A17_07	1429	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-26	2018-11-26	No		ND	2018-12-30	2019-01-11																
5025632	Ops	BLG	5517	AVONDALE PL	Lead	Lead	PEX	Copper	2018-11-27	2019-02-22	Yes	Emergency	1310	2019-01-22	2019-02-04	1.51	2019-03-01	2019-05-01													
5024272	A17_07	A17_07	1630	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-27	2018-11-27	No		4.1	2018-11-28	2018-12-05																
5024279	A17_07	A17_07	1608	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-27	2018-11-27	No		5.2	2018-12-03	2018-12-17																
5024305	A17_07	A17_07	1619	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-27	2018-11-27	No		ND	2018-11-28	2018-12-05																
5024277	A17_07	A17_07	1616	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-27	2018-11-27	No		6.7	2018-11-28	2018-12-05																
5070409	A16_06	A16_06	1530	GARFIELD AVE	Lead	Copper	Copper	Not Replaced	2018-11-28		No		ND	2019-04-12	2019-04-24																
5024304	A17_07	A17_07	1615	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-28	2018-11-28	No		ND	2018-12-30	2019-01-11																
5070410	A16_06	A16_06	1528	GARFIELD AVE	Lead	Lead	Copper	Copper	2018-11-28	2018-11-28	No		13.6	2018-11-29	2018-12-05																
5024306	A17_07	A17_07	1623	MORNINGSIDE AVE	Lead	PEX	PEX	Not Replaced	2018-11-29		No		ND	2018-12-10	2018-12-17																
5028763	A09_09	A09_09	1155	PAULSON AVE	Lead	Lead	PEX	Copper	2018-11-29	2018-11-29	No		28.8	2018-12-01	2018-12-10	ND	2019-02-23	2019-03-04													
5011804	A18_08	A18_08	634	S NEGLE Y AVE	Lead	Copper	PEX	Not Replaced	2018-11-30		No		ND	2018-12-03	2018-12-10																
5070397	A16_06	A16_06	612	ARMANDALE ST	Lead	Copper	Copper	Not Replaced	2018-11-30		No		ND	2018-12-01	2018-12-17																
5024315	A17_07	A17_07	1649	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-30	2018-11-30	No		ND	2018-12-20	2019-01-07																
5024313	A17_07	A17_07	1641	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-30	2018-11-30	No		ND	2018-12-04	2018-12-17																
5070427	A16_06	A16_06	1521	GARFIELD AVE	Lead	Lead	Copper	Copper	2018-11-30	2018-11-30	No		ND	2018-12-10	2018-12-17																
5029247	A09_09	A09_09	6526	DEARY ST	Lead	Lead	PEX	Copper	2018-11-30	2018-11-30	No		12	2018-12-06	2018-12-17																
5021216	Ops	BLG	5310	CAMELIA ST	Lead	Lead	PEX	Not Replaced	2018-12-03		Yes	Emergency	ND	2018-12-04	2018-12-17																
5023875	A17_07	A17_07	1685	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-03	2018-12-03	No		ND	2018-12-05	2018-12-17																
5070439	A16_06	A16_06	522	ALPINE AVE	Lead	Copper	Copper	Not Replaced	2018-12-03		No		ND	2018-12-05	2018-12-17																
5029230	A09_09	A09_09	6545	DEARY ST	Lead	Lead	PEX	Copper	2018-12-03	2018-12-03	No		5.4	2018-12-04	2018-12-17																
5011801	A18_08	A18_08	628	S NEGLE Y AVE	Lead	Lead	PEX	Copper	2018-12-03	2018-12-03	No		ND	2018-12-15	2019-01-04																
5023874	A17_07	A17_07	1683	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-03	2018-12-03	No		ND	2018-12-04	2018-12-17																
5070416	A16_06	A16_06	1512	GARFIELD AVE	Lead	Lead	Copper	Copper	2018-12-03	2018-12-03	No		ND	2018-12-04	2018-12-17	7.2	2018-12-04	2018-12-17													
5023943	A17_07	A17_07	1730	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-03	2018-12-03	No		5	2018-12-05	2019-03-28																
5023934	A17_07	A17_07	1712	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-03	2018-12-03	No		60	2018-12-07	2018-12-17	4.71	2019-04-05	2019-04-16													
5023942	A17_07	A17_07	1728	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-04	2018-12-04	No		ND	2018-12-04	2018-12-17																
5011820	A18_08	A18_08	629	S NEGLE Y AVE	Lead	Lead	PEX	Copper	2018-12-04	2018-12-04	No		12.6	2018-12-05	2018-12-17																
5029199	A09_09	A09_09	6530	APPLE AVE	Lead	Copper	Copper	Not Replaced	2018-12-04		No		7.3	2018-12-04	2018-12-17																
5023935	A17_07	A17_07	1710	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-05	2018-12-05	No		ND	2018-12-05	2018-12-17																
5070655	A16_06	A16_06	221	ALPINE AVE	Lead	Copper	Copper	Not Replaced	2018-12-05		No		ND	2018-12-13	2019-01-04																
5021962	A17_07	A17_07	1254	MORNINGSIDE AVE	Lead	Lead	PEX	Not Replaced	2018-12-05		Yes		20.8	2018-12-07	2018-12-17	3.95	2019-05-24	2019-06-04													
5029244	A09_09	A09_09	6534	DEARY ST	Lead	Lead	PEX	Copper	2018-12-05	2018-12-05	No		5.4	2018-12-09	2018-12-17																
5011569	Ops		5978	ALDER ST	Lead	Copper	PEX	Not Replaced	2018-12-06		No	Emergency	ND	2018-12-08	2018-12-17																
5060430	Ops	BLG_01	331	CLARENCE ST	Lead	Lead	PEX	Copper	2018-12-06	2019-04-26	Yes	Emergency	5	2018-12-12	2019-01-04	ND	2019-05-12	2019-05-21													
5023933	A17_07	A17_07	1708	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-06	2018-12-06	No		7.4	2018-12-08	2018-12-17																
5070591	A16_06	A16_06	114	CARRINGTON ST	Lead	Lead	Copper	Copper	2018-12-06	2018-12-06	No		ND	2018-12-11	2019-01-04																
5023912	A17_07	A17_07	1745	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-06	2018-12-06	No		4.8	2018-12-11	2018-12-17																
5023911	A17_07	A17_07	1747	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-06	2018-12-06	No		5.2	2018-12-08	2018-12-17																
5029246	A09_09	A09_09	6530	DEARY ST	Lead	Lead	PEX	Not Replaced	2018-12-06		Yes		2.9	2019-01-16	2019-01-28																
5023913	A17_07	A17_07	1743	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-07	2018-12-07	No		5	2018-12-08	2018-12-17																
5023886	A17_07	A17_07	1678	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-07	2018-12-07	No		ND	2018-12-30	2019-01-11																
5072977	Ops	BLG_01	5	NETTIE ST	Lead	Lead	PEX	Copper	2018-12-10	2019-04-30	Yes	Emergency	2.82	2019-03-09	2019-03-19	ND	2019-05-13	2019-06-11													
5070709	A16_06	A16_06	16	JACKSONIA ST	Lead	Lead	Copper	Copper	2018-12-10	2018-12-10	No		ND	2018-12-24	2019-01-07																
5023915	A17_07	A17_07	1733	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-12-10		No		4.6	2018-12-11	2019-01-04																
5023928	A17_07	A17_07	1705	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-12-10		No		4.1	2018-12-13	2018-12-17																
5070405	A16_06	A16_06	409	ARMANDALE ST	Lead	Copper	Copper	Not Replaced	2018-12-10		No		ND	2018-12-11	2018-12-17																
5023909	A17_07	A17_07	1805	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-10	2018-12-10	No		6	2019-01-05	2019-01-22																
5070716	A16_06	A16_06	11	JACKSONIA ST	Lead	Lead	Copper	Copper	2018-12-11	2018-12-11	No		4.6	2018-12-12	2018-12-17																
5023944	A17_07	A17_07	1732	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-11	2018-12-11	No		ND	2018-12-13	2019-01-04																
5077603	CEP	CEP	3557	ELMHURST AVE	Lead	Lead	PEX	Copper	2018-12-11	2018-12-11	No		5.4	2018-12-12	2018-12-17																
5070707	A16_06	A16_06	20	JACKSONIA ST	Lead	Copper	Copper	Not Replaced	2018-12-11		No		8.1	2019-03-20	2019-03-26																
5023533	A17_07	A17_07	1835	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-11	2018-12-11	No		ND	2018-12-14	2019-01-07																
5023540	A17_07	A17_07	1821	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-12-12		No		1.5	2019-05-14	2019-05-21																
5058987	A12_02_A	A12_02_A	5	NORTON ST	Lead	Lead	PEX	Copper																							

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5	
5024326	A17_07	A17_07	1628	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-26		No		ND	2018-12-29	2019-01-07													
5024327	A17_07	A17_07	1624	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-26		No		ND	2018-12-29	2019-01-11													
5023831	A17_07	A17_07	1657	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-26		No		ND	2018-12-30	2019-01-11													
5058624	A12_02_A	A12_02_A	126	PROSPECT ST	Lead	Lead	PEX	Copper	2018-12-27	2018-12-27	No		ND	2019-01-02	2019-01-11													
5024364	A17_07	A17_07	1631	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-27		No		ND	2019-01-09	2019-01-22													
5024363	A17_07	A17_07	1627	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-28		No		ND	2019-01-06	2019-01-11													
5024333	A17_07	A17_07	1606	DUFFIELD ST	Lead	Lead	PEX	Copper	2018-12-28	2018-12-28	No		14.2	2018-12-28	2019-01-07	ND	2018-12-29	2019-01-11										
5035828	Ops	BLG_01	5512	WILKINS AVE	Lead	Lead	PEX	Copper	2018-12-29	2019-04-25	Yes	Emergency	4.26	2019-07-06	2019-07-15													
5024367	A17_07	A17_07	1639	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-29		No		ND	2019-01-04	2019-01-11													
5024355	A17_07	A17_07	1601	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-02		No		ND	2019-03-25	2019-04-01													
5066103	A16_06	A16_06	109	SAMPSONIA WAY	Lead	Copper	Copper	Not Replaced	2019-01-02		No		4.8	2019-01-28	2019-02-06													
5066100	A16_06	A16_06	103	SAMPSONIA WAY	Lead	Copper	Copper	Not Replaced	2019-01-02		No		ND	2019-03-27	2019-04-10													
5024338	A17_07	A17_07	1438	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-02		No		ND	2019-01-03	2019-01-11													
5080530	CEP	CEP	3816	WILKSBORO ST	Lead	Lead	PEX	Copper	2019-01-02	2019-01-02	No		14.3	2019-01-04	2019-01-11													
5069413	Ops	BLG_01	1723	SUNDEMAN ST	Lead	Lead	PEX	Copper	2019-01-03	2019-04-09	Yes	Emergency	2.02	2019-04-10	2019-04-24													
5081239	CEP	CEP	1102	PEMBERTON ST	Lead	Lead	Copper	Copper	2019-01-03	2019-01-03	No		ND	2019-01-08	2019-01-22													
5024321	A17_07	A17_07	1642	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-03		No		ND	2019-01-10	2019-01-22													
5071041	A16_06	A16_06	301	JACKSONIA ST	Lead	Lead	Copper	Copper	2019-01-03	2019-01-03	No		2	2019-01-28	2019-02-06													
5024351	A17_07	A17_07	1435	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-04		No		ND	2019-01-06	2019-01-11													
5040328	BLG	BLG	6815	THOMAS BLVD	Lead	Lead	PEX	Copper	2019-01-04	2019-01-04	No		ND	2019-01-05	2019-01-11													
5024339	A17_07	A17_07	1434	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-04		No		ND	2019-01-06	2019-01-11													
5058627	A12_02_A	A12_02_A	120	PROSPECT ST	Lead	Lead	PEX	Copper	2019-01-04	2019-01-04	No		ND	2019-01-05	2019-01-11													
5024340	A17_07	A17_07	1432	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-04		No		ND	2019-03-03	2019-03-12													
5024342	A17_07	A17_07	1426	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-05		No		ND	2019-01-07	2019-01-11													
5024344	A17_07	A17_07	1420	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-07		No		ND	2019-01-09	2019-01-22													
5024345	A17_07	A17_07	1417	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-07		No		ND	2019-03-07	2019-03-19													
5042662	Ops		2289	BEECHWOOD BLVD	Lead	Copper	Copper	Not Replaced	2019-01-08		No	Emergency	7	2019-01-10	2019-01-22													
5021901	A17_07	A17_07	1414	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-08		No		1.72	2019-03-19	2019-03-26													
5024350	A17_07	A17_07	1433	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-08		No		ND	2019-01-10	2019-01-22													
5070661	A16_06	A16_06	406	JACKSONIA ST	Lead	Copper	Copper	Not Replaced	2019-01-08		No		ND	2019-07-12	2019-07-23													
5002086	Ops		243	LOMBARD ST	Lead	Copper	PEX	Not Replaced	2019-01-09		No	Emergency	6	2019-01-11	2019-01-22													
5070953	A16_06	A16_06	514	JACKSONIA ST	Lead	Lead	Copper	Copper	2019-01-10	2019-01-10	No		ND	2019-01-11	2019-01-22													
5070969	A16_06	A16_06	525	JACKSONIA ST	Lead	PEX	Copper	Not Replaced	2019-01-10		No		1.19	2019-02-05	2019-02-12													
5028676	Ops	BLG_01	35	JOSEPH ST	Lead	Lead	PEX	Not Replaced	2019-01-14		Yes	Emergency	2.69	2019-03-14	2019-03-26													
5063754	Ops	BLG_01	705	VALONIA ST	Lead	Lead	PEX	Not Replaced	2019-01-14		Yes	Emergency	5	2019-01-15	2019-01-22													
5078195	Ops		3432	SHADELAND AVE	Lead	Copper	PEX	Not Replaced	2019-01-14		No	Emergency	299	2019-01-17	2019-01-28	8.86	2019-02-16	2019-02-27										
5022245	A17_07	A17_07	1015	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2019-01-14		No		39	2019-01-15	2019-01-22	6.77	2019-04-10	2019-04-24										
5070955	A16_06	A16_06	508	JACKSONIA ST	Lead	Lead	Copper	Copper	2019-01-14	2019-01-14	No		ND	2019-01-17	2019-01-28													
5050289	Ops	BLG_01	758	HAZELWOOD AVE	Lead	Lead	PEX	Copper	2019-01-15	2019-03-21	Yes	Emergency	6.16	2019-03-12	2019-03-19	2.4	2019-03-22	2019-04-01										
5070967	A16_06	A16_06	523	JACKSONIA ST	Lead	Lead	Copper	Copper	2019-01-15	2019-01-15	No		ND	2019-01-17	2019-01-28													
5071026	A16_06	A16_06	405	JACKSONIA ST	Lead	Lead	Copper	Copper	2019-01-16	2019-01-16	No		ND	2019-01-19	2019-01-28													
5070285	Ops	BLG_01	221	HENDERSON ST	Lead	Lead	PEX	Copper	2019-01-17	2019-05-30	Yes	Emergency	26.8	2019-05-10	2019-05-21	1.01	2019-06-03	2019-06-25										
5022151	Ops		1165	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-01-17		No	Emergency	7.2	2019-01-20	2019-01-28													
5070999	A16_06	A16_06	609	JACKSONIA ST	Lead	Lead	Copper	Copper	2019-01-22	2019-01-22	No		10	2019-01-23	2019-02-06													
5070952	A16_06	A16_06	516	JACKSONIA ST	Lead	Lead	Copper	Not Replaced	2019-01-23		Yes		14.5	2019-02-08	2019-02-19													
5022247	A17_07	A17_07	1022	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2019-01-23		No		1.3	2019-01-25	2019-02-04													
5070616	A16_06	A16_06	1525	ARCH ST	Lead	Lead	Copper	Copper	2019-01-24	2019-01-24	No		5.9	2019-01-25	2019-02-04													
5070887	CEP	CEP	1511	COMPROMISE ST	Lead	Lead	PEX	Copper	2019-01-25	2019-01-25	No		199	2019-01-30	2019-03-28	5.04	2019-04-17	2019-04-24										
5044056	Briar Cliff Water Relay	Briar Cliff Water Relay	572	BRIAR CLIFF RD	Lead	Lead	Copper	Copper	2019-02-04	2019-02-04	No		4.15	2019-02-06	2019-02-12													
5044055	Ops	Briar Cliff Water Relay	578	BRIAR CLIFF RD	Lead	Lead	Copper	Copper	2019-02-07	2019-02-07	No	Emergency	1.64	2019-02-09	2019-02-19													
5065555	Ops		840	N LINCOLN AVE	Lead	PEX	PEX	Not Replaced	2019-02-08		No	Emergency	1.51	2019-02-10	2019-02-19													
5024814	CEP	CEP	1201	KING AVE	Lead	Lead	PEX	Copper	2019-02-14	2019-02-14	No		11.6	2019-02-15	2019-02-27													
5016006	Ops		4405	CESSNA WAY	Lead	PEX	PEX	Not Replaced	2019-02-16		No	Emergency	1.19	2019-03-03	2019-03-12													
5024755	CEP	CEP	5464	BROAD ST	Lead	Lead	PEX	Copper	2019-02-18	2019-02-18	No		ND	2019-04-27	2019-05-07													
5002817	Urgent LSLR	Urgent LSLR	236	ROBINSON ST	Lead	Lead	PEX	Copper	2019-02-19	2019-02-19	No	Emergency	2.92	2019-03-05	2019-04-15													
5024176	Urgent LSLR	Urgent LSLR	6939	STANDISH ST	Lead	Lead	PEX	Copper	2019-02-19	2019-02-19	No	Emergency	1.12	2019-03-03	2019-04-10													
5051029	Ops		118	S 25TH ST	Lead	Copper	PEX	Not Replaced	2019-02-21		No	Emergency	10.8	2019-04-10	2019-04-24													
5016701	Ops		4215	DUNKELD WAY	Lead	Copper	PEX	Not Replaced	2019-02-22		No	Emergency	7.47	2019-02-22	2019-03-04													
5071516	CEP	CEP	1922	MORRIS AVE	Lead	Lead	PEX	Copper	2019-02-22	2019-02-22	No		12.8	2019-02-24	2019-03-04													

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5075037	B02_01_A	B02_01_A	103	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No		2.4	2019-03-25	2019-04-01												
5122851	Urgent LSLR	Urgent LSLR	2	KLOPFER STREET	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No	Emergency	ND	2019-03-28	2019-04-10												
5075087	B02_01_A	B02_01_A	25	DUNLAP ST	Lead	Copper	PEX	Not Replaced	2019-03-21		No		5.69	2019-04-09	2019-04-24												
5074589	B02_01_A	B02_01_A	147	HEMPHILL ST	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No		47.7	2019-03-22	2019-04-01												
5024180	B01_07	B01_07	6928	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No		3.99	2019-05-10	2019-05-21												
5074568	B02_01_A	B02_01_A	48	HEMPHILL ST	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No		4.87	2019-03-21	2019-04-01												
5074922	B02_01_A	B02_01_A	114	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-22	2019-03-22	No		4.28	2019-06-14	2019-07-01												
5075066	B02_01_A	B02_01_A	322	DUNLAP ST	Lead	Copper	PEX	Not Replaced	2019-03-22		No		1.77	2019-03-27	2019-04-10												
5024198	B01_07	B01_07	6931	BISHOP ST	Lead	Lead	PEX	Copper	2019-03-22	2019-03-22	No		1.03	2019-04-02	2019-04-10												
5045521	Ops	Urgent LSLR	4123	WINTERBURN AVE	Lead	Lead	PEX	Copper	2019-03-22	2019-04-04	No	Emergency	4.16	2019-04-07	2019-04-16												
5074587	B02_01_A	B02_01_A	39	HEMPHILL ST	Lead	Copper	PEX	Not Replaced	2019-03-25		No		2.78	2019-04-03	2019-04-16												
5024183	B01_07	B01_07	6922	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-25	2019-03-25	No		3.32	2019-03-27	2019-04-10												
5024171	B01_07	B01_07	6923	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-25	2019-03-25	No		18.4	2019-03-28	2019-04-10	30.9	2019-07-17	2019-07-29	9.97	2019-09-26	2019-10-08						
5075034	B02_01_A	B02_01_A	117	RICHEY AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-03-25	2019-03-25	No		6	2019-03-27	2019-04-01												
5079990	Ops	Urgent LSLR	1531	PENNOCK RD	Lead	Lead	PEX	Copper	2019-03-25	2019-03-27	No	Emergency	ND	2019-05-12	2019-05-21												
5075055	B02_01_A	B02_01_A	118	DUNLAP ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-03-25	2019-03-25	No		1.96	2019-04-04	2019-04-16												
5016680	Ops		4230	BRUCE ST	Lead	Copper	PEX	Not Replaced	2019-03-26		No	Emergency	21.9	2019-03-29	2019-04-10	27.6	2019-07-12	2019-07-23	1.22	2019-10-03	2019-10-08						
5074574	B02_01_A	B02_01_A	15	DEFOE ST	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		19.4	2019-04-01	2019-04-10	ND	2019-10-09	2019-10-15									
5075035	B02_01_A	B02_01_A	115	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		1.71	2019-03-29	2019-04-10												
5024093	B01_07	B01_07	6928	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		1.18	2019-03-29	2019-04-10												
5024137	B01_07	B01_07	6902	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		ND	2019-05-24	2019-06-04												
5024191	B01_07	B01_07	6917	BISHOP ST	Lead	Copper	PEX	Not Replaced	2019-03-26		No		ND	2019-06-04	2019-06-25												
5024092	B01_07	B01_07	6926	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		2.37	2019-03-27	2019-04-10												
5024123	B01_07	B01_07	6918	BISHOP ST	Lead	Copper	PEX	Not Replaced	2019-03-26		No		68.2	2019-03-27	2019-04-10	4.95	2019-07-07	2019-07-15									
5074928	B02_01_A	B02_01_A	126	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		4.06	2019-03-27	2019-04-10												
5024162	B01_07	B01_07	6903	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-26	2019-03-26	No		11.9	2019-05-14	2019-05-29												
5024124	B01_07	B01_07	6920	BISHOP ST	Lead	Lead	PEX	Copper	2019-03-27	2019-03-27	No		3.42	2019-03-30	2019-04-10												
5078706	Ops	Urgent LSLR	3550	CAMPUS ST	Lead	Lead	PEX	Copper	2019-03-27	2019-04-02	No	Emergency	9.55	2019-04-04	2019-04-16												
5024094	B01_07	B01_07	6930	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-03-27	2019-03-27	No		1.13	2019-03-28	2019-04-10												
5024090	B01_07	B01_07	6920	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-03-27	2019-03-27	No		6.76	2019-03-28	2019-04-16												
5074929	B02_01_A	B02_01_A	128	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-27	2019-03-27	No		ND	2019-06-12	2019-06-25												
5075028	B02_01_A	B02_01_A	301	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-27	2019-03-27	No		8.03	2019-05-20	2019-05-29												
5024190	B01_07	B01_07	6904	STANDISH ST	Lead	Copper	PEX	Not Replaced	2019-03-27		No		2.82	2019-03-30	2019-04-10												
5024097	B01_07	B01_07	6938	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-03-28	2019-03-28	No		6.44	2019-03-29	2019-04-10												
5074579	B02_01_A	B02_01_A	35	DEFOE ST	Lead	Lead	PEX	Copper	2019-03-28	2019-03-28	No		1.18	2019-04-02	2019-04-16												
5024167	B01_07	B01_07	6913.5	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-28	2019-03-28	No		2.78	2019-05-15	2019-05-29												
5074576	B02_01_A	B02_01_A	25	DEFOE ST	Lead	Lead	PEX	Copper	2019-03-28	2019-03-28	No		188	2019-03-28	2019-04-10	6.77	2019-06-28	2019-07-15									
5074930	B02_01_A	B02_01_A	130	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-28	2019-03-28	No		ND	2019-07-01	2019-07-15												
5024193	B01_07	B01_07	6919	BISHOP ST	Lead	Lead	PEX	Copper	2019-03-28	2019-03-28	No		3.25	2019-06-06	2019-06-25												
5024140	B01_07	B01_07	6923	MANISTEE ST	Lead	Copper	PEX	Not Replaced	2019-03-28		No		ND	2019-05-14	2019-05-21												
5074584	B02_01_A	B02_01_A	55	DEFOE ST	Lead	Lead	PEX	Copper	2019-03-29	2019-03-29	No		1.07	2019-05-17	2019-05-29												
5075023	B02_01_A	B02_01_A	317	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-29	2019-03-29	No		ND	2019-04-01	2019-04-10												
5074545	B02_01_A	B02_01_A	3815	PERRYVILLE AVE	Lead	Lead	PEX	Copper	2019-03-29	2019-03-29	No		16.8	2019-04-01	2019-04-16	ND	2019-07-21	2019-07-29									
5023708	B01_07	B01_07	6915	MANISTEE ST	Lead	Lead	PEX	Copper	2019-03-29	2019-03-29	No		6.22	2019-03-31	2019-04-10												
5050368	Ops	Urgent LSLR	3418	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-03-31	2019-04-06	No	Emergency	1.53	2019-05-27	2019-06-04												
5024098	B01_07	B01_07	6940	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-04-01	2019-04-01	No		7.58	2019-04-02	2019-04-16												
5024100	B01_07	B01_07	6941	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-04-01	2019-04-01	No		6.69	2019-04-02	2019-04-16												
5075180	B02_01_A	B02_01_A	410.5	VENTURE	Lead	Lead	PEX	Copper	2019-04-01	2019-04-01	No		ND	2019-04-16	2019-04-30												
5024138	B01_07	B01_07	6919	MANISTEE ST	Lead	Copper	PEX	Not Replaced	2019-04-01		No		3.13	2019-04-04	2019-04-16												
5075051	B02_01_A	B02_01_A	100	DUNLAP ST	Lead	Lead	PEX	Copper	2019-04-01	2019-04-01	No		8.54	2019-04-02	2019-04-10												
5074571	B02_01_A	B02_01_A																									

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5024106	B01_07	B01_07	6923	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-04-10	2019-04-10	No		6.66	2019-04-15	2019-04-24												
5024132	B01_07	B01_07	6913	BISHOP ST	Lead	Lead	PEX	Copper	2019-04-10	2019-04-10	No		3.6	2019-04-12	2019-04-24												
5024197	B01_07	B01_07	6929	BISHOP ST	Lead	Copper	PEX	Not Replaced	2019-04-11		No		1.79	2019-04-17	2019-04-24												
5024263	B01_07	B01_07	1631	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-04-11		No		48.3	2019-04-12	2019-04-24	9.49	2019-09-14	2019-09-24									
5024141	B01_07	B01_07	1945	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-11	2019-04-11	No		7.54	2019-04-12	2019-04-24												
5023707	B01_07	B01_07	6917	MANISTEE ST	Lead	Copper	PEX	Not Replaced	2019-04-11		No		4.19	2019-06-24	2019-07-08												
5024108	B01_07	B01_07	6917	GREENWOOD ST	Lead	Lead	PEX	Copper	2019-04-11	2019-04-11	No		1.96	2019-04-14	2019-04-24												
5024386	B01_07	B01_07	1662	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-04-11		No		5.07	2019-04-12	2019-04-24												
5024133	B01_07	B01_07	6911	BISHOP ST	Lead	Lead	PEX	Copper	2019-04-11	2019-04-11	No		9.56	2019-04-16	2019-04-24												
5024241	B01_07	B01_07	1950	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-11	2019-04-11	No		1.2	2019-05-24	2019-06-25												
5040485	CEP	CEP	6835	MCPHERSON BLVD	Lead	Lead	Copper	Copper	2019-04-12	2019-04-12	No		ND	2019-04-15	2019-04-30												
5024242	B01_07	B01_07	1950.5	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-12	2019-04-12	No		4.45	2019-04-14	2019-04-30												
5074618	B02_01_A	B02_01_A	65	SEMICIR ST	Lead	Lead	PEX	Copper	2019-04-12	2019-04-12	No		2.03	2019-06-09	2019-06-25												
5024145	B01_07	B01_07	1929	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-12	2019-04-12	No		4.72	2019-09-15	2019-09-24												
5023723	B01_07	B01_07	7220	WITHERSPOON ST	Lead	Lead	PEX	Copper	2019-04-12	2019-04-12	No		1570	2019-04-13	2019-04-24	ND	2019-07-25	2019-08-05									
5074582	B02_01_A	B02_01_A	45	DEFOE ST	Lead	Lead	PEX	Copper	2019-04-13	2019-04-13	No		16.3	2019-08-20	2019-09-03												
5074884	B02_01_A	B02_01_A	3773	EAST ST	Lead	Copper	PEX	Not Replaced	2019-04-15		No		31.2	2019-04-17	2019-04-30	16.8	2019-07-12	2019-07-23	ND	2019-09-28	2019-11-04						
5024240	B01_07	B01_07	1952	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-15	2019-04-15	No		9.78	2019-04-27	2019-05-15												
5024142	B01_07	B01_07	1939	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-15	2019-04-15	No		1.15	2019-04-25	2019-04-30												
5074660	B02_01_A	B02_01_A	66	RIVERVIEW AVE	Lead	Copper	PEX	Not Replaced	2019-04-15		No		9.4	2019-04-16	2019-04-30												
5074866	B02_01_A	B02_01_A	3748	EAST ST	Lead	Lead	PEX	Copper	2019-04-15	2019-04-15	No		ND	2019-06-06	2019-06-25												
5074954	B02_01_A	B02_01_A	3635	BAYTREE ST	Lead	Lead	PEX	Copper	2019-04-15	2019-04-15	No		1.33	2019-04-17	2019-04-24												
5024128	B01_07	B01_07	6926	BISHOP ST	Lead	Lead	PEX	Copper	2019-04-15	2019-04-15	No		3.82	2019-06-17	2019-07-08												
5024127	B01_07	B01_07	6924	BISHOP ST	Lead	Copper	PEX	Not Replaced	2019-04-15		No		1.48	2019-06-15	2019-07-01												
5057080	B06_03_A	B06_03_A	121	WALTER ST	Lead	Lead	PEX	Copper	2019-04-15	2019-04-15	No		ND	2019-04-18	2019-04-24												
5024225	B01_07	B01_07	1916	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-16	2019-04-16	No		6.39	2019-04-17	2019-04-24												
5023730	B01_07	B01_07	7234	WITHERSPOON ST	Lead	Copper	PEX	Not Replaced	2019-04-16		No		58.7	2019-04-16	2019-04-24	1.87	2019-07-19	2019-07-29									
5057062	B06_03_A	B06_03_A	306	WALTER ST	Lead	Lead	PEX	Copper	2019-04-16	2019-04-16	No		5.05	2019-04-19	2019-04-24												
5057061	B06_03_A	B06_03_A	308	WALTER ST	Lead	Lead	PEX	Copper	2019-04-16	2019-04-16	No		180	2019-04-17	2019-04-24												
5024405	B01_07	B01_07	1610	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-17	2019-04-17	No		7.9	2019-04-22	2019-04-30												
5024122	B01_07	B01_07	6916	BISHOP ST	Lead	Lead	PEX	Copper	2019-04-17	2019-04-17	No		3.32	2019-04-27	2019-05-07												
5057089	B06_03_A	B06_03_A	211	WALTER ST	Lead	Lead	PEX	Copper	2019-04-17	2019-04-17	No		ND	2019-04-17	2019-04-24												
5057105	B06_03_A	B06_03_A	321	WALTER ST	Lead	Lead	PEX	Copper	2019-04-17	2019-04-17	No		ND	2019-04-18	2019-04-30												
5074671	B02_01_A	B02_01_A	45-47	RIVERVIEW AVE	Lead	Lead	PEX	Copper	2019-04-17	2019-04-17	No		ND	2019-06-03	2019-06-25												
5057063	B06_03_A	B06_03_A	304	WALTER ST	Lead	Lead	PEX	Copper	2019-04-17	2019-04-17	No		ND	2019-06-18	2019-07-08												
5024248	B01_07	B01_07	1433	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-17	2019-04-18	No		8.86	2019-04-19	2019-04-24												
5057057	B06_03_A	B06_03_A	322	WALTER ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-04-17	2019-04-17	No		ND	2019-04-18	2019-04-24												
5023722	B01_07	B01_07	7218	WITHERSPOON ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		2.33	2019-04-28	2019-05-07												
5074846	B02_01_A	B02_01_A	3818	EAST ST	Lead	Copper	PEX	Not Replaced	2019-04-18		No		14.4	2019-04-22	2019-05-07												
5024406	B01_07	B01_07	1606	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		3.36	2019-07-19	2019-07-29												
5024201	B01_07	B01_07	6937	BISHOP ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		3.76	2019-04-20	2019-04-24												
5024209	B01_07	B01_07	1800	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		1.49	2019-04-22	2019-04-30												
5057463	B06_03_A	B06_03_A	640	LILLIAN ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		6.47	2019-04-26	2019-05-15												
5074821	B02_01_A	B02_01_A	3679	BAYTREE ST	Lead	Copper	PEX	Not Replaced	2019-04-18		No		2.63	2019-04-19	2019-04-24												
5032408	B04_09_A	B04_09_A	7001	CHAUCER ST	Lead	Copper	PEX	Not Replaced	2019-04-18		No		25.7	2019-04-22	2019-05-15												
5024486	B01_07	B01_07	1728	ANTIETAM ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		3.68	2019-04-19	2019-04-24												
5074532	B02_01_A	B02_01_A	3850	EAST ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		1.42	2019-06-10	2019-06-25												
5022005	B01_07	B01_07	1424	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		2.1	2019-06-17	2019-07-08												
5024488	B01_07	B01_07	1732	ANTIETAM ST	Lead	Copper	PEX	Not Replaced	2019-04-18		No		ND	2019-06-07	2019-06-25												
5074531	B02_01_A	B02_01_A	3854	EAST ST	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		ND	2019-06-05	2019-06-25												
5075289	B02_01_A	B02_01_A	39	RIVERVIEW AVE	Lead	Lead	PEX	Copper	2019-04-18	2019-04-18	No		4.12	2019-06-16	2019-07-08												
5057481	B06_03_A	B06_03_A	750	LILLIAN ST	Lead	Copper	PEX	Not Replaced	2019-04-18		No		ND	2019-05-10	2019-06-25												
5074847	B02_01_A	B02_01_A	3814	EAST ST	Lead	Copper	PEX	Not Replaced	2019-04-18		No		1.6	2019-06-10	2019-06-25												
5030728	Urgent LSLR	Urgent LSLR	6909	HAMILTON AVE	Lead	Lead	PEX	Copper	2019-04-19	2019-04-19	No	Emergency	21	2019-04-19	2019-04-24	2.22	2019-06-24	2019-07-15									
5074826	B02_01_A	B02_01_A	3719	BAYTREE ST	Lead	Lead	PEX	Copper	2019-04-19	2019-04-19	No		11.7	2019-04-20	2019-04-30												
5024407	B01_07	B01_07	1604	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		ND	2019-06-15	2019-07-01												
5022013	B01_07	B01_07	1400	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		3.25	2019-04-23	2019-04-30												
5074663	B02_01_A	B02_01_A	141	RIVERVIEW AVE	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		190	2019-04-24	2019-04-30	24.8	2019-04-26	2019-05-15	ND	2019-09-22							

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5022043	B01_07	B01_07	1213	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-09	2019-05-09	No		ND	2019-06-07	2019-06-25												
5074770	B02_01_A	B02_01_A	3939	EVERGREEN RD	Lead	Copper	PEX	Not Replaced	2019-05-09		No		1.17	2019-06-27	2019-07-08												
5057328	B06_03_A	B06_03_A	914	FREELAND ST	Lead	Lead	PEX	Copper	2019-05-10	2019-05-10	No		ND	2019-05-11	2019-05-21												
5056933	B06_03_A	B06_03_A	963	MANTON WAY	Lead	Lead	PEX	Copper	2019-05-10	2019-05-10	No		ND	2019-05-27	2019-06-04												
5074659	B02_01_A	B02_01_A	48	RIVERVIEW AVE	Lead	Copper	PEX	Not Replaced	2019-05-10		No		10.8	2019-05-12	2019-05-29												
5075108	B02_01_A	B02_01_A	3606	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-05-10	2019-05-10	No		9.72	2019-05-12	2019-06-25												
5057329	B06_03_A	B06_03_A	916	FREELAND ST	Lead	Copper	PEX	Not Replaced	2019-05-10		No		ND	2019-05-12	2019-05-21												
5074893	B02_01_A	B02_01_A	3816	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-05-10		No		ND	2019-06-28	2019-07-15												
5022158	B01_07	B01_07	1139	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-05-13		No		1.39	2019-05-20	2019-05-29												
5022153	B01_07	B01_07	1161	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-05-13		No		2.44	2019-05-15	2019-05-29												
5024043	B01_07	B01_07	1827	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-13	2019-05-13	No		4.88	2019-09-01	2019-09-16												
5056938	B06_03_A	B06_03_A	947	MANTON WAY	Lead	Copper	PEX	Not Replaced	2019-05-13		No		ND	2019-05-16	2019-05-29												
5022184	B01_07	B01_07	1134	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-05-13		No		ND	2019-06-27	2019-07-08												
5022042	B01_07	B01_07	1211	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-13	2019-05-13	No		1.96	2019-05-16	2019-05-29												
5075102	B02_01_A	B02_01_A	3622	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-05-13	2019-05-13	No		ND	2019-10-03	2019-10-15												
5056830	B06_03_A	B06_03_A	913	MANTON WAY	Lead	Copper	PEX	Not Replaced	2019-05-13		No		ND	2019-05-18	2019-06-11												
5022070	B01_07	B01_07	1200	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-13	2019-05-14	No		5.94	2019-05-16	2019-06-11												
5022150	B01_07	B01_07	1169	JANCEY ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-05-14	2019-05-14	No		5.25	2019-05-15	2019-05-21												
5057313	B06_03_A	B06_03_A	911	FREELAND ST	Lead	Lead	PEX	Copper	2019-05-14	2019-05-14	No		ND	2019-07-05	2019-07-29												
5029996	B04_09_A	B04_09_A	1411	N MURLAND ST	Lead	Lead	PEX	Copper	2019-05-14	2019-05-14	No		14.9	2019-06-07	2019-07-29												
5029351	B04_09_A	B04_09_A	6601	DEARY ST	Lead	Copper	PEX	Not Replaced	2019-05-14		No		1.79	2019-05-15	2019-05-29												
5057336	B06_03_A	B06_03_A	928	FREELAND ST	Lead	Copper	PEX	Not Replaced	2019-05-14		No		2.56	2019-05-16	2019-07-10												
5024044	B01_07	B01_07	1825	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-14	2019-05-14	No		1.7	2019-07-08	2019-08-05												
5057304	B06_03_A	B06_03_A	312	KNOX AVE	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		3.71	2019-05-16	2019-05-29												
5022045	B01_07	B01_07	1217	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		ND	2019-05-17	2019-05-29												
5057293	B06_03_A	B06_03_A	404	KNOX AVE	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		ND	2019-08-19	2019-08-26												
5022239	B01_07	B01_07	1176	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		1.06	2019-05-15	2019-05-29												
5074834	B02_01_A	B02_01_A	3759	BAYTREE ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		1.95	2019-07-11	2019-07-23												
5022181	B01_07	B01_07	1126	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		ND	2019-06-15	2019-07-01												
5057165	B06_03_A	B06_03_A	820	INDUSTRY ST	Lead	Copper	PEX	Not Replaced	2019-05-15		No		ND	2019-05-16	2019-05-29												
5057512	B06_03_A	B06_03_A	920	LILLIAN ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		ND	2019-05-17	2019-05-29												
5032524	B04_09_A	B04_09_A	1402	N MURLAND ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		2.48	2019-05-20	2019-05-29												
5004751	CEP	CEP	3216	JULIET ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		4.75	2019-05-16	2019-05-29												
5022175	B01_07	B01_07	1106	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		ND	2019-05-15	2019-05-29												
5074551	B02_01_A	B02_01_A	3843	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-05-15		No		4.72	2019-05-16	2019-05-29												
5057322	B06_03_A	B06_03_A	401	KNOX AVE	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		ND	2019-07-04	2019-07-29												
5057406	B06_03_A	B06_03_A	924	INDUSTRY ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		ND	2019-07-31	2019-08-12												
5022173	B01_07	B01_07	1100	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		1.57	2019-07-06	2019-07-15												
5024417	B01_07	B01_07	1443	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		30.8	2019-07-09	2019-07-15												
5057513	B06_03_A	B06_03_A	922	LILLIAN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-05-16	2019-05-16	No		1.46	2019-06-19	2019-07-15												
5022165	B01_07	B01_07	1119	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		ND	2019-05-22	2019-05-29												
5022055	B01_07	B01_07	1435	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		1.06	2019-05-20	2019-05-29												
5057427	B06_03_A	B06_03_A	923	INDUSTRY ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		3.48	2019-05-16	2019-06-11												
5022276	B01_07	B01_07	1030	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		2.86	2019-05-18	2019-06-11												
5057520	B06_03_A	B06_03_A	944	LILLIAN ST	Lead	Copper	PEX	Not Replaced	2019-05-16		No		1.02	2019-07-25	2019-08-12												
5074549	B02_01_A	B02_01_A	3835	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		2.73	2019-05-19	2019-05-29												
5029050	CEP	CEP	3	SHETLAND AVE	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		8.06	2019-05-17	2019-05-29												
5056626	B06_03_A	B06_03_A	67	MILLBRIDGE ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		17.2	2019-05-30	2019-06-25												
5056623	B06_03_A	B06_03_A	61	MILLBRIDGE ST	Lead	Lead	PEX	Copper	2019-05-16	2019-05-16	No		2.02	2019-06-01	2019-06-25												
5027218	Ops	Urgent LSLR	307	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2019-05-17	2019-09-06	No	Emergency	36.9	2019-09-07	2019-09-24	20	2019-11-11	2019-11-18	9.7	2020-01-29	2020-02-03						
5029836	B04_09_A	B04_09_A	6624	LYRIC ST	Lead	Lead	PEX	Copper	2019-05-17	2019-05-17	No		120	2019-07-10	2019-08-05												
5036600	Ops	Urgent LSLR	1464	INVERNESS AVE	Lead	Lead	PEX	Copper	2019-05-17	2019-05-20	No	Emergency	45.3	2019-05-22	2019-06-11	ND	2019-08-30	2019-09-09									
5074527	B02_01_A	B02_01_A	3819	BAYTREE ST	Lead	Lead	PEX	Copper	2019-05-17	2019-05-17	No		1.78	2019-08-07	2019-08-26												
5056590	B06_03_A	B06_03_A	36	MILLBRIDGE ST	Lead	Lead	PEX	Copper	2019-05-17	2019-05-17	No		ND	2019-08-12	2019-08-26												
5022275	B01_07	B01_07	1034	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-17	2019-05-17	No		2.07	2019-07-16	2019-07-23												
5056621	B06_03_A	B06_03_A	55	MILLBRIDGE ST	Lead	Lead	PEX	Copper	2019-05-17	2019-05-17	No		1.41	2019-05-18	2019-05-29												
5024418	B01_07	B01_07	1445	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-17	2019-05-17	No		ND	2019-05-18	2019-05-29												
5074647	B02_01_A	B02_01_A	3651	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-05-18	2019-05-18	No		1.87	2019-05-20	2019-05-29												
5024019	B01_07	B01_07	1722	JANCEY ST	Lead	Lead	PEX	Copper	2019-05																		

Post-Construction Replacement Sample Results (All) Report as of April 30, 2022

Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refcrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refcrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refcrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refcrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refcrom Lab5
5023954	B01_07	B01_07	1821	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-24	2019-06-24	No		8.64	2019-08-16	2019-08-26												
5030690	B04_09_A	B04_09_A	701	N DALLAS AVE	Lead	Lead	PEX	Copper	2019-06-24	2019-06-24	No		8.28	2019-06-28	2019-07-15												
5024113	B01_07	B01_07	1804	CHISLETT ST	Lead	Lead	PEX	Copper	2019-06-24	2019-06-24	No		2.13	2019-06-25	2019-07-15												
5056586	B06_03_A	B06_03_A	625	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-06-24	2019-06-24	No		ND	2019-06-26	2019-07-08												
5030709	B04_09_A	B04_09_A	621	N DALLAS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-24	2019-06-24	No		ND	2019-10-09	2019-10-21												
5056585	B06_03_A	B06_03_A	621	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-06-24	2019-06-24	No		34.2	2019-07-01	2019-07-15	2.12	2019-10-01	2019-10-08									
5023560	B01_07	B01_07	1881	JANCEY ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-24	2019-06-24	No		13.4	2019-06-26	2019-07-08												
5063087	CEP	CEP	1027	RUE GRANDE VUE ST	Lead	Lead	PEX	Copper	2019-06-25	2019-06-25	No		5.23	2019-10-23	2019-10-29												
5024047	B01_07	B01_07	1809	CHISLETT ST	Lead	Lead	PEX	Copper	2019-06-25	2019-06-25	No		1.37	2019-06-26	2019-07-15												
5055893	B06_03_A	B06_03_A	12	RENWICK ST	Lead	Copper	PEX	Not Replaced	2019-06-25		No		ND	2019-06-27	2019-07-08												
5032669	B04_09_B	B04_09_B	7154	KEDRON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-25	2019-06-25	No		ND	2019-08-16	2019-08-26												
5072396	B08_06_B	B08_06_B	412	BARK ST	Lead	Copper	PEX	Not Replaced	2019-06-25		No		5.1	2020-03-28	2020-04-06												
5055898	B06_03_A	B06_03_A	4	RENWICK ST	Lead	Copper	PEX	Not Replaced	2019-06-25		No		ND	2019-07-12	2019-07-23												
5032649	B04_09_B	B04_09_B	7111	KEDRON ST	Lead	Lead	PEX	Copper	2019-06-26	2019-06-26	No		ND	2019-06-26	2019-07-15												
5063355	CEP	CEP	305	LORENZ AVE	Lead	Lead	PEX	Copper	2019-06-26	2019-06-26	No		4.85	2019-06-28	2019-07-15												
5072363	B08_06_B	B08_06_B	2410	OSGOOD ST	Lead	Lead	PEX	Copper	2019-06-26	2019-06-26	No		1.89	2019-06-28	2019-07-15												
5055608	B06_03_A	B06_03_A	618	WINDOM ST	Lead	PEX	PEX	Not Replaced	2019-06-26		No		ND	2019-06-28	2019-07-15												
5032531	B04_09_B	B04_09_B	7029	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-06-26	2019-06-26	No		22.8	2019-06-27	2019-07-15	8.83	2019-09-26	2019-10-21									
5032564	B04_09_B	B04_09_B	7035	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-06-26	2019-06-26	No		28	2019-06-27	2019-07-15												
5072662	B08_06_B	B08_06_B	2213	FEDERAL STREET EXT	Lead	Copper	PEX	Not Replaced	2019-06-26		No		ND	2019-08-18	2019-08-26												
5072692	B08_06_B	B08_06_B	216	SEABRIGHT ST	Lead	Lead	PEX	Copper	2019-06-27	2019-06-27	No		ND	2019-07-01	2019-07-15												
5032660	B04_09_B	B04_09_B	7133	KEDRON ST	Lead	Lead	PEX	Copper	2019-06-27	2019-06-27	No		13.6	2019-06-28	2019-07-23												
5055841	B06_03_A	B06_03_A	842	MCLAIN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-27	2019-06-27	No		1.18	2020-02-06	2020-02-17												
5032647	B04_09_B	B04_09_B	7107	KEDRON ST	Lead	Lead	PEX	Copper	2019-06-27	2019-06-27	No		15.5	2019-06-29	2019-07-15												
5032616	B04_09_B	B04_09_B	7042	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-06-27	2019-06-27	No		2.3	2019-06-28	2019-07-15												
5072361	B08_06_B	B08_06_B	2409	OSGOOD ST	Lead	Lead	PEX	Copper	2019-06-27	2019-06-27	No		2.58	2019-08-06	2019-08-12												
5025784	CEP	CEP	901	MELLON ST	Lead	Lead	Copper	Copper	2019-06-27	2019-06-27	No		ND	2019-09-07	2019-09-24												
5080906	CEP	CEP	3712	PARVISS ST	Lead	Lead	PEX	Copper	2019-06-27	2019-06-27	No		8.04	2019-06-28	2019-07-15												
5022193	B01_07	B01_07	1166-1168	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-28	2019-06-28	No		4.66	2019-06-29	2019-07-15	8.87	2019-06-29	2019-07-15									
5032691	B04_09_B	B04_09_B	7028	KEDRON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-28	2019-06-28	No		20.4	2019-06-29	2019-07-15	20.4	2019-06-29	2019-07-15	2.62	2019-09-19	2019-09-30						
5072690	B08_06_B	B08_06_B	2216	FEDERAL EXT	Lead	Lead	PEX	Copper	2019-06-28	2019-06-28	No		1.49	2019-08-20	2019-08-26												
5030624	B04_09_A	B04_09_A	6953	FRANKSTOWN AVE	Lead	Copper	PEX	Not Replaced	2019-06-28		No		ND	2019-08-24	2019-09-16												
5032682	B04_09_B	B04_09_B	7050	KEDRON ST	Lead	Lead	PEX	Copper	2019-07-01	2019-07-01	No		19.9	2019-07-01	2019-07-29												
5055832	B06_03_A	B06_03_A	826	MCLAIN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-01	2019-07-01	No		52.7	2019-07-09	2019-07-15	3.38	2019-11-15	2019-11-26									
5071475	B08_06_A	B08_06_A	13	BELLEAU ST	Lead	Lead	PEX	Copper	2019-07-01	2019-07-01	No		ND	2019-08-28	2019-09-09												
5032637	B04_09_B	B04_09_B	7027	KEDRON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-01	2019-07-01	No		4.76	2019-07-02	2019-07-15												
5032646	B04_09_B	B04_09_B	7105	KEDRON ST	Lead	Lead	PEX	Copper	2019-07-02	2019-07-02	No		1.28	2019-07-02	2019-07-15												
5056656	B06_03_A	B06_03_A	735	CERES WAY	Lead	Lead	PEX	Copper	2019-07-02	2019-07-02	No		3.1	2019-07-03	2019-07-15												
5030359	B04_09_A	B04_09_A	1009	GERRITT ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-02	2019-07-02	No		2.7	2019-12-31	2020-01-08												
5072658	B08_06_B	B08_06_B	2243	FEDERAL EXT	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-02	2019-07-02	No		8.99	2019-07-03	2019-07-15												
5072317	B08_06_B	B08_06_B	2336	MAPLE AVE	Lead	Copper	PEX	Not Replaced	2019-07-02		No		43.4	2019-07-03	2019-07-15												
5072316	B08_06_B	B08_06_B	2334	MAPLE AVE	Lead	Lead	PEX	Copper	2019-07-02	2019-07-02	No		ND	2019-08-05	2019-08-12												
5032968	B04_09_B	B04_09_B	7221	KEDRON ST	Lead	Lead	PEX	Copper	2019-07-02	2019-07-02	No		ND	2019-07-06	2019-07-23												
5032938	B04_09_B	B04_09_B	7328	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-07-02	2019-07-02	No		ND	2019-07-23	2019-07-29												
5033046	B04_09_B	B04_09_B	1032	N LANG AVE	Lead	Lead	PEX	Copper	2019-07-02	2019-07-02	No		ND	2019-07-03	2019-07-15												
5056655	B06_03_A	B06_03_A	739	CERES WAY	Lead	Lead	PEX	Copper	2019-07-03	2019-07-03	No		2.78	2019-07-05	2019-07-15												
5032787	B04_09_B	B04_09_B	1113	N LANG AVE	Lead	Lead	PEX	Copper	2019-07-03	2019-07-03	No		12.4	2019-07-06	2019-07-15												
5072713	B08_06_B	B08_06_B	2230	FEDERAL EXT	Lead	Copper	PEX	Not Replaced	2019-07-03		No		11.2	2019-07-29	2019-08-05												
5032729	B04_09_B	B04_09_B	7108	HERMITAGE ST	Lead	Copper	PEX	Not Replaced	2019-07-03		No		2.29	2019-07-03	2019-07-23												
5032864	B04_09_B	B04_09_B	7241	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-07-03	2019-07-03	No		2.27	2019-08-12	2019-08-18												
5014187	CEP	CEP	364	W PENN	Lead	Lead	PEX	Copper	2019-07-03	2019-07-03	No		2.85	2019-07-05	2019-07-15												
5007619	Ops	Urgent LSLR	3118	IOWA ST	Lead	Lead	PEX	Copper	2019-07-06	2019-07-22	No	Emergency	3.46	2019-08-29	2019-09-09												
5007622	Ops	Urgent LSLR	3120	IOWA ST	Lead	Lead	PEX	Copper	2019-07-06	2019-07-22	No	Emergency	16	2019-08-30	2019-09-16												
5032959	B04_09_B	B04_09_B	7247	KEDRON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-08	2019-07-08	No		ND	2019-07-11	2019-07-23												
5072437	B08_06_B	B08_06_B	436	E BURGESS ST	Lead	Lead	PEX	Copper	2019-07-08	2019-07-08	No		5.16	2019-07-09	2019-07-15												
5056661	B06_03_A	B06_03_A	29	ALLEN ST	Lead	Lead	PEX	Copper	2019-07-08	2019-07-08	No		124	2019-07-08	2019-07-15	4	2019-12-11	2020-01-10									
5072312	B08_06_B	B08_06_B	2409	MAPLE AVE	Lead	Lead	PEX	Copper	2019-07-08	2019-07-08	No		2.05	2019-07-10	2019-07-23												
5032736	B04_09_B	B04_09_B	1119	N LANG AVE	Lead	Lead	PEX	Copper	2019-07-0																		

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5	
5042712	B07_05_A	B07_05_A	6352	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-12	2019-07-12	No		1.77	2019-07-15	2019-07-23													
5038482	B07_05_A	B07_05_A	6341	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-15	2019-07-15	No		ND	2019-07-16	2019-07-23													
5072107	B08_06_B	B08_06_B	2534	MAPLE AVE	Lead	Copper	PEX	Not Replaced	2019-07-15		No		1.41	2019-08-06	2019-08-12													
5072100	B08_06_B	B08_06_B	2504	MAPLE AVE	Lead	Copper	PEX	Not Replaced	2019-07-15		No		1.35	2019-09-11	2019-09-24													
5055370	B06_03_A	B06_03_A	14	E AMANDA AVE	Lead	Lead	PEX	Copper	2019-07-15	2019-07-15	No		10.1	2019-07-17	2019-07-29													
5072311	B08_06_B	B08_06_B	2415	MAPLE AVE	Lead	Lead	PEX	Copper	2019-07-15	2019-07-15	No		1.44	2019-10-01	2019-10-08													
5052460	CEP	CEP	2830	SARAH ST	Lead	Lead	PEX	Copper	2019-07-15	2019-07-15	No		ND	2019-07-31	2019-08-12													
5072421	B08_06_B	B08_06_B	311	E MCINTYRE AVE	Lead	Lead	PEX	Copper	2019-07-16	2019-07-16	No		1.25	2019-08-20	2019-09-03													
5055824	B06_03_A	B06_03_A	2	ALLEN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-16	2019-07-16	No		ND	2019-09-15	2019-09-24													
5057402	B06_03_A	B06_03_A	1335	ARLINGTON AVE	Lead	Lead	PEX	Copper	2019-07-16	2019-07-16	No		ND	2019-09-10	2019-09-24													
5054638	CEP	CEP	2016	SARAH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-16	2019-07-16	No		3.72	2019-07-17	2019-07-23													
5121926	CEP	CEP	858	STANTON AVENUE	Lead	Lead	PEX	Copper	2019-07-16	2019-07-16	No		ND	2019-09-10	2019-09-24													
5038961	B07_05_A	B07_05_A	6330	CROMBIE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-16	2019-07-16	No		2.2	2019-07-19	2019-07-29													
5072429	B08_06_B	B08_06_B	2440	HAZELTON ST	Lead	Lead	PEX	Copper	2019-07-16	2019-07-16	No		5.27	2019-07-19	2019-07-29													
5032702	B04_09_B	B04_09_B	7045	HERMITAGE ST	Lead	Lead	PEX	Copper	2019-07-16	2019-07-16	No		2.81	2019-07-24	2019-08-05													
5057340	B06_03_A	B06_03_A	1507	ARLINGTON AVE	Lead	Copper	PEX	Not Replaced	2019-07-16		No		ND	2019-07-29	2019-08-05													
5042642	B07_05_A	B07_05_A	6353	WALDRON ST	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		ND	2019-08-04	2019-08-18													
5071973	B08_06_B	B08_06_B	2527	MAPLE AVE	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		24.2	2019-07-22	2019-08-05													
5072341	B08_06_B	B08_06_B	2449	HAZELTON ST	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		ND	2019-08-12	2019-08-26													
5048976	CEP	CEP	66	CUST ST	Lead	Copper	PEX	Not Replaced	2019-07-17		No		3.81	2019-07-18	2019-07-29													
5057193	B06_03_A	B06_03_A	1320	ARLINGTON AVE	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		1.18	2019-07-18	2019-07-29													
5038488	B07_05_A	B07_05_A	6321	CROMBIE ST	Lead	Copper	PEX	Not Replaced	2019-07-17		No		ND	2019-07-18	2019-07-29													
5072343	B08_06_B	B08_06_B	2445	HAZELTON ST	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		5.75	2019-08-05	2019-08-12													
5072344	B08_06_B	B08_06_B	2443	HAZELTON ST	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		3.56	2019-07-18	2019-07-29													
5042644	B07_05_A	B07_05_A	6357	WALDRON ST	Lead	Copper	PEX	Not Replaced	2019-07-17		No		ND	2019-09-13	2019-09-24													
5065348	CEP	CEP	1204	SUCCESS ST	Lead	Lead	PEX	Copper	2019-07-17	2019-07-17	No		2.13	2019-09-27	2019-10-08													
5038489	B07_05_A	B07_05_A	6319	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-18	2019-07-18	No		27.5	2019-07-19	2019-07-29	ND	2019-11-11	2019-12-03										
5038959	B07_05_A	B07_05_A	6338	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-18	2019-07-18	No		31.7	2019-07-22	2019-07-29	ND	2020-01-21	2020-01-29										
5072103	B08_06_B	B08_06_B	2518	MAPLE AVE	Lead	Lead	PEX	Copper	2019-07-18	2019-07-18	No		ND	2019-07-19	2019-07-29													
5033140	B04_09_B	B04_09_B	7123	IDLEWILD ST	Lead	Lead	PEX	Copper	2019-07-18	2019-07-18	No		37.4	2019-07-19	2019-08-05	ND	2019-11-15	2019-11-26										
5038518	B07_05_A	B07_05_A	6341	WALDRON ST	Lead	Lead	PEX	Copper	2019-07-18	2019-07-18	No		ND	2019-08-21	2019-09-03													
5053632	B06_03_A	B06_03_A	41	HARTFORD ST	Lead	Copper	PEX	Not Replaced	2019-07-18		No		5	2019-07-21	2019-07-29													
5038491	B07_05_A	B07_05_A	6313	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-19	2019-07-19	No		ND	2019-07-20	2019-07-29													
5033293	B04_09_B	B04_09_B	7204	MONTICELLO ST	Lead	Lead	PEX	Copper	2019-07-19	2019-07-19	No		25.3	2019-07-19	2019-08-05	2.73	2019-10-26	2019-11-04										
5072199	B08_06_B	B08_06_B	149	MCINTYRE AVE	Lead	Copper	PEX	Not Replaced	2019-07-19		No		ND	2019-07-31	2019-08-26													
5068896	Ops	Urgent LSLR	1148	ADMIRAL ST	Lead	Lead	PEX	Copper	2019-07-22	2019-08-01	No	Emergency	3.97	2019-08-02	2019-08-12													
5033225	B04_09_B	B04_09_B	7204	HERMITAGE ST	Lead	Lead	PEX	Not Replaced	2019-07-22		Yes		ND	2019-11-13	2019-11-26													
5032215	B04_09_B	B04_09_B	7025	FIELDING WAY	Lead	Lead	PEX	Copper	2019-07-22	2019-07-22	No		28.4	2019-08-11	2019-08-26													
5072073	B08_06_B	B08_06_B	20	MAGNET ST	Lead	Lead	PEX	Not Replaced	2019-07-22		Yes		4.96	2019-07-23	2019-08-12													
5042640	B07_05_A	B07_05_A	6350	WALDRON ST	Lead	Lead	PEX	Copper	2019-07-22	2019-07-22	No		5.16	2019-07-24	2019-08-05													
5033091	B04_09_B	B04_09_B	7150	RACE ST	Lead	Lead	PEX	Copper	2019-07-22	2019-07-22	No		1.34	2019-07-25	2019-08-12													
5072195	B08_06_B	B08_06_B	123	MCINTYRE AVE	Lead	Lead	PEX	Copper	2019-07-22	2019-07-22	No		5.03	2019-07-23	2019-07-29													
5038967	B07_05_A	B07_05_A	6316	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-22	2019-07-23	No		2.36	2019-07-24	2019-07-29													
5038968	B07_05_A	B07_05_A	6314	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-22	2019-07-25	No		9.76	2019-07-30	2019-08-12													
5042651	B07_05_A	B07_05_A	2408	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-07-23	2019-07-23	No		2.86	2019-08-02	2019-08-12													
5031865	B04_09_B	B04_09_B	1545	OAKDENE ST	Lead	Lead	PEX	Copper	2019-07-23	2019-07-23	No		8.86	2019-07-30	2019-08-12													
5057145	B06_03_A	B06_03_A	1227	ARLINGTON AVE	Lead	Lead	PEX	Not Replaced	2019-07-23		Yes		95.4	2019-07-24	2019-08-05	2.94	2019-08-22	2019-09-03										
5055780	B06_03_A	B06_03_A	29	ROANOKE ST	Lead	Lead	PEX	Copper	2019-07-23	2019-07-23	No		1.75	2019-07-25	2019-08-05													
5042643	B07_05_A	B07_05_A	6355	WALDRON ST	Lead	PEX	PEX	Not Replaced	2019-07-23		No		2.68	2019-07-24	2019-08-05													
5072270	B08_06_B	B08_06_B	114	MAYWOOD ST	Lead	Lead	PEX	Copper	2019-07-23	2019-07-23	No		3.3	2019-07-27	2019-08-12													
5057363	B06_03_A	B06_03_A	949	FREELAND ST	Lead	Lead	PEX	Not Replaced	2019-07-23		Yes		14	2019-07-24	2019-07-29													
5042634	B07_05_A	B07_05_A	2436	BEECHWOOD BLVD	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-24	2019-07-24	No		ND	2019-07-27	2019-08-05													
5072250	B08_06_B	B08_06_B	122	MCINTYRE AVE	Lead	Copper	PEX	Not Replaced	2019-07-24		No		ND	2019-09-16	2019-09-24													
5031957	B04_09_B	B04_09_B	7208	HILLIARDS ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-24	2019-07-24	No		1.54	2019-07-28	2019-08-05													
5072294	B08_06_B	B08_06_B	2430	PERRYSVILLE AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-24	2019-07-24	No		4.79	2019-07-25	2019-08-05													
5038519	B07_05_A	B07_05_A	6337	WALDRON ST	Lead	Lead	PEX	Copper	2019-07-24	2019-07-24	No		2.31	2019-07-26	2019-08-05													
5042647	B07_05_A	B07_05_A	2424	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-07-24	2019-07-24	No		ND	2019-07-26	2019													

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5		
5042641	B07_05_A	B07_05_A	6348	WALDRON ST	Lead	Lead	PEX	Copper	2019-07-30	2019-07-30	No		2.02	2019-07-31	2019-08-12														
5072626	B08_06_B	B08_06_B	207	W BURGESS ST	Lead	Lead	PEX	Copper	2019-07-30	2019-07-30	No		1.27	2019-08-03	2019-08-12														
5072605	B08_06_B	B08_06_B	2216	WILSON AVE	Lead	Lead	PEX	Copper	2019-07-30	2019-07-30	No		4.26	2019-08-01	2019-08-12														
5042732	B07_05_A	B07_05_A	2526-2528	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-07-30		No		ND	2019-07-31	2019-08-12														
5058545	B05_02_A	B05_02_A	314	MAPLE TER	Lead	Lead	PEX	Copper	2019-07-30	2019-07-30	No		ND	2019-07-31	2019-08-12														
5072262	B08_06_B	B08_06_B	2439	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		2.07	2019-08-01	2019-08-12														
5042735	B07_05_A	B07_05_A	2538-2540	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		ND	2020-05-17	2020-05-27														
5071373	B08_06_B	B08_06_B	112	LAFAYETTE AVE	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		ND	2019-08-30	2019-09-16														
5005946	CEP	CEP	618	MORGAN ST	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		10.5	2019-08-05	2019-08-26														
5032792	B04_09_B	B04_09_B	7111	MONTICELLO ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-31	2019-07-31	No		ND	2019-10-07	2019-10-15														
5072625	B08_06_B	B08_06_B	209	W BURGESS ST	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		846	2019-08-05	2019-08-12	1.03	2019-11-04	2019-11-11											
5058578	B05_02_A	B05_02_A	321	MAPLE TER	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		1.2	2019-08-21	2019-09-03														
5038505	B07_05_A	B07_05_A	6322	WALDRON ST	Lead	Lead	PEX	Copper	2019-07-31	2019-07-31	No		ND	2019-08-03	2019-08-12														
5072607	B08_06_B	B08_06_B	2212	WILSON AVE	Lead	Copper	PEX	Not Replaced	2019-07-31		No		ND	2019-07-31	2019-08-12														
5038524	B07_05_A	B07_05_A	6325	WALDRON ST	Lead	Copper	PEX	Not Replaced	2019-07-31		No		ND	2019-08-02	2019-08-12														
5058548	B05_02_A	B05_02_A	326	MAPLE TER	Lead	Copper	PEX	Not Replaced	2019-07-31		No		ND	2019-08-06	2019-08-26														
5033045	B04_09_B	B04_09_B	7104	MONTICELLO ST	Lead	Lead	PEX	Copper	2019-08-01	2019-08-01	No		4.18	2019-08-02	2019-08-12														
5042734	B07_05_A	B07_05_A	2534	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-08-01	2019-08-01	No		1.15	2019-08-15	2019-08-26														
5058582	B05_02_A	B05_02_A	339	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-01	2019-08-01	No		1.05	2019-08-03	2019-08-12														
5072329	B08_06_B	B08_06_B	2430	MAPLE AVE	Lead	Lead	PEX	Copper	2019-08-01	2019-08-01	No		3.52	2019-08-03	2019-08-12														
5058474	B05_02_A	B05_02_A	320	GRACE ST	Lead	Copper	PEX	Not Replaced	2019-08-01		No		ND	2019-08-21	2019-09-03														
5058584	B05_02_A	B05_02_A	343	MAPLE TER	Lead	Copper	PEX	Not Replaced	2019-08-01		No		ND	2019-08-03	2019-08-12														
5033301	B04_09_B	B04_09_B	7238	MONTICELLO ST	Lead	Copper	PEX	Not Replaced	2019-08-01		No		524	2019-08-02	2019-08-12	1.25	2019-09-30	2019-10-08											
5032223	B04_09_B	B04_09_B	7025	IDLEWILD ST	Lead	Copper	PEX	Not Replaced	2019-08-02		No		ND	2019-12-21	2020-01-08														
5039310	B07_05_A	B07_05_A	2578	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-08-02	2019-08-02	No		9.6	2019-08-03	2019-08-12														
5006663	CEP	CEP	3362	AJAX ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-02	2019-08-02	No		1.36	2019-08-28	2019-09-09														
5072258	B08_06_B	B08_06_B	101	W MCINTYRE AVE	Lead	Copper	PEX	Not Replaced	2019-08-02		No		ND	2019-09-27	2019-10-08														
5033147	B04_09_B	B04_09_B	7157	IDLEWILD ST	Lead	Copper	PEX	Not Replaced	2019-08-02		No		1.26	2019-08-05	2019-08-26														
5042658	B07_05_A	B07_05_A	6362	PHILLIPS AVE	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		ND	2019-08-06	2019-08-12														
5058422	B05_02_A	B05_02_A	352	GRACE ST	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		20	2019-08-06	2019-08-12	ND	2020-02-06	2020-02-17											
5033165	B04_09_B	B04_09_B	7118	IDLEWILD ST	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		2.42	2019-08-08	2019-08-18														
5068491	CEP	CEP	9	WOESSNER ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-05	2019-08-05	No		14.3	2019-08-08	2019-08-18														
5033397	B04_09_B	B04_09_B	7231	IDLEWILD ST	Lead	Copper	PEX	Not Replaced	2019-08-05		No		6.45	2019-08-07	2019-08-26														
5038993	B07_05_A	B07_05_A	2546	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		1.08	2019-10-23	2019-11-04														
5042659	B07_05_A	B07_05_A	6360	PHILLIPS AVE	Lead	Copper	PEX	Not Replaced	2019-08-05		No		ND	2020-01-16	2020-01-29														
5038515	B07_05_A	B07_05_A	6347	WALDRON ST	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		ND	2019-08-07	2019-08-26														
5058547	B05_02_A	B05_02_A	324	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		4.9	2019-08-07	2019-09-03														
5038539	B07_05_A	B07_05_A	6338	PHILLIPS AVE	Lead	Copper	PEX	Not Replaced	2019-08-05		No		10.8	2019-08-06	2019-08-12														
5072589	B08_06_B	B08_06_B	217	W BURGESS ST	Lead	Copper	PEX	Not Replaced	2019-08-05		No		1.86	2019-08-08	2019-08-18														
5072575	B08_06_B	B08_06_B	222	W BURGESS ST	Lead	Lead	PEX	Copper	2019-08-05	2019-08-05	No		ND	2019-08-08	2019-08-26														
5071790	B08_06_B	B08_06_B	538	CHESTER AVE	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		5.92	2019-08-08	2019-08-26														
5058427	B05_02_A	B05_02_A	342	GRACE ST	Lead	Copper	PEX	Not Replaced	2019-08-06		No		1.7	2019-08-22	2019-09-03														
5058576	B05_02_A	B05_02_A	315	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		ND	2019-08-12	2019-08-18														
5032712	B04_09_B	B04_09_B	7149	HERMITAGE ST	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		ND	2019-09-16	2019-09-24														
5038523	B07_05_A	B07_05_A	6327	WALDRON ST	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		4.18	2019-08-14	2019-08-26														
5038506	B07_05_A	B07_05_A	6324	WALDRON ST	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		8.48	2019-08-07	2019-08-12														
5071789	B08_06_B	B08_06_B	536	CHESTER AVE	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		1.68	2019-08-07	2019-08-18														
5072580	B08_06_B	B08_06_B	234	W BURGESS ST	Lead	Lead	PEX	Copper	2019-08-06	2019-08-06	No		ND	2019-08-09	2019-08-18														
5058425	B05_02_A	B05_02_A	348	GRACE ST	Lead	PEX	PEX	Not Replaced	2019-08-06		No		ND	2019-08-22	2019-09-03														
5058551	B05_02_A	B05_02_A	340	MAPLE TER	Lead	Copper	PEX	Not Replaced	2019-08-06		No		ND	2019-09-27	2019-10-08														
5042738	B07_05_A	B07_05_A	2542	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-08-07	2019-08-07	No		40.8	2019-08-16	2019-08-26														
5058631	B05_02_A	B05_02_A	110	NATCHEZ ST	Lead	Lead	PEX	Copper	2019-08-07	2019-08-07	No		1.96	2019-08-09	2019-08-18														
5042741	B07_05_A	B07_05_A	2557	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-08-07		No		3.77	2019-08-08	2019-08-18														
5058550	B05_02_A	B05_02_A	334	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-07	2019-08-07	No		2.63	2019-08-21	2019-09-03														
5071807	B08_06_B	B08_06_B	20	RUSSELL ST	Lead	Lead	PEX	Copper	2019-08-07	2019-08-07	No		ND	2019-08-09	2019-08-18														
5038516	B07_05_A	B07_05_A	6345	WALDRON ST	Lead	Lead	PEX	Copper	2019-08-07	2019-08-07	No		1.93	2019-08-08	2019-08-18														
5072536	B08_06_B	B08_06_B	311	W BURGESS ST	Lead	Copper																							

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5	
5038499	B07_05_A	B07_05_A	2265	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		8.23	2019-08-13	2019-08-26													
5033396	B04_09_B	B04_09_B	7233	IDLEWILD ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		19	2019-08-14	2019-08-26	ND	2020-01-28	2020-02-03										
5058298	B05_02_A	B05_02_A	126	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		1.04	2019-08-15	2019-09-03													
5073071	CEP	CEP	2104	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		15.3	2019-08-14	2019-08-26													
5058641	B05_02_A	B05_02_A	24	NATCHEZ ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		14	2019-08-14	2019-08-26													
5033073	B04_09_B	B04_09_B	7113	RACE ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		19.3	2019-08-19	2019-08-26	ND	2019-11-17	2019-11-26										
5016421	CEP	CEP	248	FSK ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		6.18	2019-08-14	2019-08-26													
5058596	B05_02_A	B05_02_A	26	NATCHEZ ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		1.06	2019-08-15	2019-08-26													
5072502	B08_06_B	B08_06_B	527	W BURGESS ST	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		1.54	2019-08-14	2019-08-26													
5038970	B07_05_A	B07_05_A	2301-2303	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-13	2019-08-13	No		3.39	2019-08-14	2019-08-26	98.8	2019-08-15	2019-08-26	ND	2019-09-14	2019-09-24							
5042740	B07_05_A	B07_05_A	2563	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-08-14	2019-08-14	No		1.53	2019-08-16	2019-08-26													
5033527	B04_09_B	B04_09_B	7401	IDLEWILD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-14	2019-08-14	No		ND	2020-04-23	2020-05-04													
5058332	B05_02_A	B05_02_A	121-122	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-14	2019-08-14	No		2.77	2019-08-14	2019-09-03	2.8	2019-08-23	2019-09-03										
5072561	B08_06_B	B08_06_B	304	ELSDON ST	Lead	Lead	PEX	Copper	2019-08-14	2019-08-14	No		1.93	2019-09-16	2019-09-24													
5033387	B04_09_B	B04_09_B	7315	IDLEWILD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-14	2019-08-14	No		ND	2019-08-15	2019-09-03													
5033340	B04_09_B	B04_09_B	7305	RACE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-14	2019-08-14	No		5.16	2019-08-19	2019-09-03													
5071183	B08_06_B	B08_06_B	525	CHAUTAUQUA ST	Lead	Lead	PEX	Copper	2019-08-14	2019-08-14	No		3.15	2019-08-15	2019-08-26													
5072554	B08_06_B	B08_06_B	321	ELSDON ST	Lead	Copper	PEX	Not Replaced	2019-08-14		No		ND	2019-08-15	2019-09-03													
5072476	B08_06_B	B08_06_B	7	RUSSELL ST	Lead	Lead	PEX	Copper	2019-08-14	2019-08-14	No		51	2019-08-14	2019-09-03													
5008766	Herron Ave Relay	Herron Ave Relay	1034	HERRON AVE	Copper	Lead	PEX	Copper	2019-08-14	2019-08-14	No		5.57	2019-08-15	2019-09-03													
5038975	B07_05_A	B07_05_A	2315	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-14	2019-08-15	No		ND	2019-08-16	2019-08-26													
5058264	B05_02_A	B05_02_A	206	MAPLE TER	Lead	Copper	PEX	Not Replaced	2019-08-14		No		7.82	2019-08-14	2019-08-26													
5038984	B07_05_A	B07_05_A	6427	NICHOLSON ST	Lead	Lead	PEX	Copper	2019-08-15	2019-08-15	No		ND	2020-01-07	2020-01-22													
5038976	B07_05_A	B07_05_A	2317	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-15	2019-08-15	No		2.8	2019-08-16	2019-08-26													
5058325	B05_02_A	B05_02_A	111	MAPLE TER	Lead	Lead	PEX	Copper	2019-08-15	2019-08-15	No		2.03	2020-05-19	2020-05-27													
5012681	Urgent Water	Urgent Water	423	ELLA ST	Copper	Lead	PEX	Copper	2019-08-15	2019-08-15	No	Emergency	170	2019-09-06	2019-09-20	20.8	2020-01-31	2020-02-11	4.81	2020-04-03	2020-04-13							
5072498	B08_06_B	B08_06_B	418	CHAUTAUQUA ST	Lead	Copper	PEX	Not Replaced	2019-08-16		No		5.92	2019-08-17	2019-08-26													
5072497	B08_06_B	B08_06_B	416	CHAUTAUQUA ST	Lead	Lead	PEX	Copper	2019-08-16	2019-08-16	No		1.6	2019-08-19	2019-09-03													
5039305	B07_05_A	B07_05_A	6433	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-16	2019-08-16	No		4.39	2019-08-17	2019-08-26													
5045845	CEP	CEP	14	AUGUSTINE ST	Lead	Lead	PEX	Copper	2019-08-16	2019-08-16	No		3.67	2019-08-22	2019-09-09													
5038495	B07_05_A	B07_05_A	2277	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-19	2019-08-19	No		ND	2019-09-09	2019-09-24													
5039308	B07_05_A	B07_05_A	6443	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-19	2019-08-19	No		1.59	2019-10-30	2019-11-04	1.46	2019-11-07	2019-11-18										
5071290	B08_06_B	B08_06_B	1965	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-08-19		No		ND	2019-08-20	2019-09-03													
5061230	B05_02_A	B05_02_A	535	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-08-19		No		2.38	2019-08-20	2019-09-03													
5020734	Ops	Urgent LSLR	5565	CAMELIA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-20	2019-08-27	No	Emergency	1.09	2019-08-29	2019-09-16													
5032325	B04_09_B	B04_09_B	7045	KELLY ST	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		3.92	2019-10-09	2019-10-15													
5038974	B07_05_A	B07_05_A	2313	TILBURY AVE	Lead	Copper	PEX	Not Replaced	2019-08-20		No		ND	2019-08-21	2019-09-03													
5058278	B05_02_A	B05_02_A	231	W SYCAMORE ST	Lead	Copper	PEX	Not Replaced	2019-08-20		No		ND	2019-08-22	2019-09-09													
5039306	B07_05_A	B07_05_A	6437	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		4.09	2019-09-14	2019-09-24													
5061164	B05_02_A	B05_02_A	258	SOUTHERN AVE	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		ND	2019-08-30	2019-09-30													
5038986	B07_05_A	B07_05_A	6435	NICHOLSON ST	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		3.79	2019-08-21	2019-09-03													
5038985	B07_05_A	B07_05_A	6433	NICHOLSON ST	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		1.45	2019-08-21	2019-09-03													
5071262	B08_06_B	B08_06_B	232	LANGLEY AVE	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		1.27	2019-08-20	2019-09-03													
5033721	B04_09_B	B04_09_B	7235	FORMOSA WAY	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-20	2019-08-20	No		6.82	2019-08-20	2019-09-16													
5033722	B04_09_B	B04_09_B	7237	FORMOSA WAY	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-20	2019-08-20	No		ND	2019-08-20	2019-09-09													
5071289	B08_06_B	B08_06_B	1961	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-08-20		No		ND	2019-09-16	2019-09-24													
5052299	CEP	CEP	2300	ECCLES ST	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		ND	2019-08-21	2019-09-03													
5071295	B08_06_B	B08_06_B	528	MCCLINTOCK AVE	Lead	Lead	PEX	Copper	2019-08-20	2019-08-21	No		1.31	2019-08-22	2019-09-03													
5034807	Ops		232	GLADSTONE RD	Lead	PEX	PEX	Not Replaced	2019-08-20		No	Emergency	1.31	2019-08-26	2019-09-03													
5061231	B05_02_A	B05_02_A	533	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-08-20		No		1.1	2019-08-21	2019-09-16													
5051332	Ops		2712	SARAH ST	Lead	Copper	PEX	Not Replaced	2019-08-21		No	Emergency	42.1	2019-08-24	2019-09-03	ND	2020-03-16	2020-03-30										
5039299	B07_05_A	B07_05_A	6404-6406	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-21	2019-08-21	No		3.81	2019-08-21	2019-09-03	ND	2019-09-30	2019-10-08										
5032320	B04_09_B	B04_09_B	7035	KELLY ST REAR	Lead	Copper	PEX	Not Replaced	2019-08-21		No		ND	2019-08-23	2019-09-16													
5071263	B08_06_B	B08_06_B	236	LANGLEY AVE	Lead	Lead	PEX	Copper	2019-08-21	2019-08-21	No		ND	2019-08-23	2019-09-03													
5038981	B07_05_A	B07_05_A	6417	NICHOLSON ST	Lead	Lead	PEX	Copper	2019-08-21	2019-08-21	No		1.21	2019-08-21	2019-09-03													
5033887	B04_09_B	B04_09_B	7366	HAMILTON AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-21	2019-08-21	No		ND	2019-08-22	2019-09-03													
5061369	B05_02_A	B05_02_A	245	PAUL ST																								

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5025253	Ops	Urgent LSLR	1142	PORTLAND ST	Lead	Lead	PEX	Copper	2019-08-27	2019-08-31	No	Emergency	ND	2019-11-24	2019-12-31												
5069824	B08_06_B	B08_06_B	35	OVERLOOK ST	Lead	Copper	PEX	Not Replaced	2019-08-27		No		26.7	2019-09-04	2019-09-16												
5061360	B05_02_A	B05_02_A	240	PAUL ST	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		3.73	2019-09-16	2019-09-24												
5070011	B08_06_B	B08_06_B	543	NORMAN ST	Lead	Copper	PEX	Not Replaced	2019-08-27		No		ND	2019-08-28	2019-09-16												
5034057	B04_09_B	B04_09_B	7336	KELLY ST	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		23.2	2019-08-27	2019-09-16												
5033888	B04_09_B	B04_09_B	7368	HAMILTON AVE	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		ND	2019-08-29	2019-09-24												
5039021	B07_05_A	B07_05_A	6344	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		3.78	2019-10-20	2019-11-04												
5071216	B08_06_B	B08_06_B	2130	HOLYOKE ST	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		87.7	2019-09-05	2019-09-24												
5061460	B05_02_A	B05_02_A	286	PAUL ST	Lead	Copper	PEX	Not Replaced	2019-08-27		No		11.8	2019-08-29	2019-09-24												
5038999	B07_05_A	B07_05_A	2323	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		ND	2019-08-28	2019-09-09												
5032877	B04_09_B	B04_09_B	7209	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-08-27	2019-08-27	No		3.93	2019-08-28	2019-09-09												
5039010	B07_05_A	B07_05_A	2359	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		ND	2019-09-17	2019-09-30												
5061453	B05_02_A	B05_02_A	43	PAUL ST	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		4.62	2019-08-31	2019-09-09												
5038832	B07_05_A	B07_05_A	6314	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		3.94	2019-08-29	2019-09-16												
5059437	B05_02_A	B05_02_A	155	SOUTHERN AVE	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		3.54	2019-08-30	2019-09-09												
5072285	B08_06_B	B08_06_B	104	W BURGESS ST	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		4.85	2019-09-28	2019-10-08												
5045848	CEP	CEP	4116	BRISTOL ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-28	2019-08-28	No		1.88	2019-09-04	2019-09-24												
5072332	B08_06_B	B08_06_B	2403	OSGOOD ST	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		32.1	2019-08-29	2019-09-09												
5069982	B08_06_B	B08_06_B	7	OVERLOOK ST	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		25.8	2019-08-29	2019-09-09	ND	2020-02-10	2020-02-17									
5038996	B07_05_A	B07_05_A	6420-6422	NICHOLSON ST	Lead	Copper	PEX	Not Replaced	2019-08-28		No		1.18	2019-08-29	2019-09-24												
5038831	B07_05_A	B07_05_A	6316	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		1.48	2019-08-29	2019-09-09												
5033334	B04_09_B	B04_09_B	7317	RACE ST	Lead	Copper	PEX	Not Replaced	2019-08-28		No		31.2	2019-08-29	2019-09-09												
5007297	CEP	CEP	706	ANAHEIM ST	Lead	Lead	PEX	Copper	2019-08-28	2019-08-28	No		12.2	2019-10-17	2019-10-29												
5061366	B05_02_A	B05_02_A	260	PAUL ST	Lead	Copper	PEX	Not Replaced	2019-08-28		No		ND	2019-09-21	2019-09-30												
5038830	B07_05_A	B07_05_A	6318	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-29	2019-08-29	No		10.2	2020-08-19	2020-08-31												
5039232	B07_05_A	B07_05_A	6355	ALDERSON ST	Lead	Lead	PEX	Copper	2019-08-29	2019-08-29	No		4.68	2019-08-31	2019-09-09												
5033151	B04_09_B	B04_09_B	7210	IDLEWILD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-29	2019-08-29	No		2.1	2019-09-01	2019-09-16												
5070018	B08_06_B	B08_06_B	1927	BUENA VISTA ST	Lead	Lead	PEX	Copper	2019-08-29	2019-08-29	No		4.16	2019-08-30	2019-09-09												
5039304	B07_05_A	B07_05_A	6425	FORWARD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-29	2019-08-29	No		ND	2021-02-24	2021-03-03												
5059627	B05_02_A	B05_02_A	240	SMITH WAY	Lead	Lead	PEX	Copper	2019-08-29	2019-08-29	No		6.28	2019-09-02	2019-09-09												
5039235	B07_05_A	B07_05_A	6349	ALDERSON ST	Lead	Lead	PEX	Copper	2019-08-29	2019-08-29	No		4.44	2019-09-09	2019-09-24												
5122391	CEP	CEP	227	SAMPLE STREET	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-08-29	2019-08-29	No		ND	2019-10-25	2019-11-04												
5039040	B07_05_A	B07_05_A	2322	TILBURY AVE	Lead	Lead	PEX	Copper	2019-08-29	2019-08-29	No		2.99	2019-08-30	2019-09-09												
5057717	CEP	CEP	139	HABERMAN AVE	Lead	Lead	PEX	Copper	2019-08-30	2019-08-30	No		22	2019-08-31	2019-10-29	ND	2020-02-11	2020-02-17									
5061227	B05_02_A	B05_02_A	519	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-09-03		No		1.31	2019-09-16	2019-09-24												
5061232	B05_02_A	B05_02_A	531	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-09-03		No		1.03	2019-09-10	2019-09-24												
5072510	B08_06_B	B08_06_B	2219	HOLYOKE ST	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		2.44	2019-09-06	2019-09-24												
5122669	CEP	CEP	918	HANSEN STREET	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		3.67	2019-09-04	2019-09-09												
5039238	B07_05_A	B07_05_A	6354	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		9.98	2019-09-04	2019-09-16												
5033041	B04_09_B	B04_09_B	7134	MONTECELLO ST	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		14.9	2019-09-04	2019-09-16	ND	2020-02-10	2020-02-17									
5039031	B07_05_A	B07_05_A	2346	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		30.4	2019-09-04	2019-09-16	ND	2020-02-23	2020-03-02									
5061224	B05_02_A	B05_02_A	281	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-09-03		No		1.14	2019-09-04	2019-09-09												
5061234	B05_02_A	B05_02_A	255	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-09-03		No		25.5	2019-09-05	2019-09-16												
5039332	B07_05_A	B07_05_A	4021	LUDWICK ST	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		24.6	2019-09-06	2019-10-08												
5058424	B05_02_A	B05_02_A	350	GRACE ST	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		1.64	2019-09-06	2019-09-24												
5039032	B07_05_A	B07_05_A	2344	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		ND	2019-09-05	2019-09-24												
5039330	B07_05_A	B07_05_A	4015	LUDWICK ST	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		14.3	2019-09-05	2019-09-16												
5039177	B07_05_A	B07_05_A	6309	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		1.34	2019-09-05	2019-09-24												
5039009	B07_05_A	B07_05_A	2357	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		3.67	2019-10-08	2019-10-21												
5030604	B04_09_A	B04_09_A	6723	FRANKSTOWN AVE	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		3.26	2019-09-30	2019-10-08												
5070019	B08_06_B	B08_06_B	610	ROLLA ST	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		ND	2019-10-13	2019-10-21												
5039215	B07_05_A	B07_05_A	6337	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-04	2019-09-04	No		4.4	2019-10-22	2019-10-29												
5038828	B07_05_A	B07_05_A	6322	FORWARD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-09-05	2019-09-05	No		2.92	2019-09-06	2019-09-24												
5058970	B05_02_A	B05_02_A	132	SOUTHERN AVE	Lead	Lead	PEX	Copper	2019-09-05	2019-09-05	No		1.26	2019-09-05	2019-09-24												
5059057	B05_02_A	B05_02_A	46	GREENBUSH ST	Lead	Lead	PEX	Copper	2019-09-05	2019-09-05	No		ND	2019-11-01	2019-11-11												
5038826	B07_05_A	B07_05_A	6326	FORWARD AVE	Lead	Lead	PEX	Copper	2019-09-05	2019-09-05	No		6.83	2019-09-06	2019-09-24												
5039033	B07_05_A	B07_05_A	2336	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-05	2019-09-05	No		12	2019-11-17	2019-12-03												
5069927	B08_06_B	B08_06_B	1604	BRIGHTON PL	Lead	Lead	PEX	Copper	2019-09-05	2019-09-05	No		ND	2019-09-05	2019-09-24												

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5	
5065361	B08_06_B	B08_06_B	1211	ISLAND AVE	Lead	Lead	PEX	Copper	2019-09-11	2019-09-11	No		12.8	2019-09-12	2019-09-24	ND	2020-02-06	2020-02-17										
5061411	B05_02_A	B05_02_A	219	ALBERT ST	Lead	Lead	PEX	Copper	2019-09-11	2019-09-11	No		3.34	2019-09-16	2019-10-08													
5059072	B05_02_A	B05_02_A	80	GREENBUSH ST REAR	Lead	Lead	PEX	Copper	2019-09-11	2019-09-11	No		8.1	2019-09-24	2019-09-30													
5039325	B07_05_A	B07_05_A	6210	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		29.6	2019-09-13	2019-09-24													
5038937	B07_05_A	B07_05_A	2328	SHADY AVE	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		3.92	2019-09-19	2019-09-30													
5039226	B07_05_A	B07_05_A	6377-6379	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		5.96	2019-09-13	2019-09-24													
5039035	B07_05_A	B07_05_A	2332	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		6.21	2019-09-13	2019-09-24													
5070521	B08_06_B	B08_06_B	1724	BRIGHTON RD	Lead	Copper	PEX	Not Replaced	2019-09-12		No		1.28	2019-09-13	2019-09-24													
5061399	B05_02_A	B05_02_A	249	ALBERT ST	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		3.24	2019-11-20	2019-11-26													
5072126	B08_06_B	B08_06_B	2644	N CHARLES ST	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		4.47	2019-09-12	2019-09-24													
5039333	B07_05_A	B07_05_A	4025	LUDWICK ST	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		5.27	2019-09-29	2019-10-08													
5039249	B07_05_A	B07_05_A	6399	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-12	2019-09-13	No		5.06	2019-09-15	2019-09-24													
5008753	Herron Ave Relay	Herron Ave Relay	958	HERRON AVE	Copper	Lead	PEX	Copper	2019-09-12	2019-09-12	No		1.05	2019-09-14	2019-09-24	ND	2019-09-15	2019-09-24										
5065353	B08_06_B	B08_06_B	1125	ISLAND AVE	Lead	Lead	PEX	Copper	2019-09-12	2019-09-12	No		1.2	2019-09-14	2019-09-24													
5061112	B05_02_A	B05_02_A	622	CHESS ST	Lead	PEX	PEX	Not Replaced	2019-09-12		No		ND	2019-11-05	2019-11-11													
5039209	B07_05_A	B07_05_A	6319	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-13	2019-09-13	No		3.62	2019-11-05	2019-11-18													
5039297	B07_05_A	B07_05_A	2609	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-13	2019-09-13	No		1.13	2019-09-13	2019-09-24													
5061407	B05_02_A	B05_02_A	28	ALBERT ST	Lead	Lead	PEX	Copper	2019-09-13	2019-09-13	No		ND	2019-09-16	2019-09-24													
5039296	B07_05_A	B07_05_A	2611	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-13	2019-09-13	No		ND	2019-09-15	2019-09-24													
5061392	B05_02_A	B05_02_A	232	ALBERT ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-09-13	2019-09-13	No		2.5	2019-09-17	2019-09-24													
5022457	Ops	Urgent LSLR	5333	CARNEGIE ST	Lead	Lead	PEX	Copper	2019-09-16	2019-10-21	No	Emergency	ND	2019-10-24	2019-10-29													
5061406	B05_02_A	B05_02_A	231	ALBERT ST	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		3.24	2019-09-19	2019-09-30													
5039190	B07_05_A	B07_05_A	6357	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		2.09	2019-09-20	2019-09-30													
5038443	B07_05_A	B07_05_A	2282	SHADY AVE	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		2.57	2019-09-16	2019-09-24													
5039240	B07_05_A	B07_05_A	6360	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		27	2019-12-01	2020-01-07													
5039179	B07_05_A	B07_05_A	6319	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		5.31	2019-09-18	2019-09-30													
5059118	B05_02_A	B05_02_A	15	GREENBUSH ST	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		1.53	2019-09-17	2019-09-24													
5080246	CEP	CEP	3967	MCCLURE AVE	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		17.3	2019-09-17	2019-09-24	3.56	2020-02-12	2020-02-24										
5039293	B07_05_A	B07_05_A	2619	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		4.91	2019-09-17	2019-09-24													
5061402	B05_02_A	B05_02_A	243	ALBERT ST	Lead	Lead	PEX	Copper	2019-09-16	2019-09-16	No		1.45	2019-09-20	2019-09-30													
5039294	B07_05_A	B07_05_A	2617	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-17	2019-09-17	No		ND	2019-09-20	2019-09-30													
5039253	B07_05_A	B07_05_A	6373	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-17	2019-09-17	No		2.72	2019-09-23	2019-09-30													
5054136	Fox Way Water Relay	Fox Way Water Relay	1908	FOX WAY	Lead	Lead	PEX	Copper	2019-09-17	2019-09-17	No		1.24	2019-11-23	2019-12-03													
5039292	B07_05_A	B07_05_A	2621	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-17	2019-09-17	No		ND	2019-09-24	2019-10-08													
5038441	B07_05_A	B07_05_A	2276	SHADY AVE	Lead	Lead	PEX	Copper	2019-09-17	2019-09-17	No		2.18	2019-09-18	2019-09-30													
5065357	B08_06_B	B08_06_B	1203	ISLAND AVE	Lead	Lead	PEX	Copper	2019-09-17	2019-09-17	No		1.98	2019-11-09	2019-11-18													
5061387	B05_02_A	B05_02_A	218	ALBERT ST	Lead	Copper	PEX	Not Replaced	2019-09-17		No		ND	2019-09-19	2019-09-30													
5041048	CEP	CEP	525	GETTYSBURG ST	Lead	Lead	PEX	Copper	2019-09-17	2019-09-23	No		1.12	2019-11-10	2019-11-18													
5039520	B07_05_A	B07_05_A	6244	MONITOR ST	Lead	Copper	PEX	Not Replaced	2019-09-18		No		1.84	2019-09-19	2019-09-30													
5039283	B07_05_A	B07_05_A	2760	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		ND	2019-09-19	2019-09-30													
5039210	B07_05_A	B07_05_A	6321	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		5.38	2019-09-19	2019-09-30													
5039519	B07_05_A	B07_05_A	6240	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		6.79	2019-09-26	2019-10-08													
5054124	Fox Way Water Relay	Fox Way Water Relay	1907	FOX WAY	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		1.35	2019-09-19	2019-09-30													
5039186	B07_05_A	B07_05_A	6343	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-18	2019-09-20	No		6.38	2019-11-05	2019-11-11													
5004439	CEP	CEP	509	CATO ST	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		9.95	2019-09-19	2019-09-30													
5059082	B05_02_A	B05_02_A	329	SOUTHERN AVE	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		13	2019-09-18	2019-09-30	ND	2020-04-16	2020-04-27										
5069886	B08_06_B	B08_06_B	824	CALIFORNIA AVE	Lead	Lead	PEX	Copper	2019-09-18	2019-09-18	No		1.9	2019-09-20	2019-09-30													
5029779	Ops	Urgent LSLR	6515	SHETLAND AVE	Lead	Lead	PEX	Copper	2019-09-19	2019-09-25	No	Emergency	ND	2019-10-01	2019-10-08													
5061395	B05_02_A	B05_02_A	242	ALBERT ST	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		21.1	2019-09-20	2019-09-30	ND	2020-02-01	2020-02-17										
5059076	B05_02_A	B05_02_A	97	SOUTHERN AVE	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		2.81	2019-09-20	2019-09-30													
5064358	B08_06_B	B08_06_B	1239	SUCCESS ST	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		1.07	2019-09-24	2019-09-30													
5038436	B07_05_A	B07_05_A	2260	SHADY AVE	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		2.78	2019-09-20	2019-09-30													
5069866	B08_06_B	B08_06_B	855	KIRKBRIDE ST	Lead	Copper	PEX	Not Replaced	2019-09-19		No		3.42	2019-10-01	2019-10-08													
5039255	B07_05_A	B07_05_A	6367	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		1.86	2019-09-24	2019-10-08													
5064359	B08_06_B	B08_06_B	1237	SUCCESS ST	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		ND	2019-09-23	2019-09-30													
5039284	B07_05_A	B07_05_A	2709	TILBURY AVE	Lead	Lead	PEX	Copper	2019-09-19	2019-09-19	No		ND	2019-09-20	2019-09-30													
5061398	B05_02_A	B05_02_A	48	ALBERT ST	Lead	Copper	PEX	Not Replaced	2019-09-19		No		ND	2019-09-20	2019-0													

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5039173	B07_05_A	B07_05_A	6318	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-10-09	2019-10-09	No		8.45	2019-10-12	2019-10-21												
5019872	CEP_02	CEP_02	5231	NATRONA WAY	Lead	Lead	PEX	Copper	2019-10-09	2019-10-09	No		5.33	2019-10-10	2019-10-21												
5071909	B02_01_B	B02_01_B	221	LURAY ST	Lead	Lead	PEX	Copper	2019-10-09	2019-10-09	No		ND	2019-10-12	2019-10-21												
5071907	B02_01_B	B02_01_B	217	LURAY ST	Lead	Lead	PEX	Copper	2019-10-09	2019-10-09	No		1.16	2019-10-10	2019-10-21												
5039540	B07_05_A	B07_05_A	2763	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-09	2019-10-09	No		9.55	2019-10-10	2019-10-29												
5071640	B08_06_B	B08_06_B	447	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-10-09	2019-10-09	No		1.87	2019-10-12	2019-10-21												
5038470	B07_05_A	B07_05_A	2269	SHADY AVE	Lead	Lead	PEX	Copper	2019-10-10	2019-10-10	No		1.58	2019-11-05	2019-11-11												
5073445	B02_01_B	B02_01_B	149	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-10	2019-10-10	No		ND	2019-10-28	2019-11-04												
5039281	B07_05_A	B07_05_A	2750	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-10	2019-10-10	No		ND	2019-10-11	2019-10-21												
5050516	Fox Way Water Relay	Fox Way Water Relay	2130	FOX WAY	Lead	Copper	PEX	Not Replaced	2019-10-10	2019-10-10	No		1.74	2019-12-31	2020-01-29												
5046849	B07_05_B	B07_05_B	706	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-10	2019-10-10	No		3.46	2019-10-22	2019-11-04												
5039822	B07_05_A	B07_05_A	6439	LANDVIEW RD	Lead	Lead	PEX	Copper	2019-10-10	2019-10-15	No		ND	2019-10-17	2019-10-29												
5040038	B07_05_A	B07_05_A	4321	LUDWICK ST	Lead	Lead	PEX	Copper	2019-10-10	2019-10-10	No		1.59	2019-10-13	2019-10-21												
5059474	B05_02_A	B05_02_A	407	GRIFFIN ST	Lead	Lead	PEX	Copper	2019-10-10	2019-10-10	No		9.58	2019-12-28	2020-01-08												
5039900	B07_05_A	B07_05_A	2887	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-10-10	2019-10-10	No		ND	2019-10-12	2019-10-21												
5043929	Ops	Urgent LSLR	554	S BRADDOCK AVE	Lead	Lead	PEX	Copper	2019-10-11	2019-10-18	No	Emergency	16.7	2019-10-19	2019-10-29												
5038437	B07_05_A	B07_05_A	2262	SHADY AVE	Lead	Lead	PEX	Copper	2019-10-11	2019-10-11	No		16.5	2019-10-12	2019-10-21												
5071941	B02_01_B	B02_01_B	2639	LINWOOD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-11	2019-10-11	No		19.5	2019-10-14	2019-10-21	4.58	2020-02-11	2020-02-17									
5039149	B07_05_A	B07_05_A	6341	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2019-10-11	2019-10-11	No		18.5	2019-10-17	2019-10-29	ND	2020-02-02	2020-02-24									
5050172	B07_05_B	B07_05_B	755	MONTCLAIR ST	Lead	Copper	PEX	Not Replaced	2019-10-11	2019-10-11	No		2.29	2019-10-13	2019-10-21												
5017329	CEP	CEP	4570	CARROLL ST	Lead	Lead	PEX	Copper	2019-10-11	2019-10-11	No		12.4	2019-10-15	2019-10-21												
5058180	B05_02_A	B05_02_A	116	KEARSARGE ST	Lead	Copper	PEX	Not Replaced	2019-10-11	2019-10-11	No		ND	2020-07-19	2020-07-28												
5038438	B07_05_A	B07_05_A	2264	SHADY AVE	Lead	Lead	PEX	Copper	2019-10-14	2019-10-14	No		21.6	2019-10-14	2019-10-21	2.41	2020-01-27	2020-02-03									
5040039	B07_05_A	B07_05_A	4323	LUDWICK ST	Lead	Lead	PEX	Copper	2019-10-14	2019-10-14	No		3.42	2019-10-15	2019-10-21												
5049865	B07_05_B	B07_05_B	777	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-14	2019-10-14	No		10.5	2019-10-16	2019-10-29												
5075351	B02_01_B	B02_01_B	214	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-14	2019-10-14	No		ND	2019-10-19	2019-10-29												
5073442	B02_01_B	B02_01_B	141	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-14	2019-10-14	No		1.93	2019-11-19	2019-11-26												
5039882	B07_05_A	B07_05_A	2877	BEECHWOOD BLVD	Lead	Lead	PEX	Not Replaced	2019-10-14	2019-10-14	Yes		ND	2020-02-09	2020-03-02												
5038466	B07_05_A	B07_05_A	2281	SHADY AVE	Lead	Lead	PEX	Copper	2019-10-15	2019-10-15	No		ND	2019-10-18	2019-11-04												
5073939	B02_01_B	B02_01_B	403	MARSHALL AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-15	2019-10-15	No		ND	2019-10-15	2019-11-11												
5049963	B07_05_B	B07_05_B	934	DEELY ST	Lead	Lead	PEX	Copper	2019-10-15	2019-10-15	No		4.55	2019-10-15	2019-11-04												
5075355	B02_01_B	B02_01_B	218	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-15	2019-10-15	No		10.2	2019-10-16	2019-10-29	54	2020-01-28	2020-02-03	23.1	2020-02-06	2020-02-17	1.42	2020-07-30	2020-08-10			
5039146	B07_05_A	B07_05_A	6331	BURCHFIELD AVE	Lead	Copper	PEX	Not Replaced	2019-10-15	2019-10-15	No		1.37	2019-10-17	2019-10-29												
5040036	B07_05_A	B07_05_A	4315	LUDWICK ST	Lead	Lead	PEX	Copper	2019-10-15	2019-10-15	No		11.9	2019-10-23	2019-11-04	8.95	2020-02-09	2020-02-17									
5049866	B07_05_B	B07_05_B	783	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-15	2019-10-15	No		1.35	2019-10-16	2019-10-21												
5058664	B05_02_A	B05_02_A	33	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2019-10-15	2019-10-15	No		ND	2019-10-19	2019-10-29												
5071902	B02_01_B	B02_01_B	2641	NORWOOD AVE	Lead	Copper	PEX	Not Replaced	2019-10-15	2019-10-15	No		1.4	2019-10-17	2019-10-29												
5058178	B05_02_A	B05_02_A	112	KEARSARGE ST	Lead	Copper	PEX	Not Replaced	2019-10-15	2019-10-15	No		ND	2019-10-25	2019-10-29												
5025599	Ops	Urgent LSLR	5398	STANTON AVE	Lead	Lead	PEX	Copper	2019-10-16	2019-10-23	No	Emergency	17.5	2019-10-23	2019-11-11	2.07	2020-02-01	2020-02-11									
5040032	B07_05_A	B07_05_A	4305	LUDWICK ST	Lead	Lead	PEX	Copper	2019-10-17	2019-10-17	No		ND	2019-10-17	2019-10-29												
5061328	B05_02_A	B05_02_A	213	JASPER ST	Lead	Lead	PEX	Copper	2019-10-17	2019-10-17	No		2.95	2019-10-30	2019-11-11												
5039013	B07_05_A	B07_05_A	2369	TILBURY AVE	Lead	Lead	PEX	Copper	2019-10-17	2019-10-17	No		ND	2019-10-21	2019-10-29												
5073347	B02_01_B	B02_01_B	420	HAWKINS AVE	Lead	Lead	PEX	Copper	2019-10-17	2019-10-17	No		33.5	2019-10-20	2019-10-29												
5073455	B02_01_B	B02_01_B	138	WATSON BLVD	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-17	2019-10-17	No		507	2019-10-17	2019-10-29	8.69	2020-01-21	2020-02-03									
5073446	B02_01_B	B02_01_B	151	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-17	2019-10-17	No		1.73	2019-10-17	2019-10-29												
5049985	B07_05_B	B07_05_B	975	DEELY ST	Lead	Lead	PEX	Copper	2019-10-17	2019-10-17	No		1.95	2019-10-18	2019-10-29												
5061325	B05_02_A	B05_02_A	209	JASPER ST	Lead	Copper	PEX	Not Replaced	2019-10-17	2019-10-17	No		6.64	2019-10-22	2019-11-11												
5073425	B02_01_B	B02_01_B	83	WATSON BLVD	Lead	Copper	PEX	Not Replaced	2019-10-17	2019-10-17	No		5.86	2019-10-19	2019-11-04												
5040170	B07_05_A	B07_05_A	3032	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-17	2019-10-18	No		1.92	2019-10-19	2019-10-29												
5039307	B07_05_A	B07_05_A	6441	FORWARD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-18	2019-10-18	No		1.91	2019-10-20	2019-10-29												
5040042	B07_05_A	B07_05_A	4329	LUDWICK ST	Lead	Lead	PEX	Copper	2019-10-18	2019-10-18	No		1.77	2019-10-19	2019-10-29												
5073543	B02_01_B	B02_01_B	16	WATSON BLVD	Lead	Copper	PEX	Not Replaced	2019-10-18	2019-10-18	No		2.14	2019-10-19	2019-10-29												
5060247	B05_02_B	B05_02_B	116	SHALER ST	Lead	Lead	PEX	Copper	2019-10-18	2019-10-18	No		1.21	2019-10-21	2019-11-04												
5040140	B07_05_A	B07_05_A	3077	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-18	2019-10-18	No		ND	2019-10-21	2019-10-29												
5039492	B07_05_A	B07_05_A	6376	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2019-10-18	2019-10-18	No		2.27	2019-10-19	2019-10-29												
5046830	B07_05_B	B07_05_B	651	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-18	2019-10-18	No		ND	2019-10-19	2019-10-29												
5004947	Ops	Urgent LSLR	3282	DAWSON ST	Lead	Lead	PEX	Copper	2019-10-19	2019-																	

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5061382	B05_02_A	B05_02_A	515	BOGGS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-06	2019-11-06	No		ND	2019-11-17	2020-01-10												
5073921	B02_01_B	B02_01_B	2724	DELGAR ST	Lead	Copper	PEX	Not Replaced	2019-11-06		No		3.37	2019-11-08	2019-11-18												
5073553	B02_01_B	B02_01_B	3208	ORLEANS ST	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	No		19.4	2019-11-06	2019-11-18	1.61	2020-02-10	2020-02-17									
5040017	B07_05_A	B07_05_A	4344	LUDWICK ST	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	No		126	2019-11-07	2019-11-18	5.08	2020-02-07	2020-02-17									
5073396	B02_01_B	B02_01_B	3337	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	No		42.7	2019-11-07	2019-11-18	ND	2020-04-17	2020-04-27									
5045611	B07_05_B	B07_05_B	841	DEELY ST	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	No		3.42	2019-11-09	2019-11-18												
5073811	B02_01_B	B02_01_B	316	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	No		2.48	2019-11-08	2019-11-18												
5039691	B07_05_A	B07_05_A	6418	LANDVIEW RD	Lead	Lead	PEX	Copper	2019-11-07	2019-11-07	No		45.7	2019-11-09	2019-11-18	ND	2020-02-17	2020-02-24									
5039129	B07_05_A	B07_05_A	2827	SHADY AVE	Lead	Lead	PEX	Copper	2019-11-07	2019-11-07	No		8.44	2019-11-07	2019-11-18												
5073424	B02_01_B	B02_01_B	3336	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-07	2019-11-07	No		11.5	2019-11-09	2019-11-18	ND	2020-02-09	2020-02-17									
5050359	B07_05_B	B07_05_B	3415	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-07	2019-11-07	No		2.64	2019-11-08	2019-11-18												
5045617	B07_05_B	B07_05_B	817	DEELY ST	Lead	Lead	PEX	Copper	2019-11-07	2019-11-07	No		6	2019-11-18	2019-12-31												
5060498	B05_02_B	B05_02_B	324	AUGUSTA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-07	2019-11-07	No		ND	2019-11-10	2019-11-26												
5046790	B07_05_B	B07_05_B	4319	TESLA ST	Lead	Copper	PEX	Not Replaced	2019-11-07		No		ND	2019-11-11	2019-11-26												
5046800	B07_05_B	B07_05_B	4303	TESLA ST	Lead	Lead	PEX	Copper	2019-11-08	2019-11-09	No		1.45	2019-11-14	2019-11-26												
5050105	B07_05_B	B07_05_B	3469	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-08	2019-11-09	No		2	2019-11-18	2019-12-31												
5073560	B02_01_B	B02_01_B	3232	ORLEANS ST	Lead	Lead	PEX	Copper	2019-11-08	2019-11-08	No		12.5	2019-11-11	2019-11-26	4.77	2020-03-02	2020-03-09									
5039130	B07_05_A	B07_05_A	2825	SHADY AVE	Lead	Lead	PEX	Copper	2019-11-08	2019-11-08	No		5.86	2019-11-10	2019-11-26												
5073874	B02_01_B	B02_01_B	315	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-11-08	2019-11-08	No		ND	2019-11-10	2019-11-18												
5039989	B07_05_B	B07_05_B	4265	SALINE ST	Lead	Copper	PEX	Not Replaced	2019-11-08		No		2.13	2019-11-12	2019-11-18												
5050164	B07_05_B	B07_05_B	4264	SALINE ST	Lead	Lead	PEX	Copper	2019-11-08	2019-11-09	No		6.26	2019-11-10	2019-12-03												
5060555	B05_02_B	B05_02_B	343	SWEETBRIAR ST	Lead	Copper	PEX	Not Replaced	2019-11-11		No		ND	2019-11-12	2019-11-18												
5050098	B07_05_B	B07_05_B	3487	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-11	2019-11-11	No		6.84	2019-11-15	2019-11-26												
5073394	B02_01_B	B02_01_B	3347	DELAWARE ST	Lead	Copper	PEX	Not Replaced	2019-11-11		No		ND	2019-11-12	2019-11-18												
5060839	B05_02_B	B05_02_B	425	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2019-11-11	2019-11-11	No		ND	2019-11-12	2019-11-26												
5051066	Wrights Way Water Relay	Wrights Way Water Relay	2423	WRIGHTS WAY	Lead	Copper	PEX	Not Replaced	2019-11-11		No		14.1	2019-11-11	2019-11-26												
5075327	B02_01_B	B02_01_B	153	WATSON BLVD	Lead	Copper	PEX	Not Replaced	2019-11-11		No		ND	2019-11-15	2019-11-26												
5073422	B02_01_B	B02_01_B	3354	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		ND	2019-11-15	2019-11-26												
5050154	B07_05_B	B07_05_B	4232	SALINE ST	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		1	2019-11-14	2019-12-31												
5060540	B05_02_B	B05_02_B	328	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		1.02	2019-11-24	2019-12-03												
5039143	B07_05_A	B07_05_A	6315	BURCHFIELD AVE	Lead	Copper	PEX	Copper	2019-11-12	2019-11-12	No		3.84	2019-11-15	2019-11-26												
5073903	B02_01_B	B02_01_B	2711	LELAND ST	Lead	Copper	PEX	Not Replaced	2019-11-12		No		2	2019-12-19	2020-01-10												
5073892	B02_01_B	B02_01_B	2710	LELAND ST	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		ND	2019-11-14	2019-11-26												
5016212	CEP_02	CEP_02	265	45TH ST	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		4.14	2019-11-14	2019-12-03												
5059121	B05_02_A	B05_02_A	72	WYOMING ST	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		2.6	2019-11-16	2019-11-26												
5059135	B05_02_A	B05_02_A	346	WYOMING ST AKA 9	Lead	Lead	PEX	Copper	2019-11-12	2019-11-12	No		2.4	2019-11-16	2019-11-26												
5038498	B07_05_A	B07_05_A	2267	TILBURY AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-13	2019-11-13	No		ND	2019-12-03	2020-01-10												
5046427	B07_05_B	B07_05_B	903	DEELY ST	Lead	Lead	PEX	Copper	2019-11-13	2019-11-13	No		1.77	2019-11-14	2019-11-26												
5073417	B02_01_B	B02_01_B	3270	ORLEANS ST	Lead	Lead	PEX	Copper	2019-11-13	2019-11-13	No		8.76	2019-11-22	2019-12-03												
5046426	B07_05_B	B07_05_B	901	DEELY ST	Lead	Lead	PEX	Copper	2019-11-13	2019-11-13	No		1.02	2020-03-16	2020-03-25												
5071848	B02_01_B	B02_01_B	2634	LELAND ST	Lead	Copper	PEX	Not Replaced	2019-11-13		No		4.11	2019-11-15	2019-11-26												
5039993	B07_05_B	B07_05_B	4311	SALINE ST	Lead	Lead	PEX	Copper	2019-11-13	2019-11-13	No		ND	2019-11-16	2019-11-26												
5073652	B02_01_B	B02_01_B	215	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-11-13	2019-11-13	No		ND	2019-11-15	2019-11-26												
5059133	B05_02_A	B05_02_A	350	WYOMING ST	Lead	Lead	PEX	Copper	2019-11-13	2019-11-12	No		6.42	2019-11-14	2019-11-26												
5060834	B05_02_B	B05_02_B	415	SWEETBRIAR ST	Lead	Copper	PEX	Not Replaced	2019-11-13		No		1.06	2019-11-15	2019-11-26												
5046788	B07_05_B	B07_05_B	4325	TESLA ST	Lead	Lead	PEX	Copper	2019-11-13	2019-11-13	No		ND	2019-11-15	2019-11-26												
5075316	B02_01_B	B02_01_B	3418	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-14	2019-11-14	No		5.93	2019-11-15	2019-11-26												
5039133	B07_05_A	B07_05_A	2811	SHADY AVE	Lead	Lead	PEX	Copper	2019-11-14	2019-11-14	No		1.06	2019-11-20	2019-12-03												
5007186	CEP_02	CEP_02	347	MELWOOD AVE	Lead	Lead	PEX	Copper	2019-11-14	2019-11-14	No		458	2019-11-15	2019-11-26												
5081298	CEP_02	CEP_02	1022	CORNELL ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-14	2019-11-14	No		46	2019-12-02	2020-01-08												
5039996	B07_05_B	B07_05_B	4321	SALINE ST	Lead	Lead	PEX	Copper	2019-11-14	2019-11-14	No		6.94	2019-11-16	2019-11-26												
5050117	B07_05_B	B07_05_B	3470	BEECHWOOD BLVD	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-15	2019-11-15	No		ND	2019-11-16	2019-11-26												
5039998	B07_05_B	B07_05_B	4331	SALINE ST	Lead	Lead	PEX	Copper	2019-11-15	2019-11-15	No		ND	2019-11-18	2019-11-26												
5075317	B02_01_B	B02_01_B	3424	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-15	2019-11-15	No		369	2019-11-20	2019-12-03	1.53	2020-06-19	2020-06-29									
5059192	B05_02_A	B05_02_A	77	WYOMING ST	Lead	Lead	PEX	Copper	2019-11-15	2019-11-15	No		1.35	2019-11-20	2019-11-26												
5059191	B05_02_A	B05_02_A	79	WYOMING ST	Lead	Lead	PEX	Copper	2019-11-15	2019-11-15	No		ND	2019-11-18	2019-11-26												
5046412	B07_05_B	B07_05_B	905	NORFOLK ST	Lead	Lead	PEX	Copper	2019-11-15	2019-11-15	No		15	2019-11-19	2019-11-26	ND	2020-02-27	2020-03-02									
5072061	B02_01_B	B02_01_B	2639	ELLIS ST	Lead	Copper	PEX	Not Replaced	2019-11-15		No		711	2019-11-15	2019-11-26	ND	2020-02-14	2020-02-24									
5046792	B07_05_B	B07_05_B	4323	TESLA ST																							

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5075321	B02_01_B	B02_01_B	3440	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		2.52	2020-01-23	2020-02-03												
5050115	B07_05_B	B07_05_B	3464	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-21	2019-11-21	No		ND	2019-11-22	2019-12-03												
5045737	B07_05_B	B07_05_B	901	LILAC ST	Lead	Lead	PEX	Copper	2019-11-21	2019-11-21	No		2.06	2020-09-07	2020-09-21												
5039153	B07_05_A	B07_05_A	6359	BURCHFIELD AVE	Lead	Copper	PEX	Not Replaced	2019-11-21		No		53.1	2019-11-22	2019-12-03												
5046313	B07_05_B	B07_05_B	4133	BEHNER RD	Lead	Lead	PEX	Copper	2019-11-21	2019-11-21	No		6.7	2019-11-22	2019-12-03												
5075326	B02_01_B	B02_01_B	3462	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-21	2019-11-21	No		ND	2019-11-22	2019-12-03												
5060296	B05_02_B	B05_02_B	207	EDITH ST	Lead	Lead	PEX	Copper	2019-11-21	2019-11-21	No		ND	2019-11-25	2019-12-03												
5060556	B05_02_B	B05_02_B	339	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2019-11-21	2019-11-21	No		ND	2019-11-24	2019-12-31												
5075325	B02_01_B	B02_01_B	3456	DELAWARE ST	Lead	Lead	PEX	Copper	2019-11-22	2019-11-22	No		84.5	2019-11-23	2019-12-03	ND	2019-12-16	2020-01-13									
5060302	B05_02_B	B05_02_B	221	EDITH ST	Lead	Lead	PEX	Copper	2019-11-22	2019-11-22	No		5.24	2019-11-24	2019-12-03												
5060291	B05_02_B	B05_02_B	224	EDITH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-22	2019-11-22	No		5	2019-12-11	2020-01-07												
5060564	B05_02_B	B05_02_B	309	SWEETBRIAR ST	Lead	Copper	PEX	Not Replaced	2019-11-22		No		16	2019-11-30	2020-01-07												
5050220	B07_05_B	B07_05_B	4	EXETER ST	Lead	Lead	PEX	Copper	2019-11-22	2019-11-22	No		ND	2019-11-30	2020-01-10												
5050138	B07_05_B	B07_05_B	4146	SALINE ST	Lead	Lead	PEX	Copper	2019-11-22	2019-11-22	No		ND	2019-11-23	2019-12-03												
5063660	CEP_02	CEP_02	308	UVILLA ST	Lead	Copper	PEX	Not Replaced	2019-11-22		No		1.27	2019-11-26	2019-12-03												
5039135	B07_05_A	B07_05_A	6300	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-11-23	2019-11-23	No		7.09	2019-11-23	2019-12-03												
5039347	B07_05_B	B07_05_B	4021	SALINE ST	Lead	Lead	PEX	Copper	2019-11-23	2019-11-21	No		ND	2019-11-27	2020-01-14												
5050226	B07_05_B	B07_05_B	14	EXETER ST	Lead	Lead	PEX	Copper	2019-11-23	2019-11-23	No		4	2019-11-25	2020-01-14												
5046839	B07_05_B	B07_05_B	4302	FRANK ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-25	2019-11-25	No		ND	2019-11-28	2020-01-10												
5039346	B07_05_B	B07_05_B	4017	SALINE ST	Lead	Lead	PEX	Copper	2019-11-25	2019-11-25	No		2	2019-11-26	2020-01-14												
5061294	B05_02_A	B05_02_A	440	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2019-11-25		No		2	2019-11-28	2020-01-07												
5061293	B05_02_A	B05_02_A	438	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2019-11-25		No		ND	2019-11-27	2020-01-07												
5060536	B05_02_B	B05_02_B	316	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2019-11-25	2019-11-25	No		7.17	2019-11-26	2019-12-03												
5061415	B05_02_A	B05_02_A	443	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2019-11-25		No		1.39	2020-11-30	2020-12-08												
5050228	B07_05_B	B07_05_B	18	EXETER ST	Lead	Lead	PEX	Copper	2019-11-25	2019-11-25	No		ND	2019-12-26	2020-01-08												
5074105	B02_01_B	B02_01_B	235	KENNEDY AVE	Lead	Copper	PEX	Not Replaced	2019-11-25		No		ND	2019-11-27	2020-01-07												
5073407	B02_01_B	B02_01_B	3232	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-11-25	2019-11-25	No		347	2019-11-26	2019-12-03	4	2019-12-08	2020-01-10									
5049522	B07_05_B	B07_05_B	910	LILAC ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-26	2019-11-26	No		3	2019-12-04	2020-01-10												
5061405	B05_02_A	B05_02_A	233	ALBERT ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-26	2019-11-26	No		6	2019-12-05	2020-01-10												
5050146	B07_05_B	B07_05_B	4212	SALINE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-26	2019-11-26	No		ND	2019-11-28	2020-01-07												
5050126	B07_05_B	B07_05_B	3494	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-26	2019-11-26	No		3	2019-11-26	2020-01-07												
5073969	B02_01_B	B02_01_B	224	KENNEDY AVE	Lead	Copper	PEX	Not Replaced	2019-11-26		No		45	2019-12-01	2020-01-07												
5060294	B05_02_B	B05_02_B	201	EDITH ST	Lead	Lead	PEX	Copper	2019-11-26	2019-11-26	No		2	2019-12-05	2020-01-10												
5045727	B07_05_B	B07_05_B	846	LILAC ST	Lead	Lead	PEX	Copper	2019-11-26	2019-11-26	No		4	2019-11-27	2020-01-14												
5073519	B02_01_B	B02_01_B	3208	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-11-26		No		11	2019-11-27	2020-01-14	ND	2020-02-29	2020-03-09									
5060301	B05_02_B	B05_02_B	219	EDITH ST	Lead	Lead	PEX	Copper	2019-11-26	2019-11-26	No		11	2019-12-02	2020-01-07	ND	2020-02-27	2020-03-09									
5060300	B05_02_B	B05_02_B	215	EDITH ST	Lead	Copper	PEX	Not Replaced	2019-11-26		No		ND	2020-01-13	2020-01-29												
5050240	B07_05_B	B07_05_B	15	EXETER ST	Lead	Lead	PEX	Copper	2019-11-26	2019-11-26	No		18	2019-11-27	2020-01-08	ND	2020-04-30	2020-05-11									
5073743	B02_01_B	B02_01_B	323	MILROY ST	Lead	Copper	PEX	Not Replaced	2019-11-27		No		4	2019-11-29	2020-01-07												
5073670	B02_01_B	B02_01_B	3032	NORWOOD AVE	Lead	Copper	PEX	Not Replaced	2019-11-27		No		ND	2019-12-05	2020-01-07												
5050167	B07_05_B	B07_05_B	724	LORETTA ST	Lead	Copper	PEX	Not Replaced	2019-11-27		No		ND	2019-11-29	2020-01-07												
5060299	B05_02_B	B05_02_B	213	EDITH ST	Lead	Lead	PEX	Copper	2019-11-27	2019-11-27	No		15	2019-11-28	2020-01-07	ND	2020-02-28	2020-03-09									
5050273	B07_05_B	B07_05_B	733	HAZELWOOD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-27	2019-11-27	No		2	2019-11-29	2020-01-07												
5059534	B05_02_A	B05_02_A	229	BOGGS AVE	Lead	Lead	PEX	Copper	2019-11-27	2019-11-27	No		ND	2020-01-22	2020-01-29												
5049850	B07_05_B	B07_05_B	4112	SALINE ST	Lead	Copper	PEX	Not Replaced	2019-11-27		No		ND	2019-11-29	2020-01-07												
5050124	B07_05_B	B07_05_B	3490	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-27	2019-11-27	No		2	2019-11-29	2020-01-14												
5073503	B02_01_B	B02_01_B	3131	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-11-27		No		ND	2019-12-04	2020-01-10												
5060292	B05_02_B	B05_02_B	216	EDITH ST	Lead	Copper	PEX	Not Replaced	2019-11-27		No		2	2019-11-29	2020-01-07												
5060482	B05_02_B	B05_02_B	255	EDITH ST	Lead	Lead	PEX	Copper	2019-11-27	2019-11-27	No		ND	2020-01-23	2020-02-03												
5039349	B07_05_B	B07_05_B	4101	SALINE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-27	2019-11-27	No		ND	2019-11-28	2020-01-10												
5016584	CEP_02	CEP_02	261	42ND ST	Lead	Copper	PEX	Not Replaced	2019-11-27		No		ND	2019-11-30	2020-01-07												
5059454	B05_02_A	B05_02_A	306	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2019-11-27		No		ND	2019-12-01	2020-01-10												
5045736	B07_05_B	B07_05_B	905	LILAC ST	Lead	Lead	PEX	Copper	2019-11-29	2019-11-29	No		2	2019-12-23	2020-01-10												
5050125	B07_05_B	B07_05_B	3492	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-29	2019-11-29	No		9	2019-11-30	2020-01-07												
5049880	B07_05_B	B07_05_B	774	LORETTA ST	Lead	Lead	PEX	Copper	2019-11-29	2019-11-29	No		ND	2019-11-30	2020-01-07												
5050148	B07_05_B	B07_05_B	4218	SALINE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-29	2019-11-29	No		ND	2019-12-10	2020-01-10												
5049884	B07_05_B	B07_05_B	764	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-02	2019-12-02	No		8	2019-12-03	2020-01-10												
5073677	B02_01_B	B02_01_B	3000	NORWOOD AVE	Lead	Lead	PEX	Copper	2019-12-02	2019-12-02	No		56	2019-12-16	2020-01-10	ND	2020-01-22	2020-01-29									

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refcrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refcrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refcrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refcrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refcrom Lab5
5073769	B02_01_B	B02_01_B	23	E MARSHALL AVE	Lead	Lead	PEX	Copper	2020-01-09	2020-01-09	No		6.24	2020-01-12	2020-02-03												
5060488	B05_02_B	B05_02_B	240	AUGUSTA ST	Lead	Lead	PEX	Copper	2020-01-09	2020-01-09	No		ND	2020-02-27	2020-03-09												
5045716	B07_05_B	B07_05_B	818	LILAC ST	Lead	Copper	PEX	Not Replaced	2020-01-10		No		ND	2020-03-02	2020-03-09												
5050049	B07_05_B	B07_05_B	4221	WINDSOR ST	Lead	Lead	PEX	Copper	2020-01-10	2020-01-10	No		2.28	2020-01-10	2020-01-22												
5055509	B06_03_B	B06_03_B	1041	MOUNT OLIVER ST	Lead	Copper	PEX	Not Replaced	2020-01-10		No		ND	2020-03-02	2020-03-09												
5055406	B06_03_B	B06_03_B	1015	MOUNT OLIVER ST	Lead	Copper	PEX	Not Replaced	2020-01-10		No		ND	2020-01-11	2020-01-22												
5045043	B07_05_B	B07_05_B	847	FLEMINGTON ST	Lead	Lead Tailpiece	Copper	Copper Tailpiece	2020-01-10	2020-01-10	No		ND	2020-01-13	2020-02-03	ND	2020-02-04	2020-02-24									
5078493	B13_01_A	B13_01_A	3245	BAINTON ST	Lead	Copper	PEX	Not Replaced	2020-01-13		No		186	2020-01-14	2020-01-22	3.3	2020-03-05	2020-03-09									
5060207	B05_02_B	B05_02_B	240	SEWARD ST	Lead	Lead	PEX	Copper	2020-01-13	2020-01-13	No		1.08	2020-01-14	2020-01-22												
5077089	B13_01_A	B13_01_A	1521	SUPERIOR AVE	Lead	Copper	PEX	Not Replaced	2020-01-13		No		2.42	2020-01-16	2020-01-29												
5060584	B05_02_B	B05_02_B	209	PLYMOUTH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-13	2020-01-13	No		5.31	2020-01-13	2020-01-22												
5059688	B05_02_B	B05_02_B	411	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-13	2020-01-13	No		8.74	2020-01-20	2020-01-29												
5018788	CEP_02	CEP_02	4711	KINCAID ST	Lead	Lead	PEX	Copper	2020-01-13	2020-01-13	No		1.45	2020-01-17	2020-02-03												
5060201	B05_02_B	B05_02_B	258	SEWARD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-14	2020-01-14	No		4.45	2020-02-05	2020-02-17												
5055512	B06_03_B	B06_03_B	1047	MOUNT OLIVER ST	Lead	Lead	PEX	Copper	2020-01-14	2020-01-14	No		ND	2020-01-15	2020-01-29												
5059714	B05_02_B	B05_02_B	420	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-14	2020-01-14	No		4.14	2020-01-16	2020-01-29												
5050045	B07_05_B	B07_05_B	4207	WINDSOR ST	Lead	Lead	PEX	Copper	2020-01-14	2020-01-14	No		ND	2020-01-22	2020-02-03												
5055508	B06_03_B	B06_03_B	2730	S 18TH STREET EXT	Lead	Copper	PEX	Not Replaced	2020-01-14		No		ND	2020-01-14	2020-01-29												
5059697	B05_02_B	B05_02_B	455	ONEIDA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-14	2020-01-14	No		ND	2020-01-15	2020-01-22												
5060874	B05_02_B	B05_02_B	217	PLYMOUTH ST	Lead	Lead	PEX	Copper	2020-01-14	2020-01-14	No		8.57	2020-01-16	2020-01-29												
5076534	B13_01_A	B13_01_A	2919	SHADELAND AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-15	2020-01-15	No		ND	2020-01-16	2020-01-29												
5055510	B06_03_B	B06_03_B	2734	S 18TH STREET EXT	Lead	Lead	PEX	Copper	2020-01-15	2020-01-15	No		1.28	2020-01-16	2020-01-29	2.69	2020-01-16	2020-01-29									
5076492	B13_01_A	B13_01_A	3009	SHADELAND AVE	Lead	Lead	PEX	Copper	2020-01-15	2020-01-15	No		2.85	2020-01-23	2020-02-17												
5059696	B05_02_B	B05_02_B	445	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-15	2020-01-15	No		16	2020-01-16	2020-01-29	9.99	2020-06-24	2020-07-13									
5076195	B13_01_A	B13_01_A	1506	FORSYTHE ST	Lead	Copper	PEX	Not Replaced	2020-01-15		No		3.27	2020-01-17	2020-01-29												
5055023	B06_03_B	B06_03_B	1913	ST PAUL ST	Lead	Lead	PEX	Copper	2020-01-15	2020-01-17	No		9.15	2020-01-18	2020-01-29												
5060882	B05_02_B	B05_02_B	259	PLYMOUTH ST	Lead	Lead	PEX	Copper	2020-01-15	2020-01-15	No		ND	2020-01-25	2020-02-03												
5059695	B05_02_B	B05_02_B	443	ONEIDA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-15	2020-01-15	No		1.09	2020-01-27	2020-02-17												
5050380	B07_05_B	B07_05_B	4328	SALINE ST	Lead	Copper	PEX	Not Replaced	2020-01-16		No		ND	2020-02-29	2020-03-09												
5055505	B06_03_B	B06_03_B	1034	MOUNT OLIVER ST	Lead	Lead	PEX	Copper	2020-01-16	2020-01-16	No		ND	2020-01-23	2020-02-03												
5003733	B14_03_A	B14_03_A	336	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-16	2020-01-16	No		9.37	2020-01-17	2020-01-29												
5076932	B13_01_A	B13_01_A	2706	SHADELAND AVE	Lead	Copper	PEX	Not Replaced	2020-01-16		No		ND	2020-01-17	2020-01-29												
5060590	B05_02_B	B05_02_B	171	PLYMOUTH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-16	2020-01-16	No		ND	2020-03-09	2020-03-25												
5060405	B05_02_B	B05_02_B	321	SEWARD ST	Lead	Copper	PEX	Not Replaced	2020-01-16		No		ND	2020-01-21	2020-01-29												
5059709	B05_02_B	B05_02_B	438	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-16	2020-01-16	No		11.1	2020-01-16	2020-02-17	ND	2020-01-29	2020-02-03									
5054957	B06_03_B	B06_03_B	1942	S 18TH ST	Lead	Copper	PEX	Not Replaced	2020-01-17		No		6.22	2020-01-22	2020-01-29												
5078591	B13_01_A	B13_01_A	3147	LECKY AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-17	2020-01-17	No		ND	2020-03-07	2020-03-16												
5079432	B13_01_A	B13_01_A	3018	SHADELAND AVE	Lead	Lead	PEX	Copper	2020-01-17	2020-01-17	No		ND	2020-01-19	2020-01-29												
5055250	B06_03_B	B06_03_B	1116	E WARRINGTON AVE	Lead	Lead	PEX	Copper	2020-01-17	2020-01-17	No		ND	2020-01-20	2020-01-29												
5007455	CEP_02	CEP_02	808	ANAHEIM ST	Lead	Copper	PEX	Not Replaced	2020-01-17		No		ND	2020-01-22	2020-02-03												
5055357	B06_03_B	B06_03_B	2410	S 18TH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-20	2020-01-20	No		19.4	2020-01-24	2020-02-03												
5004572	B14_03_B	B14_03_B	3415	DAWSON ST	Lead	Lead	PEX	Copper	2020-01-20	2020-01-20	No		1.6	2020-01-20	2020-02-03	1.3	2020-01-21	2020-01-29									
5079438	B13_01_A	B13_01_A	3036	SHADELAND AVE	Lead	Lead	PEX	Copper	2020-01-20	2020-01-20	No		2.01	2020-01-22	2020-02-03												
5076485	B13_01_A	B13_01_A	1317	OAKHILL ST	Lead	Copper	PEX	Not Replaced	2020-01-20		No		1.69	2020-01-22	2020-01-29												
5076480	B13_01_A	B13_01_A	1331	OAKHILL ST	Lead	Copper	PEX	Not Replaced	2020-01-20		No		1.25	2020-01-21	2020-01-29												
5055356	B06_03_B	B06_03_B	166	SAINT PAUL ST	Lead	Copper	PEX	Not Replaced	2020-01-20		No		1.18	2020-01-22	2020-02-17												
5059698	B05_02_B	B05_02_B	457	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-20	2020-01-20	No		28.3	2020-01-21	2020-01-29	ND	2020-04-22	2020-05-04									
5078464	B13_01_A	B13_01_A	3222	MCCLURE AVE	Lead	Copper	PEX	Not Replaced	2020-01-20		No		2.42	2020-02-02	2020-02-11												
5059675	B05_02_B	B05_02_B	332	ONEIDA ST	Lead Tailpiece	Lead	PEX	Copper	2020-01-20	2020-01-20	No		ND	2020-01-21	2020-01-29												
5055300	B06_03_B	B06_03_B	3	ST THOMAS ST	Lead	Lead	PEX	Copper	2020-01-20	2020-01-20	No		2.52	2020-01-22	2020-02-03												
5077025	B13_01_B	B13_01_B	2521	BRIGHTON RD	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		2.05	2020-01-22	2020-02-03												
5060577	B05_02_B	B05_02_B	186	PLYMOUTH ST	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		65.3	2020-01-23	2020-02-03	ND	2020-05-12	2020-05-18									
5055629	CEP_02	CEP_02	450	KATHLEEN ST	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		6.33	2020-01-23	2020-02-03												
5078647	B13_01_A	B13_01_A	1344	OAKHILL ST	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		1.34	2020-08-29	2020-09-09												
5003634	B14_03_A	B14_03_A	319	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		ND	2020-02-29	2020-03-16												
5078565	B13_01_A	B13_01_A	3155	MCCLURE AVE	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		2.42	2020-01-23	2020-02-03												
5055245	B06_03_B	B06_03_B	1	REGINA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-21	2020-01-21	No		1.64	2020-01-24	2020-02-03												
5004571	B14_03_B	B14_03_B	3411	DAWSON ST	Lead	Lead	PEX	Copper	2020-01-21	2020-01-21	No		3.52	2020-01-22	2020-01-29												
5060203	B05_02_B	B05_02_B	254	SEWARD ST	Lead	Copper	PEX	Not Replaced	2020-01-21		No																

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5	
5060716	B05_02_B	B05_02_B	174	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-27	2020-01-27	No		1.97	2020-01-29	2020-02-03													
5055228	B06_03_B	B06_03_B	1741	ARLINGTON AVE	Lead	Lead	PEX	Copper	2020-01-27	2020-01-27	No		4.04	2020-02-06	2020-02-17													
5006095	CEP_02	CEP_02	639	KIRKPATRICK ST	Lead	Lead	PEX	Copper	2020-01-27	2020-01-27	No		1.5	2020-07-26	2020-08-05													
5059838	B05_02_B	B05_02_B	460	HALLOCK ST	Lead	Lead	PEX	Copper	2020-01-27	2020-01-27	No		ND	2020-02-22	2020-03-02													
5055237	B06_03_B	B06_03_B	1103	ST MARTIN ST	Lead	Lead	PEX	Copper	2020-01-27	2020-01-27	No		ND	2020-03-02	2020-03-09													
5060905	B05_02_B	B05_02_B	240	ONEIDA ST	Lead Tailpiece	Lead	Copper Tailpiece	Copper	2020-01-28	2020-01-28	No		ND	2020-03-06	2020-03-16													
5060919	B05_02_B	B05_02_B	311	ONEIDA ST	Lead Tailpiece	Lead	Copper Tailpiece	Copper	2020-01-28	2020-01-28	No		ND	2020-02-15	2020-02-24													
5059762	B05_02_B	B05_02_B	1106	VIRGINIA AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-28	2020-01-28	No		ND	2020-01-29	2020-02-11													
5076964	B13_01_B	B13_01_B	1230	THELMA ST	Lead	Lead	PEX	Copper	2020-01-28	2020-01-28	No		8.88	2020-01-28	2020-02-03													
5078442	B13_01_A	B13_01_A	1341	WOODS RUN AVE	Lead	Copper	PEX	Not Replaced	2020-01-28	2020-01-28	No		ND	2020-01-28	2020-02-03													
5003659	B14_03_A	B14_03_A	318	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-28	2020-01-28	No		4.04	2020-02-05	2020-02-24													
5077062	B13_01_B	B13_01_B	2635	BRIGHTON RD	Lead	Lead	PEX	Copper	2020-01-28	2020-01-28	No		36.5	2020-01-30	2020-02-03	ND	2020-04-23	2020-04-27										
5059761	B05_02_B	B05_02_B	1108	VIRGINIA AVE	Lead	Copper	PEX	Not Replaced	2020-01-28		No		1.01	2020-01-29	2020-02-03													
5060928	B05_02_B	B05_02_B	237	ONEIDA ST	Lead Tailpiece	Lead	Copper Tailpiece	Copper	2020-01-29	2020-01-29	No		3.88	2020-01-29	2020-02-03													
5077045	B13_01_B	B13_01_B	2624	STAYTON ST	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		2.87	2020-01-30	2020-02-11													
5004058	B14_03_B	B14_03_B	3619	PARKVIEW AVE	Lead	Copper	PEX	Not Replaced	2020-01-29		No		10	2020-02-12	2020-02-24													
5004059	B14_03_B	B14_03_B	3617	PARKVIEW AVE	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		2.86	2020-02-01	2020-02-11													
5005149	CEP_02	CEP_02	3718	ORPWOOD ST	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		7.04	2020-01-29	2020-02-03													
5055241	B06_03_B	B06_03_B	1117	ST MARTIN ST	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		3.78	2020-02-05	2020-03-02													
5079142	B13_01_B	B13_01_B	1221	COURTRIGHT ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-29	2020-01-29	No		ND	2020-02-10	2020-02-17													
5076486	B13_01_A	B13_01_A	1313	OAKHILL ST	Lead	Copper	PEX	Not Replaced	2020-01-29		No		2.66	2020-01-29	2020-02-11													
5060435	B05_02_B	B05_02_B	313	CLARENCE ST	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		2.84	2020-01-30	2020-02-11													
5003655	B14_03_A	B14_03_A	306	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		ND	2020-03-19	2020-03-25													
5004491	B14_03_B	B14_03_B	3427	WARD ST	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		5.23	2020-03-18	2020-03-25													
5059758	B05_02_B	B05_02_B	1114	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		1.99	2020-02-03	2020-02-17													
5076990	B13_01_B	B13_01_B	1226	SUPERIOR AVE	Lead	Copper	PEX	Not Replaced	2020-01-29		No		ND	2020-01-30	2020-02-03													
5077029	B13_01_B	B13_01_B	2607	BRIGHTON RD	Lead	Lead	PEX	Copper	2020-01-29	2020-01-29	No		ND	2020-02-02	2020-02-11													
5003391	B14_03_A	B14_03_A	319	ATWOOD ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		1.29	2020-01-31	2020-02-11													
5055238	B06_03_B	B06_03_B	1105	ST MARTIN ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		ND	2020-02-01	2020-02-11													
5060913	B05_02_B	B05_02_B	208	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		ND	2020-02-01	2020-02-17	ND	2020-02-02	2020-02-24										
5003663	B14_03_A	B14_03_A	330	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		20.8	2020-01-31	2020-02-17	ND	2020-04-30	2020-05-11										
5076701	B13_01_B	B13_01_B	2711	STAYTON ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		3.31	2020-01-31	2020-02-17													
5077063	B13_01_B	B13_01_B	2637	BRIGHTON RD	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		1.46	2020-01-31	2020-02-11													
5004076	B14_03_B	B14_03_B	3616	PARKVIEW AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-30	2020-01-30	No		7.89	2020-01-31	2020-02-17													
5060429	B05_02_B	B05_02_B	343	CLARENCE ST	Lead	Copper	PEX	Not Replaced	2020-01-30		No		10	2020-01-31	2020-02-17													
5004369	B14_03_B	B14_03_B	3426	WARD ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		12.2	2020-01-31	2020-02-11													
5059818	B05_02_B	B05_02_B	1121	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		3.43	2020-02-01	2020-02-11													
5002307	CEP_02	CEP_02	26	GAZZAM ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		1.58	2020-01-31	2020-02-11													
5055079	B06_03_B	B06_03_B	1808	BALDAUF ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-30	No		ND	2020-03-12	2020-03-25													
5003390	B14_03_A	B14_03_A	317	ATWOOD ST	Lead	Copper	PEX	Not Replaced	2020-01-30		No		ND	2020-01-31	2020-02-17													
5026622	CEP_02	CEP_02	525	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-01-30	2020-01-31	No		ND	2020-02-08	2020-02-24													
5003363	B14_03_A	B14_03_A	300	ATWOOD ST	Lead	Lead	PEX	Copper	2020-01-31	2020-01-31	No		1.57	2020-02-03	2020-02-11													
5003732	B14_03_A	B14_03_A	340	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-31	2020-01-31	No		ND	2020-02-01	2020-02-11	ND	2020-02-02	2020-02-17										
5004368	B14_03_B	B14_03_B	3428	WARD ST	Lead	Lead	PEX	Copper	2020-01-31	2020-01-31	No		15.5	2020-02-01	2020-02-24													
5077064	B13_01_B	B13_01_B	2639	BRIGHTON RD	Lead	Lead	PEX	Copper	2020-01-31	2020-01-31	No		2.26	2020-02-02	2020-02-17													
5003348	B14_03_A	B14_03_A	324	ATWOOD ST	Lead	Lead	Copper	Copper	2020-01-31	2020-01-31	No		1.63	2020-02-01	2020-02-17													
5078465	B13_01_A	B13_01_A	3220	MCCLURE AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-03	2020-02-03	No		1.27	2020-04-08	2020-04-13													
5076873	B13_01_A	B13_01_A	1305	SUPERIOR AVE	Lead	Lead	PEX	Copper	2020-02-03	2020-02-03	No		80.1	2020-02-03	2020-02-11	ND	2020-02-11	2020-02-19										
5079127	B13_01_B	B13_01_B	3136	FREDERICK ST	Lead	Copper	PEX	Not Replaced	2020-02-03		No		5.14	2020-02-03	2020-02-24													
5059756	B05_02_B	B05_02_B	335	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-03	2020-02-03	No		3.84	2020-02-04	2020-02-17													
5004584	B14_03_B	B14_03_B	3430	DAWSON ST	Lead	Copper	PEX	Not Replaced	2020-02-03		No		ND	2020-04-26	2020-05-04													
5060958	B05_02_B	B05_02_B	215	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-03	2020-02-03	No		8.16	2020-02-04	2020-02-17													
5059759	B05_02_B	B05_02_B	1112	VIRGINIA AVE	Lead	Copper	PEX	Not Replaced	2020-02-03		No		ND	2020-02-04	2020-02-17													
5060214	B05_02_B	B05_02_B	200	SEWARD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-03	2020-02-03	No		ND	2020-02-05	2020-02-17													
5060929	B05_02_B	B05_02_B	235	ONEIDA ST	Lead Tailpiece	Lead	Copper Tailpiece	Copper	2020-02-04	2020-02-04	No		ND	2020-03-23	2020-03-30													
5060965	B05_02_B	B05_02_B	239	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-04	2020-02-04	No		ND	2020-03-24	2020-03-30													
5076489	B13_01_A	B13_01_A	3021	SHADELAND AVE	Lead	Lead	PEX	Copper	2020-02-04	2020																		

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5003340	B14_03_A	B14_03_A	342	ATWOOD ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		1.38	2020-02-14	2020-02-24												
5078488	B13_01_A	B13_01_A	3261	BAINTON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-10	2020-02-10	No		ND	2020-04-06	2020-04-20	ND	2020-04-06	2020-04-20									
5076637	B13_01_B	B13_01_B	3003	WADLOW ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		ND	2020-02-14	2020-02-24												
5076939	B13_01_B	B13_01_B	1247	DICKSON ST	Lead	Copper	PEX	Not Replaced	2020-02-10		No		4.1	2020-02-13	2020-02-24												
5061894	B05_02_B	B05_02_B	546	HALLOCK ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		ND	2020-02-13	2020-02-24												
5060544	B05_02_B	B05_02_B	1518	WELL ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		2.13	2020-02-11	2020-02-17												
5060696	B05_02_B	B05_02_B	136	COHASSET ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		4.22	2020-02-10	2020-02-24												
5060543	B05_02_B	B05_02_B	1520	WELL ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		2.18	2020-02-12	2020-02-24												
5079506	B13_01_B	B13_01_B	3025	WADLOW ST	Lead	Lead	PEX	Copper	2020-02-10	2020-02-10	No		ND	2020-02-12	2020-02-17												
5059668	B05_02_B	B05_02_B	1322	VIRGINIA AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-10	2020-02-10	No		8.17	2020-02-16	2020-02-24												
5076612	B13_01_B	B13_01_B	2901	BREKER ST	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		1.28	2020-02-15	2020-02-24												
5076624	B13_01_B	B13_01_B	2822	BREKER ST	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		2.86	2020-02-12	2020-02-17												
5003366	B14_03_A	B14_03_A	258	ATWOOD ST	Lead	Copper	PEX	Not Replaced	2020-02-11		No		ND	2020-02-12	2020-02-24												
5076707	B13_01_B	B13_01_B	1124	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		ND	2020-10-27	2020-11-09												
5003367	B14_03_A	B14_03_A	254	ATWOOD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-11	2020-02-11	No		ND	2020-02-12	2020-02-24												
5076611	B13_01_B	B13_01_B	2903	BREKER ST	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		ND	2020-03-30	2020-04-13												
5004053	B14_03_B	B14_03_B	7	OAKLAND SQ	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-11	2020-02-11	No		ND	2020-02-24	2020-03-02												
5003746	B14_03_A	B14_03_A	367	COLTART AVE	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		6.72	2020-02-12	2020-02-24												
5003369	B14_03_A	B14_03_A	250	ATWOOD ST	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		2.3	2020-02-13	2020-02-24												
5059673	B05_02_B	B05_02_B	1312	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		3.54	2020-02-24	2020-03-02												
5060692	B05_02_B	B05_02_B	146	COHASSET ST	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	No		2.27	2020-02-19	2020-02-24												
5061882	B05_02_B	B05_02_B	529	MERIDAN ST	Lead	Copper	PEX	Not Replaced	2020-02-11		No		ND	2020-02-13	2020-02-24												
5004086	B14_03_B	B14_03_B	16	OAKLAND SQ	Lead	Lead	PEX	Copper	2020-02-12	2020-02-12	No		1.67	2020-03-02	2020-03-09												
5077047	B13_01_B	B13_01_B	1137	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-12	2020-02-12	No		1.27	2020-02-13	2020-02-24												
5076627	B13_01_B	B13_01_B	2900	BREKER ST	Lead	Lead	PEX	Copper	2020-02-12	2020-02-12	No		1.54	2020-02-13	2020-02-24												
5079509	B13_01_B	B13_01_B	3011	WADLOW ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-12	2020-02-12	No		1.18	2020-02-13	2020-02-24												
5060419	B05_02_B	B05_02_B	344	CLARENCE ST	Lead	Lead	PEX	Copper	2020-02-12	2020-02-12	No		ND	2020-03-04	2020-03-09												
5076656	B13_01_B	B13_01_B	1214	DICKSON ST	Lead	Lead	PEX	Copper	2020-02-12	2020-02-12	No		5.48	2020-02-13	2020-02-24												
5060970	B05_02_B	B05_02_B	305	MERIDAN ST	Lead	Copper	PEX	Not Replaced	2020-02-12		No		1.24	2020-02-18	2020-03-09												
5059723	B05_02_B	B05_02_B	1317	VIRGINIA AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-12	2020-02-12	No		10.2	2020-02-13	2020-03-02	2.32	2020-02-19	2020-02-24									
5120016	B05_02_B	B05_02_B	309	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-13	2020-02-13	No		2.88	2020-02-14	2020-02-24												
5003341	B14_03_A	B14_03_A	340	ATWOOD ST	Lead	Lead	PEX	Copper	2020-02-13	2020-02-13	No		1.15	2020-02-20	2020-03-02												
5004482	B14_03_B	B14_03_B	3407	WARD ST	Lead	Lead	PEX	Copper	2020-02-13	2020-02-13	No		ND	2020-02-24	2020-03-02												
5004028	B14_03_B	B14_03_B	519	SEMPLE ST	Lead	Lead	PEX	Copper	2020-02-13	2020-02-13	No		ND	2020-02-14	2020-02-24												
5060116	B05_02_B	B05_02_B	1733	GREENLEAF ST	Lead	Lead	PEX	Copper	2020-02-13	2020-02-13	No		3.45	2020-02-13	2020-03-02												
5003696	B14_03_A	B14_03_A	305	HALKET ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-13	2020-02-13	No		ND	2020-02-16	2020-02-24												
5004516	B14_03_B	B14_03_B	17	WELLSFORD ST	Lead	Lead	PEX	Copper	2020-02-14	2020-02-14	No		1.57	2020-02-15	2020-02-24												
5004517	B14_03_B	B14_03_B	15	WELLSFORD ST	Lead	Lead	PEX	Copper	2020-02-14	2020-02-14	No		ND	2020-02-15	2020-02-24	1.91	2020-02-15	2020-02-24	ND	2020-02-15	2020-02-24						
5003371	B14_03_A	B14_03_A	246	ATWOOD ST	Lead	Lead	PEX	Copper	2020-02-15	2020-02-15	No		11.7	2020-02-15	2020-03-09	ND	2020-02-16	2020-02-24									
5003693	B14_03_A	B14_03_A	239	HALKET ST	Lead	Lead	PEX	Copper	2020-02-15	2020-02-15	No		ND	2020-02-18	2020-02-24												
5003684	B14_03_A	B14_03_A	221	HALKET ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-17	2020-02-17	No		ND	2020-04-08	2020-04-13												
5076640	B13_01_B	B13_01_B	3001	VENSEL WAY	Lead	Lead	PEX	Copper	2020-02-17	2020-02-17	No		3.84	2020-03-08	2020-03-30												
5076709	B13_01_B	B13_01_B	1130	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-17	2020-02-17	No		19	2020-02-17	2020-02-24	13.8	2020-05-23	2020-06-01									
5076619	B13_01_B	B13_01_B	2813	BREKER ST	Lead	Lead	PEX	Copper	2020-02-17	2020-02-17	No		6.07	2020-02-24	2020-03-16												
5079534	B13_01_B	B13_01_B	3020	VENSEL WAY	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-17	2020-02-17	No		7.62	2020-02-18	2020-02-24												
5060937	B05_02_B	B05_02_B	246	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-17	2020-02-17	No		19.8	2020-02-18	2020-02-24												
5055081	B06_03_B	B06_03_B	1901	BALDAUF ST	Lead	Copper	PEX	Copper	2020-02-17	2020-02-17	No		ND	2020-02-19	2020-02-24												
5003685	B14_03_A	B14_03_A	223	HALKET ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-17	2020-02-17	No		ND	2020-02-18	2020-02-24	ND	2020-02-18	2020-02-24	1.06	2020-02-18	2020-03-02						
5059722	B05_02_B	B05_02_B	1315	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-02-17	2020-02-17	No		1.47	2020-02-27	2020-03-09												
5076265	B13_01_A	B13_01_A	1601	MEIRSCH ST	Lead	Lead	PEX	Copper	2020-02-17	2020-02-17	No		ND	2020-04-13	2020-05-04												
5005442	Ops	Urgent LSLR	2611	WEBSTER AVE	Lead	Lead	PEX	Copper	2020-02-18	2020-02-18	No	Emergency	1.47	2020-02-21	2020-03-02												
5076700	B13_01_B	B13_01_B	2709	STAYTON ST	Lead	Lead	PEX	Copper	2020-02-18	2020-02-18	No		ND	2020-02-19	2020-03-02												
5003265	B14_03_A	B14_03_A	319	SEMPLE ST	Lead	Lead	PEX	Copper	2020-02-18	2020-02-18	No		1.19	2020-02-18	2020-03-09												
5076942	B13_01_B	B13_01_B	1228	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-18	2020-02-18	No		ND	2020-02-19	2020-03-02												
5059671	B05_02_B	B05_02_B	1314	VIRGINIA AVE- REAR	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-18	2020-02-18	No		8.51	2020-02-25	2020-03-02												
5076233	B13_01_A	B13_01_A	2839	CALIFORNIA AVE	Lead	Lead	PEX	Copper	2020-02-18	2020-02-18	No		1.48	2020-04-03	2020-04-20	1.48	2020-04-03	2020-04-20									
5030279	CEP_02	CEP_02	6611	SHELTON AVE	Lead	Lead	PEX	Copper	2020-02-18	2020-02-18	No		16.6	2020-02-21	2020-03-02	ND	2020-05-2										

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5002837	B18_06	B18_06	211	DUNSEITH ST	Lead	Copper	PEX	Not Replaced	2020-02-21	2020-02-21	No		ND	2020-03-13	2020-03-25												
5076613	B13_01_B	B13_01_B	2825	BREKER ST	Lead	Lead	PEX	Copper	2020-02-21	2020-02-21	No		31.7	2020-04-14	2020-04-20												
5019665	CEP_02	CEP_02	5351	WATERFORD ST	Lead	Lead	PEX	Copper	2020-02-24	2020-02-24	No		ND	2020-02-25	2020-03-02												
5079566	B13_01_C	B13_01_C	1031	SMITHTON AVE	Lead	Lead	PEX	Copper	2020-02-24	2020-02-24	No		2.93	2020-02-26	2020-03-02												
5002849	B18_06	B18_06	237	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-24	2020-02-24	No		2.9	2020-02-29	2020-03-09												
5076166	B13_01_A	B13_01_A	614	KNAPP ST	Lead	Copper	PEX	Not Replaced	2020-02-24		No		13.2	2020-02-25	2020-03-02	ND	2020-08-06	2020-08-17									
5004502	B14_03_B	B14_03_B	20	WELSFORD	Lead	Lead	PEX	Copper	2020-02-24	2020-02-24	No		1.63	2020-02-25	2020-03-02												
5059674	B05_02_B	B05_02_B	1306	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-02-24	2020-02-24	No		ND	2020-03-21	2020-03-30												
5002844	B18_06	B18_06	225	DUNSEITH ST	Lead	Copper	PEX	Not Replaced	2020-02-24		No		ND	2020-03-03	2020-03-09												
5059701	B05_02_B	B05_02_B	464	ONEIDA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-24	2020-02-24	No		5.72	2020-02-24	2020-03-02												
5079324	B13_01_C	B13_01_C	840	GRAND AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-24	2020-02-24	No		2.11	2020-02-25	2020-03-02												
5041581	Ops	Ops	6739	WILKINS AVE	Lead	PEX	Copper	Not Replaced	2020-02-25		No	Emergency	1.36	2020-05-17	2020-05-27												
5009159	B17_07_A	B17_07_A	251	38TH ST	Lead	Lead	PEX	Copper	2020-02-25	2020-02-25	No		ND	2020-02-28	2020-03-09												
5044049	CEP_02	CEP_02	548	PEEBLES	Lead	Lead	PEX	Copper	2020-02-25	2020-02-25	No		ND	2020-03-01	2020-03-09												
5079348	B13_01_C	B13_01_C	853	GRAND AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-25	2020-02-25	No		ND	2020-02-26	2020-03-09												
5002845	B18_06	B18_06	227	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-25	2020-02-25	No		2.79	2020-02-27	2020-03-02												
5003447	B14_03_A	B14_03_A	253	OAKLAND AVE	Lead	Copper	PEX	Not Replaced	2020-02-25		No		36.6	2020-02-25	2020-03-09												
5002879	B18_06	B18_06	228	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-25	2020-02-25	No		ND	2020-03-15	2020-03-30												
5079557	B13_01_C	B13_01_C	1001	SMITHTON AVE	Lead	Lead	PEX	Copper	2020-02-25	2020-02-25	No		446	2020-02-28	2020-03-09												
5009124	B17_07_A	B17_07_A	238	38TH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-25	2020-02-25	No		1.52	2020-02-26	2020-03-02												
5035675	Ops	Private Reimbursement	718	HASTINGS ST	Lead	Lead	Copper	PEX	2020-02-26	2020-03-02	No	Emergency	ND	2020-03-08	2020-03-25												
5067729	B15_01_A	B15_01_A	1008	GOEHRING ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-26	2020-02-26	No		ND	2020-03-02	2020-03-09												
5055427	B06_03_B	B06_03_B	2634	S 18TH STREET EXT	Lead	Lead	PEX	Copper	2020-02-26	2020-02-26	No		ND	2020-03-05	2020-03-16												
5002865	B18_06	B18_06	274	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-26	2020-02-26	No		1.57	2020-02-28	2020-03-09												
5009127	B17_07_A	B17_07_A	244	38TH ST	Lead	Lead	PEX	Copper	2020-02-26	2020-02-26	No		75.4	2020-02-27	2020-03-02	ND	2020-03-13	2020-03-25									
5079320	B13_01_C	B13_01_C	834	GRAND AVE	Lead	Lead	PEX	Copper	2020-02-26	2020-02-26	No		10.6	2020-02-27	2020-03-09	8.75	2020-05-30	2020-06-08									
5067728	B15_01_A	B15_01_A	1010	GOEHRING ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-26	2020-02-26	No		ND	2020-04-17	2020-04-27												
5002873	B18_06	B18_06	242	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-27	2020-02-27	No		1.62	2020-03-01	2020-03-25												
5077032	B13_01_B	B13_01_B	1108	HODGKISS ST	Lead	Lead	PEX	Copper	2020-02-27	2020-02-27	No		13.3	2020-03-01	2020-03-09												
5003317	B14_03_A	B14_03_A	327	MEYRAN AVE	Lead	Lead	PEX	Copper	2020-02-27	2020-02-27	No		5.75	2020-03-01	2020-03-09												
5002851	B18_06	B18_06	241	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-27	2020-02-27	No		ND	2020-04-23	2020-05-04												
5009160	B17_07_A	B17_07_A	249	38TH ST	Lead	Lead	PEX	Copper	2020-02-27	2020-02-27	No		ND	2020-03-01	2020-03-09												
5079027	B13_01_B	B13_01_B	1316	WOODS RUN AVE	Lead	Copper	PEX	Not Replaced	2020-02-27		No		ND	2020-05-07	2020-05-18												
5002847	B18_06	B18_06	231	DUNSEITH ST	Lead	Copper	PEX	Not Replaced	2020-02-27		No		ND	2020-03-02	2020-03-09												
5048620	CEP_02	CEP_02	227	TROWBRIDGE ST	Lead	Lead	PEX	Copper	2020-02-27	2020-02-28	No		6.53	2020-03-03	2020-03-09												
5079028	B13_01_B	B13_01_B	1318	WOODS RUN AVE	Lead	Copper	PEX	Not Replaced	2020-02-27		No		ND	2020-05-02	2020-05-18												
5002825	B18_06	B18_06	220	ROBINSON ST	Lead	Lead	PEX	Copper	2020-02-28	2020-02-28	No		ND	2020-02-29	2020-03-09												
5002868	B18_06	B18_06	254	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-28	2020-02-28	No		29.7	2020-02-29	2020-03-09												
5078857	B13_01_C	B13_01_C	1103	WOODS RUN AVE	Lead	Lead	PEX	Copper	2020-02-28	2020-02-28	No		ND	2020-03-05	2020-03-16												
5002869	B18_06	B18_06	252	DUNSEITH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-28	2020-02-28	No		23.6	2020-03-03	2020-03-09	7.6	2020-06-01	2020-06-08									
5002834	B18_06	B18_06	205	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-28	2020-02-28	No		25.6	2020-03-11	2020-03-25	8.63	2021-07-31	2021-08-16									
5002410	B18_06	B18_06	2314	BEELEN ST	Lead	Lead	PEX	Copper	2020-02-28	2020-02-28	No		2.07	2020-04-29	2020-05-11												
5003825	B14_03_A	B14_03_A	346	MEYRAN AVE	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		1.53	2020-03-03	2020-03-16	132	2020-03-03	2020-03-09									
5009244	B17_07_A	B17_07_A	3515	LEECH ST	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		ND	2020-03-04	2020-03-16												
5003856	B14_03_B	B14_03_B	15	MELBA PL	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		49.8	2020-03-07	2020-03-16	9.05	2020-03-07	2020-03-16									
5079247	B13_01_C	B13_01_C	1034	GRAND AVE	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		1.51	2020-03-03	2020-03-09												
5079294	B13_01_C	B13_01_C	1028	ROTHPLETZ ST	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		ND	2020-04-23	2020-05-04												
5079293	B13_01_C	B13_01_C	1034	ROTHPLETZ ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-02	2020-03-02	No		5.69	2020-03-03	2020-03-09												
5002318	B18_06	B18_06	5	BEELEN ST	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		ND	2020-03-06	2020-03-16												
5002885	B18_06	B18_06	214	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-03-02	2020-03-02	No		ND	2020-03-03	2020-03-09												
5003329	B14_03_A	B14_03_A	353	MEYRAN AVE	Lead	Copper	PEX	Not Replaced	2020-03-03		No		4.95	2020-03-05	2020-03-16												
5009202	B17_07_A	B17_07_A	283	38TH ST	Lead	Copper	PEX	Not Replaced	2020-03-03		No		1.52	2020-03-05	2020-03-16												
5003831	B14_03_A	B14_03_A	350	MEYRAN AVE	Lead	Lead	PEX	Copper	2020-03-03	2020-03-03	No		3.04	2020-03-04	2020-03-09												
5079191	B13_01_C	B13_01_C	930	SMITHTON AVE	Lead	Lead	PEX	Copper	2020-03-03	2020-03-03	No		ND	2020-03-05	2020-03-09												
5079076	B13_01_C	B13_01_C	3138	SORENTO ST	Lead	Lead	PEX	Copper	2020-03-03	2020-03-03	No		1	2020-03-06	2020-03-16												
5003571	B14_03_A	B14_03_A	333	S BOUQUET ST	Lead	Lead	PEX	Copper	2020-03-03	2020-03-03	No		2.64	2020-03-04	2020-03-25												
5002819	B18_06	B18_06	232	ROBINSON ST	Lead	Lead	PEX	Copper	2020-03-03	2020-03-03	No		ND	2020-04-27	2020-05-04												
5009128	B17_07_A	B17_07_A	244.5	38TH	Lead	Lead	PEX	Copper	2020-03-03																		

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5133250	B15_01_A	B15_01_A	1160	ADMIRAL	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		11.1	2020-03-10	2020-03-16	1.04	2020-06-27	2020-07-06	1.04	2020-06-27	2020-07-06						
5047491	CEP_02	CEP_02	361	FLOWERS AVE	Lead	Copper	PEX	Not Replaced	2020-03-09	2020-03-09	No		96	2020-03-12	2020-03-25	80.1	2020-03-28	2020-04-06	2.44	2020-04-14	2020-04-20						
5019894	B20_07	B20_07	5206	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		ND	2020-03-10	2020-03-16												
5002886	B18_06	B18_06	212	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		2.36	2020-03-12	2020-03-16												
5004382	B14_03_B	B14_03_B	3613	BLVD OF THE ALLIES	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		1.11	2020-03-11	2020-03-25												
5073283	B15_01_B	B15_01_B	1925	BADER ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		5.93	2020-03-10	2020-03-16												
5068893	B15_01_A	B15_01_A	1154	ADMIRAL ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		ND	2020-03-10	2020-03-16												
5004492	B14_03_B	B14_03_B	3429	WARD ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		ND	2020-03-10	2020-03-16												
5073290	B15_01_B	B15_01_B	1924	BADER ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-09	No		9.24	2020-03-10	2020-03-25												
5008821	B17_07_A	B17_07_A	166	37TH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-09	2020-03-09	No		ND	2020-03-12	2020-03-25												
5056204	Urgent LSLR	Urgent LSLR	219	KATHLEEN ST	Lead	Lead	PEX	Copper	2020-03-09	2020-03-11	No	Emergency	ND	2020-03-13	2020-03-25												
5079303	B13_01_C	B13_01_C	924	ROTHPLETZ ST	Lead	Copper	PEX	Not Replaced	2020-03-09	2020-03-09	No		17.6	2020-03-10	2020-03-16												
5008992	B17_07_A	B17_07_A	187	38TH ST	Lead	Copper	PEX	Not Replaced	2020-03-10		No		ND	2020-03-11	2020-03-16												
5009038	B17_07_A	B17_07_A	3623	CHARLOTTE ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		ND	2020-03-13	2020-03-25												
5002820	B18_06	B18_06	230	ROBINSON ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		1.97	2020-03-11	2020-03-25												
5003897	B14_03_B	B14_03_B	402	SEMPLE ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		ND	2020-03-12	2020-03-30												
5068551	B15_01_A	B15_01_A	1189	SERENE ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		3.28	2020-03-11	2020-03-16												
5009053	B17_07_A	B17_07_A	186	38TH ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		11.3	2020-03-13	2020-03-25												
5003142	B18_06	B18_06	3147	TERRACE ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		1.15	2020-03-12	2020-03-25												
5003821	B14_03_A	B14_03_A	355	SEMPLE ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		ND	2020-03-12	2020-03-25												
5008825	B17_07_A	B17_07_A	3620	SMALLMAN ST	Lead	Lead	PEX	Copper	2020-03-10	2020-03-10	No		ND	2020-03-11	2020-03-16												
5009306	B17_07_A	B17_07_A	3500	PENN AVE	Lead	Copper	PEX	Not Replaced	2020-03-10		No		1.16	2020-03-12	2020-03-25												
5019804	B20_07	B20_07	5219	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-11		No		6.35	2020-03-12	2020-03-25												
5067588	B15_01_A	B15_01_A	30	ROSTOCK ST	Lead	Lead	PEX	Copper	2020-03-11	2020-03-11	No		3.51	2020-03-12	2020-03-16												
5003783	B14_03_A	B14_03_A	354	SEMPLE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-11	2020-03-11	No		ND	2020-03-16	2020-03-25												
5002818	B18_06	B18_06	234	ROBINSON ST	Lead	Lead	PEX	Copper	2020-03-11	2020-03-11	No		ND	2020-03-25	2020-04-13												
5008840	B17_07_A	B17_07_A	3540	CHARLOTTE ST	Lead	Copper	PEX	Not Replaced	2020-03-11		No		ND	2020-03-12	2020-04-27												
5068552	B15_01_A	B15_01_A	1187	SERENE ST	Lead	Lead	PEX	Copper	2020-03-11	2020-03-11	No		1.58	2020-03-16	2020-03-25												
5009031	B17_07_A	B17_07_A	3723	CHARLOTTE ST	Lead	Lead	PEX	Copper	2020-03-11	2020-03-11	No		9.98	2020-03-12	2020-03-25												
5009032	B17_07_A	B17_07_A	3721	CHARLOTTE ST	Lead	Lead	PEX	Copper	2020-03-11	2020-03-11	No		ND	2020-03-14	2020-03-25												
5008841	B17_07_A	B17_07_A	3538	CHARLOTTE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-11	2020-03-11	No		ND	2020-03-12	2020-05-27												
5068077	B15_01_A	B15_01_A	901	HASLAGE AVE	Lead	Lead	PEX	Copper	2020-03-11	2020-03-11	No		21	2020-03-12	2020-03-25	1.19	2020-06-24	2020-07-06	1.19	2020-06-24	2020-07-06						
5068895	B15_01_A	B15_01_A	1150	ADMIRAL ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-11	2020-03-11	No		ND	2020-03-13	2020-03-25												
5009277	B17_07_A	B17_07_A	3613	PENN AVE	Lead	Copper	PEX	Not Replaced	2020-03-11		No		ND	2020-03-28	2020-04-13												
5068556	B15_01_A	B15_01_A	1813	BADER ST	Lead	Copper	PEX	Not Replaced	2020-03-12		No		5.64	2020-03-13	2020-03-25												
5019797	B20_07	B20_07	5207	CARNEGIE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-12	2020-03-12	No		ND	2020-05-02	2020-05-11												
5073163	B15_01_A	B15_01_A	147	OVERBECK ST	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		1.18	2020-03-13	2020-03-25												
5068528	B15_01_B	B15_01_B	1901	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		7.14	2020-03-14	2020-03-30												
5009710	B17_07_B	B17_07_B	3900	HOWLEY ST	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		18.9	2020-03-15	2020-03-25	ND	2020-06-23	2020-06-29									
5004385	B14_03_B	B14_03_B	3619	BLVD OF THE ALLIES	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		ND	2020-03-14	2020-03-25												
5019798	B20_07	B20_07	5209	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-12		No		ND	2020-06-09	2020-06-15												
5079026	B13_01_C	B13_01_C	1041	HALL ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-12	2020-03-12	No		ND	2020-05-01	2020-05-11												
5068558	B15_01_A	B15_01_A	1823	BADER ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-12	2020-03-12	No		ND	2020-05-07	2020-05-18												
5002338	B18_06	B18_06	3131	TERRACE ST	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		12.5	2020-03-12	2020-03-25												
5003890	B14_03_B	B14_03_B	427	SEMPLE ST	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		2.79	2020-03-13	2020-03-25												
5068546	B15_01_A	B15_01_A	1826	BADER ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-12	2020-03-12	No		1.97	2020-03-13	2020-03-25												
5009655	B17_07_B	B17_07_B	3921	HOWLEY ST	Lead	Lead	PEX	Copper	2020-03-12	2020-03-12	No		ND	2020-03-12	2020-03-25												
5003822	B14_03_A	B14_03_A	353	SEMPLE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-13	2020-03-13	No		ND	2020-03-14	2020-03-25												
5068561	B15_01_A	B15_01_A	1381	DAMAS ST	Lead	Lead	PEX	Copper	2020-03-13	2020-03-13	No		74	2020-03-15	2020-03-25	19.8	2020-04-08	2020-04-13									
5079971	CEP_02	CEP_02	3927	SHOREHAM ST	Lead	Lead	PEX	Copper	2020-03-13	2020-03-13	No		ND	2020-03-16	2020-03-25												
5019802	B20_07	B20_07	5217	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-03-13	2020-03-13	No		5.1	2020-03-14	2020-03-25												
5073277	B15_01_B	B15_01_B	1908	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2020-03-13	2020-03-13	No		ND	2020-03-15	2020-03-25												
5002810	B18_06	B18_06	250	ROBINSON ST	Lead	Lead	PEX	Copper	2020-03-13	2020-03-13	No		3.53	2020-03-14	2020-03-25												
5067835	B15_01_A	B15_01_A	1339	DIANA PL	Lead	Lead	PEX	Copper	2020-03-13	2020-03-13	No		6.2	2020-03-14	2020-03-25												
5019808	B20_07	B20_07	5221	CARNEGIE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-13	2020-03-13	No		ND	2020-03-16	2020-03-25												
5003256	B14_03_A	B14_03_A	329	SEMPLE ST	Lead	Copper	PEX	Not Replaced	2020-03-16		No		ND	2020-03-31	2020-04-06												
5072884	B15_01_B	B15_01_B	1416	ROMANHOFF ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-16	2020-03-16	No		5.89	2020-03-17	2020-03-25												
5019828	B20_07	B20_07	5255	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-17		No		ND	2020-03-20	2020-03-30												
5009539	B17_07_B	B17_07_B	3909	MINTWOOD ST	Lead	Copper	PEX	Not Replaced</																			

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5019951	B20_07	B20_07	121	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-06-11	2020-06-11	No		ND	2020-06-15	2020-06-22												
5073008	B15_01_B	B15_01_B	2137	DONORA ST	Lead	Copper	PEX	Not Replaced	2020-06-11		No		ND	2020-06-14	2020-06-29												
5022742	B20_07	B20_07	6046	SAWYER ST	Lead	Copper	PEX	Not Replaced	2020-06-11		No		ND	2020-06-12	2020-06-22												
5026666	B19_09	B19_09	5547	COLUMBO ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-11	2020-06-11	No		ND	2020-06-13	2020-07-13												
5013615	B21_07	B21_07	236	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-11	2020-06-11	No		4.76	2020-06-16	2020-06-22												
5013613	B21_07	B21_07	230	S WINEBIDDLE ST	Lead	PEX	PEX	Not Replaced	2020-06-12		No		ND	2020-06-15	2020-06-29												
5072978	B15_01_B	B15_01_B	7	NETTIE ST	Lead	Lead	PEX	Copper	2020-06-12	2020-06-12	No		ND	2020-06-15	2020-06-22												
5019914	B20_07	B20_07	5205	KEYSTONE ST	Lead	Copper	PEX	Not Replaced	2020-06-12		No		ND	2020-06-14	2020-06-22												
5013617	B21_07	B21_07	244	S WINEBIDDLE ST	Lead	Copper	PEX	Not Replaced	2020-06-12		No		ND	2020-09-22	2020-10-05	ND	2020-09-28	2020-10-12									
5019770	B20_07	B20_07	5226	HARRISON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-15	2020-06-15	No		ND	2020-06-17	2020-06-22												
5074144	B15_01_B	B15_01_B	2600	SUNSET AVE	Lead	Copper	PEX	Not Replaced	2020-06-15		No		ND	2020-06-17	2020-06-22												
5019769	B20_07	B20_07	5228	HARRISON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-15	2020-06-15	No		1.48	2020-06-16	2020-06-22												
5002843	B18_06	B18_06	223	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		14	2020-06-23	2020-06-29	ND	2020-09-21	2020-10-12									
5073004	B15_01_B	B15_01_B	2116	DONORA ST	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		4.74	2021-04-23	2021-05-03												
5026742	B19_09	B19_09	5561	COLUMBO ST	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		ND	2020-06-15	2020-06-22												
5072952	B15_01_B	B15_01_B	85	LUELLA ST	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		ND	2020-06-16	2020-06-22												
5002408	B18_06	B18_06	2317	5TH AVE	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		ND	2020-06-17	2020-06-22												
5019952	B20_07	B20_07	123	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		1.42	2020-06-18	2020-06-22												
5022724	B20_07	B20_07	6012	BUTLER ST	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		1.22	2020-06-17	2020-06-22												
5013628	B21_07	B21_07	245	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-15	2020-06-15	No		13.1	2020-06-19	2020-06-29												
5024559	Ops		320	N GRAHAM ST	Lead	Copper	PEX	Not Replaced	2020-06-16		No	Emergency	5.8	2020-07-29	2020-08-10												
5003376	B14_03_A	B14_03_A	239	ATWOOD ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		4.46	2020-06-17	2020-06-29	ND	2020-06-17	2020-06-29									
5072968	B15_01_B	B15_01_B	921	LUELLA	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		ND	2020-06-23	2020-06-29												
5072936	B15_01_B	B15_01_B	900	MINA ST REAR	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		1.55	2020-06-24	2020-07-06	1.55	2020-06-24	2020-07-06									
5026720	B19_09	B19_09	5441	HILLCREST ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		1.3	2020-06-17	2020-06-22												
5013610	B21_07	B21_07	220	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		ND	2020-06-17	2020-06-29	ND	2020-06-22	2020-07-13									
5073010	B15_01_B	B15_01_B	2125	DONORA ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		ND	2020-07-15	2020-07-20												
5009798	B17_07_B	B17_07_B	3944	LIBERTY AVE	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		3.16	2020-06-18	2020-07-06	3.16	2020-06-18	2020-07-06									
5022727	B20_07	B20_07	6004	BUTLER ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		6.8	2020-06-17	2020-06-29												
5068768	B15_01_A	B15_01_A	7	TANK ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		ND	2020-06-19	2020-06-29												
5019887	B20_07	B20_07	5216	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-06-16	2020-06-16	No		1.32	2020-06-17	2020-06-29												
5022735	B20_07	B20_07	5728	BUTLER ST	Lead	Lead	PEX	Copper	2020-06-17	2020-06-18	No		2	2020-06-19	2020-06-29												
5024675	B19_09	B19_09	5440	HILLCREST ST	Lead	Lead	PEX	Copper	2020-06-17	2020-06-18	No		16.3	2020-06-19	2020-06-29	ND	2020-10-03	2020-10-12									
5013611	B21_07	B21_07	224	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-17	2020-06-17	No		4.22	2020-06-18	2020-06-29	1.09	2020-06-22	2020-07-13									
5002243	B18_06	B18_06	120	DE RUAD ST	Lead	Lead	PEX	Copper	2020-06-17	2020-06-17	No		ND	2020-06-19	2020-06-29												
5067831	B15_01_A	B15_01_A	1325	DIANA PL	Lead	Copper	PEX	Not Replaced	2020-06-17		No		ND	2020-06-19	2020-07-13												
5026679	B19_09	B19_09	5521	MARGARETTA ST	Lead	Lead	PEX	Copper	2020-06-17	2020-06-17	No		ND	2020-06-18	2020-06-29												
5013585	B21_07	B21_07	229	GROSS ST	Lead	Lead	PEX	Copper	2020-06-17	2020-06-17	No		1.22	2020-06-21	2020-06-29												
5023085	B20_07	B20_07	318	57TH ST	Lead	Copper	PEX	Not Replaced	2020-06-18		No		1.75	2020-06-20	2020-06-29												
5026678	B19_09	B19_09	5525	MARGARETTA ST	Lead	Lead	PEX	Copper	2020-06-18	2020-06-18	No		ND	2020-06-20	2020-06-29												
5072950	B15_01_B	B15_01_B	75	LUELLA ST	Lead	Lead	PEX	Copper	2020-06-18	2020-06-18	No		1.23	2020-06-19	2020-06-29												
5013547	B21_07	B21_07	216	GROSS ST	Lead	Lead	PEX	Copper	2020-06-18	2020-06-18	No		35.9	2020-06-19	2020-06-29												
5043538	CEP_02	CEP_02	102	CARNEGIE PL	Lead	Lead	PEX	Copper	2020-06-18	2020-06-18	No		4.4	2020-06-20	2020-06-29												
5027209	B19_09	B19_09	5468	HILLCREST ST	Lead	Lead	PEX	Copper	2020-06-18	2020-06-18	No		3.38	2020-08-03	2020-08-10												
5013584	B21_07	B21_07	231	GROSS ST	Lead	Lead	PEX	Copper	2020-06-18	2020-06-19	No		6.72	2020-06-20	2020-06-29												
5019839	B20_07	B20_07	5305	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-06-18	2020-06-18	No		ND	2020-06-19	2020-06-29												
5026676	B19_09	B19_09	5513	MARGARETTA ST	Lead	Copper	PEX	Not Replaced	2020-06-18		No		15.7	2020-06-24	2020-07-06	ND	2020-09-25	2020-10-05									
5013631	B21_07	B21_07	223	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-19	2020-06-19	No		7.98	2020-06-22	2020-07-06	7.98	2020-06-22	2020-07-06									
5019845	B20_07	B20_07	5270	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-06-19	2020-06-19	No		1.96	2020-06-23	2020-06-29												
5022668	B20_07	B20_07	5708	BUTLER ST	Lead	Lead	PEX	Copper	2020-06-19	2020-06-19	No		ND	2020-06-22	2020-06-29												
5024841	Ops	Urgent LSLR	1146	KING AVE	Lead	Lead	PEX	Copper	2020-06-22	2020-06-29	No	Emergency	1.1	2020-06-30	2020-07-13												
5024582	B19_09	B19_09	427	N GRAHAM ST	Lead	Lead	PEX	Copper	2020-06-22	2020-06-22	No		1.64	2020-06-23	2020-06-29												
5048260	CEP_02	CEP_02	5118	CHAPLAIN WAY	Lead	Lead	PEX	Copper	2020-06-22	2020-06-22	No		1.16	2020-09-21	2020-09-28												
5022441	B20_07	B20_07	5317	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-06-22	2020-06-22	No		1.85	2020-06-24	2020-06-29												
5013620	B21_07	B21_07	250	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-22	2020-06-22	No		1.42	2020-06-23	2020-07-13	2.54	2020-06-28	2020-07-13									
5013414	B21_07	B21_07	261	EDMOND ST	Lead	Lead	PEX	Copper	2020-06-22	2020-06-22	No		ND	2020-06-22	2020-06-29												
5027592	B19_09	B19_09	116	N FAIRMOUNT ST	Lead	Copper	PEX	Not Replaced	2020-06-22		No		5.56	2020-06-23	2020-06-29												
5027597	B19_09	B19_09	107	N FAIRMOUNT ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-22	2020-06-22	No	</															

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5009484	B17_07_A	B17_07_A	3921	WOOLSLAYER WAY	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-29	2020-06-29	No		2.36	2020-07-01	2020-07-13												
5078752	Ops	Urgent LSLR	1137	STANFORD RD	Lead	Lead	PEX	Copper	2020-06-30	2020-07-09	No	Emergency	5.75	2020-07-08	2020-07-28												
5013424	B21_07	B21_07	241	EDMOND ST	Lead	Lead	PEX	Copper	2020-06-30	2020-06-30	No		ND	2020-07-02	2020-07-13												
5013579	B21_07	B21_07	249	GROSS ST	Lead	Lead	PEX	Copper	2020-06-30	2020-06-30	No		3.14	2020-07-02	2020-07-13												
5013384	B21_07	B21_07	228	EDMOND ST	Lead	Lead	PEX	Copper	2020-06-30	2020-06-30	No		5.43	2020-07-01	2020-07-13												
5009504	B17_07_A	B17_07_A	3712	PENN AVE	Lead	Lead	PEX	Copper	2020-06-30	2020-06-30	No		ND	2020-07-01	2020-07-13												
5014149	B21_07	B21_07	341	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-30	2020-06-30	No		3.8	2020-07-01	2020-07-13												
5013390	B21_07	B21_07	244	EDMOND ST	Lead	Lead	PEX	Copper	2020-07-01	2020-07-01	No		1.15	2020-07-13	2020-07-20												
5014152	B21_07	B21_07	327	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-01	2020-07-01	No		3.03	2020-08-25	2020-09-09												
5056962	SDWMR_2020A	SDWMR_2020A	617	INDUSTRY ST	Lead	Lead	PEX	Copper	2020-07-01	2020-07-01	No		ND	2020-07-06	2020-07-21												
5022500	B20_07	B20_07	5435	DRESDEN WAY	Lead	Lead	PEX	Copper	2020-07-01	2020-07-01	No		1.85	2020-07-02	2020-07-13												
5013557	B21_07	B21_07	244	GROSS ST	Lead	Lead	PEX	Copper	2020-07-01	2020-07-01	No		3.76	2020-09-09	2020-09-21												
5026623	B19_09	B19_09	527	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-07-02	2020-07-02	No		2.14	2020-07-28	2020-08-24												
5013422	B21_07	B21_07	245	EDMOND ST	Lead	Lead	PEX	Copper	2020-07-02	2020-07-02	No		1.99	2020-07-03	2020-07-13												
5013553	B21_07	B21_07	234	GROSS ST	Lead	Lead	PEX	Copper	2020-07-02	2020-07-02	No		17.9	2020-07-02	2020-07-13												
5014145	B21_07	B21_07	353	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-02	2020-07-02	No		3.13	2020-07-08	2020-07-20												
5044646	Urgent LSLR	Urgent LSLR	917	S BRADDOCK AVE	Lead	Copper	PEX	Not Replaced	2020-07-02		No	Emergency	2.68	2020-07-08	2020-07-20												
5013352	B21_07	B21_07	211	PEARL ST	Lead	Lead	PEX	Copper	2020-07-06	2020-07-06	No		24	2020-07-07	2020-07-20	2.8	2020-10-09	2020-10-19									
5014133	B21_07	B21_07	356	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-06	2020-07-07	No		87	2020-07-09	2020-07-20	10.1	2021-05-25	2021-06-14									
5009285	B17_07_A	B17_07_A	3523	PENN AVE	Lead	Lead	PEX	Copper	2020-07-06	2020-07-06	No		3.2	2020-07-07	2020-07-20												
5056973	SDWMR_2020A	SDWMR_2020A	628	INDUSTRY ST	Lead	Lead	PEX	Copper	2020-07-06	2020-07-06	No		1.5	2020-07-08	2020-07-13												
5026651	B19_09	B19_09	524	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-07-06	2020-07-06	No		1.58	2020-07-07	2020-07-13												
5009481	B17_07_A	B17_07_A	3929.5	WOOLSLAYER WAY	Lead	Lead	PEX	Copper	2020-07-07	2020-07-07	No		1.69	2020-07-10	2020-07-20												
5014143	B21_07	B21_07	361	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-07	2020-07-07	No		1.44	2020-07-11	2020-07-20												
5056314	CEP_02	CEP_02	407	EUREKA ST	Lead	Lead	PEX	Copper	2020-07-07	2020-07-07	No		2.63	2020-07-18	2020-07-28												
5022523	B20_07	B20_07	5326	BUTLER ST	Lead	Copper	PEX	Not Replaced	2020-07-07		No		2.5	2020-07-08	2020-07-20	4.87	2020-07-08	2020-07-20									
5013562	B21_07	B21_07	258	GROSS ST	Lead	Lead	PEX	Copper	2020-07-07	2020-07-07	No		10.2	2020-07-08	2020-07-20	2.51	2020-07-08	2020-07-20									
5056961	SDWMR_2020A	SDWMR_2020A	614	MANTON WAY	Lead	Lead	PEX	Copper	2020-07-07	2020-07-07	No		ND	2020-07-10	2020-07-21												
5013380	B21_07	B21_07	220	EDMOND ST	Lead	Lead	PEX	Copper	2020-07-08	2020-07-08	No		4.64	2020-07-09	2020-07-20												
5013347	B21_07	B21_07	219	PEARL ST	Lead	Lead	PEX	Copper	2020-07-08	2020-07-08	No		143	2020-07-10	2020-07-20	62.7	2020-07-21	2020-07-28	37.9	2020-07-29	2020-08-10	41.8	2021-05-04	2021-05-17	4.16	2021-07-30	2021-08-16
5014130	B21_07	B21_07	348	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-08	2020-07-08	No		2.07	2020-07-12	2020-07-20												
5022515	B20_07	B20_07	5400	BUTLER ST	Lead	Copper	PEX	Not Replaced	2020-07-08		No		ND	2020-07-09	2020-07-20												
5056976	SDWMR_2020A	SDWMR_2020A	612	INDUSTRY ST	Lead	PEX	PEX	Not Replaced	2020-07-08		No		2.57	2020-07-09	2020-07-21												
5013591	B21_07	B21_07	209	GROSS ST	Lead	Lead	PEX	Copper	2020-07-08	2020-07-08	No		2.39	2020-07-10	2020-07-20												
5013382	B21_07	B21_07	224	EDMOND ST	Lead	Copper	PEX	Not Replaced	2020-07-09		No		4.94	2020-07-11	2020-07-20												
5014142	B21_07	B21_07	365	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-09	2020-07-09	No		7.01	2020-07-15	2020-07-20												
5022542	B20_07	B20_07	5300	BUTLER ST	Lead	Copper	PEX	Not Replaced	2020-07-09		No		ND	2020-07-27	2020-08-05												
5020134	B20_07	B20_07	606	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-07-09	2020-07-09	No		6.43	2020-07-11	2020-07-20												
5024631	B19_09	B19_09	5421	BROAD ST	Lead	Lead	PEX	Copper	2020-07-09	2020-07-09	No		2.99	2020-07-10	2020-07-20												
5013350	B21_07	B21_07	215	PEARL	Lead	Lead	PEX	Copper	2020-07-09	2020-07-09	No		4.07	2020-07-10	2020-07-20	8.67	2020-07-10	2020-07-20									
5013423	B21_07	B21_07	243	EDMOND ST	Lead	Lead	PEX	Copper	2020-07-10	2020-07-10	No		ND	2020-07-11	2020-07-20												
5013353	B21_07	B21_07	213	PEARL ST	Lead	Lead	PEX	Copper	2020-07-10	2020-07-10	No		1.97	2020-07-11	2020-07-20												
5014141	B21_07	B21_07	369	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-10	2020-07-10	No		ND	2020-07-14	2020-07-20												
5013560	B21_07	B21_07	254	GROSS ST	Lead	Copper	PEX	Not Replaced	2020-07-10		No		2.95	2020-07-11	2020-07-20												
5019385	CEP_02	CEP_02	5306	ROSETTA ST	Lead	Copper	PEX	Not Replaced	2020-07-10		No		5.85	2020-07-13	2020-07-20												
5035354	Urgent LSLR	Urgent LSLR	5521	DUNMOYLE AVE	Lead	PEX	PEX	Not Replaced	2020-07-10		No	Emergency	ND	2020-07-27	2020-08-05												
1000044	B20_07	B20_07	5235	BUTLER ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-07-13	2020-07-13	No		ND	2020-07-14	2020-08-05	ND	2020-07-28	2020-08-05									
5013381	B21_07	B21_07	222	EDMOND ST	Lead	Lead	PEX	Copper	2020-07-13	2020-07-13	No		3.05	2020-07-16	2020-07-28												
5017791	B21_07	B21_07	214	PEARL ST	Lead	Lead	PEX	Copper	2020-07-13	2020-07-13	No		4.89	2020-07-15	2020-07-28												
5013578	B21_07	B21_07	251	GROSS ST	Lead	Lead	PEX	Copper	2020-07-13	2020-07-13	No		5.18	2020-07-16	2020-07-28												
5014131	B21_07	B21_07	350	S WINEBIDDLE ST	Lead	Copper	PEX	Not Replaced	2020-07-13		No		4.71	2020-08-03	2020-08-17												
5027590	B19_09	B19_09	5511	DUNKIRK ST	Lead	Lead	PEX	Copper	2020-07-13	2020-07-13	No		ND	2020-07-14	2020-07-28												
5019749	B20_07	B20_07	5231-5235	BUTLER ST	Lead	Copper	PEX	Not Replaced	2020-07-14		No		ND	2020-07-16	2020-08-05												
5013304	B21_07	B21_07	116	EDMOND ST	Lead	Copper	PEX	Not Replaced	2020-07-14		No		ND	2020-07-18	2020-07-28												
5013348	B21_07	B21_07	217.5	PEARL ST	Lead	Lead	PEX	Copper	2020-07-14	2020-07-14	No		45.3	2020-07-15	2020-07-28												
5026709	B19_09	B19_09	423	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-07-14	2020-07-15	No		7.45	2020-07-16	2020-07-20												
5026708	B19_09	B19_09	421	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-07-14	2020-07-14	No		ND	2020-07-15	2020-07-28												
5024689	B19_09	B19_09	5445	ROSETTA ST	Lead	Lead	PEX	Copper																			

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5018859	CEP_02	CEP_02	421	N MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-28	2020-08-28	No		3.66	2020-08-30	2020-09-09												
5066209	B22_01	B22_01	1200	BOYLE ST	Lead	Copper	PEX	Not Replaced	2020-08-31		No		2.83	2020-09-02	2020-09-09												
5065945	B22_01	B22_01	1202	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-08-31		No		4.22	2020-09-01	2020-09-09												
5019747	B20_07	B20_07	5229	BUTLER ST	Lead	Lead	PEX	Copper	2020-08-31	2020-08-31	No		7.01	2020-09-02	2020-09-09												
5014154	B21_07	B21_07	305	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-08-31	2020-08-31	No		33.6	2020-08-31	2020-09-09												
5065811	B22_01	B22_01	1237	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-08-31		No		ND	2020-09-01	2020-09-09												
5078008	SDWMR_2019	SDWMR_2019	3510	MASSACHUSETTS AVE	Lead	Copper	PEX	Not Replaced	2020-09-01		No		ND	2020-09-01	2020-09-09	2.88	2020-09-02	2020-09-09									
5078005	SDWMR_2019	SDWMR_2019	3518	MASSACHUSETTS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-01	2020-09-01	No		7.22	2020-09-02	2020-09-09												
5023022	B20_07	B20_07	5612	DONSON WAY	Lead	Copper	PEX	Not Replaced	2020-09-01		No		1.42	2020-10-13	2020-11-02												
5066368	B22_01	B22_01	1114	RESACA PL	Lead	Lead	PEX	Copper	2020-09-01	2020-09-01	No		2.37	2020-09-03	2020-09-09												
5065807	B22_01	B22_01	1229	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-09-01		No		1.46	2020-09-04	2020-09-14												
5065929	B22_01	B22_01	1230	RESACA PL	Lead	Lead	PEX	Copper	2020-09-01	2020-09-01	No		1.21	2020-09-03	2020-09-09												
5013445	B21_07	B21_07	210	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-09-02	2020-09-02	No		27.8	2020-09-20	2020-10-05												
5066213	B22_01	B22_01	1207	LORAIN ST	Lead	Lead	PEX	Copper	2020-09-02	2020-09-02	No		ND	2020-09-04	2020-09-14												
5065810	B22_01	B22_01	1235	RESACA PL	Lead	Lead	PEX	Copper	2020-09-02	2020-09-02	No		1.48	2020-09-05	2020-09-14												
5065925	B22_01	B22_01	1236	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-09-02		No		3.25	2020-09-30	2020-10-12												
5022352	Ops	Urgent LSLR	914	HIGHVIEW ST	Lead	Lead	PEX	Copper	2020-09-03	2020-09-10	No	Emergency	1.86	2020-09-24	2020-10-12												
5066218	B22_01	B22_01	1214	BOYLE ST	Lead	Lead	PEX	Copper	2020-09-03	2020-09-03	No		1.25	2020-09-08	2020-09-21												
5055288	SDWMR_2020A	SDWMR_2020A	31	ST THOMAS ST	Lead	Lead	PEX	Copper	2020-09-03	2020-09-03	No		5.57	2020-09-07	2020-09-14												
5065927	B22_01	B22_01	1232	RESACA PL	Lead	Lead	PEX	Copper	2020-09-03	2020-09-03	No		3.1	2020-09-04	2020-09-14												
5065805	B22_01	B22_01	1225	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-09-03		No		ND	2020-09-05	2020-09-21												
5066215	B22_01	B22_01	1209	LORAIN ST	Lead	Lead	PEX	Copper	2020-09-03	2020-09-03	No		1.55	2020-09-22	2020-09-28												
5025371	Ops	Urgent LSLR	5815	ELGIN ST	Lead	Lead	PEX	Copper	2020-09-04	2020-09-14	No	Emergency	9.88	2020-09-14	2020-10-05												
5042625	Ops	Urgent LSLR	2057	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2020-09-04	2020-09-22	No	Emergency	ND	2020-09-23	2020-10-05												
5023021	B20_07	B20_07	5614	DONSON WAY	Lead	Lead	PEX	Copper	2020-09-04	2020-09-04	No		ND	2020-10-18	2020-11-02												
5070832	B22_01	B22_01	1413	PORTERFIELD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-08	2020-09-08	No		6.12	2020-10-01	2020-10-12												
5000643	B16_06	B16_06	312	GIST ST	Lead	Copper	PEX	Not Replaced	2020-09-08		No		ND	2020-11-14	2020-11-30												
5065930	B22_01	B22_01	1228	RESACA PL	Lead Tailpiece	Lead	PEX	Copper	2020-09-08	2020-09-08	No		1.02	2020-09-10	2020-09-21												
5065802	B22_01	B22_01	1219	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-09-08		No		14.7	2020-09-11	2020-09-21												
5066071	B22_01	B22_01	1109	ARCH ST	Lead	Copper	PEX	Not Replaced	2020-09-09		No		ND	2020-09-10	2020-09-21												
5070833	B22_01	B22_01	1415	PORTERFIELD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-09	2020-09-09	No		75.7	2020-09-10	2020-09-21	5.6	2020-10-06	2020-10-19									
5070838	B22_01	B22_01	1425	PORTERFIELD ST	Lead	Copper	PEX	Not Replaced	2020-09-09		No		2.78	2020-09-10	2020-09-21												
5066078	B22_01	B22_01	1211	ARCH ST	Lead	Lead	PEX	Copper	2020-09-09	2020-09-09	No		ND	2020-11-25	2020-12-14												
5022572	B20_07	B20_07	5403	BERLIN WAY	Lead	Copper	PEX	Not Replaced	2020-09-09		No		ND	2020-09-10	2020-09-21												
5016493	Urgent LSLR	Urgent LSLR	215	MAIN ST	Lead	Lead	PEX	Copper	2020-09-09	2020-09-09	No	Emergency	ND	2020-09-13	2020-09-21												
5065944	B22_01	B22_01	1204	RESACA PL	Lead	Lead	PEX	Copper	2020-09-10	2020-09-10	No		ND	2020-09-10	2020-09-21												
5065795	B22_01	B22_01	1205	RESACA PL	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-10	2020-09-10	No		ND	2020-09-10	2020-09-21												
5066021	B22_01	B22_01	1327	VETO ST	Lead	Lead	PEX	Copper	2020-09-10	2020-09-10	No		4.09	2020-09-15	2020-09-21												
5078004	SDWMR_2019	SDWMR_2019	3522	MASSACHUSETTS AVE	Lead	Lead	PEX	Copper	2020-09-10	2020-09-10	No		1.43	2020-09-11	2020-09-23												
5065936	B22_01	B22_01	1216	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-09-10		No		ND	2020-09-11	2020-09-21												
5066024	B22_01	B22_01	1321	VETO	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-10	2020-09-10	No		11	2020-09-11	2020-09-21	ND	2020-12-14	2021-01-06									
5000520	B16_06	B16_06	113	GIST ST	Lead	Copper	PEX	Not Replaced	2020-09-11		No		ND	2020-09-12	2020-09-21												
5027276	CEP_03	CEP_03	324	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-09-11	2020-09-11	No		2.77	2020-09-14	2020-09-21												
5078002	SDWMR_2019	SDWMR_2019	3526	MASSACHUSETTS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-11	2020-09-11	No		ND	2020-12-09	2020-12-21												
5066127	B22_01	B22_01	1216	ARCH ST	Lead	Lead	PEX	Copper	2020-09-11	2020-09-11	No		7.16	2020-09-12	2020-09-21												
5066031	B22_01	B22_01	1300	SHERMAN AVE	Lead	Copper	PEX	Not Replaced	2020-09-11		No		1.62	2020-09-14	2020-09-21												
5013331	B21_07	B21_07	4922	PENN AVE	Lead	Copper	PEX	Not Replaced	2020-09-12		No		1.73	2020-09-16	2020-09-21												
5066010	B22_01	B22_01	1225	SHERMAN AVE	Lead	Copper	PEX	Not Replaced	2020-09-14		No		ND	2020-09-26	2020-10-12												
5028299	CEP_03	CEP_03	6336	JACKSON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-14	2020-09-14	No		ND	2020-09-18	2020-09-28												
5027271	CEP_03	CEP_03	304	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-09-14	2020-09-14	No		1.17	2020-09-18	2020-09-28												
5066084	B22_01	B22_01	1220	VETO ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-14	2020-09-14	No		ND	2020-09-21	2020-09-28												
5077707	SDWMR_2019	SDWMR_2019	3611	MASSACHUSETTS AVE	Lead	Lead	PEX	Copper	2020-09-14	2020-09-14	No		3.77	2020-09-16	2020-09-23												
5066037	B22_01	B22_01	1225	VETO ST	Lead	Copper	PEX	Not Replaced	2020-09-14		No		ND	2020-09-15	2020-09-21												
5077731	SDWMR_2019	SDWMR_2019	3616	MASSACHUSETTS AVE	Lead	Copper	PEX	Not Replaced	2020-09-14		No		ND	2020-11-16	2020-11-23												
5066019	B22_01	B22_01	1311	SHERMAN AVE	Lead	Lead	PEX	Copper	2020-09-14	2020-09-14	No		ND	2020-09-16	2020-09-21												
5077995	SDWMR_2019	SDWMR_2019	3540	MASSACHUSETTS AVE	Lead	Lead	PEX	Copper	2020-09-14	2020-09-14	No		6.05	2020-09-15	2020-09-23												
5019349	B21_07	B21_07	5005	PENN AVE	Lead	Copper	PEX	Not Replaced	2020-09-15		No		1.05	2020-09-16	2020-09-21												
5025750	CEP_03	CEP_03	5624	JACKSON ST	Lead	Lead	PEX	Copper	2020-09-15	2020-09-15	No		1.73	2020-09-15	2020-09-21												
5066107	B22_01	B22_01	1327	REDDOUR ST	Lead	Lead	PEX	Copper	2020-09-15	2020																	

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5065948	B22_01	B22_01	1200	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-09-22		No		ND	2020-09-23	2020-10-05												
5065869	B22_01	B22_01	613	N TAYLOR AVE	Lead	Copper	PEX	Not Replaced	2020-09-23		No		5.45	2020-09-24	2020-10-05												
5052031	CEP_03	CEP_03	2305	PATTERSON ST	Lead	Lead	PEX	Copper	2020-09-23	2020-09-23	No		ND	2020-09-25	2020-10-19												
5000647	B16_06	B16_06	311	GIST ST	Lead	Lead	PEX	Copper	2020-09-23	2020-09-23	No		5.26	2020-09-25	2020-10-05												
5065757	B22_01	B22_01	708	N TAYLOR AVE	Lead	Lead	PEX	Copper	2020-09-23	2020-09-23	No		24	2020-09-25	2020-10-05												
5031779	CEP_03	CEP_03	1330	GROTTO ST	Lead	Lead	PEX	Copper	2020-09-23	2020-09-23	No		4.8	2020-09-24	2020-10-19												
5065768	B22_01	B22_01	610	N TAYLOR AVE	Lead	Lead	PEX	Copper	2020-09-24	2020-09-24	No		4.78	2020-09-26	2020-10-05												
5065862	B22_01	B22_01	605	N TAYLOR AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-24	2020-09-24	No		ND	2020-09-27	2020-10-05												
5066228	B22_01	B22_01	1306	BOYLE ST	Lead	Copper	PEX	Not Replaced	2020-09-24		No		1.01	2020-09-30	2020-10-12												
5054923	SDWMR_2020A	SDWMR_2020A	20	MAGDALENE ST	Copper	Lead	PEX	Copper	2020-09-24	2020-09-24	No		ND	2021-01-19													
5014188	CEP_03	CEP_03	368	W PENN PL	Lead	Lead	PEX	Copper	2020-09-25	2020-09-25	No		18.9	2020-09-27	2020-10-19	11.2	2021-02-01	2021-02-08									
5019682	B21_07	B21_07	5209	PENN AVE	Lead	Lead	PEX	Copper	2020-09-25	2020-09-25	No		ND	2020-11-16	2020-11-23												
5044562	Ops	Urgent LSLR	223	HOMESTEAD ST	Copper	Lead	PEX	Copper	2020-09-28	2020-10-02	No	Emergency	1.27	2020-10-03	2020-10-12												
5065760	B22_01	B22_01	702	N TAYLOR AVE	Lead	Copper	PEX	Not Replaced	2020-09-28		No		71.2	2020-09-29	2020-10-12	9.72	2020-10-10	2020-10-19									
5076880	CEP_03	CEP_03	1251	SUPERIOR AVE	Lead	Lead	PEX	Copper	2020-09-28	2020-09-28	No		7.48	2020-09-30	2020-10-19												
5000619	B16_06	B16_06	1726	TUSTIN ST	Lead	Lead	PEX	Copper	2020-09-28	2020-09-28	No		ND	2020-10-01	2020-10-12												
5065829	B22_01	B22_01	1236	MONTREY ST	Lead	Copper	PEX	Not Replaced	2020-09-29		No		8.58	2020-09-30	2020-10-12												
5077597	CEP_03	CEP_03	3575	ELMHURST AVE	Lead	Lead	PEX	Copper	2020-09-29	2020-09-29	No		10.8	2020-10-01	2020-10-19	1.06	2021-03-13	2021-03-22									
5055100	SDWMR_2020A	SDWMR_2020A	60	MAGDALENA ST	Lead	PEX	PEX	Not Replaced	2020-09-29		No		ND	2020-09-30	2020-10-13												
5050866	CEP_03	CEP_03	2325	HARCUM WAY	Lead	Lead	PEX	Copper	2020-09-29	2020-09-29	No		ND	2020-11-28	2020-12-08												
5078090	SDWMR_2019	SDWMR_2019	1558	HUBBARD ST	PEX	Lead	PEX	Copper	2020-09-29	2020-09-29	No		1.43	2020-10-02	2020-10-13												
5027188	SDWMR_2020B	SDWMR_2020B	814	N SHERIDAN AVE	Lead	Lead	PEX	Copper	2020-09-29	2020-09-29	No		1.77	2020-10-01	2020-10-13												
5019684	B21_07	B21_07	5213	PENN AVE	Lead	Lead	PEX	Copper	2020-09-30	2020-09-30	No		ND	2020-10-06	2020-10-19												
5065784	B22_01	B22_01	508	N TAYLOR AVE	Lead	Lead	PEX	Copper	2020-09-30	2020-09-30	No		1.2	2020-10-02	2020-10-12												
5065785	B22_01	B22_01	506	N TAYLOR AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-09-30	2020-09-30	No		2.55	2020-10-01	2020-10-12												
5000612	B16_06	B16_06	1718	TUSTIN ST	Lead	Lead	PEX	Copper	2020-09-30	2020-09-30	No		ND	2020-10-03	2020-10-12												
5027193	SDWMR_2020B	SDWMR_2020B	815	N SHERIDAN AVE	Copper	Lead	PEX	Copper	2020-09-30	2020-09-30	No		82.5	2020-10-02	2020-10-13	4.02	2020-10-14	2020-11-03									
5066110	B22_01	B22_01	110	MCNARY BLVD	Lead	Lead	PEX	Copper	2020-09-30	2020-09-30	No		ND	2020-10-02	2020-10-12												
5061947	Urgent LSLR	Urgent LSLR	53	MCKNIGHT ST	Lead	Lead	PEX	Copper	2020-10-01	2020-10-01	No	Emergency	4.48	2020-12-07	2020-12-29												
5066599	CEP_03	CEP_03	1108	JAMES ST	Lead	Lead	PEX	Copper	2020-10-01	2020-10-01	No		1.75	2020-11-13	2020-11-23												
5000629	B16_06	B16_06	1812	TUSTIN ST	Lead	Lead	PEX	Copper	2020-10-01	2020-10-01	No		4.02	2020-10-22	2020-11-09												
5065792	B22_01	B22_01	424	N TAYLOR AVE	Lead	Lead	PEX	Copper	2020-10-01	2020-10-01	No		ND	2020-10-02	2020-10-12												
5122127	CEP_03	CEP_03	139	CLARA STREET	Lead	Lead	PEX	Copper	2020-10-05	2020-10-05	No		ND	2020-10-06	2020-10-19												
5000575	B16_06	B16_06	36	MILTENBERGER ST	Lead	Copper	PEX	Not Replaced	2020-10-05		No		ND	2020-10-05	2020-10-12												
5065714	B22_01	B22_01	913	W NORTH AVE	Lead	Lead	PEX	Copper	2020-10-05	2020-10-05	No		ND	2020-10-05	2020-10-12												
5000614	B16_06	B16_06	1723	LOCUST ST	Lead	Lead	PEX	Copper	2020-10-05	2020-10-05	No		2.73	2020-10-05	2020-10-12												
5065772	B22_01	B22_01	602	N TAYLOR AVE	Lead	Copper	PEX	Not Replaced	2020-10-05		No		ND	2020-10-06	2020-10-12												
5065915	B22_01	B22_01	412	N TAYLOR AVE	Lead	Copper	PEX	Not Replaced	2020-10-05		No		1.18	2020-10-06	2020-10-12												
5063265	CEP_02	CEP_02	1025	UVILLA ST	Lead	Copper	PEX	Not Replaced	2020-10-05		No		4.11	2020-10-06	2020-10-12												
5065713	B22_01	B22_01	911	W NORTH AVE	Lead	Copper	PEX	Not Replaced	2020-10-05		No		ND	2020-10-22	2020-11-02												
5010226	Ops	Urgent LSLR	4789	WALLINGFORD ST	Lead	Lead	PEX	Copper	2020-10-06	2020-10-09	No	Emergency	5.07	2020-10-12	2020-10-19												
5000607	B16_06	B16_06	1707	LOCUST ST	Lead	Lead	PEX	Copper	2020-10-06	2020-10-06	No		1.96	2020-10-07	2020-10-12												
5065914	B22_01	B22_01	410	N TAYLOR AVE	Lead	Lead	PEX	Copper	2020-10-06	2020-10-06	No		1.04	2020-10-07	2020-10-12												
5026538	SDWMR_2020B	SDWMR_2020B	823	N SHERIDAN AVE	Lead	Lead	PEX	Copper	2020-10-06	2020-10-06	No		ND	2020-10-08	2020-10-20												
5065912	B22_01	B22_01	406	N TAYLOR AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-10-06	2020-10-06	No		ND	2020-10-09	2020-10-19												
5078117	SDWMR_2019	SDWMR_2019	1419	HUBBARD ST	Lead	Lead	PEX	Copper	2020-10-06	2020-10-06	No		ND	2020-10-11	2020-10-20												
5065911	B22_01	B22_01	404	N TAYLOR AVE	Lead	Copper	PEX	Not Replaced	2020-10-07		No		3.05	2020-10-08	2020-10-19												
5078309	CEP_03	CEP_03	3413	FLEMING AVE	Lead	Copper	PEX	Not Replaced	2020-10-07		No		41.9	2020-10-08	2020-10-19	ND	2021-01-06	2021-01-19									
5080952	CEP_03	CEP_03	1257	TERMON AVE	Lead	Lead	PEX	Copper	2020-10-07	2020-10-07	No		1.06	2020-10-09	2020-10-19												
5078082	SDWMR_2019	SDWMR_2019	1534	HUBBARD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-10-08	2020-10-08	No		42.6	2020-10-09	2020-11-09	1.24	2021-05-22	2021-06-02									
5065890	B22_01	B22_01	1227	BUENA VISTA ST	Lead	Copper	PEX	Not Replaced	2020-10-08		No		ND	2020-10-10	2020-11-09												
5002906	CEP_03	CEP_03	218	CHESTERFIELD RD	Lead	Lead	PEX	Copper	2020-10-08	2020-10-08	No		2.09	2020-10-10	2020-11-09												
5000665	B16_06	B16_06	1835	BLVD OF THE ALLIES	Lead	Copper	PEX	Not Replaced	2020-10-08		No		4.87	2020-10-08	2020-10-19	2.23	2020-10-12	2020-10-19									
5000717	B16_06	B16_06	16	SENECA ST	Lead	Lead	PEX	Copper	2020-10-08	2020-10-08	No		2.04	2020-10-09	2020-11-09												
5002905	CEP_03	CEP_03	216	CHESTERFIELD	Lead	Lead	PEX	Copper	2020-10-08	2020-10-08	No		4.44	2020-10-10	2020-11-09												
5003074	CEP_03	CEP_03	223	CHESTERFIELD RD	Lead	Lead	PEX	Copper	2020-10-09	2020-10-09	No		1.03	2020-10-13	2020-11-09												
5026545	SDWMR_2020B	SDWMR_2020B	830	N SHERIDAN AVE	Lead	Lead	PEX	Copper	2020-10-09	2020-10-09	No		1.76	2020-10-12	2020-10-20												
5003075	CEP_03	CEP_03	221	CHESTERFIELD RD	Lead	Lead	PEX	Copper	2020-10-09	2020-10-09	No		11.8	2020-10-09	2020-1												

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5039096	SDWMMR_2020A	SDWMMR_2020A	5832	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-19	2021-01-19	No		2.04	2021-01-19													
5027497	Urgent LSLR	Urgent LSLR	508	N SHERIDAN AVE	Lead	Lead	PEX	Copper	2021-01-19	2021-01-19	No	Emergency	2.45	2021-01-20	2021-02-02												
5039100	SDWMMR_2020A	SDWMMR_2020A	5850	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-20	2021-01-20	No		45.7	2021-01-21		ND	2021-04-29	2021-05-10									
5040051	SDWMMR_2020A	SDWMMR_2020A	3310	SHADY AVENUE EXT	Lead	Lead	PEX	Copper	2021-01-20	2021-01-20	No		ND	2021-01-25													
5026492	CEP_03	CEP_03	817	FARRAGUT ST	Lead	Lead	PEX	Copper	2021-01-21	2021-01-21	No		6.94	2021-03-14	2021-03-22												
5039098	SDWMMR_2020A	SDWMMR_2020A	5840	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-21	2021-01-21	No		ND	2021-12-31	2022-01-10												
5014760	Ops	Urgent LSLR	4911	SCIOA ST	Lead	Lead	PEX	Copper	2021-01-22	2021-01-23	No	Emergency	178	2021-01-24	2021-02-16	ND	2021-01-25	2021-02-16									
5026493	Urgent LSLR	Urgent LSLR	815	FARRAGUT ST	Lead	Lead	PEX	Copper	2021-01-22	2021-01-22	No	Emergency	ND	2021-01-28	2021-02-08												
5039052	SDWMMR_2020A	SDWMMR_2020A	5806	MORROWFIELD AVE	Copper	Lead	PEX	Copper	2021-01-22	2021-01-22	No		ND	2021-01-31	2021-02-16												
5039072	SDWMMR_2020A	SDWMMR_2020A	5846	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-01-22	2021-01-22	No		2.94	2021-01-23													
5039069	SDWMMR_2020A	SDWMMR_2020A	5852	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-01-25	2021-01-25	No		3.28	2021-01-26													
5039064	SDWMMR_2020A	SDWMMR_2020A	5872	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-01-25	2021-01-25	No		8.64	2021-01-26													
5026495	Urgent LSLR	Urgent LSLR	811	FARRAGUT ST	Lead	Lead	PEX	Copper	2021-01-25	2021-01-25	No	Emergency	ND	2021-03-22	2021-03-29												
5039089	SDWMMR_2020A	SDWMMR_2020A	5831	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-25	2021-01-25	No		ND	2021-02-20	2021-03-03												
5039063	SDWMMR_2020A	SDWMMR_2020A	5878	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-01-26	2021-01-26	No		ND	2021-05-04	2021-05-25												
5039061	SDWMMR_2020A	SDWMMR_2020A	5845	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-01-26	2021-01-26	No		ND	2021-03-23	2021-05-17												
5029971	SDWMMR_2020B	SDWMMR_2020B	6917	ODESSA PL	Lead	Copper	PEX	Copper	2021-01-26	2021-01-26	No		7.81	2021-07-05	2021-08-09												
5004720	CEP_03	CEP_03	400	CATO ST	Lead	Lead	PEX	Copper	2021-01-26	2021-01-26	No		73.8	2021-01-27	2021-02-09	ND	2021-05-24	2021-06-14									
5023190	CEP_03	CEP_03	1139	DOWNLOOK ST	Lead Tailpiece	Lead	PEX	Copper	2021-01-27	2021-01-27	No		3.92	2021-01-28													
5039049	SDWMMR_2020A	SDWMMR_2020A	5816	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-27	2021-01-27	No		1.38	2021-01-29													
5008571	CEP_03	CEP_03	3415	FLAVIAN ST	Lead	Lead	PEX	Copper	2021-01-27	2021-01-27	No		2.29	2021-02-03	2021-02-16												
5039060	SDWMMR_2020A	SDWMMR_2020A	5841	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-01-28	2021-01-28	No		ND	2021-01-30													
5025695	CEP_03	CEP_03	5512	JACKSON ST	Lead	Lead	PEX	Copper	2021-01-28	2021-01-28	No		10.1	2021-01-31	2021-02-08												
5038691	CEP_03	CEP_03	5673	MELVIN ST	Lead	Lead	PEX	Copper	2021-01-29	2021-01-29	No		2.54	2021-02-04	2021-02-08												
5037881	CEP_03	CEP_03	6340	DOUGLAS ST	Lead	Lead	PEX	Copper	2021-01-29	2021-01-29	No		ND	2021-01-29	2021-03-22												
5031807	SDWMMR_2020B	SDWMMR_2020B	7261	LEMINGTON AVE	Copper	Lead	PEX	Copper	2021-02-02	2021-02-02	No		13.6	2021-02-03		ND	2021-05-03	2021-05-25									
5031817	SDWMMR_2020B	SDWMMR_2020B	7228	LEMINGTON AVE	Lead	Lead	PEX	Copper	2021-02-02	2021-02-02	No		1.14	2021-02-17	2021-02-23												
5016306	Ops	Urgent LSLR	4629	CARLTON ST	Lead	Lead	PEX	Copper	2021-02-03	2021-02-08	No	Emergency	ND	2021-02-13	2021-02-23												
5017482	CEP_03	CEP_03	395	40TH ST	Lead	Lead	PEX	Copper	2021-02-03	2021-02-03	No		5.65	2021-02-06	2021-02-16												
5031183	CEP_03	CEP_03	1629	WESTMORELAND ST	Lead	Lead	PEX	Copper	2021-02-03	2021-02-03	No		1.34	2021-02-25	2021-03-03												
5031181	CEP_03	CEP_03	1621	WESTMORELAND ST	Lead	Lead	PEX	Copper	2021-02-04	2021-02-04	No		ND	2021-03-27	2021-04-26												
5027186	Urgent LSLR	Urgent LSLR	6103	STANTON AVE	Lead	Lead	PEX	Copper	2021-02-05	2021-02-06	No	Emergency	1.53	2021-02-07	2021-02-23												
5047839	SDWMMR_2019	SDWMMR_2019	7	TECUMSEH ST	Lead	Lead	PEX	Copper	2021-02-08	2021-02-08	No		3.46	2021-04-14	2021-05-03												
5047840	SDWMMR_2019	SDWMMR_2019	44570	TECUMSEH	Lead	Lead	PEX	Copper	2021-02-08	2021-02-08	No		ND	2021-02-11	2021-03-03												
5031798	SDWMMR_2020B	SDWMMR_2020B	7225	LEMINGTON AVE	Copper	Lead	PEX	Copper	2021-02-08	2021-02-08	No		4.66	2021-02-09	2021-02-23												
5031819	SDWMMR_2020B	SDWMMR_2020B	7218	LEMINGTON AVE	Lead	Lead	PEX	Copper	2021-02-08	2021-02-08	No		ND	2021-03-29	2021-04-26												
5039091	SDWMMR_2020A	SDWMMR_2020A	5819	MORROWFIELD AVE	Copper	Lead	PEX	Copper	2021-02-08	2021-02-08	No		1.73	2021-02-09	2021-02-16												
5047944	SDWMMR_2019	SDWMMR_2019	9	TECUMSEH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-02-08	2021-02-08	No		ND	2021-03-28													
5031851	SDWMMR_2020B	SDWMMR_2020B	7291	LEMINGTON AVE	Lead	Lead	PEX	Copper	2021-02-09	2021-02-09	No		1.31	2021-02-12	2021-02-23												
5039117	SDWMMR_2020A	SDWMMR_2020A	5886	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-02-10	2021-02-10	No		ND	2021-03-29													
5055652	Ops	Urgent LSLR	446	IBERIA ST	Lead	Lead	PEX	Copper	2021-02-10	2021-02-12	No	Emergency	2.02	2021-02-13	2021-03-03												
5048363	SDWMMR_2019	SDWMMR_2019	5141	LANGHORN ST	Lead	Copper	PEX	Not Replaced	2021-02-11		No		1.12	2021-03-10	2021-04-05												
5048370	SDWMMR_2019	SDWMMR_2019	5125	LANGHORN ST	Lead	Lead	PEX	Copper	2021-02-12	2021-02-12	No		5.23	2021-02-13	2021-02-23												
5048379	SDWMMR_2019	SDWMMR_2019	5107	LANGHORN ST	Lead	Lead	PEX	Copper	2021-02-16	2021-02-16	No		ND	2021-02-24	2021-03-03												
5020779	CEP_03	CEP_03	5607	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2021-02-17	2021-02-17	No		1.61	2021-02-18	2021-03-03												
5048376	SDWMMR_2019	SDWMMR_2019	5113	LANGHORN ST	Lead	Lead	PEX	Copper	2021-02-18	2021-02-18	No		1.75	2021-02-22	2021-03-03												
5048335	SDWMMR_2019	SDWMMR_2019	99	COURTLAND ST	Lead	Copper	PEX	Not Replaced	2021-02-19		No		ND	2021-04-10	2021-04-26												
5048332	SDWMMR_2019	SDWMMR_2019	102	COURTLAND ST	Lead	Lead	PEX	Copper	2021-02-22	2021-02-22	No		1.15	2021-02-27	2021-03-15												
5048333	SDWMMR_2019	SDWMMR_2019	101	COURTLAND ST	Lead	Lead	PEX	Copper	2021-02-22	2021-02-22	No		ND	2021-03-01	2021-03-15												
5048429	SDWMMR_2019	SDWMMR_2019	528	COURTLAND ST	Lead	Lead	PEX	Copper	2021-02-23	2021-02-23	No		1.89	2021-02-23	2021-03-09	1.89	2021-02-23	2021-03-09									
5039045	SDWMMR_2020A	SDWMMR_2020A	2832	MURRAY AVE	Lead	Lead	PEX	Copper	2021-02-24	2021-02-24	No		15.1	2021-03-17	2021-03-29												
5048329	SDWMMR_2019	SDWMMR_2019	5152	BLAIR ST	Lead	Lead	PEX	Copper	2021-02-24	2021-02-24	No		8.94	2021-02-27	2021-03-15												
5048284	SDWMMR_2019	SDWMMR_2019	5153	BLAIR ST	PEX	Lead	PEX	Copper	2021-02-24	2021-02-24	No		ND	2021-02-27	2021-03-15												
5031456	SDWMMR_2020B	SDWMMR_2020B	7126	LEMINGTON AVE	Lead	Copper	PEX	Not Replaced	2021-02-24		No		ND	2021-06-17	2021-07-06												
5039551	SDWMMR_2020A	SDWMMR_2020A	6427	MONITOR ST	Lead	Lead	PEX	Copper	2021-02-25	2021-02-25	No		1.45	2021-02-28	2021-03-15												
5039074	SDWMMR_2020A	SDWMMR_2020A	5824	BURCHFIELD AVE	Lead	Copper	PEX	Not Replaced	2021-02-25		No		ND	2021-02-27	2021-03-15												
5039580	SDWMMR_2020A	SDWMMR_2020A	6458	MONITOR ST	Copper	Lead	PEX	Copper	2021-02-26	2021-02-26	No		ND														

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Refrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Refrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Refrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Refrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Refrom Lab5
5010584	Walnut Street Water Relay	Walnut Street Water Relay	5442	WALNUT ST	Copper	Lead	Copper	Copper	2021-03-08	2021-03-08	No		ND	2021-03-12	2021-03-22												
5048293	SDWMMR_2019	SDWMMR_2019	5125	BLAIR ST	Lead	Lead	PEX	Copper	2021-03-08	2021-03-08	No		ND	2021-03-10	2021-03-15												
5050003	SDWMMR_2020A	SDWMMR_2020A	968	GREENFIELD AVE	Copper	Lead	PEX	Copper	2021-03-08	2021-03-08	No		ND	2021-03-12	2021-03-22												
5048292	SDWMMR_2019	SDWMMR_2019	5127	BLAIR ST	Lead	Lead	PEX	Copper	2021-03-08	2021-03-08	No		41.2	2021-03-09	2021-03-15	ND	2021-06-25	2021-07-06									
5010508	Walnut Street Water Relay	Walnut Street Water Relay	811	S AIKEN AVE	Lead	Lead	Copper	Copper	2021-03-08	2021-03-08	No		4.14	2021-03-11	2021-03-29												
5039585	SDWMMR_2020A	SDWMMR_2020A	6434	MONITOR ST	Lead	Lead	PEX	Copper	2021-03-08	2021-03-08	No		9.21	2021-03-11	2021-03-29												
5048466	SDWMMR_2019	SDWMMR_2019	5154	GLOSTER ST	Copper	Lead	PEX	Copper	2021-03-09	2021-03-09	No		10.4	2021-03-11	2021-03-22	ND	2021-06-12	2021-07-06									
5039552	SDWMMR_2020A	SDWMMR_2020A	6433	MONITOR ST	Lead	Copper	PEX	Not Replaced	2021-03-09		No		ND	2021-03-12	2021-03-22												
5050018	SDWMMR_2020A	SDWMMR_2020A	953	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-09	2021-03-09	No		2.4	2021-03-12	2021-03-22												
5050024	SDWMMR_2020A	SDWMMR_2020A	971	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-10	2021-03-10	No		1.27	2021-03-14	2021-03-22												
5039562	SDWMMR_2020A	SDWMMR_2020A	6469	MONITOR ST	Lead	Lead	PEX	Copper	2021-03-10	2021-03-10	No		22.4	2021-03-11	2021-03-22	2.49	2021-06-23	2021-07-06									
5048456	SDWMMR_2019	SDWMMR_2019	5122	GLOSTER ST	PEX	Lead	PEX	Copper	2021-03-11	2021-03-11	No		ND	2021-03-14	2021-03-29												
5050021	SDWMMR_2020A	SDWMMR_2020A	961	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-11	2021-03-11	No		3.63	2021-04-09	2021-04-19												
5032837	SDWMMR_2020B	SDWMMR_2020B	1515	N HOMEWOOD AVE	Lead	Lead	PEX	Copper	2021-03-15	2021-01-15	No		1.03	2021-03-19	2021-04-05												
5039589	SDWMMR_2020A	SDWMMR_2020A	6422	MONITOR ST	Lead	Lead	PEX	Copper	2021-03-16	2021-03-16	No		ND	2021-03-25													
5050019	SDWMMR_2020A	SDWMMR_2020A	955	GREENFIELD AVE	Copper	Lead	PEX	Copper	2021-03-16	2021-03-16	No		ND	2021-03-19	2021-03-29												
5032820	SDWMMR_2020B	SDWMMR_2020B	7179	UPLAND ST	Lead	Lead	PEX	Copper	2021-03-16	2021-03-16	No		2.25	2021-03-17	2021-04-05												
5048268	SDWMMR_2019	SDWMMR_2019	210	W ELIZABETH ST	Lead	Lead	PEX	Copper	2021-03-16	2021-03-16	No		ND	2021-03-18	2021-03-29												
5032604	SDWMMR_2020B	SDWMMR_2020B	7118	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2021-03-17	2021-03-17	No		5.96	2021-03-20	2021-04-05												
5048267	SDWMMR_2019	SDWMMR_2019	212	W ELIZABETH ST	PEX	Lead	PEX	Copper	2021-03-17	2021-03-17	No		ND	2021-03-20	2021-03-29												
5050309	SDWMMR_2020A	SDWMMR_2020A	1151	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-20	2021-03-20	No		159	2021-03-20	2021-03-29	3.42	2021-03-29	2021-04-12									
5047904	SDWMMR_2019	SDWMMR_2019	5017	LANGHORN ST	Lead	Lead	PEX	Copper	2021-03-22	2021-03-22	No		ND	2021-03-25	2021-04-05												
5032544	SDWMMR_2020B	SDWMMR_2020B	7146	UPLAND ST	Lead	Lead	PEX	Copper	2021-03-22	2021-03-22	No		1.31	2021-03-23	2021-04-05												
5050250	SDWMMR_2020A	SDWMMR_2020A	1146	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-23	2021-03-23	No		18.7	2021-03-23													
5050216	SDWMMR_2020A	SDWMMR_2020A	1124	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-23	2021-03-23	No		6.97	2021-03-24	2021-03-29												
5050218	SDWMMR_2020A	SDWMMR_2020A	1128	GREENFIELD AVE	Lead	Copper	PEX	Not Replaced	2021-03-23		No		ND	2021-03-25	2021-04-26												
5050052	SDWMMR_2020A	SDWMMR_2020A	1105	GREENFIELD AVE	Lead	Copper	PEX	Not Replaced	2021-03-23		No		ND	2021-03-25	2021-04-26	ND	2021-04-10	2021-04-19									
5050319	SDWMMR_2020A	SDWMMR_2020A	1127	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-23	2021-03-23	No		113	2021-03-24													
5032574	SDWMMR_2020B	SDWMMR_2020B	7115	MOUNT VERNON ST	Lead	Copper	PEX	Not Replaced	2021-03-25		No		94.2	2021-03-26	2021-04-26												
5032550	SDWMMR_2020B	SDWMMR_2020B	7134	UPLAND ST	Lead	Lead	PEX	Copper	2021-03-25	2021-03-25	No		5.74	2021-03-26													
5049871	SDWMMR_2020A	SDWMMR_2020A	1110	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-25	2021-03-25	No		ND	2021-04-06	2021-04-19												
5041034	Ops	Private Reimbursement	429	GETTYSBURG ST	Lead	Lead	PEX	Copper	2021-03-26	2021-03-25	No	Emergency	5.57	2021-09-15	2021-10-04												
5037866	Ops	Private Reimbursement	5905	DOUGLAS ST	Lead	Lead	PEX	Non-Lead	2021-03-29	2021-03-26	No	Emergency	ND	2021-07-06	2021-07-19												
5039441	SDWMMR_2020A	SDWMMR_2020A	6317	EBDY ST	Lead	Lead	PEX	Copper	2021-03-29	2021-03-29	No		1.19	2021-03-30													
5047930	SDWMMR_2019	SDWMMR_2019	201	W ELIZABETH ST	Lead	Lead	PEX	Copper	2021-03-29	2021-03-29	No		ND	2021-04-13	2021-04-26												
5050314	SDWMMR_2020A	SDWMMR_2020A	1137	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-30	2021-03-30	No		18	2021-05-20	2021-06-02												
5032570	SDWMMR_2020B	SDWMMR_2020B	7107	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2021-03-30	2021-03-30	No		3.41	2021-03-31	2021-04-19												
5032611	SDWMMR_2020B	SDWMMR_2020B	7104	MOUNT VERNON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-03-30	2021-03-30	No		ND	2021-03-31	2021-04-19												
5039438	SDWMMR_2020A	SDWMMR_2020A	6327	EBDY ST	Lead	Lead	PEX	Copper	2021-03-30	2021-03-30	No		ND	2021-03-31	2021-04-19												
5047860	SDWMMR_2019	SDWMMR_2019	5016	BLAIR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-03-30	2021-03-30	No		2.59	2021-03-31													
5050253	SDWMMR_2020A	SDWMMR_2020A	1152	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-31	2021-03-31	No		5.09	2021-04-02													
5039389	SDWMMR_2020A	SDWMMR_2020A	6316	EBDY ST	Lead	Lead	PEX	Copper	2021-04-01	2021-04-01	No		2.02	2021-04-04													
5050033	SDWMMR_2020A	SDWMMR_2020A	991	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-05	2021-04-05	No		1.09	2021-04-08	2021-04-19												
5039387	SDWMMR_2020A	SDWMMR_2020A	6310	EBDY ST	Lead	Copper	PEX	Not Replaced	2021-04-05		No		ND	2021-04-06													
5032480	SDWMMR_2020B	SDWMMR_2020B	7117	UPLAND ST	Lead	Lead	PEX	Copper	2021-04-05	2021-04-05	No		81.1	2021-04-06	2021-05-25												
5034864	Ops	Urgent LSLR	5421	ALBEMARLE AVE	Lead	Lead	Copper	Copper	2021-04-06	2021-04-08	No	Emergency	1.12	2021-04-13	2021-05-25												
5049999	SDWMMR_2020A	SDWMMR_2020A	976	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-06	2021-04-06	No		12.3	2021-04-07	2021-04-19	1.41	2021-04-07	2021-04-19	1.39	2021-09-01	2021-09-20						
5039394	SDWMMR_2020A	SDWMMR_2020A	6334	EBDY ST	Lead	Lead	PEX	Copper	2021-04-07	2021-04-07	No		ND	2021-06-07	2021-06-21												
5049918	SDWMMR_2020A	SDWMMR_2020A	1012	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-08	2021-04-08	No		9.6	2021-04-09	2021-04-19												
5050000	SDWMMR_2020A	SDWMMR_2020A	974	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-08	2021-04-08	No		ND	2021-04-09	2021-04-19												
5039393	SDWMMR_2020A	SDWMMR_2020A	6326	EBDY ST	Lead	Copper	PEX	Not Replaced	2021-04-08		No		1.46	2021-04-09	2021-04-19												
5050013	SDWMMR_2020A	SDWMMR_2020A	940	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-09	2021-04-09	No		96.4	2021-04-10	2021-04-26												
5049511	SDWMMR_2020A	SDWMMR_2020A	939	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-09	2021-04-09	No		2.63	2021-04-27	2021-05-03												
5049510	SDWMMR_2020A	SDWMMR_2020A	941	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-12	2021-04-12	No		ND	2021-04-13	2021-04-26												
5049516	SDWMMR_2020A	SDWMMR_2020A	923.5	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-13	2021-04-13	No		76.7	2021-04-17	2021-04-26	3.38	2021-05-03	2021-05-25									
5050017	SDWMMR_2020A	SDWMMR_2020A	930	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-13	2021-04-13	No		ND	2021-04-22	2021-05-												

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recfrom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfrom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfrom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfrom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfrom Lab5
5059493	SDWMR_2020A	SDWMR_2020A	233	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-16	2021-06-16	No		3.5	2021-06-17	2021-07-06												
5012700	Ops	Urgent LSLR	4512	MINERVA ST	Lead	Lead	PEX	Copper	2021-06-17	2021-06-30	No	Emergency	2.67	2021-08-02	2021-08-23												
5059488	SDWMR_2020A	SDWMR_2020A	230	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-17	2021-06-17	No		ND	2021-06-30	2021-07-26												
5019663	Ops	Private Reimbursement	5347	WATERFORD ST	Lead	Lead	PEX	Copper	2021-06-18	2021-06-18	No		ND	2021-08-26	2021-09-13												
5059485	SDWMR_2020A	SDWMR_2020A	224	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-21	2021-06-21	No		ND	2021-06-25	2021-07-06												
5052057	SDWMR_2019	SDWMR_2019	2321	SALISBURY ST	Copper	Lead	PEX	Copper	2021-06-21	2021-06-21	No		1.35	2021-06-23	2021-07-12												
5059495	SDWMR_2020A	SDWMR_2020A	227	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-21	2021-06-21	No		7.51	2021-06-23	2021-07-12												
5049903	Ops	Private Reimbursement	739	LORETTA ST	Lead	Lead	PEX	Copper	2021-06-22	2021-06-29	No		4.1	2021-07-15	2021-08-02												
5052053	SDWMR_2019	SDWMR_2019	2313	SALISBURY ST	Lead	Lead	PEX	Copper	2021-06-22	2021-06-22	No		10.2	2021-06-24	2021-07-06	1.67	2021-09-28	2021-10-11									
5059494	SDWMR_2020A	SDWMR_2020A	229	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-22	2021-06-22	No		ND	2021-06-23	2021-07-06												
5052058	SDWMR_2019	SDWMR_2019	2323	SALISBURY ST	Copper	Lead	PEX	Copper	2021-06-23	2021-06-23	No		ND	2021-06-24	2021-07-06												
5052055	SDWMR_2019	SDWMR_2019	2317	SALISBURY ST	Lead	Lead	PEX	Copper	2021-06-23	2021-06-23	No		32	2021-06-24	2021-07-06	1.93	2021-09-28	2021-10-11									
5052096	SDWMR_2019	SDWMR_2019	2310	SALISBURY ST	Lead	Copper	PEX	Not Replaced	2021-06-23		No		3.02	2021-06-23	2021-07-06												
5052054	SDWMR_2019	SDWMR_2019	2315	SALISBURY ST	Lead	Lead	PEX	Copper	2021-06-23	2021-06-23	No		8.74	2021-07-27	2021-08-16												
5059499	SDWMR_2020A	SDWMR_2020A	217	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-24	2021-06-24	No		37.5	2021-06-24	2021-07-06												
5059497	SDWMR_2020A	SDWMR_2020A	223	SMITH WAY	Lead	Lead	PEX	Copper	2021-06-25	2021-06-25	No		ND	2021-07-01	2021-07-19												
5052352	SDWMR_2019	SDWMR_2019	1405	ELEANOR ST	Lead	Lead	PEX	Copper	2021-06-29	2021-06-29	No		ND	2021-07-03	2021-07-26												
5052353	SDWMR_2019	SDWMR_2019	1407	ELEANOR ST	Lead	Lead	PEX	Copper	2021-06-29	2021-06-29	No		ND	2021-07-03	2021-07-26												
5052355	SDWMR_2019	SDWMR_2019	1411	ELEANOR ST	Lead	Lead	PEX	Copper	2021-06-30	2021-06-30	No		ND	2021-07-02	2021-07-26												
5052360	SDWMR_2019	SDWMR_2019	1505	ELEANOR ST	Unknown	Lead	PEX	Copper	2021-07-06	2021-07-06	No		1.37	2021-08-26	2021-09-20												
5059486	SDWMR_2020A	SDWMR_2020A	226	SMITH WAY	Lead	Lead	PEX	Copper	2021-07-07	2021-07-07	No		126	2021-07-08	2021-07-26	8.89	2021-07-24	2021-08-16									
5051982	SDWMR_2019	SDWMR_2019	2408	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-09	2021-07-09	No		2.1	2021-07-13	2021-07-26												
5009369	Ops	Urgent LSLR	3472	LIGONIER ST	Lead	Lead	PEX	Copper	2021-07-12	2021-07-14	Yes		1.19	2021-07-16	2021-08-09												
5051947	SDWMR_2019	SDWMR_2019	2427	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-12	2021-07-12	No		ND	2021-07-14	2021-07-26												
5037046	Ops		5530	DARLINGTON RD	Lead	Copper	PEX	Copper	2021-07-13	2021-07-12	No	Emergency	2.12	2021-09-09	2021-09-20												
5018529	Ops	Urgent LSLR	4608	PLUMMER ST	Lead	Lead	PEX	Copper	2021-07-14	2021-07-14	No		ND	2021-07-17	2021-08-02												
5051988	SDWMR_2019	SDWMR_2019	2427	BERG ST	Lead	Copper	PEX	Not Replaced	2021-07-14		No		5.55	2021-08-08	2021-08-30												
5051990	SDWMR_2019	SDWMR_2019	2434	COBDEN ST	Lead	Copper	PEX	Not Replaced	2021-07-14		No		ND	2021-07-19	2021-08-09												
5052263	Ops	Urgent LSLR	2115	ARLINGTON AVE	Lead	Lead	PEX	Copper	2021-07-16	2021-08-26	No	Emergency	2.75	2021-08-28	2021-09-20												
5052383	SDWMR_2019	SDWMR_2019	2416	SALISBURY ST	Lead	Copper	PEX	Copper	2021-07-16	2021-07-16	No		ND	2021-12-28	2022-02-03												
5058781	SDWMR_2020A	SDWMR_2020A	508	GRACE ST	Lead	Lead	PEX	Copper	2021-07-16	2021-07-16	No		8.42	2021-07-18	2021-08-02												
5051942	SDWMR_2019	SDWMR_2019	2503	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-20	2021-07-20	No		ND	2021-09-01	2021-09-20												
5051941	SDWMR_2019	SDWMR_2019	2505	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-20	2021-07-20	No		4.16	2021-07-24	2021-08-09												
5051993	SDWMR_2019	SDWMR_2019	2500	COBDEN ST	Lead	Copper	PEX	Not Replaced	2021-07-20		No		10.6	2021-07-25	2021-08-09												
5052132	SDWMR_2019	SDWMR_2019	2711	COBDEN ST	Lead	Copper	PEX	Not Replaced	2021-07-21		No		ND	2021-08-02	2021-08-23												
5051995	SDWMR_2019	SDWMR_2019	2508	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-22	2021-07-22	No		18.6	2021-07-23	2021-08-09												
5037188	Ops	Urgent LSLR	5646	DARLINGTON RD	Lead	Lead	Copper	Copper	2021-07-23	2021-08-02	No	Emergency	5.78	2021-08-04	2021-08-23												
5051707	Ops	Urgent LSLR	2628	STELLA ST	Lead	Lead	PEX	Copper	2021-07-23	2021-07-27	No	Emergency	4.24	2021-07-28	2021-08-16												
5058793	SDWMR_2020A	SDWMR_2020A	501	GRACE ST	Copper	Lead	PEX	Copper	2021-07-26	2021-07-26	No		ND	2021-07-28	2021-08-16												
5052126	SDWMR_2019	SDWMR_2019	2733	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-26	2021-07-26	No		ND	2021-07-27	2021-08-09												
5052144	SDWMR_2019	SDWMR_2019	2632	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-27	2021-07-27	No		ND	2021-09-13	2021-09-20												
5052140	SDWMR_2019	SDWMR_2019	2718	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-27	2021-07-27	No		2.63	2021-07-28	2021-08-09												
5052127	SDWMR_2019	SDWMR_2019	2727	COBDEN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-07-28	2021-07-28	No		ND	2021-08-09	2021-08-30												
5052128	SDWMR_2019	SDWMR_2019	2725	COBDEN ST	Lead	Lead	PEX	Copper	2021-07-28	2021-07-28	No		1.23	2021-09-22	2021-10-04												
5052182	SDWMR_2019	SDWMR_2019	3	COLOGNE ST	Lead	Lead	PEX	Copper	2021-07-29	2021-07-29	No		ND	2021-08-04	2021-08-23												
5079797	Ops	Urgent LSLR	4055	CAMBROUNE ST	Lead	Lead	PEX	Copper	2021-08-01	2021-08-04	No		143	2021-08-05	2021-08-23	56.7	2021-08-25	2021-09-20	1.89	2021-09-22	2021-10-04						
5052188	SDWMR_2019	SDWMR_2019	2803	COBDEN ST	Copper	Lead	PEX	Copper	2021-08-02	2021-08-02	No		2.18	2021-08-03	2021-08-16												
5069403	Ops	Private Reimbursement	1922	TOURS ST	Lead	Lead	PEX	Copper	2021-08-03	2021-08-03	No	Emergency	4.42	2021-08-06	2021-08-30												
5013205	Ops	Urgent LSLR	103	MOREWOOD AVE	Lead	Lead	PEX	Copper	2021-08-03	2021-08-19	No	Emergency	ND	2021-09-29	2021-10-11												
5052198	SDWMR_2019	SDWMR_2019	2833	COBDEN ST	Lead	Lead	PEX	Copper	2021-08-04	2021-08-04	No		ND	2021-08-06	2021-08-30												
5014600	Ops	Urgent LSLR	4784	YEW ST	Lead	Lead	PEX	Copper	2021-08-05	2021-08-20	No	Emergency	2	2021-08-22	2021-09-20												
5052624	SDWMR_2019	SDWMR_2019	3101	NORTHVIEW ST	Copper	Lead	PEX	Copper	2021-08-09	2021-08-09	No		3.96	2021-08-11	2021-08-30												
5052209	SDWMR_2019	SDWMR_2019	2827	SUMNER ST	Lead	Lead	PEX	Copper	2021-08-10	2021-08-10	No		21.3	2021-08-16	2021-08-30	3.32	2021-11-17	2021-11-29									
5036052	Ops	Urgent LSLR	1353	SHADY AVE	Lead	Lead	PEX	Copper	2021-08-11	2021-08-13	No	Emergency	ND	2021-08-15	2021-09-07												
5052627	SDWMR_2019	SDWMR_2019	3107	COBDEN ST	Lead	Copper	PEX	Not Replaced	2021-08-11		No		ND	2021-08-12	2021-08-30												
5060427	SDWMR_2020A	SDWMR_2020A	407	CLARENCE ST	Lead	Copper	PEX	Not Replaced	2021-08-11		No		2.97	2021-08-15	2021-09-07												
5041073	Ops		426	HASTINGS ST	Lead	Copper	PEX	Not Replaced	2021-08-18		No	Emergency	1.1	2021-08-31	2021-09-20												

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5039481	Ops	Urgent LSLR	6349	MONITOR ST	Lead	Lead	PEX	Copper	2021-11-11	2021-11-11	No		ND	2022-01-12	2022-02-03												
5064004	Ops		3127	BRUNOT AVE	Lead	Copper	PEX	Not Replaced	2021-11-15		No	Emergency	1	2022-01-14	2022-02-03												
5051576	SDWMR_2020B	SDWMR_2020B	76	HOLT ST	Copper	Lead	PEX	Copper	2021-11-23	2021-11-23	No		2.56	2021-11-25	2021-12-20	1.08	2021-11-25	2021-12-20									
5013989	Ops	Urgent LSLR	4773	SCIOTA ST	Lead	Lead	PEX	Copper	2021-11-30	2021-12-10	No	Emergency	ND	2021-12-11	2021-12-20												
5052307	Ops	Urgent LSLR	1611	STERLING ST	Lead	Lead	PEX	Copper	2021-12-20	2021-12-22	No	Emergency	ND	2022-02-14	2022-03-07												
5051903	Ops	Urgent LSLR	1314	STERLING ST	Lead	Lead	PEX	Copper	2022-01-10	2022-01-22	No	Emergency	8.32	2022-01-24	2022-02-08												
5073252	Ops	Urgent LSLR	1915-1917	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2022-01-13	2022-01-15	No		ND	2022-01-17	2022-02-08												
5035986	Ops	Urgent LSLR	1310	MURRAY AVE	Lead	Lead	PEX	Copper	2022-01-21	2022-01-22	No	Emergency	9.44	2022-01-22	2022-02-08												
5121908	Urgent Water	Urgent Water	828	STANTON AVENUE	Copper	Lead	PEX	Copper	2022-02-01	2022-02-02	Yes	Emergency	ND	2022-02-12	2022-02-21												
5067844	Ops	Urgent LSLR	1406	FIRTH ST	Lead	Lead	PEX	Copper	2022-02-07	2022-02-10	No	Emergency	ND	2022-02-11	2022-02-21												
5022951	Ops	Urgent LSLR	1434	WOODBINE ST	Lead	Lead	PEX	Copper	2022-02-14	2022-02-17	No	Emergency	3.71	2022-02-23	2022-03-14												
5000290	BRT	BRT	1042	5TH AVE	Copper	Lead	PEX	Copper	2022-02-16	2022-02-16	No		1.01	2022-02-17	2022-03-07												
5040301	McPherson Blvd Relay	McPherson Blvd Relay	214	N LINDEN AVE	Copper	Lead	PEX	Copper	2022-02-28	2022-03-03	Yes		ND	2022-03-03	2022-03-14												
5037597	Ops	Urgent LSLR_2	1906	WIGHTMAN ST	Lead	Lead	PEX	Copper	2022-03-03	2022-03-04	No	Emergency	2300	2022-03-05	2022-03-21												
5065154	Ops	Urgent LSLR_2	1331	SHEFFIELD ST	Lead	Lead	PEX	Copper	2022-03-21	2022-03-23	No	Emergency	2.17	2022-03-28	2022-04-26												
5038698	Ops	Urgent LSLR_2	5666	MELVIN ST	Lead	Lead	PEX	Copper	2022-03-29	2022-03-31	No	Emergency	ND	2022-04-04	2022-04-14												
5028129	Ops		1110	DE VICTOR PL	Lead	Copper	PEX	Not Replaced	2022-03-31		No	Emergency	1.95	2022-04-04	2022-04-14												
5044273	Priority	Priority	945	MILTON ST	Lead	Lead	PEX	Copper	2022-04-04	2022-04-04	No		1.91	2022-04-07	2022-04-14												
5044221	Priority	Priority	707	S BRADDOCK AVE	Lead	Lead	PEX	Copper	2022-04-05	2022-04-05	No		5.47	2022-04-06	2022-04-14												
5044149	Priority	Priority	594	CELERON ST	Lead	Lead	PEX	Copper	2022-04-07	2022-04-07	No		2.45	2022-04-13	2022-04-25												
5026325	SDWMR_2021_B	SDWMR_2021_B	839	N SAINT CLAIR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2022-04-08	2022-04-08	No		ND	2022-04-10	2022-04-25												
5026315	Priority	Priority	822	MELLON ST	Lead	Lead	PEX	Copper	2022-04-11	2022-04-11	No		ND	2022-04-12	2022-04-25												
5026429	Priority	Priority	815	N BEATTY ST	Lead	Lead	PEX	Copper	2022-04-12	2022-04-12	No		ND	2022-04-13	2022-04-25												
5062357	DO4_02	DO4_02	904	HERSCHEL ST	Lead	Lead	PEX	Copper	2022-04-14	2022-04-14	No		ND	2022-04-14	2022-04-25												
5028457	Priority	Priority	6319	STANTON AVE	Lead	Lead	PEX	Copper	2022-04-14	2022-04-14	No		ND	2022-04-18	2022-04-25												
5062624	DO4_02	DO4_02	726	HERSCHEL ST	Lead	Copper	PEX	Not Replaced	2022-04-15		No		446	2022-04-16	2022-04-25												

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5000754	CEP 03	CEP 03	2004	FORBES AVE	Copper	Lead	PEX	Copper	2020-10-21	2020-10-21	BRT	BRT	PEX	Copper	PEX	Not Replaced	2021-09-08		No		ND	2020-12-28	2021-01-11															
5005544	CEP 02	CEP 02	701	MORGAN ST	Copper	Copper	Not Replaced	Not Replaced			Ops	Urgent LSLR	Lead	Lead	PEX	Copper	2022-02-18	2022-02-24	No		ND	2022-02-28	2022-03-14															
5009530	B17 07 B	B17 07 B	3923 1/2	MINTWOOD ST	Lead	Lead	PEX	Copper	2020-05-27	2020-05-27	Ops		Copper	Copper	Not Replaced	Not Replaced			No		ND	2020-08-10	2020-08-17															
5016717	Ops	BLG 01	368	44TH ST	Lead	Lead	PEX	Copper	2017-12-07	2019-03-28	SDWMR 2021 B	SDWMR 2021 B	PEX	Copper	Copper	Not Replaced	2022-04-20		Yes	Emergency	1700	2017-12-07	2018-01-10	4.9	2017-12-12	2017-12-21	3.9	2019-03-29	2019-04-10									
5018034	A07 07	A07 07	4930	HATFIELD ST	Lead	Lead	PEX	Copper	2018-08-07	2018-08-07	Ops		PEX	Copper	Not Replaced	Not Replaced			No		ND	2018-08-10	2018-08-23															
5026542	Ops	BLG 01	824	N SHERIDAN AVE	Lead	Lead	PEX	Copper	2018-12-08	2019-04-22	SDWMR 2020B	SDWMR 2020B	PEX	Copper	PEX	Not Replaced	2020-10-07		Yes	Emergency	138	2018-12-09	2018-12-17	1.53	2019-04-29	2019-05-15												
5026815	SDWMR 2021 B	SDWMR 2021 B	5631	HAYS ST	PEX	Copper	PEX	Not Replaced	2022-04-29		Ops	Urgent LSLR	Lead	Lead	PEX	Copper	2021-09-29	2021-09-30	No		5.52	2021-10-01	2021-10-11															
5026816	SDWMR 2021 B	SDWMR 2021 B	5633	HAYS ST	PEX	Copper	PEX	Not Replaced	2022-04-29		Urgent LSLR	Urgent LSLR	Lead	Lead	PEX	Copper	2021-10-05	2021-10-05	No		12	2021-12-14	2022-01-10															
5029215	A09 09	A09 09	1101	PAULSON AVE	Lead	Lead	PEX	Copper	2018-11-27	2018-11-27	SDWMR 2020B	SDWMR 2020B	PEX	Copper	PEX	Not Replaced	2020-07-24		No		ND	2018-12-03	2018-12-17															
5029271	Ops	Urgent LSLR	6557	ROWAN ST	Lead	Lead	PEX	Copper	2019-07-16	2019-07-25	SDWMR 2020B	SDWMR 2020B	PEX	Copper	PEX	Not Replaced	2020-08-03		No	Emergency	ND	2020-08-05	2020-08-18															
5029307	B04 09 A	B04 09 A	6600	ROWAN ST	Lead	Lead	PEX	Copper	2019-05-01	2019-05-01	SDWMR 2020B	SDWMR 2020B	PEX	Copper	Not Replaced	Not Replaced			No		3.26	2019-06-24	2019-07-01															
5031831	CEP 02	CEP 02	7162	LEMINGTON AVE	Lead	Copper	PEX	Not Replaced	2019-12-10		SDWMR 2020B	SDWMR 2020B	PEX	Copper	PEX	Not Replaced	2021-02-24		No		ND	2019-12-11	2020-01-14															
5031892	Ops	BLG 01	1542	OVERLIN ST	Lead	Lead	PEX	Not Replaced	2016-11-01		SDWMR 2020B	SDWMR 2020B	PEX	Lead	PEX	Copper	2020-11-12	2020-11-12	Yes	Emergency	ND	2020-11-16	2020-11-23															
5031893	Ops	BLG 01	1544	OVERLIN ST	Lead	Lead	PEX	Not Replaced	2016-11-02		SDWMR 2020B	SDWMR 2020B	PEX	Lead	PEX	Copper	2020-11-17	2020-11-17	Yes	Emergency	2.72	2020-11-18	2020-11-30															
5032895	B04 09 B	B04 09 B	1406	N HOMESWOOD AVE	Lead	Lead	PEX	Copper	2019-07-25	2019-07-25	SDWMR 2020B	SDWMR 2020B	PEX	Copper	PEX	Not Replaced	2021-03-30		No		3.16	2019-07-26	2019-08-05															
5032896	B04 09 B	B04 09 B	1408	N HOMESWOOD AVE	Lead	Lead	PEX	Copper	2019-07-25	2019-07-25	SDWMR 2020B	SDWMR 2020B	PEX	Copper	PEX	Not Replaced	2021-03-25		No		ND	2019-08-06	2019-08-12															
5039068	Ops	Private Reimbursement	5858	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2016-11-09	2018-04-27	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-02-08		Yes	Emergency	3.3	2017-11-15	2017-11-28															
5039111	Ops	BLG	2842	SHADY AVE	Lead	Lead	PEX	Copper	2017-10-16	2019-01-10	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-01-21		Yes	Emergency	56	2017-10-19	2017-10-30	48	2017-11-07	2017-11-27												
5039119	B07 05 A	B07 05 A	5892	BURCHFIELD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-01	2019-11-01	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-03-03		No		1.09	2019-11-02	2019-11-11															
5039121	B07 05 A	B07 05 A	2908	SHADY AVE	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-03-21		No		ND	2021-04-04	2021-04-19															
5039566	B07 05 A	B07 05 A	6498	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-25	2019-09-25	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-02-19		No		2.11	2019-09-26	2019-09-30															
5039567	B07 05 A	B07 05 A	6496	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-02-19		No		5.44	2019-10-07	2019-10-29															
5039568	B07 05 A	B07 05 A	6494	MONITOR ST	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-02-17		No		9	2019-10-06	2019-10-15															
5039569	B07 05 A	B07 05 A	6492	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-02-17		No		6.71	2019-11-17	2019-11-26															
5039570	B07 05 A	B07 05 A	6490	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-02-22		No		ND	2019-11-17	2019-11-26															
5045642	Ops	Urgent LSLR	830	GREENFIELD AVE	Lead	Lead	PEX	Copper	2019-06-10	2019-06-13	SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2021-04-21		No	Emergency	1.42	2019-06-30	2019-07-15															
5047825	Ops	BLG	5006	LYTLE ST	Lead	Lead	PEX	Copper	2018-11-09	2019-03-11	SDWMR 2019	SDWMR 2019	PEX	Copper	PEX	Not Replaced	2021-04-06		Yes	Emergency	52.5	2018-11-10	2018-11-27	6.69	2019-02-08	2019-02-19												
5047855	CEP	CEP	5026	BLAIR ST	Lead	Lead	PEX	Copper	2019-08-23	2019-08-23	SDWMR 2019	SDWMR 2019	PEX	Copper	PEX	Not Replaced	2021-03-25		No		3.93	2019-08-25	2019-09-03															
5047856	Ops		5024	BLAIR ST	Lead	Copper	PEX	Not Replaced	2018-06-22		SDWMR 2019	SDWMR 2019	PEX	Copper	PEX	Not Replaced	2021-03-29		No	Emergency	4	2018-06-24	2018-07-08															
5048145	Ops		412	E ELIZABETH ST	Lead	Lead	Not Replaced	Not Replaced			CEP 03	CEP 03	Lead	Lead	PEX	Copper	2020-12-08	2020-12-08	No	Emergency	ND	2021-04-12	2021-04-26															
5049759	Ops	BLG 02	4038	MURRAY AVE	Lead	Unknown	PEX	Not Replaced	2016-07-26		SDWMR 2020A	SDWMR 2020A	PEX	Lead	PEX	Copper	2020-11-12	2020-11-12	Yes	Emergency	2.19	2020-11-15	2020-11-23															
5051531	CEP 02	CEP 02	2322	SALISBURY ST	Lead	Lead	PEX	Copper	2020-01-15	2020-01-15	SDWMR 2019	SDWMR 2019	PEX	Copper	PEX	Not Replaced	2021-06-28		No		12.2	2020-01-19	2020-01-29	1.41	2020-04-14	2020-04-27												
5051926	Ops	BLG 01	2412	BURHAM ST	Lead	Lead	PEX	Not Replaced	2018-09-27		SDWMR 2019	SDWMR 2019	PEX	Lead	PEX	Copper	2021-09-23	2021-09-23	Yes	Emergency	ND	2021-09-24	2021-10-11															
5051933	CEP	CEP	2510	BURHAM ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-14	2019-10-14	SDWMR 2019	SDWMR 2019	PEX	Copper	PEX	Not Replaced	2021-09-16		No		3.28	2019-10-24	2019-11-04															
5052061	CEP	CEP	1306	ELEANOR ST	Lead	Lead	PEX	Copper	2019-07-27	2019-07-27	SDWMR 2019	SDWMR 2019	PEX	Copper	PEX	Not Replaced	2021-06-10		No		ND	2019-09-18	2019-09-24															
5053694	Ops		20	NUSSER ST	Lead	Copper	PEX	Not Replaced	2019-05-06		SDWMR 2020A	SDWMR 2020A	PEX	Copper	PEX	Not Replaced	2020-09-25		No	Emergency	2.74	2019-09-06	2019-09-24															
5055345	B06 03 B	B06 03 B	153	MONASTERY PL	Lead	Copper	PEX	Not Replaced	2020-01-08		SDWMR 2020A	SDWMR 2020A	PEX	Copper</																								

ATTACHMENT C
EMERGENCY PARTIAL LEAD SERVICE LINE REPLACEMENTS

Locations not Notified in Accordance with 25 Pa. Code § 109.1107(d)(4)(i)

Appendix I- FR_11.1

FR III.1

FR-III.1

**Pittsburgh Water & Sewer Authority
Operating Expenses by Account**

Direct Operating Expenses	HTY																	
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019	12 Months Ended 12/31/2019	3 Months Ended 3/31/2020	6 Months Ended 6/30/2020	9 Months Ended 9/30/2020	12 Months Ended 12/31/2020	3 Months Ended 3/31/2021	6 Months Ended 6/30/2021	9 Months Ended 9/30/2021	12 Months Ended 12/31/2021	3 Months Ended 3/31/2022	
Wages & Salaries																		
4001 Salary/Wages	\$ 11,035,889	\$ 11,352,097	\$ 11,942,744	\$ 14,013,848	4,065,188	8,014,211	12,655,908	17,415,267	4,291,058	8,332,447	13,504,460	18,617,022	4,560,317	10,142,527	14,923,905	20,717,547	4,983,908	
4005 OT Premium Pay	1,210,877	1,261,335	1,504,742	1,814,309	620,791	1,028,447	1,502,591	2,001,622	400,446	675,516	1,132,774	1,571,406	408,558	759,237	1,132,745	1,594,793	500,439	
4010 Shift Differential	6,170	7,311	5,988	6,887	1,824	3,131	4,998	6,905	1,603	3,054	5,123	7,028	28,174	56,589	81,186	112,650	31,520	
4015 Semi Skill	6,223	5,739	6,907	7,129	1,154	2,734	5,065	6,525	700	1,343	2,090	2,741	873	1,843	1,843	1,843	-	
4020 Pay Adjustments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4025 Bonus	-	3,500	-	5,500	-	-	-	-	-	-	-	-	-	-	20,500	20,500	69,213	
4030 Holiday Pay	531,144	537,915	579,017	631,308	261,264	407,001	601,514	827,894	273,543	443,277	612,394	915,618	292,619	470,917	655,822	1,005,600	379,112	
4035 Vacation Pay	984,336	974,011	952,563	1,065,930	267,309	477,779	895,687	1,207,626	293,011	429,237	857,520	1,279,163	304,280	619,150	1,081,837	1,580,964	376,476	
4040 Other	-	262	16,230	29,800	200	100	100	100	-	-	-	-	-	-	-	-	1,787	
4045 Sick Pay	133,341	106,802	9,602	16,316	2,866	6,441	8,504	10,748	3,892	12,517	25,749	27,431	48,386	52,139	54,250	55,215	2,324	
4050 Personal Time Pay	444,143	455,301	450,532	558,981	170,848	329,357	465,704	618,417	198,557	325,151	471,014	630,179	168,927	469,941	653,250	856,786	249,144	
4055 Comp Time Taken	177,275	95,045	14,634	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4060 Comp Time Earned	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4065 Jury Duty	2,029	1,215	2,051	2,725	-	2,254	5,381	6,563	819	819	819	819	-	616	855	1,479	2,564	
4070 Military Leave	1,092	2,982	-	-	-	2,885	2,885	594	594	594	594	792	-	-	4,904	4,904	-	
4075 Supper Pay	17,722	17,060	20,783	33,051	9,958	16,156	24,904	32,728	5,878	9,185	15,590	20,104	5,438	9,649	14,940	24,285	8,755	
4080 Bereavement	22,974	14,515	17,987	27,723	10,423	15,336	24,663	35,046	3,902	9,357	14,440	24,901	10,471	18,713	27,777	39,833	8,812	
4081 Paid Parental Leave	-	-	-	-	-	-	6,204	16,600	4,110	4,776	15,180	17,939	-	-	-	-	6,061	
4085 Special	52,131	51,540	52,369	60,207	19,048	33,748	52,973	72,484	17,338	32,955	54,666	76,630	-	-	-	-	500	
4090 Admin Leave	271,864	-	7,838	2,060	-	-	445	445	4,071	820,982	875,449	955,265	77,475	148,461	150,220	183,281	119,092	
4095 Severance	102,382	669,892	487,524	152,174	-	-	-	-	-	-	-	3,600	-	117,468	117,468	117,468	-	
Total Wages & Salaries	\$ 14,999,594	\$ 15,556,521	\$ 16,071,511	\$ 18,427,947	\$ 5,430,873	\$ 10,339,002	\$ 16,257,525	\$ 22,261,855	\$ 5,499,521	\$ 11,101,213	\$ 17,587,864	\$ 24,150,639	\$ 5,905,518	\$ 12,867,248	\$ 18,921,501	\$ 26,317,148	\$ 6,739,709	
Employee Benefits																		
4110 Fed Ins Contr Act Tx	925,936	945,396	990,699	1,125,583	331,689	630,113	983,008	1,343,682	334,294	673,484	1,073,143	1,453,301	362,409	783,105	1,146,625	1,587,241	410,070	
4115 Medicare	217,829	224,732	232,506	265,323	77,572	147,525	232,096	319,884	78,182	157,966	252,250	346,428	84,757	183,736	269,798	378,015	95,903	
4120 Fed Unemploy Tax	-	-	4	-	(1)	(1)	(1)	(1)	-	-	-	-	-	-	-	-	-	
4125 State Unemploy Tax	24,886	65,430	-	34,478	742	1,079	1,591	8,846	-	-	10,670	10,670	7,410	18,506	21,715	25,415	8,803	
4130 Workers Comp Insur	199,241	349,755	561,969	(3,305)	266,402	266,402	305,362	305,362	-	-	-	-	-	-	-	-	-	
4135 Med Health Ins	2,969,278	2,928,766	3,089,588	3,527,693	889,097	1,836,285	2,831,622	3,962,528	1,028,751	2,067,001	3,117,188	4,210,424	1,058,323	2,166,232	3,323,076	4,545,633	1,193,576	
4140 Med Hlth Ins Waiver	16,642	28,906	22,183	57,239	17,213	36,478	57,585	83,892	15,654	36,786	54,629	72,359	16,847	31,692	45,488	59,104	13,112	
4145 Short Term Disability	170,670	171,661	161,659	154,581	41,354	84,374	129,440	177,013	48,662	97,028	153,812	226,692	69,223	138,960	217,027	346,435	84,467	
4150 Long Term Disability	35,372	33,200	31,318	349,248	7,799	14,909	21,910	28,738	6,593	12,977	19,849	27,775	5,070	10,653	16,112	27,039	5,533	
4155 Life Ins <50k	28,767	28,008	25,687	27,504	7,441	15,638	24,513	33,419	8,909	18,441	28,483	38,413	9,906	20,016	30,538	43,615	11,087	
4160 Accident.Death.Dismember	3,020	3,175	3,274	3,742	1,008	2,117	3,318	4,519	1,207	2,493	3,848	5,171	1,321	2,669	4,072	5,815	1,478	
4165 Dental Ins	139,668	133,593	132,857	135,371	35,058	70,665	108,675	146,934	38,004	77,796	111,246	151,738	41,749	83,498	125,506	173,099	44,383	
4170 Vision Insur	9,707	8,853	9,512	10,141	2,876	5,887	9,250	12,688	3,400	7,116	11,190	15,287	5,257	10,577	16,054	21,559	6,069	
4174 Cust Serv Week	-	-	550	457	-	-	-	1,195	-	-	-	-	-	-	-	-	-	
4175 Uniforms	197,422	174,773	164,450	167,162	54,373	104,945	151,865	209,599	39,934	74,001	102,655	155,684	32,913	66,576	124,154	160,760	33,566	
4180 Tuition Reimburse	28,750	22,330	35,873	68,156	35,023	55,553	71,230	104,366	5,305	40,237	53,468	64,196	28,637	44,621	57,636	71,861	4,853	
4185 Retirement Benefit	-	-	-	-	-	-	1,962	10,688	12,944	31,306	60,946	95,076	31,632	72,165	112,714	170,365	65,902	
4195 Misc Benefits	(19,845)	(21,274)	(22,584)	(22,029)	(5,104)	(10,868)	(16,766)	(22,632)	(5,974)	(11,782)	(17,546)	(23,442)	(5,808)	(11,748)	(17,556)	(23,276)	(5,588)	
4199 Payroll Upload Except	(685)	(6,027)	(14)	(1,456)	-	-	-	(21)	-	-	-	(1,385)	-	-	-	-	-	
Total Employee Benefits	\$ 4,946,658	\$ 5,091,276	\$ 5,439,531	\$ 5,899,887	\$ 1,762,543	\$ 3,261,101	\$ 4,916,661	\$ 6,730,702	\$ 1,615,865	\$ 3,284,850	\$ 5,035,829	\$ 6,848,387	\$ 1,749,644	\$ 3,621,257	\$ 5,492,958	\$ 7,592,680	\$ 1,973,215	
TOTAL SALARIES & BENEFITS	\$ 19,946,252	\$ 20,647,796	\$ 21,511,042	\$ 24,327,834	\$ 7,193,416	\$ 13,600,103	\$ 21,174,186	\$ 28,992,557	\$ 7,115,387	\$ 14,386,063	\$ 22,623,693	\$ 30,999,026	\$ 7,655,162	\$ 16,488,505	\$ 24,414,459	\$ 33,909,828	\$ 8,712,924	

Pittsburgh Water & Sewer Authority
Operating Expenses by Account

	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	HTY 12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019	12 Months Ended 12/31/2019	3 Months Ended 3/31/2020	6 Months Ended 6/30/2020	9 Months Ended 9/30/2020	12 Months Ended 12/31/2020	3 Months Ended 3/31/2021	6 Months Ended 6/30/2021	9 Months Ended 9/30/2021	12 Months Ended 12/31/2021	3 Months Ended 3/31/2022
Direct Operating Expenses																	
Chemicals																	
5005 Alum (Orthophosphate)	-	-	-	-	19,061	91,069	148,252	211,788	67,772	135,544	211,788	262,617	27,225	107,085	147,015	220,342	36,751
5010 Boiler Chemicals	25,845	13,311	5,331	12,340	4,253	8,750	21,212	25,983	12,312	13,135	13,201	37,852	10,717	12,101	16,793	31,447	9,910
5015 Calcium Hypochlorite	-	4,831	1,320	-	-	-	-	-	-	-	17,000	17,000	-	-	-	-	-
5020 Cat Flocc TL	45,946	22,996	57,540	60,505	13,524	40,943	81,808	108,736	37,879	50,537	76,172	88,779	25,232	37,812	63,033	75,641	12,613
5025 Caustic Soda	636,432	548,132	592,052	799,616	224,920	241,061	225,057	225,780	-	1,808	2,893	3,978	555	833	1,110	1,665	347
5030 Chlorine Cylinders	-	48,111	-	-	-	-	-	-	-	-	-	-	1,493	1,493	1,493	1,493	23,319
5035 Chlorine Rail Car	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29,447	29,447	-
5040 Citric Acid	11,773	11,655	1,670	-	-	-	-	-	-	4,910	6,580	9,920	-	3,200	6,720	6,720	-
5045 Copper Sulphate	54,495	21,288	46,882	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5050 Ferric Chloride	1,440,693	1,395,342	1,149,441	1,411,090	294,226	833,295	1,240,126	1,823,669	402,369	776,750	1,122,145	1,504,817	486,020	766,491	1,128,891	1,496,523	604,355
5055 Hydrofluorosilicic Acid	152,531	127,779	132,717	177,308	30,236	60,741	113,047	140,479	35,292	89,429	125,392	150,933	37,528	67,970	106,330	138,961	30,584
5060 Lime	209,399	213,807	213,807	70,890	7,394	169,925	332,028	462,458	126,325	258,314	385,225	529,609	121,550	260,541	398,438	546,091	160,042
5065 Potassium Permanganate	335,080	448,594	332,733	109,855	-	123,451	247,338	247,338	-	125,776	125,776	125,776	-	-	128,024	128,024	-
5070 Powdered Active Carbon	-	30,926	-	(0)	-	-	-	-	-	-	-	-	-	29,684	88,050	88,050	-
5075 Soda Ash	183,295	993,658	879,172	986,761	206,887	435,027	605,153	820,686	247,861	441,601	589,682	732,716	169,232	275,526	374,581	487,117	130,882
5080 Sodium Hypochlorite	290,664	358,197	349,780	320,130	72,718	179,099	310,828	433,004	73,778	183,631	322,561	445,308	88,011	173,456	341,478	459,862	225,454
5085 Sodium Carbonate Peroxyhy	-	12,720	12,720	16,960	-	-	-	-	-	-	8,480	16,480	-	-	4,000	4,000	-
Chemicals	\$ 3,386,154	\$ 4,096,610	\$ 3,775,165	\$ 3,965,455	\$ 873,219	\$ 2,183,360	\$ 3,324,850	\$ 4,499,921	\$ 1,003,588	\$ 2,081,435	\$ 3,006,894	\$ 3,925,786	\$ 967,562	\$ 1,736,192	\$ 2,835,402	\$ 3,715,383	\$ 1,234,257
Equipment																	
5120 Computer & Peripherals	54,702	105,601	295,065	890,562	239,654	326,182	449,986	688,714	95,245	139,243	264,238	337,329	313,357	399,752	554,843	1,120,979	64,047
5125 Computers.Networking	66,602	82,313	336,517	378,556	12,604	16,283	16,283	20,577	-	-	-	3,860	3,308,424	5,054,274	5,074,701	5,168,583	1,798,492
5140 Furniture.Fixture	7,883	33,966	39,955	149,446	14,386	40,802	44,389	82,981	105,524	114,414	127,356	140,096	3,528	35,005	44,139	58,933	29,394
5145 Grounds.Maint	10,535	29,125	25,505	28,500	8,403	18,498	30,273	67,378	24,651	56,420	82,467	143,863	61,284	151,824	172,480	300,015	55,726
5147 Lab Equip	142,637	160,536	18,841	47,424	33,157	59,166	93,145	150,360	45,140	65,907	73,858	96,553	63,226	93,417	105,080	273,282	11,825
5150 Machinery	248,095	175,979	98,202	233,740	607,111	1,026,686	1,854,567	2,543,899	41,117	71,719	151,835	173,961	68,789	197,657	343,542	398,031	288,520
5160 Office Equipment	596	-	3,892	1,306	238	359	359	4,930	325	36,891	36,891	37,070	308	453	5,988	6,548	549
5190 Vehicles	588,272	166,806	614,171	1,570,946	1,174,183	1,939,084	1,940,310	2,341,473	-	-	577	577	242,395	322,250	373,546	801,884	132,590
Equipment	\$ 1,119,323	\$ 754,325	\$ 1,432,148	\$ 3,300,481	\$ 2,089,737	\$ 3,427,061	\$ 4,429,312	\$ 5,900,312	\$ 312,001	\$ 484,594	\$ 737,222	\$ 933,309	\$ 4,061,310	\$ 6,254,633	\$ 6,674,320	\$ 8,128,254	\$ 2,381,143
Materials																	
5205 Asphalt Cold Patch	-	10,688	22,994	94,307	28,602	48,442	79,176	88,631	29,736	40,935	62,640	85,097	17,347	34,248	47,216	66,238	26,067
5210 Asphalt Cold-City	58,190	64,208	45,669	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5215 Asphalt Hot-City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5220 Asphalt Hotmix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5225 Asphalt Patch Bit Sealer	-	4,076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5227 Brick	1,740	-	320	240	-	543	543	543	-	-	402	402	-	713	869	1,331	-
5230 Cement Bagged	3,611	4,580	5,217	1,747	60	182	310	1,243	121	268	496	811	1,946	2,792	2,967	3,467	364
5235 Gravel	12,863	17,255	8,933	1,325	-	-	-	-	-	-	-	-	-	-	-	-	-
5240 Iron Steel Brass	4,560	3,909	7,945	2,002	-	5,097	7,047	7,047	-	-	205	205	-	-	-	-	-
5245 Lumber	18,231	12,908	20,206	13,177	9,547	10,701	16,090	21,886	6,201	11,284	16,118	26,047	9,461	15,758	29,463	37,554	12,638
5250 Sand	71,012	26,221	47,087	13,072	2,811	4,981	7,572	9,971	-	1,319	2,658	1,377	2,658	1,377	2,760	3,450	4,786
5255 Slag	204,312	281,399	304,607	364,671	100,568	177,621	264,642	383,089	102,916	154,136	246,055	338,716	111,790	190,861	281,720	372,554	129,979
5260 Stone	-	-	-	-	-	-	-	8,142	-	-	-	-	-	-	-	-	-
5265 Top Soil	4,700	4,150	1,800	5,296	500	1,500	3,000	3,450	-	971	1,421	1,871	681	1,877	3,073	4,069	296
Materials	\$ 379,218	\$ 429,394	\$ 464,778	\$ 495,837	\$ 142,089	\$ 249,066	\$ 388,601	\$ 524,002	\$ 138,973	\$ 208,912	\$ 329,995	\$ 455,807	\$ 142,602	\$ 249,008	\$ 368,758	\$ 489,999	\$ 169,344

Pittsburgh Water & Sewer Authority
Operating Expenses by Account

FR-III.1

Direct Operating Expenses	12 Months	12 Months	HTY	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months
	Ended 12/31/2015	Ended 12/31/2016	Ended 12/31/2017	Ended 12/31/2018	Ended 3/31/2019	Ended 6/30/2019	Ended 9/30/2019	Ended 12/31/2019	Ended 3/31/2020	Ended 6/30/2020	Ended 9/30/2020	Ended 12/31/2020	Ended 3/31/2021	Ended 6/30/2021	Ended 9/30/2021	Ended 12/31/2021	Ended 3/31/2022
Operating Contracts																	
5305 Annual Sewer Contract	2,420,966	1,079,623	2,879,646	3,127,669	1,456,827	3,010,543	4,060,022	6,631,750	768,427	2,456,919	4,684,427	8,056,519	3,617,097	6,679,691	7,093,880	13,197,606	1,197,732
5310 Boiler Compress Elevtr	3,602	544	9,504	53,336	18,653	17,963	17,963	17,963	-	-	-	-	-	119	832	1,789	-
5315 CB Cleaning	1,021,519	858,332	917,968	707,837	190,665	367,854	567,860	732,709	172,345	318,548	520,507	752,218	83,034	300,670	563,807	766,916	111,046
5316 CB Repairs	-	-	-	-	-	48,514	48,514	48,514	-	-	-	-	-	-	-	-	-
5328 Curb Box Repair	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5330 Debris Removal	121,524	159,250	159,486	198,360	74,916	129,653	214,235	271,258	87,434	136,458	217,852	302,860	68,904	119,196	190,740	253,044	59,532
5335 Drag Bucket	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5340 Dumpster	23,403	16,503	26,168	32,518	12,387	17,656	30,105	37,574	12,128	13,153	34,141	46,827	14,889	32,639	45,169	54,765	7,435
5341 Vactor Debris Remove Cont	38,863	55,132	55,796	61,556	19,771	19,771	67,922	111,326	-	4,541	106,739	154,930	-	-	46,049	216,304	-
5342 Emergency WaterLine Repair	1,403,171	2,533,443	2,186,565	3,864,918	532,674	1,519,261	3,495,652	5,777,901	861,230	1,988,841	3,244,768	5,365,542	632,850	1,646,098	2,032,662	4,175,951	532,396
5345 Inspection	456,267	-	(268,857)	1,313,960	295,681	469,811	576,987	1,117,628	(39,332)	(43,335)	(38,150)	(34,374)	-	643	1,081	-	-
5347 Inspection.Field	709,184	1,050,150	1,088,490	793,856	153,851	381,802	518,019	698,229	236,605	544,518	799,878	1,424,101	393,956	826,156	1,758,088	2,706,352	643,081
5350 Key.Lock Serv	11	-	524	1,363	-	-	-	11	-	-	1,230	1,230	39	39	130	143	-
5355 Landscape (Grounds)	62,192	69,883	86,046	87,840	52,970	52,970	86,588	90,869	29,300	71,075	112,635	118,865	122,015	133,215	231,470	334,444	524
5360 Meters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5370 Operating Contract.Other	1,085,437	2,445,907	2,250,760	1,996,527	502,686	759,047	1,210,706	1,816,157	1,057,893	2,339,929	3,600,057	5,296,671	1,419,389	2,051,911	3,888,498	5,937,187	1,001,847
5375 Radionuclides	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5380 Intr-Gov Proj Panther Hollow	(72,174)	(114,327)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5383 Sewage Treatment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5385 Temporary Help	259,965	2,251,713	1,445,888	254,245	-	-	206	206	-	-	-	-	8,618	32,327	51,598	68,100	15,342
5390 Welding	4,418	139	-	-	360	360	360	360	-	-	15,500	15,500	-	-	-	-	-
5395 Water Relay.DISC	-	-	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5396 Sewer Relay.DISC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operating Contracts	\$ 7,538,348	\$ 10,410,802	\$ 10,840,784	\$ 12,493,984	\$ 3,311,440	\$ 6,795,205	\$ 10,895,140	\$ 17,352,454	\$ 3,186,030	\$ 7,830,647	\$ 13,299,586	\$ 21,500,889	\$ 6,360,790	\$ 11,822,704	\$ 15,904,004	\$ 27,712,601	\$ 3,568,937
Repairs & Maintenance																	
5402 Annual Software Support	356,830	433,366	931,829	678,146	137,199	190,876	423,272	916,955	114,782	525,582	858,762	1,424,283	256,913	589,347	1,087,419	1,657,369	823,885
5405 Bldg.Property Repairs	146,415	121,635	390,277	224,243	102,135	151,844	174,739	188,512	31,746	61,037	84,250	173,305	60,230	124,417	269,945	370,605	45,969
5408 Computer Hardware	44,925	173,115	19,505	30,592	-	-	17,375	17,862	-	3,966	36,966	43,050	32,002	42,590	76,530	122,291	7,793
5411 Computer Software Support	-	-	-	-	-	-	-	-	-	-	47,500	11,875	11,875	23,750	47,500	26,735	-
5413 Concrete Repairs	3,010,703	2,565,787	3,973,696	6,929,924	550,686	1,029,837	3,216,757	6,318,850	291,128	298,314	3,247,357	5,248,496	1,156,737	1,199,253	4,470,762	7,394,000	771,632
5415 Cranes Repairs	1,000	14,656	8,405	-	862	6,945	17,017	18,029	7,052	9,108	34,246	40,971	19,445	19,445	26,210	26,400	-
5417 Electrical Repairs	49,284	80,316	58,471	143,886	20,754	71,774	139,365	269,525	53,560	68,967	136,042	175,886	49,464	70,283	71,108	73,479	17,554
5420 Fence Repairs	2,810	5,206	-	1,990	-	560	2,914	2,914	11,966	38,645	40,049	42,175	12,976	39,266	45,785	52,760	-
5422 Fence Installation	-	8,306	1,541	6,292	-	-	1,966	-	13,309	13,309	13,309	239,142	239,142	239,142	239,142	251,252	-
5427 GIS Hardware.Software	87,010	57,807	42,419	10,758	4,733	84,621	129,105	151,652	767	1,534	2,301	3,068	816	1,632	2,720	2,992	1,088
5432 Hardware Repairs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5437 Heavy Equip Repair	-	-	2,135	2,781	7,544	8,124	22,608	38,853	35,665	32,326	32,326	32,326	2,003	3,044	3,148	7,099	-
5439 HVAC.Plumbing	22,401	53,726	16,389	64,351	25,686	42,595	56,907	64,111	36,493	68,688	91,329	157,489	67,024	85,479	115,192	134,772	21,617
5444 Hydrant. A Section	7,446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5445 Hydrant Misc Parts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5447 Hydrant Repair Parts	539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5452 Machinery Repairs	123,918	19,243	6,365	139,483	26,591	32,239	42,099	60,591	13,069	17,936	24,132	43,085	57,333	104,202	133,070	181,084	47,396
5457 Office Equip Repairs	13,146	4,116	-	-	-	100	100	100	-	-	1,156	781	1,156	781	781	1,540	160
5462 Plant Repairs	-	-	-	-	11,031	18,831	34,690	136,910	31,904	93,152	250,089	297,515	55,303	100,425	208,457	320,729	86,505
5467 Power Tool Repairs	3,567	5,571	8,525	1,506	295	5,948	5,948	5,948	1,736	1,736	1,736	1,736	9,921	10,482	13,021	13,103	-
5472 Road Repair.Plant	-	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5475 Scanner	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5482 Tool Repairs	84,854	5,346	4,475	7,653	-	3,177	3,269	3,269	120	435	898	983	185	2,307	5,703	5,309	-
5484 Hand Tool Repairs	6,780	4,296	1,870	165	589	589	1,688	1,688	1,434	1,475	1,475	1,475	257	257	2,208	992	-
5486 Misc Tool Repairs	380	672	500	5,470	71	71	467	467	779	779	779	779	648	834	1,299	281	-
5488 CC TV Repairs	92,627	78,062	85,556	144,253	70,017	127,909	180,590	223,473	23,432	23,432	23,978	25,493	-	-	-	-	-
5490 Vactor Repairs	64,634	50,581	4,838	22,104	196	1,746	13,409	2,287	8,704	11,072	17,358	-	-	-	-	-	-
5491 Vehicle Repairs	151,830	378,059	79,124	6,630	2,138	2,218	5,745	22,476	25,105	52,380	94,658	890,330	62,140	151,048	216,620	674,450	50,050
5496 Repair.Maint Other	203,786	214,538	138,395	399,058	130,475	166,380	206,355	618,629	38,297	59,815	97,049	108,291	29,219	47,052	57,776	68,994	2,749
Repairs & Maintenance	\$ 4,474,883	\$ 4,275,104	\$ 5,774,315	\$ 8,819,285	\$ 1,091,002	\$ 1,946,382	\$ 4,682,755	\$ 9,076,188	\$ 721,323	\$ 1,381,320	\$ 5,131,459	\$ 8,790,610	\$ 2,124,158	\$ 2,855,036	\$ 7,091,978	\$ 11,428,042	\$ 1,904,406

Pittsburgh Water & Sewer Authority
Operating Expenses by Account

Direct Operating Expenses	HTY																	
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019	12 Months Ended 12/31/2019	3 Months Ended 3/31/2020	6 Months Ended 6/30/2020	9 Months Ended 9/30/2020	12 Months Ended 12/31/2020	3 Months Ended 3/31/2021	6 Months Ended 6/30/2021	9 Months Ended 9/30/2021	12 Months Ended 12/31/2021	3 Months Ended 3/31/2022	
Misc. Operating																		
5570 Testing Misc	89,803	187,347	847,210	805,853	146,273	253,195	812,047	1,025,998	177,022	318,868	528,082	448,212	94,034	389,313	480,391	627,450	77,623	
Misc. Operating	\$ 89,803	\$ 187,347	\$ 847,210	\$ 805,853	\$ 146,273	\$ 253,195	\$ 812,047	\$ 1,025,998	\$ 177,022	\$ 318,868	\$ 528,082	\$ 448,212	\$ 94,034	\$ 389,313	\$ 480,391	\$ 627,450	\$ 77,623	
Inventory - Castings																		
6015 Casting Manhole.CBasin	12,812	133,256	107,127	27,186	-	167,936	137,892	151,212	6,886	8,509	30,208	33,882	407	15,200	29,482	35,438	2,328	
6025 Casting Risers.Lids	49,798	-	-	-	-	6,716	6,716	15,707	1,153	(1,824)	3,164	8,481	315	23,112	71,951	78,996	10,908	
6035 Casting Sewer Inlet	-	8,443	3,273	490	-	-	-	3,220	7,276	8,169	15,068	15,068	-	1,798	12,352	18,700	-	
6060 Casting Water Valve Box	-	-	39,613	-	-	-	122	49,426	16,043	42,472	114,844	130,605	12,594	111,130	219,244	304,884	18,626	
Inventory - Castings	\$ 62,610	\$ 141,699	\$ 150,013	\$ 27,675	\$ -	\$ 174,652	\$ 144,730	\$ 219,564	\$ 31,359	\$ 57,327	\$ 163,285	\$ 188,036	\$ 13,316	\$ 151,240	\$ 333,029	\$ 438,019	\$ 31,862	
Inventory - Clarifier																		
6115 Clarifier Part Flocc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6120 Clarifier Part Screw	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6125 Clarifier Part Sludge	-	-	19,987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inventory - Clarifier	\$ -	\$ -	\$ 19,987	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inventory - Equipment																		
6200 Inventory-Equip	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	
6220 Fire Extinguishers	542	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6245 Materials.Handling	22,010	40	-	-	-	-	-	-	-	1,155	1,155	2,475	3,960	3,960	3,960	3,960		
6260 Safety Equipment	24,628	33,800	40,994	71,687	12,212	34,741	73,267	122,056	11,579	34,974	44,659	62,634	21,173	38,946	41,389	71,621	17,949	
6280 Vacuum Chlorinators	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inventory - Equipment	\$ 47,180	\$ 33,840	\$ 40,994	\$ 71,689	\$ 12,212	\$ 34,741	\$ 73,267	\$ 122,057	\$ 11,579	\$ 36,129	\$ 45,814	\$ 65,109	\$ (25,133)	\$ (42,906)	\$ (45,349)	\$ (75,581)	\$ (17,949)	
Inventory - Hardware																		
6300 Inventory-Hardware	39,753	31,345	15,449	15,054	2,262	6,058	12,798	26,108	2,389	5,200	7,579	11,554	1,682	6,518	9,144	15,636	4,319	
6315 Fittings	296,117	172,216	203,114	286,547	72,322	265,674	407,209	511,380	28,462	50,341	84,038	135,925	42,201	69,249	122,822	200,645	45,762	
6320 Hardware Other	17,398	307	1,793	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6325 Hose.Fitting	3,300	14,056	17,854	18,308	2,355	6,138	14,237	20,070	2,238	4,257	6,476	8,331	3,340	4,237	5,994	12,035	5,871	
6330 Keys & Locks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6335 Lights	983	1,363	1,587	33,848	584	1,945	7,025	9,278	481	794	2,632	4,180	847	3,167	3,452	9,895	815	
6340 Machinery Misc	-	-	490	-	-	-	-	-	3,180	8,950	8,950	10,015	8,475	8,475	8,475	13,514	-	
6345 Meters	244,179	1,578	300,155	516,097	4,769	37,727	39,619	39,919	2,292	4,390	6,061	10,825	7,347	7,729	8,323	10,683	254	
6350 Plumbing Inv Exp	18,897	39,288	97,393	45,848	5,008	52,520	90,289	95,194	1,836	5,725	9,090	10,945	3,852	6,795	15,139	22,634	3,570	
6355 Power Tool Inv Exp	1,927	3,431	1,722	1,320	-	-	-	-	1,934	5,569	5,569	9,265	1,610	5,752	6,531	13,646	1,494	
6360 Tools Inv Exp	63,247	57,914	75,078	108,192	19,792	80,903	124,855	185,629	27,972	52,077	90,493	125,316	43,471	73,089	97,929	148,504	29,218	
6365 Hand Tools Inv Exp	-	-	3,461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inventory - Hardware	\$ 685,803	\$ 321,497	\$ 718,096	\$ 1,025,215	\$ 107,092	\$ 450,964	\$ 696,033	\$ 887,578	\$ 70,784	\$ 137,303	\$ 220,888	\$ 326,356	\$ 112,826	\$ 185,010	\$ 277,810	\$ 447,193	\$ 91,303	
Inventory - Heavy Equipment																		
6420 Backhoe	1,796	1,242	1,393	1,217	(627)	218	585	3,861	-	-	-	556	-	789	789	789	-	
Inventory - Heavy Equipment	\$ 1,796	\$ 1,242	\$ 1,393	\$ 1,217	\$ (627)	\$ 218	\$ 585	\$ 3,861	\$ -	\$ -	\$ -	\$ 556	\$ -	\$ 789	\$ 789	\$ 789	\$ -	

Pittsburgh Water & Sewer Authority
Operating Expenses by Account

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	HTY																
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019	12 Months Ended 12/31/2019	3 Months Ended 3/31/2020	6 Months Ended 6/30/2020	9 Months Ended 9/30/2020	12 Months Ended 12/31/2020	3 Months Ended 3/31/2021	6 Months Ended 6/30/2021	9 Months Ended 9/30/2021	12 Months Ended 12/31/2021	3 Months Ended 3/31/2022
Direct Operating Expenses																	
<u>Inventory - Miscellaneous</u>																	
6500 Inventory-Misc	41,546	35,584	48,866	43,346	1,523	7,972	28,568	29,421	4,756	11,603	15,033	18,516	6,427	18,230	57,842	121,075	3,633
6506 Batteries	-	-	-	-	-	-	59	210	-	64	64	596	-	-	-	216	247
6515 Cleaning	50,397	39,659	42,649	45,162	6,992	34,830	41,905	59,968	1,088	4,905	7,314	14,283	1,241	3,723	4,061	6,319	2,238
6518 Concrete Accessories	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6520 Copier Paper	366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6525 Filters	-	-	1,308	-	-	-	-	193	-	-	-	-	-	-	-	-	-
6526 Filters HVAC	-	-	939	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6530 FirstAid	1,296	1,960	26	(1,101)	77	7,931	8,185	14,526	-	140	161	1,883	16	470	470	470	501
6540 Lamps	-	-	2,477	118	-	-	-	-	-	-	-	-	-	-	-	-	-
6544 Lubricating Oil	12,878	13,110	8,169	4,371	3,385	7,249	12,900	20,102	1,721	2,674	3,418	10,676	424	5,270	5,378	8,901	534
6548 Paint Oils Putty Glass	6,620	3,942	7,466	7,455	2,188	5,931	8,505	11,533	993	2,820	3,426	4,818	259	3,237	5,382	8,431	623
6552 Paper Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6555 Pump Oil	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6565 Sewer Mats.Supplies	3,381	3,187	249	3,208	(72)	1,025	1,572	1,594	-	-	-	143	-	-	-	-	-
6570 Testing Dyes	-	-	-	-	-	-	-	2,023	421	893	3,122	5,364	5,036	8,104	8,104	8,104	1,741
6580 Vehicle Oil	5,116	-	-	-	-	-	-	-	-	681	681	1,588	-	1,021	1,942	1,942	-
6585 Welding Supplies-Inventory	336	98	15,339	(117)	107	113	507	562	-	-	9	-	-	1	1	1	-
Inventory - Miscellaneous	\$ 122,055	\$ 97,540	\$ 127,568	\$ 102,443	\$ 14,200	\$ 65,051	\$ 102,201	\$ 140,133	\$ 8,979	\$ 23,778	\$ 33,227	\$ 57,866	\$ 13,404	\$ 40,056	\$ 83,181	\$ 155,459	\$ 9,515
<u>Inventory - Parts</u>																	
6645 Parts Other	192,023	165,630	160,899	152,786	13,005	56,666	96,460	136,633	9,701	16,009	26,888	36,631	16,772	69,123	79,031	111,017	5,350
6680 Yard	-	-	-	-	-	-	950	33,567	18,038	69,478	112,291	136,439	36,735	102,070	122,181	258,300	40,813
Inventory - Parts	\$ 192,023	\$ 165,630	\$ 160,899	\$ 152,786	\$ 13,005	\$ 56,666	\$ 97,410	\$ 170,199	\$ 27,740	\$ 85,488	\$ 139,179	\$ 173,070	\$ 53,506	\$ 171,193	\$ 201,212	\$ 369,316	\$ 46,163
<u>Inventory - Pipe</u>																	
6705 Pipe	96,194	131	1,589	(6,767)	7	1,263	1,429	1,904	1,375	1,380	4,452	4,452	937	937	1,855	1,855	-
6710 Pipe Ductile	13,496	55,806	56,321	26,524	5,080	60,604	103,069	237,227	109,348	217,130	389,176	523,557	167,946	237,509	322,829	532,629	237,387
6755 Pipe Plastic	1,177	-	-	-	-	-	-	21	72	2,609	2,796	2,909	54	1,856	1,994	2,047	2,543
6765 Pipe Service Line	-	-	-	-	1,773	4,236	5,573	8,175	3,774	5,070	8,611	10,934	1,150	3,996	7,764	14,081	3,025
Inventory - Pipe	\$ 110,866	\$ 55,938	\$ 57,910	\$ 19,758	\$ 6,860	\$ 66,103	\$ 110,071	\$ 247,327	\$ 114,570	\$ 226,188	\$ 405,035	\$ 541,853	\$ 170,087	\$ 244,297	\$ 334,442	\$ 550,611	\$ 242,955
<u>Inventory - Valves</u>																	
6805 Valves <12in	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6810 Valves >16in	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6820 Valves GA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6825 Valves Misc	161,925	91,230	148,286	81,812	(420)	128,469	215,086	258,003	24,051	46,611	57,819	96,029	30,028	50,887	74,852	135,740	67,424
Inventory - Valves	\$ 161,925	\$ 91,230	\$ 148,286	\$ 81,812	\$ (420)	\$ 128,469	\$ 215,086	\$ 258,003	\$ 24,051	\$ 46,611	\$ 57,819	\$ 96,029	\$ 30,028	\$ 50,887	\$ 74,852	\$ 135,740	\$ 67,424
INVENTORY TOTAL	\$ 1,384,257	\$ 908,616	\$ 1,425,146	\$ 1,482,595	\$ 152,322	\$ 976,865	\$ 1,439,383	\$ 2,048,723	\$ 289,062	\$ 612,824	\$ 1,065,248	\$ 1,448,874	\$ 418,299	\$ 886,379	\$ 1,350,664	\$ 2,172,709	\$ 507,170
DIRECT OPERATING TOTAL	\$ 38,318,237	\$ 41,709,993	\$ 46,070,588	\$ 55,691,324	\$ 14,999,498	\$ 29,431,237	\$ 47,146,273	\$ 69,420,153	\$ 12,943,386	\$ 27,304,663	\$ 46,722,179	\$ 68,502,513	\$ 21,823,918	\$ 40,681,770	\$ 59,119,975	\$ 88,184,265	\$ 18,555,805
<u>Fees</u>																	
7003 Bank Fees	172,412	252,616	289,314	278,243	60,590	134,074	197,907	263,420	50,987	123,641	197,032	269,922	72,089	143,450	215,139	284,867	70,279
7005 Certification Fees	2,999	2,600	11,423	3,319	144	144	709	2,718	70	70	1,548	2,759	2,200	2,325	3,114	3,984	703
7010 Membership Fees	34,276	31,502	40,483	35,381	44,833	49,401	52,647	68,104	42,668	66,456	76,416	98,652	8,828	30,312	60,374	90,456	29,164
7015 Permits	13,641	6,009	7,165	24,134	9,696	50,824	53,894	57,827	48,820	48,820	49,920	757,270	53,450	414,557	441,954	2,399,202	59,738
7020 Registration Fees	1,828	2,874	1,150	41	-	208	408	934	1,520	1,520	1,587	1,587	50	100,050	103,136	103,213	2,557
7030 Licenses	-	-	-	532	-	-	-	-	825	825	825	825	-	-	-	-	-
7035 Customer CC Fees	169,648	180,363	240,363	424,117	122,723	181,409	402,576	543,823	137,488	263,702	387,442	518,324	130,783	227,318	327,550	432,702	110,091
Total Fees	\$ 394,804	\$ 475,964	\$ 589,898	\$ 765,767	\$ 237,985	\$ 416,060	\$ 708,141	\$ 936,827	\$ 282,378	\$ 505,034	\$ 714,770	\$ 1,649,339	\$ 267,401	\$ 918,013	\$ 1,151,267	\$ 3,314,425	\$ 272,531
<u>Freight and Postage</u>																	
7105 Freight.Hauling	50	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7110 Freight.Shipping	15,264	19,506	29,611	50,990	23,012	33,894	48,977	63,490	16,566	21,866	29,508	40,208	7,274	11,373	22,382	23,480	2,660
7115 Postage	682,266	407,748	455,890	508,325	161,675	306,670	468,909	731,843	4,121	104,121	220,321	330,345	83,568	196,817	301,596	414,313	145,835
Total Freight and Postage	\$ 697,580	\$ 427,333	\$ 485,501	\$ 559,315	\$ 184,686	\$ 340,564	\$ 517,885	\$ 795,333	\$ 20,687	\$ 125,987	\$ 249,829	\$ 370,553	\$ 90,842	\$ 208,191	\$ 323,978	\$ 437,793	\$ 148,495

Pittsburgh Water & Sewer Authority
Operating Expenses by Account

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Direct Operating Expenses	12 Months	12 Months	HTY	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	
	Ended 12/31/2015	Ended 12/31/2016	12 Months Ended 12/31/2017	Ended 12/31/2018	Ended 3/31/2019	Ended 6/30/2019	Ended 9/30/2019	Ended 12/31/2019	Ended 3/31/2020	Ended 6/30/2020	Ended 9/30/2020	Ended 12/31/2020	Ended 3/31/2021	Ended 6/30/2021	Ended 9/30/2021	Ended 12/31/2021	Ended 3/31/2022	
Leases & Rents																		
7210 Copier.Fax Machine	73,208	75,671	80,279	77,013	27,550	49,553	64,219	93,709	13,742	36,044	64,282	84,898	20,256	35,262	63,486	85,132	21,073	
7215 Equip Rental	44,883	141,553	181,748	803,705	43,265	88,440	144,015	238,376	52,224	84,504	133,311	191,672	22,844	47,029	77,447	93,343	8,434	
7255 Office Rent	654,635	653,311	682,316	707,415	358,786	571,301	775,921	912,335	357,749	571,542	779,838	971,698	299,959	508,433	725,205	866,472	337,653	
7260 Pagers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7265 RadioLease(City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Leases & Rents	\$ 772,726	\$ 870,535	\$ 944,343	\$ 1,588,133	\$ 429,601	\$ 709,295	\$ 984,156	\$ 1,244,419	\$ 423,714	\$ 692,090	\$ 977,432	\$ 1,248,268	\$ 343,059	\$ 590,724	\$ 866,139	\$ 1,044,947	\$ 367,159	
Professional Services																		
7305 Advertising	8,709	21,137	29,088	28,962	12,136	27,768	37,389	45,975	5,134	6,051	9,900	13,754	4,445	13,997	15,679	18,618	3,029	
7306 Annual Report	942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7307 Advertising - Marketing	115,910	148,516	18,465	29,427	4,684	5,068	5,068	5,068	-	-	-	-	-	-	-	-	-	
7310 Annual Audit	87,390	48,670	59,170	64,308	42,000	49,683	49,683	49,683	46,000	48,613	48,613	48,613	37,500	50,198	50,198	50,198	37,500	
7315 Billing Contract	291,961	511,118	486,391	832,775	119,341	218,794	362,682	470,173	118,429	237,814	315,517	408,853	73,941	148,020	197,511	253,616	77,967	
7321 Coll Agency.Sewage	13,741	24,895	44,313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7323 Consultants	3,122,437	1,109,115	1,087,403	1,161,923	150,431	255,110	299,885	502,507	374,937	802,018	1,500,965	2,298,014	549,474	1,110,999	1,516,424	1,966,571	826,800	
7325 Consumer Confidence Rpt	4,549	1,481	-	1,707	-	-	2,171	2,171	-	-	1,476	1,476	-	-	-	-	-	
7328 Contingencies	433,435	24,287	22,111	11,766	-	-	148,800	148,800	109,785	109,785	134,585	134,585	24,800	24,800	49,600	49,600	-	
7332 Consulting Engineers	-	-	238,347	147,182	-	15,472	15,472	26,831	10,366	10,366	10,366	69,487	-	-	-	124,419	-	
7335 Misc.Serv.NonCapital	368,053	4,506,051	7,314,114	3,583,069	292,303	891,047	1,660,154	5,264,191	1,228,844	2,137,812	2,828,884	3,565,869	480,595	900,696	1,473,239	2,451,037	535,477	
7345 Ins.Auto	59,763	145,925	169,393	29,307	73,057	73,057	73,057	74,044	128,253	128,253	128,253	128,253	46,639	46,639	47,383	48,707	68,166	
7348 Ins.Commercial Prop	262,011	162,871	210,767	215,532	226,172	226,172	226,172	226,172	255,350	255,350	255,350	255,350	241,203	241,203	241,203	241,203	286,159	
7353 Ins.Gen Liability	4,786	5,018	5,308	20,798	21,637	21,637	21,637	21,637	22,500	22,500	22,500	22,500	24,421	24,421	26,495	26,495	77,234	
7359 Ins.Officers.Director	62,166	14,710	63,812	74,349	74,528	74,528	74,528	74,528	77,306	77,306	77,306	77,306	117,308	117,308	117,308	117,308	140,923	
7365 Ins.WorkersComp	-	-	-	-	-	-	-	-	444,043	444,043	444,043	480,217	425,469	425,469	425,469	425,469	447,152	
7366 Ins.WorkersComp.City	42,420	40,025	18,120	33,352	7,697	17,959	25,656	33,352	7,697	17,959	25,656	33,352	8,400	8,400	14,346	28,219	7,928	
7368 Internet Connection.Serv	45,022	54,300	44,508	66,656	12,417	24,763	38,972	53,334	618	618	1,070	1,568	-	-	-	-	-	
7370 Legal	1,176,688	1,713,491	1,838,942	2,894,513	591,346	981,694	1,851,338	2,388,647	559,812	1,478,010	2,040,834	2,620,392	685,713	1,615,376	2,431,024	3,304,993	560,629	
7371 Legal Self Ins	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7373 Minority.Women Bus Enter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7375 Meter Services	715,747	754,539	910,908	879,344	303,497	465,245	739,190	864,422	301,572	517,235	680,981	788,812	359,680	521,428	683,175	844,923	287,411	
7382 Payroll Services	55,825	59,103	54,044	72,899	16,690	33,522	54,024	70,633	21,745	73,148	93,030	125,460	32,725	69,462	95,977	123,422	38,969	
7383 Prof Service.Other	1,421,634	1,609,538	1,427,969	5,307,167	633,128	1,957,919	4,300,614	6,083,922	760,474	2,043,525	4,240,404	6,143,089	1,192,093	2,589,637	4,631,914	5,844,559	895,009	
7389 Trust Admin	126,077	106,312	76,940	71,235	27,690	28,485	30,411	30,411	36,490	36,490	53,285	77,385	12,290	12,290	29,085	76,885	3,890	
7390 Water Liens	-	-	-	-	-	-	8,000	8,000	30,000	30,000	30,000	30,000	40,000	160,000	260,151	385,217	-	
Total Professional Services	\$ 8,419,266	\$ 11,061,100	\$ 14,120,113	\$ 15,526,273	\$ 2,608,755	\$ 5,367,923	\$ 10,024,902	\$ 16,444,502	\$ 4,539,352	\$ 8,476,895	\$ 12,943,017	\$ 17,324,335	\$ 4,356,696	\$ 8,080,344	\$ 12,306,181	\$ 16,381,460	\$ 4,294,242	
Supplies																		
7405 Computer Software Supplies	32,426	42,147	53,155	35,174	3,172	6,130	6,878	11,722	16,665	32,089	47,212	68,804	18,323	35,653	44,643	41,807	3,362	
7422 Fuel-Gasses	1,665	2,079	3,457	4,845	38,190	51,444	105,303	153,209	36,498	48,826	57,266	351,684	32,960	33,431	65,234	207,784	15,929	
7423 Fuel Kerosene	-	-	-	-	-	-	-	261	1,121	628	628	1,212	644	644	644	504		
7424 Fuel Propane	4,144	68,705	226,871	174,824	16,695	17,001	18,496	18,670	143	254	437	1,066	327	776	1,615	1,843	261	
7435 GIS Plotter.Xerox	2,381	756	855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7440 Grounds & Maint Supp	-	36,360	38,814	36,542	43,678	89,909	121,251	189,211	147,570	224,722	323,134	504,239	119,840	237,469	378,640	407,910	112,008	
7443 ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7445 Lab Chemicals	26,500	25,371	60,981	4,219	675	5,297	8,021	9,561	546	2,090	2,673	2,673	1,147	1,147	1,900	2,009	1,087	
7447 Lab Supplies	73,478	80,726	20,634	48,936	20,029	49,119	73,259	122,807	35,325	41,189	55,999	69,045	50,736	66,057	86,905	141,047	38,869	
7450 Office Supplies	22,303	22,614	21,289	37,623	20,287	30,726	47,106	64,263	15,324	27,525	35,722	41,414	11,595	17,113	27,115	37,299	8,662	
7490 Welding Supplies	4,611	7,282	7,646	17,885	1,254	3,211	13,934	19,397	7,420	10,159	13,359	20,209	793	2,362	2,648	7,340	3,205	
Total Supplies	\$ 167,507	\$ 286,040	\$ 433,702	\$ 360,047	\$ 143,980	\$ 252,839	\$ 394,249	\$ 589,103	\$ 260,612	\$ 387,483	\$ 536,430	\$ 1,060,346	\$ 236,364	\$ 394,652	\$ 609,342	\$ 847,683	\$ 183,887	

Pittsburgh Water & Sewer Authority
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Direct Operating Expenses	12 Months	12 Months	HTY		12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months	6 Months	9 Months	12 Months	3 Months
	Ended 12/31/2015	Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	Ended 3/31/2019	Ended 6/30/2019	Ended 9/30/2019	Ended 12/31/2019	Ended 3/31/2020	Ended 6/30/2020	Ended 9/30/2020	Ended 12/31/2020	Ended 3/31/2021	Ended 6/30/2021	Ended 9/30/2021	Ended 12/31/2021	Ended 3/31/2022	
<u>Travel & Entertainment</u>																		
7505 TE.Airfare	9,465	7,629	1,084	6,706	-	1,704	11,206	11,968	10,926	10,926	10,926	13,192	-	-	-	-	-	-
7510 TE.Auto Rentals	-	-	-	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7520 TE.Fuel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7540 TE.Lodging	12,649	17,001	11,522	11,411	188	1,771	10,309	14,151	1,571	1,571	733	5,944	-	-	-	-	-	-
7545 TE.Meals	8,966	9,522	3,375	4,428	327	624	1,216	4,884	506	506	506	613	-	-	-	-	-	-
7550 TE.Mileage	3,482	3,151	1,267	1,440	852	1,104	1,876	2,259	63	63	63	63	-	-	-	-	-	-
7555 TE.SeminarsConferences	17,870	16,937	12,053	12,255	6,222	7,397	17,002	18,457	4,569	1,609	1,609	379	-	-	-	680	1,820	-
7560 TE.Training	29,129	54,666	14,942	25,288	6,944	28,403	36,610	120,554	3,239	4,035	7,835	23,132	8,560	9,760	57,696	95,248	10,816	-
7575 TE.Travel Misc	10,439	35,237	7,986	20,799	4,086	10,141	16,519	24,324	17,361	20,415	23,644	30,206	3,102	9,843	19,920	34,282	10,575	-
7590 TE.Travel Purch Orders	29,149	4,964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Travel & Entertainment	\$ 121,148	\$ 149,106	\$ 52,229	\$ 82,523	\$ 18,619	\$ 51,145	\$ 94,739	\$ 196,597	\$ 38,235	\$ 39,125	\$ 45,316	\$ 73,528	\$ 11,662	\$ 19,603	\$ 78,296	\$ 131,350	\$ 21,392	
<u>Utilities</u>																		
7605 Electric	4,061,572	4,409,946	4,555,391	4,375,877	923,336	1,915,420	2,944,274	3,998,159	1,145,399	2,135,190	3,097,979	3,784,526	1,429,421	2,161,575	3,537,989	4,759,105	1,223,319	-
7650 Natural Gas.City	447,035	333,770	410,764	383,385	180,995	288,758	296,283	367,363	153,313	262,279	266,300	314,785	168,954	281,433	284,621	340,044	166,267	-
7675 Telemeter	71,810	51,326	56,417	54,631	14,013	22,330	34,515	53,542	27,875	52,985	80,789	110,655	41,625	74,853	127,087	186,385	69,731	-
7680 Cellular Phone	78,054	101,589	157,602	142,408	56,484	92,450	134,938	190,291	21,409	65,060	107,311	144,037	41,208	77,339	120,719	169,538	51,272	-
7681 Local Phones	336,594	224,626	172,383	150,377	26,598	81,895	105,192	156,337	37,879	75,131	113,206	151,083	39,256	79,543	122,331	169,432	41,749	-
7682 Long Distance	829	913	847	869	99	199	347	460	110	182	182	182	-	-	-	-	-	-
7683 Internet	-	-	-	-	-	-	-	-	10,228	22,212	30,222	39,490	9,934	17,142	25,241	33,928	10,652	-
Total Utilities	\$ 4,995,893	\$ 5,122,171	\$ 5,353,404	\$ 5,107,547	\$ 1,201,524	\$ 2,401,052	\$ 3,515,549	\$ 4,766,152	\$ 1,396,213	\$ 2,613,038	\$ 3,695,988	\$ 4,544,758	\$ 1,730,398	\$ 2,691,885	\$ 4,217,988	\$ 5,658,432	\$ 1,562,991	
<u>Miscellaneous Admin</u>																		
7705 Bad Debt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7710 Capital Asset Reclass	-	-	-	(3,150,810)	-	-	-	(6,568,443)	-	-	-	(5,917,956)	-	-	-	(7,169,423)	-	-
7711 DISC Asset Reclass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7712 Cash Discount Taken	(597)	(446)	(321)	(523)	(189)	(292)	(581)	(623)	(171)	(218)	(516)	(680)	(331)	(550)	(797)	(1,959)	(1,097)	
7715 Claims.Deductibles	484,941	195,887	229,858	353,049	270,589	310,846	518,641	587,017	231,293	349,772	537,439	556,304	302,955	371,100	680,082	988,353	135,184	
7720 Customer Refund.CSM	-	-	-	-	-	-	-	-	-	-	-	(415,746)	(497,572)	(93,815)	(400,950)	(506,212)	(600,149)	(166,740)
7721 Customer Refund. AP	368,354	290,602	331,386	881,565	51,422	174,483	365,309	667,728	74,298	290,319	418,473	494,192	111,774	310,901	464,473	497,270	330,766	
7730 Fines.Penalties	131	359	600,603	15,372	-	20,000	20,000	20,500	9	20,009	22,205	24,455	9,250	12,000	27,274	27,274	-	
7735 LienBuyBkExp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7742 Education & Outreach	21,356	119,235	270,044	50,512	5,252	20,094	26,047	41,116	8,602	38,971	47,437	71,710	31,993	46,387	66,720	74,802	8,521	
7743 Employee Fund	34,028	19,356	54,722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7750 Inv.Adjustments	-	-	224,243	1,373,808	-	-	-	240,929	-	-	-	-	-	-	-	-	22,478	-
7760 Misc.Gen.Admin Exp	(4,110)	682	14	0	(0)	0	0	5,847	152	152	194	19,701	19	19	19	19	(208)	
7765 One Call	18,412	17,279	13,589	14,921	4,674	4,447	13,625	18,195	(7,696)	(34)	10,113	18,186	4,323	6,605	16,761	25,144	3,836	
7770 Publication.Subscription	5,013	5,711	5,555	4,288	9,642	10,884	11,784	24,884	4,380	5,965	7,894	14,089	6,807	5,911	7,111	21,036	3,304	
7787 3rd Pty LW Exp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7789 3rd Pty Sew Trt Exp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7799 Grants Awarded by PWSA	106,500	151,105	51,504	95,000	-	7,900	24,852	112,352	-	-	-	-	-	-	-	-	-	
Total Miscellaneous Admin	\$ 1,034,029	\$ 799,770	\$ 1,781,197	\$ (362,820)	\$ 341,390	\$ 548,362	\$ 979,675	\$ (4,850,498)	\$ 310,869	\$ 704,937	\$ 627,492	\$ (5,217,570)	\$ 372,974	\$ 351,423	\$ 755,431	\$ (6,115,155)	\$ 313,566	
GRAND TOTAL: DIRECT OPERATING EXPENSES	\$ 54,921,191	\$ 60,902,012	\$ 69,830,975	\$ 79,318,109	\$ 20,166,039	\$ 39,518,476	\$ 64,365,567	\$ 89,542,588	\$ 20,215,446	\$ 40,849,253	\$ 66,512,453	\$ 89,556,070	\$ 29,233,314	\$ 53,936,605	\$ 79,428,597	\$ 109,885,201	\$ 25,720,068	

		W	WW	SW	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	FY 2044	FY 2045	FY 2046	FY 2047	FY 2048	FY 2049	FY 2050			
					FY 2022 Forecast	FY 2023 Forecast	FY 2024 Forecast	FY 2025 Forecast	FY 2026 Forecast	FY 2027 Forecast	FY 2028 Forecast	FY 2029 Forecast	FY 2030 Forecast	FY 2031 Forecast	FY 2032 Forecast	FY 2033 Forecast	FY 2034 Forecast	FY 2035 Forecast	FY 2036 Forecast	FY 2037 Forecast	FY 2038 Forecast	FY 2039 Forecast	FY 2040 Forecast	FY 2041 Forecast	FY 2042 Forecast	FY 2043 Forecast	FY 2044 Forecast	FY 2045 Forecast	FY 2046 Forecast	FY 2047 Forecast	FY 2048 Forecast	FY 2049 Forecast	FY 2050 Forecast			
Future Debt Service					\$ 1,500,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000				
<i>Revolving Line of Credit</i>																																				
<i>Estimated Annual Interest Payment</i>					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Already Approved																																				
<i>Revenue Bonds</i>																																				
<i>Placeholder</i>																																				
<i>Principal</i>																																				
<i>Interest</i>																																				
<i>Placeholder</i>																																				
<i>Principal</i>																																				
<i>Interest</i>																																				
<i>Placeholder</i>																																				
<i>Principal</i>																																				
<i>Interest</i>																																				
<i>Subtotal: Revenue Bonds</i>					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<i>Subordinate Debt</i>																																				
<i>Placeholder</i>																																				
<i>Principal</i>																																				
<i>Interest</i>																																				
<i>Placeholder</i>																																				
<i>Principal</i>																																				
<i>Interest</i>																																				
<i>Subtotal: Subordinate Debt</i>					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Subtotal: Already Approved</i>					\$ 1,500,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000		
Forecasted Debt Service																																				
<i>Revenue Bonds</i>																																				
<i>Initial Amt.</i>																																				
<i>Rate</i>																																				
<i>Term</i>																																				
<i>Prem</i>																																				
<i>Premium</i>																																				
<i>DSRF</i>																																				
<i>Issue Amt</i>																																				
<i>FY 2023</i>					80,000,000	3.50%	30	15.00%	(12,000,000)	6,232,000	74,232,000																									
<i>Principal</i>									4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093	4,036,093
<i>Interest</i>									\$1,437,973	\$1,437,973	1,488,302	1,594,392	1,767,636	1,829,535	1,959,809	2,028,402	2,099,397	2,172,875	2,248,926	2,327,693	2,409,106	2,493,425	2,580,694	2,671,019	2,764,504	2,861,262	2,961,406	3,065,055	3,172,332	3,283,364	3,398,282	3,517,222	3,639,283	3,712,222	3,812,222	
<i>FY 2024</i>					50,000,000	3.50%	30	15.00%	(7,500,000)	3,895,000	46,395,000																									
<i>Principal</i>									2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558	2,522,558
<i>Interest</i>									\$898,733	\$898,733	930,189	962,745	996,441	1,031,317	1,067,413	1,104,722	1,143,439	1,183,460	1,224,881	1,267,752	1,312,123	1,358,047	1,405,579	1,454,774	1,505,691	1,558,390	1,612,934	1,669,387	1,727,815	1,788,289	1,850,879	1,915,660	1,982,708	2,052,103	2,123,926	2,198,632
<i>FY 2025</i>					199,989,895	3.50%	30	15.00%	(29,998,484)	15,579,213	185,570,624																									
<i>Principal</i>									5,044,861	5,044,861	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722	10,089,722
<i>Interest</i>									\$1,623,825	\$1,623,825	1,592,369	1,559,813	1,526,117	1,491,241	1,455,495	1,419,704	1,379,119	1,339,098	1,297,677	1,254,806	1,210,435	1,164,511	1,116,979	1,067,784	1,016,867	964,168	909,624	853,171	794,743	734,269	671,679	606,998	539,850	470,455	398,632	
<i>FY 2026</i>					161,616,818	3.50%	30	15.00%	(24,242,523)	12,899,950	149,964,245																									
<i>Principal</i>									4,076,878	4,076,878	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756	8,153,756
<i>Interest</i>																																				

Appendix K- Capital Project Update

Project Name	Project Number	Commitment Rule	Potential Funding Source(s)	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status	Commitment Approved Date
Aspinwall Pump Station to Lanpher Reservoir Rising Main	2018-323-100-0	Controlled Total	Capital Bond	HAMPTON SHALER WATER AUTHORITY	PO42495	Other Services	Reimbursement to Hampton (HSWA)	Approved	06.30.2022
The Julian - Private Construction of Public Facilities	2022-DEV-104-0	Controlled Total		H.R. Gray and Associates, Inc. (Capital)	PO42494	CM-CI	HRG-CM-19 CM/CI	Approved	06.28.2022
Herron Hill Reservoir Improvements: Sodium Hypochlorite Building - Electrical	2019-323-100-2	Controlled Total	Capital Bond	ALLEGHENY CITY ELECTRIC, INC. (Capital)	PO39915	General Contractor	Herron Hill Reservoir Improvements	Approved	06.23.2022
2021 Small Diameter Water Main Replacement Contract A	2020-325-106-0	Controlled Total	Capital Bond	East Woods Consultants. LLC (Penn Vest)	PO42466	Other Services	LSLR Consulting	Approved	06.22.2022
2021 Small Diameter Water Main Replacement Contract A	2020-325-106-0	Controlled Total	Capital Bond	MICHAEL BAKER, INC. (Pennvest)	PO42480	CM-CI	MBI-CM-12 CM/CI	Approved	06.22.2022
2021 Small Diameter Water Main Replacement Contract A	2020-325-106-0	Controlled Total	Capital Bond	Koryak Consulting, Inc. (Penn Vest)	PO42475	Other Services	Leadline maintenance and modification	Approved	06.22.2022
2021 Small Diameter Water Main Replacement Contract A	2020-325-106-0	Controlled Total	Capital Bond	HATCH ASSOCIATES CONSULTANTS, INC. (PennVest)	PO42463	CM-CI	HT-CM-27 CM/CI	Approved	06.22.2022
2021 Small Diameter Water Main Replacement Contract A	2020-325-106-0	Controlled Total	Capital Bond	MOTT MACDONALD (PennVest)	PO42479	Program Management	MM-PRGM-32 PM Services	Approved	06.22.2022
Highland Reservoir Pump Station and Rising Main	2017-323-101-0	Controlled By Commitment Item	Capital Bond	ALLEGHENY COUNTY CONSERVATION DIST	PO42401	Other Services	ACCD NPDES Permit - Minor Amendment Fee	Approved	06.17.2022
2019 Small Diameter Water Main Replacement - Second Ave & Tecumseh St	2019-325-101-1	Controlled By Commitment Item	Capital Bond	CSX TRANSPORTATION (Capital)	PO42402	Other Services	Flagging Costs	Approved	06.17.2022
Water and Wastewater Safety and Security Improvements	2022-325-101-0	Controlled By Commitment Item	Capital Bond	Surveillance Group inc (Capital)	PO41973	Other Services	Security Improvements	Approved	06.15.2022
20013.08 Cal-Bride Place	2021-DEV-108-0	Uncontrolled	Capital Bond	H.R. Gray and Associates, Inc. (Capital)	PO42211	CM-CI	HRG-CM-14 CM/CI	Approved	06.15.2022
Highland Reservoir Pump Station and Rising Main	2017-323-101-0	Controlled By Commitment Item	Capital Bond	CITY OF PITTSBURGH	PO41388	Other Services	Building Permit	Approved	06.15.2022
2019 Small Diameter Water Main Replacement - Second Ave & Tecumseh St	2019-325-101-1	Controlled By Commitment Item	Capital Bond	ALLEGHENY VALLEY RAIROAD COMPANY (Capital)	PO41555	Other Services	Allegheny Valley Railroad Flaggers	Approved	06.15.2022
2022 Water Relay	2021-325-110-0	Controlled By Commitment Item	Capital Bond	M. O'HERRON COMPANY (Capital)	PO41617	General Contractor	Water Relay repair	Approved	06.15.2022
Volunteers Field Ballfield Regrading	2018-GI-104-1	Controlled By Commitment Item	Capital Bond	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO42351	Stormwater Systems & GI	JMT-S&GI-31 Design Services During Construction	Approved	06.15.2022
Lawn and Ophelia Green Infrastructure Project	2017-424-104-0	Controlled By Commitment Item	Capital Bond	FRANK J ZOTTOLA CONSTRUCTION, INC. (Capital)	PO41760	General Contractor	Construction Contract	Approved	06.15.2022
Aspinwall Pump Station to Lanpher Reservoir Rising Main	2018-323-100-0	Controlled By Commitment Item	Capital Bond	AECOM TECHNICAL SERVICES, INC.	PO42353	CM-CI	AE-CM-11 Constructability Review	Approved	06.15.2022
Aspinwall WTP Filter Building Sodium Hypochlorite Improvements - Electrical	2017-322-101-11	Controlled Total	Capital Bond	MERIT ELECTRICAL GROUP, INC. (Capital)	PO41022	General Contractor	Electrical Furnishing and installation	Approved	06.14.2022
Aspinwall WTP Filter Building Sodium Hypochlorite Improvements - Plumbing	2017-322-101-10	Controlled Total	Capital Bond	NEWMAN PLUMBING, INC. (Capital)	PO40988	General Contractor	Installation of new water lines	Approved	06.14.2022
6122 and 6150 Mifflin Road Demolition	2022-424-104-0	Controlled By Commitment Item	Capital Bond	Sci-Tek Consultants, Inc. (Capital)	PO40898	Other Services	Asbestos survey	Approved	06.10.2022
2022 Neighborhood Lead Service Line Replacement Program	2021-325-109-0	Controlled By Commitment Item	Capital Bond	120 Water Audit, LLC (Capital)	PO42209	Other Services	Sample Collection & Lead Testing - 1 year	Approved	06.08.2022
Clearwell Emergency Response Project	2017-323-100-0	Controlled By Commitment Item	Capital Bond	MOTT MACDONALD (Capital)	PO42217	Water Systems	MM-WTR-45 Clearwell Bypass System	Approved	06.01.2022
Lanpher Reservoir Improvements	2017-323-105-0	Controlled By Commitment Item	Capital Bond	COMMONWEALTH OF PENNSYLVANIA C/O DEP (DEPT.ENVIRONMENTAL PROTEC.	PO42210	Other Services	PADEP PWS Permit Application	Approved	06.01.2022
2022 Water Relay	2021-325-110-0	Controlled By Commitment Item	Capital Bond	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO42212	Water Systems	JMT-WTR-30 Design Services	Approved	06.01.2022
2022 Water Relay	2021-325-110-0	Controlled By Commitment Item	Capital Bond	H.R. Gray and Associates, Inc. (Capital)	PO42216	CM-CI	HRG-CM-18 CM/CI	Approved	06.01.2022
Aspinwall Pump Station to Lanpher Reservoir Rising Main	2018-323-100-0	Controlled By Commitment Item	Capital Bond	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO42213	Water Systems	JMT-WTR-28 Design Services	Approved	06.01.2022
2019 Large Diameter Water Main Improvements (Rising Main 3 & 4)	2019-325-103-0	Controlled By Commitment Item	Capital Bond	AECOM TECHNICAL SERVICES, INC.	PO42214	CM-CI	AE-CM-15 Constructability Review	Approved	06.01.2022
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Controlled By Commitment Item	Capital Bond	CDM SMITH, INC.	PO42012	Water Systems	CDM-WTR-04 Professional Services	Approved	05.26.2022
Wightman Park Phase 2 Project	2017-424-105-1	Controlled By Commitment Item	Capital Bond	ethos collaborative (capital)	PO42034	Stormwater Systems & GI	EC-S&GI-03 Design Services	Approved	05.25.2022
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Controlled By Commitment Item	Capital Bond	AECOM TECHNICAL SERVICES, INC.	PO42032	CM-CI	AE-CM-16 CM/CI	Approved	05.20.2022



The Pittsburgh Water and Sewer Authority

2022 – 2026 Capital Improvement Plan

Approved on September 24, 2021



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Introduction

The Pittsburgh Water and Sewer Authority (“**the Authority**” or “**the PWSA**”) is a body corporate and politic organized and existing under the Act pursuant to Resolution No. 36 of the Council of the City of Pittsburgh (the “**City**”), duly enacted on February 6, 1984, approved by the Mayor on February 8, 1984, and effective February 16, 1984. The Secretary of the Commonwealth of Pennsylvania approved the Authority’s Articles of Incorporation and issued a Certificate of Incorporation on February 17, 1984. Articles of Amendment were approved and a Certificate of Amendment was issued by the Pennsylvania Department of State on December 11, 1989, to include, among authorized projects, low head dams and facilities for generating surplus electric power. Articles of Amendment were approved and a Certificate of Amendment was issued by the Pennsylvania Department of State on May 9, 2008, to extend the term of existence of the Authority to May 21, 2045. Articles of Amendment were approved and a Certificate of Amendment was issued by the Pennsylvania Department of State on March 19, 2020, to extend the term of existence of the Authority to March 13, 2070 and to include stormwater systems.

Under its Articles of Incorporation, the Authority is specifically authorized to acquire, hold, construct, finance, improve, maintain, operate, own and lease, either as lessor or lessee, projects of the following kinds and character: sewers, sewer systems or parts thereof, waterworks, water supply works, and water distribution systems, low head dams, facilities for generating surplus power, and stormwater systems.

The System provides water to approximately 81,000 customers or 84% of the total population in the geographic boundaries of the City. The Authority provides wastewater collection and transmission service to almost the entire City, estimated at 306,000 residents. The System does not include wastewater treatment facilities; such facilities are the responsibility of Allegheny County Sanitary Authority (“**ALCOSAN**”), a separate and distinct legal entity.

The Authority operates and maintains a 117 million gallon per day (MGD) rapid sand type water treatment plant, a 26 MGD microfiltration plant, approximately 964 miles of water mains, over 32,000 valves and fire hydrants, 1 raw water pump station, 10 finished water pump stations, 4 in-ground reservoirs, 10 storage tanks, approximately 1,220 miles of sanitary, storm and combined sewers, 29,000 manholes, 30,000 catch basins and inlets, 38 combined sewer overflow outfalls, 185 storm outfalls, and four wastewater pump stations.

Pennsylvania Public Utility Commission Oversight of the Authority

On December 21, 2017, the Pennsylvania legislature enacted Act 65 of 2017 (“**Act 65**”), placing the Authority under the jurisdiction of the Pennsylvania Public Utility Commission (“**PUC**”) pursuant to the Pennsylvania Public Utility Code (the “**Public Utility Code**”). Act 65 applies most of the provisions of the Public Utility Code to the Authority in the same manner as a “public utility,” resulting in regulation of the Authority’s rate making, its operating effectiveness, debt issuances and other aspects of conducting its business similar to the way the PUC regulates investor-owned utilities. Act 65 includes provisions that allow the Authority to impose, charge or collect rates or charges as necessary to permit the Authority to comply with its covenants with the holders of any bonds or other financial obligations of the Authority, and prohibits the PUC from requiring the Authority to take any action that would cause the interest on the Authority’s financial obligations to be includible in gross income of the holders of such obligations for federal income tax purposes.

Capital Improvement Program

Overview

The PWSA's Capital Improvement Program (CIP) focuses on sustaining cost-effective operations, while optimizing the system's asset performance and life expectancy. The 2022-2026 Capital Improvement Program invests in programs which consider risk and consequence of asset failure and levels of service benefits.

Development and Approval Process

The PWSA’s CIP process begins each year in May when project nominations are solicited from the entire organization. At the completion of the nomination period, the Finance Department screens and evaluates the nominated projects to determine the projects that should be included in the CIP. Further planning efforts consist of the preparation of a project sheet, which provides more detailed information on a project’s potential scope options, risks, schedule, and the cost

estimate. This process lasts several months and culminates with the presentation of the updated CIP to PWSA’s Board of Directors. Projects that are not selected for execution at any stage will be re-assessed during the next year’s CIP development process.

Capital Project Prioritization

Due to funding limitations and the need to renew/replacing a significant amount of aging infrastructure, the following criteria are used to evaluate and prioritize capital projects:

- Capacity – Meets community health needs and growth, as needed
- Level of Service – Improvement to customer service
- Operations and Maintenance Efficiency – Potential for operating cost savings
- Regulatory Compliance – Regulatory compliance schedule and potential fines for non-compliance
- Regional Cooperation/Stewardship – Coordination with external stakeholders and local communities
- Reliability/Operational Flexibility – Location, age, and condition of infrastructure and risk if action is not taken
- Safety - Potential health and safety risks to personnel and the public if action is not taken
- Sustainability – Energy efficiency and “green” approach to improving water quality

Funding Sources

The PWSA Capital Improvement Program is funded through several primary sources to which specific programs and projects are allocated. These funding sources include, but are not limited to, Debt (Revenue Bonds), Distribution System Improvement Charge (“**DSIC**”), Water Infrastructure Finance and Innovation Act (“**WIFIA**”), Pennsylvania Infrastructure Investment Authority (“**PENNVEST**”), and cost shares with other entities.

Capital Improvement Plan Organization

The CIP is organized into six project classes (types):

- Water Treatment Plant
- Water Pumping and Storage
- Water Distribution
- Wastewater System
- Stormwater
- Miscellaneous

Each project class is then made up of individual projects. Projects are defined based upon current information, which range from annual allowances for asset renewal and/or replacement activities, to major, multiple phase facility renewal projects.

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Project Information

The following information is provided for each project:

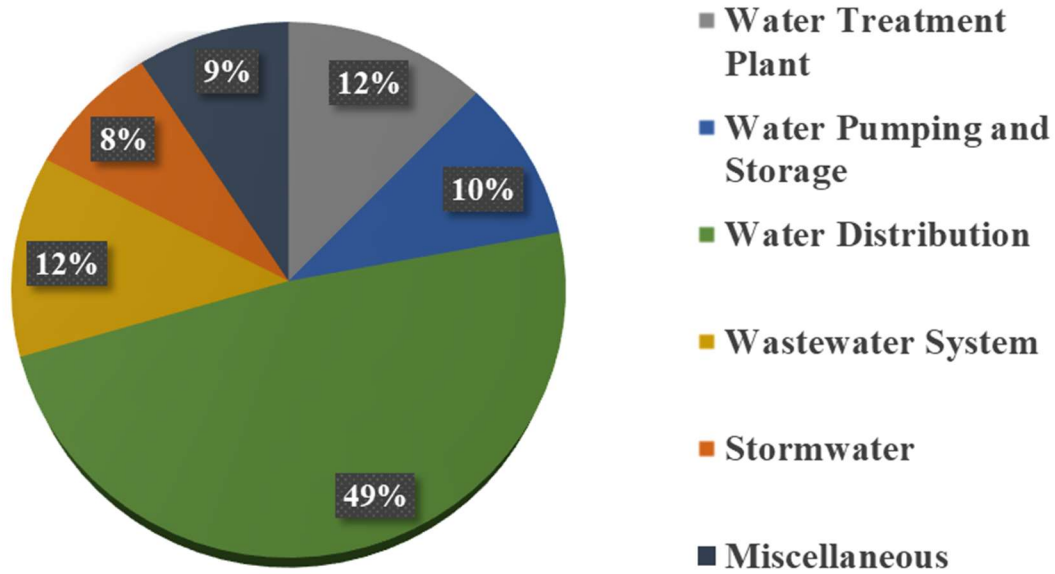
- **Alternatives to the Recommended Action** – Lists the alternatives that were considered or evaluated.
- **Cash Flow Summary** – Estimated five-year cash flow for the project.
- **Funding Source(s)** – Proposed funding source(s) for the project.
- **Impact on Operations** – Describes the anticipated impact to the PWSA’s operations when the project is completed.
- **Phase** – Phase in the project life-cycle (i.e. assessment/design/construction).
- **Priority** – Criteria utilized to prioritize the project.
- **Project Class** – Type of project.
- **Project Description** - A basic understanding of the project’s intent and scope of work.
- **Project Justification** - A detailed explanation to why the project is needed.
- **Project Name** – Descriptive name assigned to the project.
- **Project Number** – Unique number(s) assigned to track the project from inception to completion. This number is established once a project is approved.
- **Risk(s)** - Outlines the risk(s) to the PWSA if the project is delayed or is not selected.
- **Ward** – Project location(s) based within the City of Pittsburgh.

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Historical and Forecasted Capital Expenditures

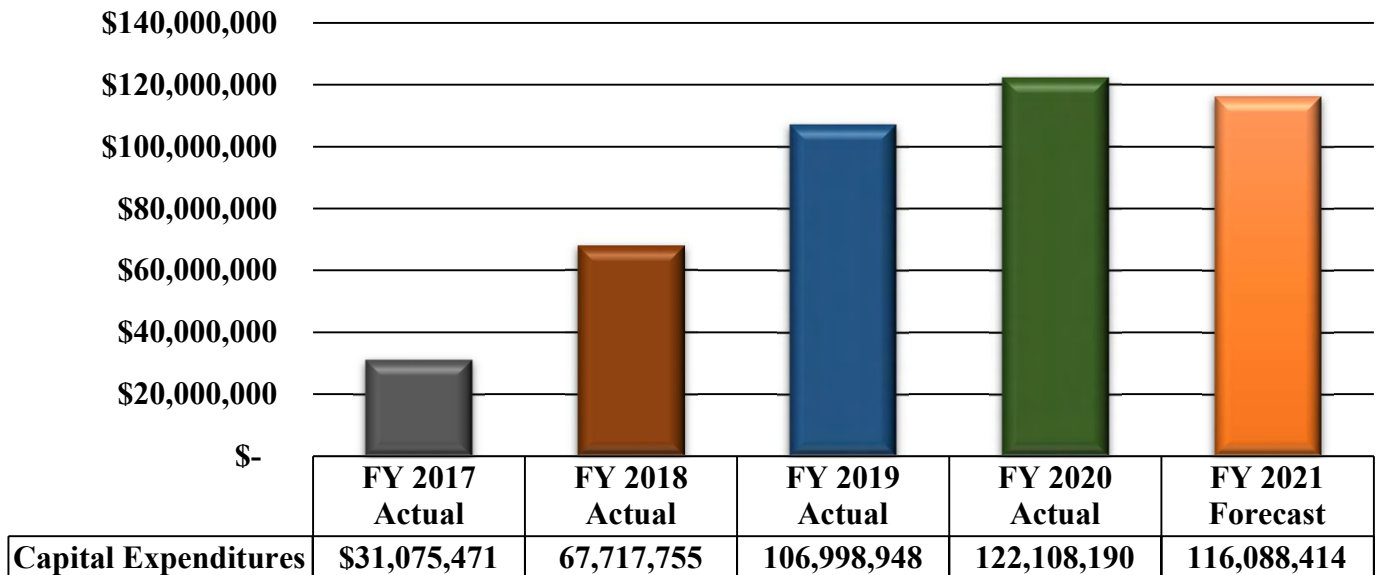
The figures below illustrate the historical capital expenditures by project class for FY 2017 – FY 2020 as well as the historical and forecasted capital expenditures for FY 2017 – FY 2020.

Figure 1. Historical Capital Expenditures by Project Class: FY 2017 – FY 2020



	FY 2017 - Actual	FY 2018 - Actual	FY 2019 - Actual	FY 2020 - Actual	Total
Water Treatment Plant	\$ 8,156,719	7,275,878	15,665,185	8,959,256	\$ 40,057,038
Water Pumping and Storage	3,562,479	11,732,850	9,667,165	7,304,722	32,267,216
Water Distribution	11,113,101	27,185,518	55,588,889	64,838,953	158,726,461
Wastewater System	6,768,668	9,225,987	15,152,656	8,767,047	39,914,357
Stormwater	953,003	3,156,175	6,901,255	15,791,622	26,802,056
Miscellaneous	521,500	9,141,347	4,023,798	16,446,590	30,133,235
<i>Total</i>	\$ 31,075,471	67,717,755	106,998,948	122,108,190	\$ 327,900,363

Figure 2. Historical and Forecasted Capital Expenditures: FY 2017 – FY 2021



2022-2026 Capital Improvement Program

The figures below illustrate the proposed breakdown of the project classes, funding sources, and yearly cash flows for the 2022 to 2026 CIP.

Figure 3. Proposed Yearly Capital Cash Flow by Project Class

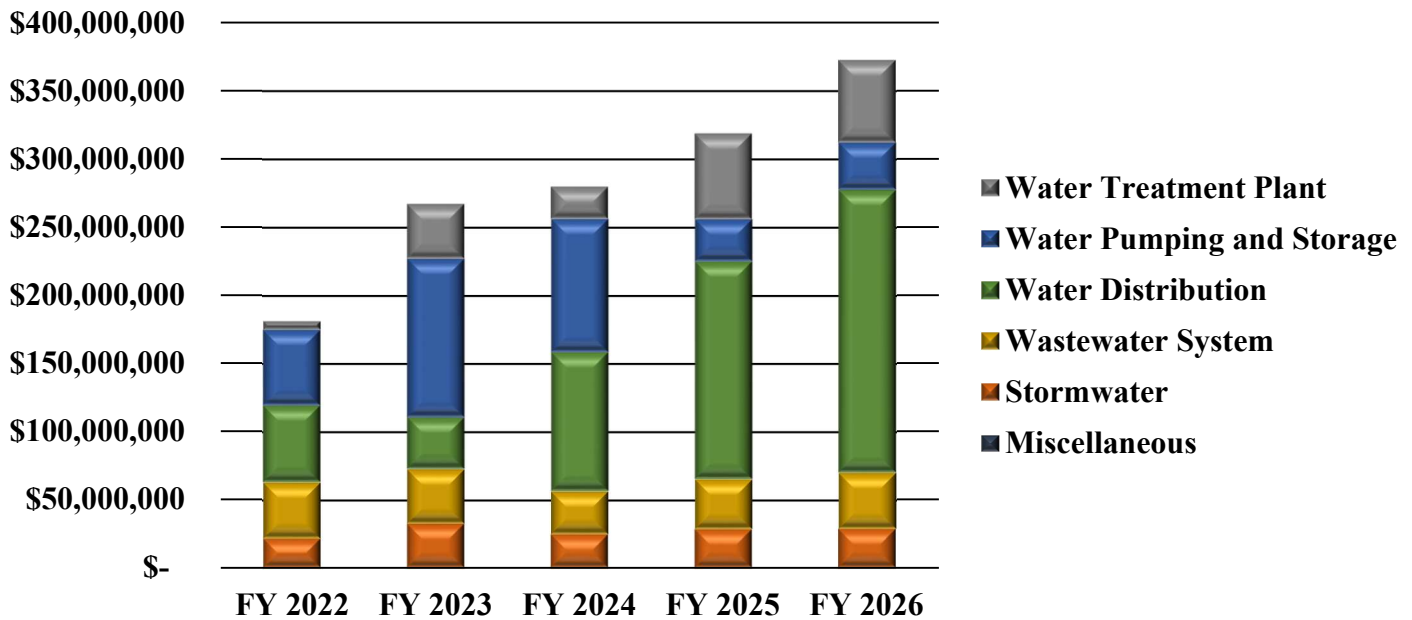


Figure 4. Capital Requirements

	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Water Treatment Plant	\$ 6,253,411	40,203,269	23,635,598	63,090,666	60,553,378	\$ 193,736,322
Water Pumping and Storage	55,208,438	116,218,583	97,821,934	31,065,026	34,807,862	335,121,843
Water Distribution	56,341,652	38,235,780	101,841,026	159,347,537	192,324,062	548,090,057
Wastewater System	41,130,789	39,817,206	31,616,345	36,661,046	41,222,673	190,448,059
Stormwater	21,424,273	31,199,088	21,833,007	29,166,709	30,825,000	134,448,077
Miscellaneous	500,000	500,000	500,000	500,000	500,000	2,500,000
Total Capital Requirements	\$ 180,858,563	266,173,926	277,247,910	319,830,984	360,232,975	\$ 1,404,344,358

Figure 5. Funding Sources

	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Debt (Revenue Bonds)	\$ 119,603,457	119,915,563	189,081,514	271,641,162	334,482,321	\$ 1,034,724,017
DSIC - Water	5,986,230	5,953,703	6,063,439	6,153,666	6,412,385	30,569,423
DSIC - Wastewater	2,630,630	2,656,936	2,666,963	2,666,963	2,666,963	13,288,455
PENNVEST	52,638,246	21,323,928	5,287,162	-	-	79,249,336
WIFIA	-	116,323,796	74,148,832	39,369,193	16,671,306	246,513,127
Total Funding Sources	\$ 180,858,563	266,173,926	277,247,910	319,830,984	360,232,975	\$ 1,404,344,358



2022-2026 Project Summary



Page	Project Name	2022 Budget	2023 Budget	2024 Budget	2025 Budget	2026 Budget	Total
Project Class: Water Treatment Plant							
11	Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	\$ 30,000	-	-	-	-	\$ 30,000
12	Aspinwall Utility Water Improvements - Electrical/General/Mechanical	521,923	-	-	-	-	521,923
13	Aspinwall Water Treatment Plant Electrical and Backup Power Improvements	168,365	1,010,185	689,410	10,210,480	11,135,000	23,213,440
14	Aspinwall Water Treatment Plant Filter Improvements	168,582	1,369,732	1,211,686	-	-	2,750,000
15	Aspinwall Water Treatment Plant Filter Building Sodium Hypochlorite Improvements	2,233,047	1,558,561	-	-	-	3,791,608
16	Aspinwall Water Treatment Plant Raw Water Intakes	-	357,996	1,974,899	71,053	17,171,053	19,575,001
17	Aspinwall Water Treatment Plant Raw Water Intakes - East Intake	-	-	887,019	1,436,538	2,103,923	4,427,480
18	Clearwell Emergency Response Project	264,633	24,892,208	2,260,923	-	-	27,417,764
19	Clearwell Improvements	-	4,371,917	2,552,815	33,413,454	16,671,306	57,009,492
20	Chemical Feed Modernization Project	817,860	1,387,333	10,039,689	6,255,118	-	18,500,000
21	Corrosion Control Chemical Storage & Feed Systems	90,618	-	-	-	-	90,618
22	Highland Park Microfiltration Plant Improvements Project	444,500	-	-	-	-	444,500
23	Hydraulic Valve Replacement Program	-	179,885	216,092	2,854,023	-	3,250,000
24	Instrumentation Upgrade	693,333	346,667	-	-	-	1,040,000
25	Lime Slurry System Improvements	514,036	1,588,364	-	-	-	2,102,400
26	Phase 1 Sedimentation Basin Rehabilitation and Water Treatment Plant Gate Valve and 84-inch Coupling Project	306,513	2,490,421	2,203,065	-	-	4,999,999
27	Phase 2 Sedimentation Basin Rehabilitation Project	-	-	-	-	790,230	790,230
28	Post-Filter Chemical System Improvements	-	-	-	-	827,586	827,586
29	Rapid Mix and Clarifier Improvements Project	-	650,000	1,600,000	8,850,000	11,854,280	22,954,280
Total: Water Treatment Plant		\$ 6,253,411	40,203,269	23,635,598	63,090,666	60,553,378	\$ 193,736,322

Project Class: Water Pumping and Storage							
31	Aspinwall Pump Station Improvements	\$ 207,410	10,981,236	14,572,511	3,643,128	-	\$ 29,404,285
32	Aspinwall Pump Station to Lanpher Reservoir Rising Main	19,516,813	46,342,177	27,011,250	-	-	92,870,240
33	Aspinwall Water Treatment Plant Chemical Unloading Improvements	134,466	556,503	-	-	-	690,969
34	Bruecken Pump Station Improvements	351,519	25,468,015	27,751,333	2,312,611	-	55,883,478
35	Facility Underground Storage Tank Removal and Replacement	134,466	556,503	-	-	-	690,969
36	Chlorine Booster Station Improvements	584,615	5,051,280	3,544,992	-	-	9,180,887
37	Disinfection By-Products Mitigation	1,293,960	969,835	189,092	-	-	2,452,887
38	Garfield Tank Improvements	-	122,198	244,397	128,017	1,916,678	2,411,290
39	Herron Hill Pump Station Improvements	-	602,429	720,330	4,829,119	4,808,123	10,960,001
40	Herron Hill Reservoir Improvements	36,846	-	-	-	-	36,846
41	Herron Hill Reservoir Improvements - Sodium Hypochlorite Building	2,423,993	-	-	-	-	2,423,993
42	Herron Hill Tank Pump Station Improvements	-	61,012	72,953	489,080	486,954	1,109,999
43	Highland 1 Reservoir Liner	-	-	-	-	704,981	704,981
44	Highland No. 2 Reservoir Improvements	22,052,489	2,661,400	-	-	-	24,713,889
45	Highland Reservoir Pump Station and Rising Main	4,890,823	13,598,197	13,598,197	1,133,183	-	33,220,400
46	Howard Pump Station Improvements	-	-	1,025,118	1,225,744	8,217,433	10,468,295
47	Inline Pump Station (Coral and Pacific) Improvements	-	-	70,443	90,312	439,245	600,000
48	Lanpher Reservoir Improvements	2,416,588	6,572,044	2,738,352	-	-	11,726,984
49	Lincoln Pump Station: Bypass Pump Station Project	433,867	295,661	-	-	-	729,528
50	Lincoln Pump Station Improvements	-	60,577	506,374	738,049	-	1,305,000
51	Lincoln Tank Improvements	230,583	275,710	1,848,372	1,840,335	-	4,195,000
52	Mission Pump Station Improvements	-	927,003	1,108,428	7,430,939	7,398,630	16,865,000
53	Pump Station Architectural	-	-	-	-	2,500,000	2,500,000
54	Pump Station Security	-	-	500,990	1,348,081	1,332,435	3,181,506
55	Ross Pump Station	-	-	416,260	2,497,561	2,121,575	5,035,396
56	Saline Pump Station Improvements	-	-	109,343	71,674	874,594	1,055,611
57	Spring Hill Tank Improvements	-	116,803	139,663	936,303	932,232	2,125,001
58	Tank Reservoir Security	500,000	1,000,000	1,653,536	2,350,890	3,074,982	8,579,408
Total: Water Pumping and Storage		\$ 55,208,438	116,218,583	97,821,934	31,065,026	34,807,862	\$ 335,121,843

Page	Project Name	2022 Budget	2023 Budget	2024 Budget	2025 Budget	2026 Budget	Total
Project Class: Water Distribution							
60	Bus Rapid Transit Water Distribution	\$ 4,299,135	-	-	-	-	\$ 4,299,135
61	District Metering Program	-	-	-	2,600,000	1,536,923	4,136,923
62	Duck Hollow Main Replacement	326,289	2,418,432	219,737	-	-	2,964,458
63	Herron Hill - Squirrel Hill Boundary Adjustments	-	-	-	52,929	355,187	408,116
64	Inoperable Curb Stop Repair and Replacement Program	500,000	500,000	500,000	500,000	500,000	2,500,000
65	Intermediate Diameter Water Main Replacement Program	-	-	1,283,549	2,825,448	21,906,451	26,015,448
66	Intermediate Meter Replacement Program	122,296	81,666	84,500	86,667	87,000	462,129
67	Large Diameter Water Main Replacement Program	15,030,564	15,066,385	26,402,678	8,560,476	18,803,966	83,864,069
68	Large Meter Replacement Program	1,571,313	1,362,979	507,996	337,000	337,000	4,116,288
69	Lead Service Identification Program	500,000	-	-	-	-	500,000
70	Low Pressure Area Remediation	-	-	-	1,393,833	-	1,393,833
71	Neighborhood Lead Service Line Replacement Program	-	-	27,792,500	55,585,000	27,792,500	111,170,000
72	North Side Boundary Adjustments	-	-	-	79,393	532,780	612,173
73	Private Lead Service Line Reimbursement Program	1,274,537	1,000,000	1,000,000	1,000,000	1,000,000	5,274,537
74	Regulator Valve and Vault Replacement Program	232,420	1,321,957	1,557,942	2,567,270	3,879,940	9,559,529
75	Small Diameter Water Main Replacement Program	23,802,324	9,235,175	35,157,679	77,481,962	109,063,535	254,740,675
76	Small Meter Replacement Program	2,114,155	1,713,417	1,323,009	416,666	250,000	5,817,247
77	South Side Slopes Boundary Adjustments	-	-	-	79,393	532,780	612,173
78	Unmetered and Flat Rate Properties	462,500	500,000	-	-	-	962,500
79	Urgent Lead Service Line Replacement	1,399,500	1,170,000	1,079,000	1,046,500	1,011,000	5,706,000
80	Valve Replacement Program	1,228,536	1,930,769	2,997,436	2,800,000	2,800,000	11,756,741
81	Water Relay Program	1,978,083	1,935,000	1,935,000	1,935,000	1,935,000	9,718,083
82	Water and Wastewater Safety and Security Improvements	1,500,000	-	-	-	-	1,500,000
Total: Water Distribution		\$ 56,341,652	38,235,780	101,841,026	159,347,537	192,324,062	\$ 548,090,057
Project Class: Wastewater System							
84	31st Ward Pump Station and Appurtenances - Phase 2	\$ 110,521	1,090,000	999,167	4,412,750	7,447,000	\$ 14,059,438
85	Browns Hill Road Sewer Pump Station Replacement	248,000	370,100	1,081,900	-	-	1,700,000
86	Large Diameter Sewer Rehabilitation Program	5,700,224	4,993,711	3,824,429	4,660,000	4,900,000	24,078,364
87	Maytide Storm and Sanitary Sewer System Improvements	82,584	3,921,723	1,072,559	-	-	5,076,866
88	M-29 Outfall Improvements	1,804,376	-	-	-	-	1,804,376
89	Queenston Sewer Improvements	1,931,853	213,197	-	-	-	2,145,050
90	Sewer Reconstruction Program	3,201,777	1,999,781	1,810,000	1,810,000	1,886,458	10,708,016
91	Sewers Under Structures Program	3,253,531	7,551,477	2,679,036	3,297,524	3,428,125	20,209,693
92	Small Diameter Sewer Rehabilitation Program	24,797,923	19,677,217	20,149,254	22,480,772	23,561,090	110,666,256
Total: Wastewater System		\$ 41,130,789	39,817,206	31,616,345	36,661,046	41,222,673	\$ 190,448,059
Project Class: Stormwater							
94	Braywood Stormwater Improvements	\$ 105,000	804,000	-	-	-	\$ 909,000
95	Bus Rapid Transit Stormwater Infrastructure Improvements	1,039,288	480,771	-	-	-	1,520,059
96	Catch Basin and Inlet Replacement Program	4,238,472	7,113,750	8,034,541	8,166,709	8,325,000	35,878,472
97	Dragoon Way Stormwater Improvements	135,000	1,028,000	-	-	-	1,163,000
98	Fleury Way Stormwater Infrastructure Improvements	601,468	-	-	-	-	601,468
99	Four Mile Run Stormwater Infrastructure Improvements	3,333,541	7,272,993	5,750,510	-	-	16,357,044
100	Haverhill Street Improvements Project	115,000	585,000	-	-	-	700,000
101	Lawn and Ophelia	756,249	-	-	-	-	756,249
102	Martin Luther King Field Stormwater Infrastructure Improvements	539,936	3,812,297	-	-	-	4,352,233
103	Maryland Avenue Stormwater Infrastructure Improvements	1,795,488	-	-	-	-	1,795,488

Page	Project Name	2022 Budget	2023 Budget	2024 Budget	2025 Budget	2026 Budget	Total
Project Class: Stormwater (Continued)							
104	Nobles Lane Stormsystems Improvements	\$ 158,916	-	-	-	-	\$ 158,916
105	Saw Mill Run Municipal Separate Storm Sewer System Compliance	-	-	-	1,000,000	2,500,000	3,500,000
106	Saw Mill Run Watershed Improvements	200,000	500,000	300,000	-	-	1,000,000
107	Southside Flats Sewer Separation	513,000	2,383,194	630,806	-	-	3,527,000
108	Southside Stormwater Infrastructure Improvements	1,114,451	2,842,000	403,500	-	-	4,359,951
109	Stewart Avenue Stormwater Infrastructure Project	299,400	1,910,156	894,444	-	-	3,104,000
110	Thomas and McPherson Stormwater Infrastructure Improvements	4,060,230	462,800	-	-	-	4,523,030
111	Volunteer's Field Stormwater Infrastructure Improvements	853,776	83,333	-	-	-	937,109
112	Wet Weather Program Projects	-	-	5,000,000	20,000,000	20,000,000	45,000,000
113	Wightman Park Stormwater Infrastructure Improvements (Phase 1 & 2)	424,789	-	-	-	-	424,789
114	Winchester Drive at Grovemount Stormsystem Improvements	201,597	-	-	-	-	201,597
115	Woodland Road Stormwater Infrastructure Improvements	577,528	-	-	-	-	577,528
116	Woods Run Stream Removal Stormwater Infrastructure Improvements	361,144	1,920,794	819,206	-	-	3,101,144
Total: Stormwater		\$ 21,424,273	31,199,088	21,833,007	29,166,709	30,825,000	\$ 134,448,077
Project Class: Miscellaneous							
118	Utility Cost Shares	500,000	500,000	500,000	500,000	500,000	2,500,000
Total: Miscellaneous		\$ 500,000	500,000	500,000	500,000	500,000	\$ 2,500,000



Water Treatment Plant



Water Treatment Plant

Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements

PROJECT NUMBER: 2017-322-101-0

WARD: Systemwide

PHASE: Design
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency
PROJECT DESCRIPTION: Improvements to pretreatment chemical and clarification systems to provide improved water treatment capabilities. This project is the parent project for all of the clarification and pre-treatment related projects.
PROJECT JUSTIFICATION: Chemical treatment systems are critical to producing safe drinking water. The storage and pumping component of the systems have reached the end of their useful life and need to be replaced.
RISK(S): Inefficient operation of chemical systems results in increased operating costs, including chemical consumption, labor, solids generation and disposal, and wear on equipment.
IMPACT ON OPERATIONS: Increased operating efficiency, flexibility, reliability, and life expectancy and improved safety conditions for staff.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$16,340,928	30,000	0	0	0	0	\$30,000	

Water Treatment Plant

Aspinwall Utility Water Improvements - Electrical/General/Mechanical

PROJECT NUMBER: 2017-322-101-4 / 5

WARD: Systemwide

PHASE: Construction
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency
PROJECT DESCRIPTION: This project includes electrical work related to installation of heaters and SCADA as well as pipe demolition, pipe and appurtenance installation for the Water Treatment Plant's potable and non-potable water line system.
PROJECT JUSTIFICATION: Electrical systems at the Water Treatment Plant have reached the end of their useful life and need to be replaced. Water piping throughout the Water Treatment Plant has come to the end of it's service life. Failure of this piping would result in interruptions to the ability to feed treatment chemicals.
RISK(S): Failure of critical electrical systems at the Water Treatment Plant. Potable and non-potable water piping throughout the plant has come to the end of it's service life. This piping system is critical to the operations at the Water Treatment Plant.
IMPACT ON OPERATIONS: Increased operating efficiency, flexibility, reliability, and life expectancy and improved safety conditions for staff.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$901,899	521,923	0	0	0	0	\$521,923	

Water Treatment Plant

Aspinwall Water Treatment Plant Electrical and Backup Power Improvements

PROJECT NUMBER: 2017-322-100-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Improvements to electrical systems at the Water Treatment Plant, including provisions for stand-by or backup power systems, upgrades to existing electrical distribution system, replacement of motor control centers, and associated panels, conduit, wiring, and systems.

PROJECT JUSTIFICATION:

Electrical systems at the Water Treatment Plant have generally met the end of their useful lives and spare/replacement parts are unavailable.

RISK(S):

Electrical power is critical to maintain pumping and treatment of water. Failure of these systems will result in the inability to produce water to meet demand and/or quality requirements.

IMPACT ON OPERATIONS:

Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$49,051,440	168,365	1,010,185	689,410	10,210,480	11,135,000	\$23,213,440	

Water Treatment Plant

Aspinwall Water Treatment Plant Filter Improvements

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Improvements for filters at the Water Treatment Plant to address various recommendations from regulatory agencies including safety issues, improve process control, and monitoring. Project components including providing hand railing around filter basins to facilitate operator inspections, adding components to allow safer performance of required quarterly monitoring and cell entry, moving IFE turbidimeters to locate them within 10 feet of sample points, addressing structural issues, and other electrical and safety updates.

PROJECT JUSTIFICATION:
To meet industry standards and regulatory recommendations, turbidimeters should be located not more than 10 feet away from the sample taps. Currently, meters are located up to 30 feet away, reducing meter response time and data accuracy. Structural deficiencies in the floor and beams of the filter building have been observed as evidenced by cracks and water leakage.

RISK(S):
Violations of permit conditions as a result of turbidimeter locations and sample travel time. Safety and compliance issues with not accessing filter cells for observation during backwash and quarterly/annual inspections. Not properly assessing and repairing areas of structural deficiencies could lead to catastrophic failure. Foundation sagging in the filter building could result in excessive leakage or inability to produce filtered water.

IMPACT ON OPERATIONS:
Relocation of turbidimeters will shorten tubing distance between meter and sample point. Tubing is an annual replacement item, so less distance results in less time and material for replacement. Repair of structure deficiencies will result in less water leakage and maintain the integrity of the facility to reduce operational repairs and water in storage areas.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,750,000	168,582	1,369,732	1,211,686	0	0	\$2,750,000	

Water Treatment Plant

Aspinwall Water Treatment Plant Filter Building Sodium Hypochlorite Improvements

PROJECT NUMBER: 2017-322-101-8 / 9 / 10 / 11

WARD: Systemwide

PHASE:
Construction

PRIORITY:
Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
General and mechanical work will include demolition, new filling station, new storage and pumping room, furnishing and installing new storage tanks, feed pumps and piping. HVAC work will include furnishing and installing new HVAC system including air handling unit, condensing unit, exhaust system and ductwork. Plumbing work will include new water service lines inside building, furnishing and installing eyewash stations, hot water units, sanitary drain modifications and installation of a wet sprinkler fire suppression system and fire alarm system. Electrical work will include furnishing and installing power wiring and conduit to new equipment, control wiring to instrumentation and program system integration services to operate the new treatment process.

PROJECT JUSTIFICATION:
To increase storage of sodium hypochlorite solution as required by PADEP and enhance the operational safety and efficiency of the system.

RISK(S):
Not meeting requirements of PADEP if project not completed.

IMPACT ON OPERATIONS:
Operating budget will likely decrease due to efficiencies.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$3,791,608	2,233,047	1,558,561	0	0	0	\$3,791,608	

Water Treatment Plant

Aspinwall Water Treatment Plant Raw Water Intakes

PROJECT NUMBER: 2018-322-100-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Water Quality/Regulatory

PROJECT DESCRIPTION:

Project will include condition assessment, renewing or replacing the existing West and East Raw Water Intake Gate House buildings and associated systems, including gates, screens, and associated mechanical equipment as well as the addition of SCADA. Influent piping through the Ross Pump Station will also be addressed.

PROJECT JUSTIFICATION:

The West Gate is 90% closed and inoperable. Both gate houses are in need of rehabilitation or replacement. The West Gatehouse is 100 years old, and the East Gate is almost 90 years old.

RISK(S):

Both gates have reach the end of their useful life and need replaced. Failure of the East Gate would cause a disruption to the supply of water.

IMPACT ON OPERATIONS:

Modernization of systems will require less time spent in operations and maintenance of these facilities.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$63,346,501	0	357,996	1,974,899	71,053	17,171,053	\$19,575,001	

Water Treatment Plant

Aspinwall Water Treatment Plant Raw Water Intakes - East Intake

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:

Design

PRIORITY:

Water Quality/Regulatory

PROJECT DESCRIPTION:

Project will include condition assessment, renewing or replacing the existing West and East Raw Water Intake Gate House buildings and associated systems, including gates, screens, and associated mechanical equipment as well as the addition of SCADA. Influent piping through the Ross Pump Station will also be addressed.

PROJECT JUSTIFICATION:

The West Gate is 90% closed and inoperable. Both gate houses are in need of rehabilitation or replacement. The West Gatehouse is 100 years old, and the East Gate is almost 90 years old.

RISK(S):

Only one gate is operational. Failure of the East Gate would result in a major disruption to the supply of water for the City of Pittsburgh.

IMPACT ON OPERATIONS:

Modernization of systems will require less time spent in operations and maintenance of these facilities.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$4,427,480	0	0	887,019	1,436,538	2,103,923	\$4,427,480	

Water Treatment Plant

Clearwell Emergency Response Project

PROJECT NUMBER: 2017-323-100-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Long-term bypass of the existing 100 + year old clearwell (finished water structure) including the construction of pump wetwells at the Aspinwall and Bruecken Pump Stations, modifications to the clearwell inlet and outlet gate house, and the construction of a bypass line around the clearwell to the outlet gate house.

PROJECT JUSTIFICATION:

The clearwell was constructed in 1908 and has not undergone any major modifications or upgrades since. The clearwell has two main functions: providing equalization storage that allows the filters to operate independently of potential fluctuations in system demands and providing sufficient contact time for disinfection agents to meet the requirements of the Surface Water Treatment Rule and Long-Term 2 Enhanced Surface Water Treatment Rule. In order to replace the clearwell, a long-term bypass is required in order to provide adequate suction pressure for the pump stations.

RISK(S):

Failure of the Clearwell would cause a disruption to the supply of water.

IMPACT ON OPERATIONS:

Ability to meet system reliability and water quality regulations.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$54,864,020	264,633	24,892,208	2,260,923	0	0	\$27,417,764	

Water Treatment Plant

Clearwell Improvements

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:
Replacement of the existing 100 + year old clearwell (finished water structure) with multi-celled clearwell to allow for maintenance.

PROJECT JUSTIFICATION:
The clearwell was constructed in 1908 and has not undergone any major modifications or upgrades since. It has two main functions: providing equalization storage that allows the filters to operate independently of potential fluctuations in system demands, and providing sufficient retention contact time for disinfection agents to meet the requirements of the Surface Water Treatment Rule and Long-Term 2 Enhanced Surface Water Treatment Rule. Considering the age and condition of the clearwell, it is the water system's weakest link as there are no practical means to deliver water by bypassing the clearwell, while maintaining the required volume, quality, and contact time.

RISK(S):
Failure of the Clearwell would cause a disruption to the supply of water.

IMPACT ON OPERATIONS:
Ability to meet system reliability and water quality regulations.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds) / WIFIA</u>
Total	\$57,009,491	0	4,371,917	2,552,815	33,413,454	16,671,306	\$57,009,492	

Water Treatment Plant

Chemical Feed Modernization Project

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Upgrade of chemical feed systems (equipment, storage, instrumentation, and injection points) to meet current regulatory requirements, improve chemical application, and optimize the water treatment process. Upgrades include ferric chloride, potassium permanganate, and other chemical systems located in the chemical building and possible construction of a new chemical building or repurposing of existing facilities. Assess, design, and construct repairs to structural defects associated with settlement with the pipe bridge between the Chemical Building and Screen Room.

PROJECT JUSTIFICATION:
Chemical feed improvements will address recommendations from both consultants and regulatory agencies. The lack of attention to the pretreatment chemical feed systems could cause over/under dosing of chemicals leading to permit violations or the loss of a chemical system resulting in an emergency project.

RISK(S):
Not addressing these recommendations will put the PWSA at risk for permit violations and failures at the Water Treatment Plant.

IMPACT ON OPERATIONS:
Optimization and flow/residual pacing of chemicals can result in reduced chemical consumption. New storage and chemical feed equipment will result in reduced maintenance costs associated with repairs on the existing pumps, maintaining storage bins and feeders. Improvements to SCADA system and flow/residual pacing will reduce manual adjustments to chemical feed systems.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

<u>CASH FLOW SUMMARY</u>								<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$18,500,000	817,860	1,387,333	10,039,689	6,255,118	0	\$18,500,000	

Water Treatment Plant

Corrosion Control Chemical Storage & Feed Systems

PROJECT NUMBER: 2017-322-107-0

WARD: Systemwide

PHASE: Construction
PRIORITY: Water Quality/Regulatory
PROJECT DESCRIPTION: Installation of three phosphoric acid storage and feed systems located at Aspinwall Pump Station, Bruecken Pump Station, and the Membrane Filtration Plant to provide corrosion control in the distribution system.
PROJECT JUSTIFICATION: Required in order to lower lead levels in water.
RISK(S): Not completing this project will increase the risk of not maintaining lead levels below the PADEP action level.
IMPACT ON OPERATIONS: In order to prevent algae growth in the open Highland No. 1 Reservoir, treatment must occur at three major locations with 6 injection points. This requires additional maintenance of treatment facilities at satellite locations.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$10,461,653	90,618	0	0	0	0	\$90,618	

Water Treatment Plant

Highland Park Microfiltration Plant Improvements Project

PROJECT NUMBER: 2021-322-100-0

WARD: Systemwide

PHASE:
Construction

PRIORITY:
Safety, Operation and Maintenance Efficiency

PROJECT DESCRIPTION:
Repair damage caused by almost 20 years of process water leakage from second floor membrane racks to composite floor deck system and structural steel framing above main floor of Microfiltration Plant (MFP). Construction joints in floor were sealed during the MFP UV Project. This project will repair deterioration to composite deck system and structural steel support system and apply protective coatings. This project will also repair damage to the surface of concrete floor and sump pump in acid storage room caused by leakage from acid storage tanks, piping connections and acid mixing operations.

PROJECT JUSTIFICATION:
This project will increase the safety and security of operations in addition to maintaining the integrity of chemical containment in the event of future failure.

RISK(S):
The risk of delaying the project could cause potential damage to equipment on the first floor of the MFP from falling concrete or steel deck fragments. With respect to repair of the acid storage room floor, the risk of delaying the project is the lack of integrity in the provisions for chemical containment in the event of tank failure. Acid is able to leak through the damaged sump pump into the subfloor where it could damage underground cast iron plumbing and ductile iron process piping.

IMPACT ON OPERATIONS:
This project will mitigate the potential for future emergency repairs to the first floor ceiling components or to the acid room floor that would likely be funded from the Operating Budget.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$491,595	444,500	0	0	0	0	\$444,500	

Water Treatment Plant

Hydraulic Valve Replacement Program

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE: Not Started
PRIORITY: Operations and Maintenance Efficiency
PROJECT DESCRIPTION: This project is retrofitting the various hydraulic valve actuators primarily in the filters to electric valve actuators.
PROJECT JUSTIFICATION: The intent is to improve operational control while modernizing the facility to better align with industry standard practices.
RISK(S): Inefficient operations resulting from an aged facility that do not align with industry standard practices.
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,250,000	0	179,885	216,092	2,854,023	0	\$3,250,000	

Water Treatment Plant

Instrumentation Upgrade

PROJECT NUMBER: 2021-322-101-0

WARD: Systemwide

PHASE:

Planning

PRIORITY:

Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

This project standardizes the key instrumentation at the remote sites. This project provides a methodical approach to replacement. It includes a study to document all equipment by tag number, location, condition, make and model number. The study would include recommendations for standardization by device type (pressure sensor, flowmeter, etc.) along with replacement costs for work done by a contractor. This project does not include any upgrades to water quality analyzers.

PROJECT JUSTIFICATION:

At present, devices were added under various projects with no standardization. This has resulted in increased maintenance cost as each brand requires different spare parts, different training, and in most cases different tools for maintenance purposes. Most of the equipment is beyond useful life and due for replacement.

RISK(S):

Failure to upgrade systems will cause loss of signal and possible loss of control of systems.

IMPACT ON OPERATIONS:

Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,040,000	693,333	346,667	0	0	0	\$1,040,000	

Water Treatment Plant

Lime Slurry System Improvements

PROJECT NUMBER: 2017-322-101-7 / 12 / 13

WARD: Systemwide

PHASE:

Design

PRIORITY:

Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Lime slurry system capacity expansion improvements to include demolition, installation of additional tanks, chemical feed equipment, minor revisions to the existing lime slurry system, and SCADA communications equipment and SCADA interface.

PROJECT JUSTIFICATION:

Adequate lime storage is mandated by PADEP. New system will be more efficient/require less labor to operate and maintain.

RISK(S):

The extra storage for liquid lime is critical to the reliable operation of the Water Treatment Plant.

IMPACT ON OPERATIONS:

Adequate storage, increased reliability and efficiency, less housekeeping labor.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$4,574,536	514,036	1,588,364	0	0	0	\$2,102,400	

Water Treatment Plant

Phase 1 Sedimentation Basin Rehabilitation and Water Treatment Plant Gate Valve and 84-inch Coupling Project

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Phase 1 of the rehabilitation of the existing sedimentation Basins as recommended by the 2019 WTP CIP (Arcadis 2019) and EPA CEP (2017). Projects including regrading around existing sedimentation Basins to keep stormwater infiltration, rehabilitation or replacement of existing sluice gates including drain gates, disconnect existing stormwater outfall including related permitting, repair of existing vaults. The WTP portion of the project will include replacement of various isolation valves at the plant and the encasement of an existing 84-inch diameter pipe coupling.

PROJECT JUSTIFICATION:
The sedimentation basins are the only system in the Water Treatment Plant process that is open to the environment. As such, care must be taken to prevent infiltration of contaminants via surface runoff. These repairs and valve replacements were recommended by regulating agencies. Working isolation valves are required in order to properly isolate and maintain treatment. Proactive repair/maintenance will reduce the chance of complete failure of the asset.

RISK(S):
Inability to isolate the sedimentation basins in the event of an emergency and/or uncontrolled runoff into the Basins could cause violations regulatory violations.

IMPACT ON OPERATIONS:
Ability for staff to quickly isolate the sedimentation basins as part of routine or emergency maintenance.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$4,999,999	306,513	2,490,421	2,203,065	0	0	\$4,999,999	

Water Treatment Plant

Phase 2 Sedimentation Basin Rehabilitation Project

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Phase 2 of this project includes cleaning the sedimentation basins, rehabilitation of weirs, intakes, and associated structures.

PROJECT JUSTIFICATION:
The sedimentation basins serve a role in secondary clarification of water after the clarifiers. This clarification combined with the fact that the basins are uncovered has led to accumulation of sediment in the basins. Secondly, structural defects in the existing concrete structure cannot be detected due to the presence of this sediment. Once the sediment is removed, each basin will be removed from service for a structural inspection and concrete repair. If moderate/major structural defects are not proactively addressed, complete failure will eventually occur and excavation will be required. Any complete failure that occurs will result in dramatically increased expenditures for repair.

RISK(S):
Possible regulatory violations due to sediment, possible failure of structure due to lack of maintenance.

IMPACT ON OPERATIONS:
Ability for staff to quickly isolate the sedimentation basins as part of routine or emergency maintenance.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$790,230	0	0	0	0	790,230	\$790,230	

Water Treatment Plant

Post-Filter Chemical System Improvements

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Construction of new building for soda ash, fluoride, and phosphoric acid system closer to the feed point providing updated equipment, storage, instrumentation, and injection points. This will result in meeting current regulatory requirements, improve chemical application, and optimize the water treatment process. Portions of this project may be combined with the Clearwell Improvements Project or Aspinwall Pump Station Project.

PROJECT JUSTIFICATION:
The improvements from this project will address the recommendations from various regulatory agencies. In addition, the lack of attention to the post-filter chemical feed systems could cause over/under dosing of chemicals leading to permit violations or the loss of a chemical system resulting in an emergency project.

RISK(S):
Potential violations of permit conditions as a result of improper dosing of chemicals or failure of a chemical system resulting in emergency action.

IMPACT ON OPERATIONS:
Optimization and flow/residual pacing of chemicals can result in reduced chemical consumption. New storage and chemical feed equipment will result in reduced maintenance costs associated with repairs on the existing pumps, maintaining storage bins and feeders. Moving soda ash closer to the point of injection will reduce issues with feeding the chemical from the other end of the plant. Improvements to SCADA system and flow/residual pacing will reduce manual adjustments to chemical feed systems.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$827,586	0	0	0	0	827,586	\$827,586	

Water Treatment Plant

Rapid Mix and Clarifier Improvements Project

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Improvements to the mechanical mixing equipment (rapid mixer and flocculators), basin overflow rates and capacity, and water quality monitoring systems to comply with current design standards, reduce energy usage, enhance the water treatment process, and better monitor the clarified water quality. This project includes the evaluation and design of new equipment and modifications to the clarifier basins which may include trough modifications or plate/tube settlers.

PROJECT JUSTIFICATION:
Various regulatory agencies have recommended improvements to the clarifiers in order to meet current PADEP design requirements. This project will also address areas of improvement for the associated flocculators and floc mixing. Improvements to rapid mixers and flocculators can aid in the formation of floc and turbidity removal in the clarifiers in conjunction with chemical optimization.

RISK(S):
Inefficient operation of the clarifiers results in more solids being conveyed to the sedimentation basin. To support removal of the sedimentation basin for maintenance or emergency clarified water may need to be applied directly to the filters, if the clarifiers are producing water with high turbidity this will impact the ability to directly filter clarified water and could result in water quality or volume issues.

IMPACT ON OPERATIONS:
Reduction in mixing energy will translate to lower electrical usage. Improved formation and removal of floc will allow more sludge to be handled at the clarifiers instead of being deposited in the sedimentation basin. Updated equipment will reduce operating and maintenance costs. Improved process control will aid in chemical optimization reducing chemical overfeed and associated costs.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

<u>CASH FLOW SUMMARY</u>								<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$22,954,280	0	650,000	1,600,000	8,850,000	11,854,280	\$22,954,280	



Water Pumping and Storage



Water Pumping and Storage

Aspinwall Pump Station Improvements

PROJECT NUMBER: 2017-323-104-0

WARD: Systemwide

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems at the Bruecken and Aspinwall Pump Stations or replacement with a single high service pump station at the Water Treatment Plant.

PROJECT JUSTIFICATION:
The pump Station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff. Additionally, installation of variable frequency drives will reduce water pressure surges during start-up, and allow the pumps to operate over a wide range of flow, allow the pumps to operate while the clearwell is being replaced. Alternately, a new high service pump station to replace the existing pump stations is also being investigated.

RISK(S):
Exposes the Authority to higher capital costs to address emergency failures and customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds) / WIFIA</u>
Total	\$57,976,096	207,410	10,981,236	14,572,511	3,643,128	0	\$29,404,285	

Water Pumping and Storage

Aspinwall Pump Station to Lanpher Reservoir Rising Main

PROJECT NUMBER: 2018-323-100-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Construction of a new, redundant rising main from Aspinwall Pump Station to Lanpher Reservoir.

PROJECT JUSTIFICATION:

The existing 60" rising main that supplies the Lanpher Reservoir is a 150 year old riveted steel pipe, has several tap connections to critical and bulk customers, and has experienced recent pipe failures. The proposed rising main would serve as a primary supply source for the Lanpher Reservoir during the Clearwell Replacement Project and a redundant supply line in case of a failure or planned cleaning and rehabilitation of the existing 60" supply main.

RISK(S):

Failure of the rising main could impact up to half of PWSA's customers.

IMPACT ON OPERATIONS:

Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Rehabilitation of the existing 60-inch supply main and construction of a parallel main in sections that cannot currently be isolated to clean, inspect, or rehabilitate.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$142,324,240	19,516,813	46,342,177	27,011,250	0	0	\$92,870,240	

Water Pumping and Storage

Aspinwall Water Treatment Plant Chemical Unloading Improvements

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Design and construction of secondary spill containment around railcar and truck chemical unloading areas. A nearby tunnel underdrain must also be disconnected from the combined sewers, and will be completed as part of the work in the area.

PROJECT JUSTIFICATION:
Required as part of PADEP regulatory recommendations.

RISK(S):
Not completing the work could lead to future environmental incidents and potential violations from regulatory agencies due to chemical spills.

IMPACT ON OPERATIONS:
Increased flexibility and reliability, system compliance, and improved environmental conditions.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$690,969	134,466	556,503	0	0	0	\$690,969	

Water Pumping and Storage

Bruecken Pump Station Improvements

PROJECT NUMBER: 2017-323-106-0

WARD: Systemwide

PHASE:
Construction

PRIORITY:
Safety, Reliability/Operational Flexibility, Capacity, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems.

PROJECT JUSTIFICATION:
The pump station was constructed in 1931. The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff. Additionally, installation of variable frequency drives will reduce water pressure surges during start-up, allow the pumps to operate more efficiently over a wide range of flow demands, and will reduce the required size of the new Clearwell.

RISK(S):
Exposes PWSA to higher capital costs to address emergency facility failures and its customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, reliability, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$81,836,478	351,519	25,468,015	27,751,333	2,312,611	0	\$55,883,478	

Water Pumping and Storage

Facility Underground Storage Tank Removal and Replacement

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Regulatory Compliance, Reliability/Operational Flexibility

PROJECT DESCRIPTION:
Replace underground storage tanks containing fuel with above ground storage tanks.

PROJECT JUSTIFICATION:
Reduce risk of leaking underground storage tanks as well as the reduction in permitting and monitoring costs. The existing tanks are about 22 years old and are either nearing the end of their useful life, or nearing a point that will require substantial maintenance to keep them active.

RISK(S):
Not completing this work could result in a leaking underground storage tank which could cost millions to remediate.

IMPACT ON OPERATIONS:
Reduction in permitting and monitoring costs.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$690,969	134,466	556,503	0	0	0	\$690,969	

Water Pumping and Storage

Chlorine Booster Station Improvements

PROJECT NUMBER: 2019-323-101-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability

PROJECT DESCRIPTION:

Replacement of existing chlorine injection facilities at reservoirs and tanks for chlorine residual.

PROJECT JUSTIFICATION:

PWSA boosts chlorine residual at a majority of its storage facilities. Recent changes to PADEP regulations require an increase in minimum chlorine residual levels in the distribution system. All chlorine booster facilities need to be upgraded in order to meet these requirements.

RISK(S):

Exposes the Authority's customers to poor water quality.

IMPACT ON OPERATIONS:

Increased flexibility and reliability, system compliance, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$19,270,887	584,615	5,051,280	3,544,992	0	0	\$9,180,887	

Water Pumping and Storage

Disinfection By-Products Mitigation

PROJECT NUMBER: 2020-323-101-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Replacement of existing trihalomethane (THM) removal systems at Allentown tanks, Squirrel Hill tank, and Brashears tanks.

PROJECT JUSTIFICATION:

Repair of the existing system to improve the level of service provided to customers.

RISK(S):

Delaying the replacement of the existing systems will result in increased downtime of the existing systems that need to be repaired. This will lead to possible regulatory violations for exceeding THM levels.

IMPACT ON OPERATIONS:

Decrease in yearly maintenance for the existing system.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Continue to make costly repairs to existing DBP mitigation equipment. Failure of existing equipment can result in poor level of service and potential regulatory violations.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$5,062,887	1,293,960	969,835	189,092	0	0	\$2,452,887	

Water Pumping and Storage

Garfield Tank Improvements

PROJECT NUMBER: Unidentified

WARD: 9

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Rehabilitation or replacement of the existing tank. Increase of tank capacity may be necessary.

PROJECT JUSTIFICATION:
The Garfield Elevated Storage Tank was constructed in 1959 and last rehabilitated in 1992. The existing tank does not have sufficient capacity to meet PADEP's requirements for sizing, which states that a tank must have sufficient capacity to meet average day demand plus fire flow demand. This project will provide adequate storage through system redundancy to meet the pressure district's demand and fire flow conditions.

RISK(S):
Exposes PWSA customers to poor water quality from coating problems or a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased flexibility and reliability, system compliance, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Do nothing and risk a failure of the tank. Postpone replacement or full rehabilitation until a later date through short-term rehabilitation.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,411,290	0	122,198	244,397	128,017	1,916,678	\$2,411,290	

Water Pumping and Storage

Herron Hill Pump Station Improvements

PROJECT NUMBER: Unidentified

WARD: 14

PHASE:
Not Started

PRIORITY:
Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.

PROJECT JUSTIFICATION:
The pump station was originally constructed in the late 1890's. The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff.

RISK(S):
Lack of facility planning exposes PWSA to higher capital costs to address emergency failures and customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$10,960,001	0	602,429	720,330	4,829,119	4,808,123	\$10,960,001	

Water Pumping and Storage

Herron Hill Reservoir Improvements

PROJECT NUMBER: 2019-323-100-0

WARD: 5

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Replacement of existing reservoir liner and cover and associated reservoir rehabilitation. Replacement of existing chlorine injection system.

PROJECT JUSTIFICATION:
The existing cover has reached the end of its useful life and must be replaced. Existing chlorine feed systems are beyond their useful life and must be replaced.

RISK(S):
Exposes the Authority's customers to poor water quality from reservoir failure and inadequate booster disinfection.

IMPACT ON OPERATIONS:
Increased flexibility and reliability, system compliance, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,309,672	36,846	0	0	0	0	\$36,846	

Water Pumping and Storage

Herron Hill Reservoir Improvements - Sodium Hypochlorite Building

PROJECT NUMBER: 2019-323-100-1 / 2 / 3 / 4

WARD: 5

PHASE: Construction
PRIORITY: Safety, Regulatory Compliance, Reliability, Capacity, Level of Service
PROJECT DESCRIPTION: Replacement of existing chlorine injection system.
PROJECT JUSTIFICATION: Existing chlorine feed systems are beyond their useful life and must be replaced.
RISK(S): Exposes the Authority's customers to poor water quality and possible PADEP violations due to inadequate booster disinfection.
IMPACT ON OPERATIONS: Increased flexibility and reliability, system compliance, and improved safety conditions for staff.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$5,431,248	2,423,993	0	0	0	0	\$2,423,993	

Water Pumping and Storage

Herron Hill Tank Pump Station Improvements

PROJECT NUMBER: Unidentified

WARD: 5

PHASE:
Not Started

PRIORITY:
Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.

PROJECT JUSTIFICATION:
The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff.

RISK(S):
Lack of facility planning exposes PWSA to higher capital costs to address emergency failures and customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,109,999	0	61,012	72,953	489,080	486,954	\$1,109,999	

Water Pumping and Storage

Highland 1 Reservoir Liner

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Replace existing Highland 1 Reservoir Liner

PROJECT JUSTIFICATION:
Reservoir liner is past it's useful design life. Liner must be replaced periodically to avoid seeping from the reservoir into the surrounding park. Seepage could also cause slope instability issues.

RISK(S):
Reservoir liner is past it's useful design life. Liner must be replaced periodically to avoid seeping from the reservoir into the surrounding park.

IMPACT ON OPERATIONS:
Seepage could cause slope instability and could damage surrounding park features.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Reduce operating costs of trying to find and repair seeps from the reservoir.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$704,981	0	0	0	0	704,981	\$704,981	

Water Pumping and Storage

Highland No. 2 Reservoir Improvements

PROJECT NUMBER: 2019-323-102-0 / 1

WARD: Systemwide

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Replacement of existing reservoir liner and cover and associated reservoir rehabilitation. Replacement of existing chlorine injection system and an upgrade of the reservoir outlet structure.

PROJECT JUSTIFICATION:
The Highland No. 2 Reservoir will be used as a temporary Clearwell while the new Clearwell is being constructed. Existing chlorine feed facilities must be upgraded to meet PADEP regulatory requirements for distribution chlorine residual. Existing reservoir outlet structure must be upgraded to accommodate new Highland Reservoir Pump Station.

RISK(S):
Exposes PWSA customers to poor water quality from reservoir failure and inadequate booster disinfection.

IMPACT ON OPERATIONS:
Increased flexibility and reliability, system compliance, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$52,141,389	22,052,489	2,661,400	0	0	0	\$24,713,889	

Water Pumping and Storage

Highland Reservoir Pump Station and Rising Main

PROJECT NUMBER: 2017-323-101-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Regulatory Compliance, Reliability/Operational Flexibility, Capacity, Level of Service

PROJECT DESCRIPTION:

Construction of a new finished water pump station and transmission main to supply water to the Highland No. 1 Service Area from Highland No. 2 Reservoir.

PROJECT JUSTIFICATION:

All water supply for the Highland No. 1 Service Area currently flows through the Highland No. 1 Reservoir and the MFP. There is no other source water supply for the Highland No. 1 Service Area. In addition to providing alternate supply, this project is to temporarily provide finished water that meets the chlorine disinfection rules to the Highland No. 1 Service Area during the Clearwell Replacement Project. Additionally, this new facility could also be designed to service the Garfield pressure district, thus eliminating the rehabilitation of the Highland Pump Station.

RISK(S):

Failure of the two rising mains (No. 1 or No. 2), MFP, or Bruecken Pump Station would result in the loss of water supply to approximately 40% of PWSA's customer base.

IMPACT ON OPERATIONS:

Increased operation and maintenance labor and expenses. Increased operating flexibility in the future.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Construction of a new clearwell at the site of the existing west sedimentation basin. However, a previous study still recommended the addition of these assets as part of the Clearwell Replacement project.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$50,051,043	4,890,823	13,598,197	13,598,197	1,133,183	0	\$33,220,400	

Water Pumping and Storage

Howard Pump Station Improvements

PROJECT NUMBER: Unidentified
WARD: 21, 24, 25, 26, 27

PHASE: Not Started
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.
PROJECT JUSTIFICATION: The pump station was originally constructed between 1900 and 1904. The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for the staff.
RISK(S): Lack of facility planning exposes the Authority to higher capital costs to address emergency failures and its customers to a potentially deficient water supply.
IMPACT ON OPERATIONS: Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.
ALTERNATIVES TO THE RECOMMENDED ACTION: Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$10,468,295	0	0	1,025,118	1,225,744	8,217,433	\$10,468,295	

Water Pumping and Storage

Inline Pump Station (Coral and Pacific) Improvements

PROJECT NUMBER: Unidentified

WARD: 8

PHASE:
Not Started

PRIORITY:
Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.

PROJECT JUSTIFICATION:
The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff.

RISK(S):
Lack of facility planning exposes the Authority to higher capital costs to address emergency failures and its customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, reliability, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$600,000	0	0	70,443	90,312	439,245	\$600,000	

Water Pumping and Storage

Lanpher Reservoir Improvements

PROJECT NUMBER: 2017-323-105-0 / 1 / 2 / 3

WARD: 25

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Replacement of existing reservoir liner and cover and associated reservoir rehabilitation. Replacement of existing chlorine injection system.

PROJECT JUSTIFICATION:
The existing cover failed and had to be replaced on an emergency basis as part of the PADEP October 2017 Administrative Order. Existing chlorine feed systems are beyond their useful life and must be replaced.

RISK(S):
Exposes the Authority's customers to poor water quality from reservoir failure and inadequate booster disinfection.

IMPACT ON OPERATIONS:
Increased flexibility and reliability, system compliance, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$28,065,533	2,416,588	6,572,044	2,738,352	0	0	\$11,726,984	

Water Pumping and Storage

Lincoln Pump Station: Bypass Pump Station Project

PROJECT NUMBER: 2020-323-100-0

WARD: 12

PHASE:

Design

PRIORITY:

Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:

Construction of a temporary bypass pump station that will be used at the Lincoln Pump Station and Saline Pump Station. This pump station will allow for the existing pump station to be taken off line completely for rehabilitation.

PROJECT JUSTIFICATION:

Repair of existing pump station while trying to keep it online increases the cost and construction time. This is a cost effective way to provide temporary pumping.

RISK(S):

Delaying the construction of this pump station will delay the renewal of existing pump stations that are in need of upgrades.

IMPACT ON OPERATIONS:

Decrease in yearly maintenance for the existing system.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Attempt to rehabilitate/repair existing pump stations while they are in service.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,619,628	433,867	295,661	0	0	0	\$729,528	

Water Pumping and Storage

Lincoln Pump Station Improvements

PROJECT NUMBER: Unidentified

WARD: 12

PHASE:
Not Started

PRIORITY:
Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, and auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.

PROJECT JUSTIFICATION:
The pump station was originally constructed in 1952. The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff.

RISK(S):
Lack of facility planning exposes the Authority to higher capital costs to address emergency failures and customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,305,000	0	60,577	506,374	738,049	0	\$1,305,000	

Water Pumping and Storage

Lincoln Tank Improvements

PROJECT NUMBER: Unidentified

WARD: 12

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Rehabilitation or replacement of the existing tank.

PROJECT JUSTIFICATION:
Constructed in 1939, this tank is nearing the end of its useful life. The last inspection, which was performed in 2018, noted deficiencies that need to be addressed to ensure water quality standards are met.

RISK(S):
Exposes the Authority's customers to poor water quality from coating problems or a potentially deficient water supply in the event of tank failure.

IMPACT ON OPERATIONS:
Increased flexibility and reliability and system compliance.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Rehabilitation of the existing tank, which may be a larger investment than replacement.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$4,195,000	230,583	275,710	1,848,372	1,840,335	0	\$4,195,000	

Water Pumping and Storage

Mission Pump Station Improvements

PROJECT NUMBER: Unidentified

WARD: 16, 17, 18, 20

PHASE:
Not Started

PRIORITY:
Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.

PROJECT JUSTIFICATION:
The Mission Pump Station is the only pumping station located south of the Monongahela River and was originally constructed between 1910 and 1912. The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff.

RISK(S):
Lack of facility planning exposes the Authority to higher capital costs to address emergency failures and its customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$16,865,000	0	927,003	1,108,428	7,430,939	7,398,630	\$16,865,000	

Water Pumping and Storage

Pump Station Architectural

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Reliability/Operational Flexibility

PROJECT DESCRIPTION:
Rehabilitate exterior and interior masonry, glazing, and roof of existing pump stations

PROJECT JUSTIFICATION:
Existing building façade, roof, and window systems are in need of upgrade to protect interior pumps and electrical equipment from the elements. Rehabilitation of these pump stations has not occurred within the past 40 years for most facilities.

RISK(S):
Façade collapse, leaking roof and windows could lead to equipment failures

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,500,000	0	0	0	0	2,500,000	\$2,500,000	

Water Pumping and Storage

Pump Station Security

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance

PROJECT DESCRIPTION:
Installation of new surveillance equipment, entrance gates, fencing, lighting, and general site safety and access improvements for Herron Hill, Howard, Inline, Mission, Lincoln and Saline Pump Station.

PROJECT JUSTIFICATION:
The Department of Homeland Security deems water/wastewater facilities as "critical infrastructure." PWSA has an obligation to protect all critical assets from potential threats and malevolent acts. Under America's Water Infrastructure Act (AWIA), PWSA must continue to assess and mitigate risks while creating resiliency in the water system. The protection of our pump stations is paramount in achieving these objectives. Several of these sites are also manned facilities; these improvements will also protect the employees working within the facilities.

RISK(S):
Intrusion into remote facilities and resulting damage, disruption, sabotage and/or contamination of water.

IMPACT ON OPERATIONS:
Less maintenance required on newer facilities.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$3,181,506	0	0	500,990	1,348,081	1,332,435	\$3,181,506	

Water Pumping and Storage

Ross Pump Station

PROJECT NUMBER: 2018-323-101-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

Water Quality/Regulatory

PROJECT DESCRIPTION:

Replacement of aged pump and valve equipment, meters, SCADA, electrical equipment, HVAC, auxiliary systems, as well as the rehabilitation of the building architectural and energy management systems.

PROJECT JUSTIFICATION:

Pump station is in need of rehabilitation. Pumps and ancillary systems are beyond their design life.

RISK(S):

Exposes the Authority to higher capital costs to address emergency failures, and exposes customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:

Increased operating efficiency, flexibility, reliability, life expectancy, and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$46,717,388	0	0	416,260	2,497,561	2,121,575	\$5,035,396	

Water Pumping and Storage

Saline Pump Station Improvements

PROJECT NUMBER: Unidentified

WARD: 14 & 15

PHASE:
Not Started

PRIORITY:
Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of aged pump and valve equipment, electrical equipment, HVAC, auxiliary systems, and rehabilitation of the building architectural and energy management systems as prioritized by the recommended Finished Water Pump Stations Condition Assessment Project.

PROJECT JUSTIFICATION:
The pump station was originally constructed in 1935. The pump station is in need of renovations and upgrades to maintain service, restore a 20 to 25 year useful life expectancy, and to provide safer conditions for staff.

RISK(S):
Lack of facility planning exposes the Authority to higher capital costs to address emergency failures and its customers to a potentially deficient water supply.

IMPACT ON OPERATIONS:
Increased operating efficiency, flexibility, and reliability and improved safety conditions for staff.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Construction of a new facility to replace the existing pump station.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,055,611	0	0	109,343	71,674	874,594	\$1,055,611	

Water Pumping and Storage

Spring Hill Tank Improvements

PROJECT NUMBER: Unidentified

WARD: 24 & 26

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability, Capacity, Level of Service

PROJECT DESCRIPTION:
Perform a comprehensive inspection of the existing storage tanks and rehabilitation or replacement of the existing tanks.

PROJECT JUSTIFICATION:
Constructed in 1929 of riveted steel, the coatings and structure of these tanks need to be rehabilitated due to corrosion.

RISK(S):
Exposes the Authority's customers to poor water quality from coating problems or a potentially deficient water supply in the event of tank failure.

IMPACT ON OPERATIONS:
Increased flexibility and reliability and system compliance.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Rehabilitation of the existing tank, which may be a larger investment than replacement.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,125,001	0	116,803	139,663	936,303	932,232	\$2,125,001	

Water Pumping and Storage

Tank Reservoir Security

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance

PROJECT DESCRIPTION:
Installation of new surveillance equipment, entrance gates, fencing, lighting, and general site safety and access improvements for remote water storage sites/facilities.

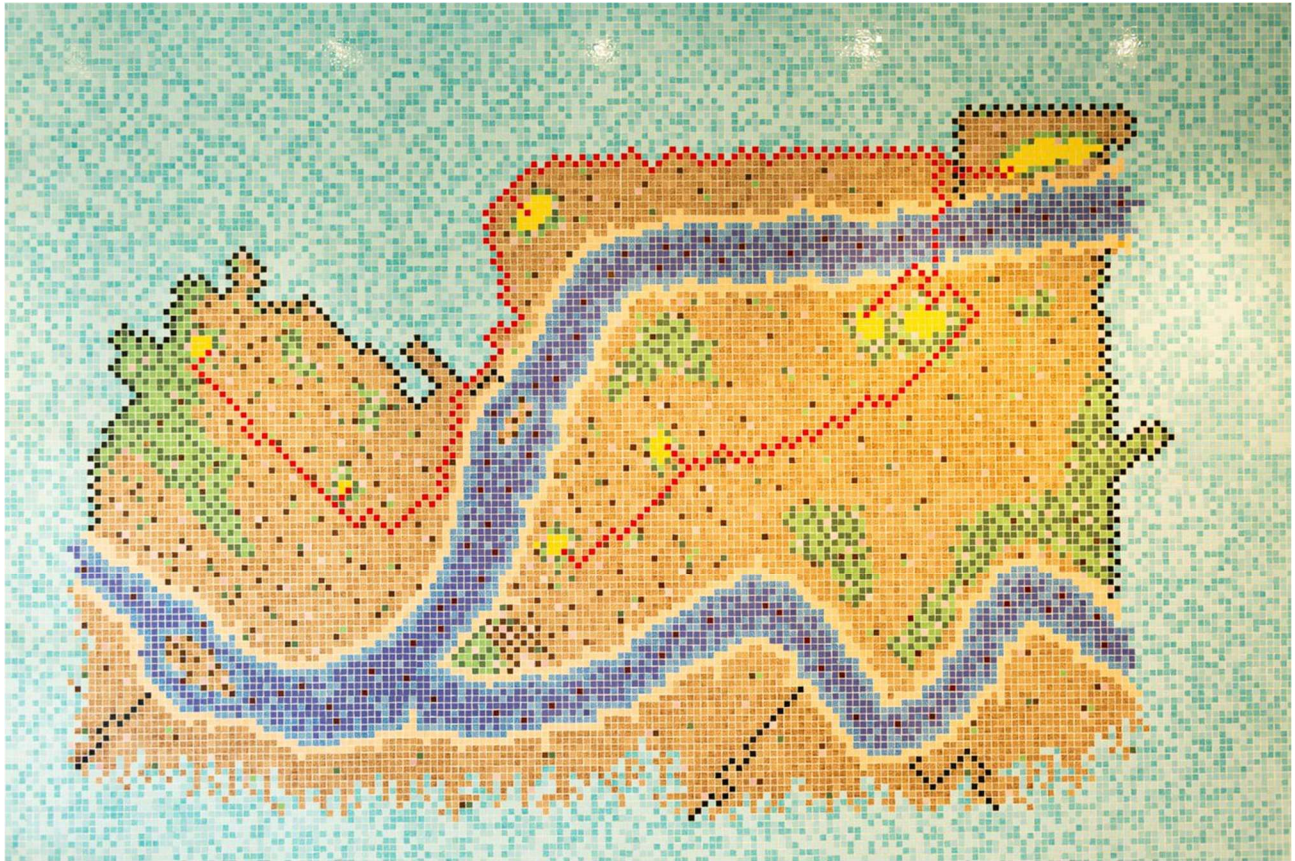
PROJECT JUSTIFICATION:
The Department of Homeland Security deems water/wastewater facilities as "critical infrastructure." PWSA has an obligation to protect all critical assets from potential threats and malevolent acts. Under America's Water Infrastructure Act (AWIA), PWSA must continue to assess and mitigate risks while creating resiliency in the water system. The protection of our remote water storage facilities is paramount in achieving these objectives.

RISK(S):
Intrusion into remote facilities and resulting damage and/or contamination of water.

IMPACT ON OPERATIONS:
Less maintenance required on newer facilities.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$8,579,408	500,000	1,000,000	1,653,536	2,350,890	3,074,982	\$8,579,408	



Water Distribution



Water Distribution System

Bus Rapid Transit Water Distribution

PROJECT NUMBER: 2020-325-102-0

WARD: 1 & 4

PHASE:
Construction

PRIORITY:
Regional Cooperation/ Stewardship and Level of Service

PROJECT DESCRIPTION:
The City of Pittsburgh is making roadway improvements on Fifth Ave and Forbes Ave from downtown through Oakland, with full depth reconstruction planned on Forbes from Crosstown Blvd to Craft Ave and on Fifth between Crosstown Blvd and the Birmingham Bridge. The City's work, in partnership with the Port Authority, will include signal pole upgrades, traffic redesign, sidewalk bumpouts, and new bus shelters. The full depth reconstruction portion of the project has the potential to affect existing 15-inch, 16-inch, 20-inch, and 6-inch mains that are 80-100+ years old. The full depth replacement of the roadway along with lowering of the roadway could result in damage to these mains. These mains should be replaced as part of this project.

PROJECT JUSTIFICATION:
The full depth replacement of the roadway along with lowering of the roadway could result in damage to these mains.

RISK(S):
Replacement of water mains along the Fifth and Forbes corridor reduces the risk of service outages due to breaks, reduces the potential for inadequate capacity for firefighting activities, and improves water quality.

IMPACT ON OPERATIONS:
Increased system reliability, reliability, and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Delay the replacement of the required watermains and risk damage to the water system resulting from the project.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$18,575,643	4,299,135	0	0	0	0	\$4,299,135	

Water Distribution System

District Metering Program

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Installation of system flow meters to track the flow of water and compare to area consumption to determine where leaks are the greatest.

PROJECT JUSTIFICATION:
The district metering is intended to gather additional information on areas with suspected leakage and then prioritize areas for rehabilitation and replacement.

RISK(S):
Failure to track water loss will result in loss of revenue.

IMPACT ON OPERATIONS:
Decreased water loss.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$4,136,923	0	0	0	2,600,000	1,536,923	\$4,136,923	DSIC - Water
2024 District Metering		0	0	0	2,600,000	780,000	\$3,380,000	
2025 District Metering		0	0	0	0	756,923	\$756,923	

Water Distribution System

Duck Hollow Main Replacement

PROJECT NUMBER: Unidentified

WARD: 14

PHASE: Not Started
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Either repair the existing failed 16" main or abandon and provide interconnections with the Squirrel Hill system.
PROJECT JUSTIFICATION: The Duck Hollow 16" main failed as a result of a landslide in 2018. The main will need to either be abandoned and replaced with emergency interconnections. Rehabilitation of the failed slope may be required.
RISK(S): Existing failed 16" main does not provide any backup water supply leading to a loss of resiliency.
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,964,458	326,289	2,418,432	219,737	0	0	\$2,964,458	

Water Distribution System

Herron Hill - Squirrel Hill Boundary Adjustments

PROJECT NUMBER: Unidentified

WARD: 5

PHASE: Not Started
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Main and valve adjustments to move the boundary between the Herron Hill Reservoir and Squirrel Hill pressure districts.
PROJECT JUSTIFICATION: Herron Hill and Squirrel Hill operate on similar hydraulic gradients. There are areas where these two systems intertwine, which has resulted in long dead end lines as well as frequent opening and altering of dividing pressure valves. Moving the boundary of the two zones to incorporate more of the Herron Hill system into the Squirrel Hill system will alleviate these issues as well as alleviate demand on the Herron Hill Reservoir.
RISK(S): Existing long dead ends can cause water quality issues.
IMPACT ON OPERATIONS: Decreased leakage between pressure districts.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

	<u>CASH FLOW SUMMARY</u>							<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$408,116	0	0	0	52,929	355,187	\$408,116	

Water Distribution System

Inoperable Curb Stop Repair and Replacement Program

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
This project will address repair/replacement of inoperable curb stops identified through 1) AMI non-access process, 2) collections non-payment process, 3) customer disputes, informal, and formal complaints to the Pennsylvania Public Utility Commission.

PROJECT JUSTIFICATION:
Inoperable curb stops prohibit meter upgrades, collection activities, and customer internal leak repairs. Having operable curb stops will ensure that PWSA 1) Achieves compliance with upgrading all age meters under the PUC Compliance Plan, 2) Collects delinquent water / wastewater conveyance charges for services rendered, 3) maintains compliance with PUC regulatory requirements, decreases legal claims for delayed terminations, and increases overall customer satisfaction.

RISK(S):
If this project is delayed, PWSA is subject to continued infractions and / or violations for not adhering to PUC regulatory requirements regarding discontinuance of service.

IMPACT ON OPERATIONS:
Operating budget impact would be budget for one project manager to monitor contract spend, contractors progress, manage related work orders and assets and SpryMobile, and provide weekly progress reports.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,500,000	500,000	500,000	500,000	500,000	500,000	\$2,500,000	

Water Distribution System

Intermediate Diameter Water Main Replacement Program

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Strategic replacement of water mains to improve system reliability as well as improve water pressure, maintain water quality, and minimize disturbance to the community. Program will focus on 16" to 36" diameter mains.

PROJECT JUSTIFICATION:
By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving overall replacement cost. Additionally, projects will be coordinated with other utilities to minimize disturbance to the community and street surface restoration costs. Water quality will also improve by removing tuberculated mains.

RISK(S):
Customers may be subject to service outages or the potential for inadequate pressure for firefighting activities.

IMPACT ON OPERATIONS:
Increased operating flexibility and reliability, decrease in non-revenue water due to leaks.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$26,015,448	0	0	1,283,549	2,825,448	21,906,451	\$26,015,448	
2025 Intermediate Main Replacement		0	0	1,283,549	1,541,899	20,364,552	\$23,190,000	
2026 Intermediate Main Replacement		0	0	0	1,283,549	1,541,899	\$2,825,448	

Water Distribution System

Intermediate Meter Replacement Program

PROJECT NUMBER: 2021-325-100-0

WARD: Systemwide

PHASE:
Construction

PRIORITY:
Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service

PROJECT DESCRIPTION:
Replacement of customer meters size 1.5" to 2".

PROJECT JUSTIFICATION:
Ensure capture of all revenue. As meters age, they typically underestimate the amount of water consumed.

RISK(S):
Failure to replace meters annually could result in lost revenue or violate regulatory requirements.

IMPACT ON OPERATIONS:
Increased system reliability, reliability, and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$684,647	122,296	81,666	84,500	86,667	87,000	\$462,129	
2021 Intermediate Meters		55,629	0	0	0	0	\$55,629	Debt (Revenue Bonds)
2022 Intermediate Meters		66,667	13,333	0	0	0	\$80,000	
2023 Intermediate Meters		0	68,333	13,667	0	0	\$82,000	
2024 Intermediate Meters		0	0	70,833	14,167	0	\$85,000	
2025 Intermediate Meters		0	0	0	72,500	14,500	\$87,000	
2026 Intermediate Meters		0	0	0	0	72,500	\$72,500	

Water Distribution System

Large Diameter Water Main Replacement Program

PROJECT NUMBER: 2019-325-103-0, 2020-325-109-0, 2020-424-101-0, 2020-424-107-0, 2021-424-105-0, Unidentified
WARD: Systemwide

PHASE:
Construction / Not Started

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:
Strategic replacement or rehabilitation of large diameter water mains (16" and larger) and appurtenances to improve system reliability and hydraulics, including internal and external inspections.

PROJECT JUSTIFICATION:
The Authority's water system has approximately 122 miles of large diameter water mains. Maintaining a proactive approach to replacing large mains will ensure that large mains are replaced before the end of their useful life.

RISK(S):
The consequences of failure for larger mains are much greater than for smaller distribution mains, which typically include significant service outages (larger area and longer time frame impacts), as well as property and roadway damage.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Continue to extend utility component life until a high failure rate justifies replacement.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$109,643,216	15,030,564	15,066,385	26,402,678	8,560,476	18,803,966	\$83,864,069	
2019 Large Diameter Water Main Improvements – Rising Main 3		10,300,000	1,655,732	0	0	0	\$11,955,732	Debt (Revenue Bonds) / WIFIA
2019 Large Diameter Water Main Improvements – Rising Main 4		0	7,944,444	6,355,556	0	0	\$14,300,000	
2020 Large Diameter Main Replacement – Four Mile Run		2,928,596	3,574,065	0	0	0	\$6,502,661	
2023 Large Diameter Main Replacement		1,801,968	605,863	17,152,169	0	0	\$19,560,000	
2024 Large Diameter Main Replacement		0	1,286,281	1,530,121	6,936,912	10,370,015	\$20,123,329	
2025 Large Diameter Main Replacement		0	0	1,364,832	1,623,564	7,069,119	\$10,057,515	
2026 Large Diameter Main Replacement		0	0	0	0	1,364,832	\$1,364,832	

Water Distribution System

Large Meter Replacement Program

PROJECT NUMBER: 2020-325-101-0, Unidentified

WARD: Systemwide

PHASE:
Construction / Not Started

PRIORITY:
Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:
Annual replacement of water meters larger than 1".

PROJECT JUSTIFICATION:
Ensure capture of all revenue. As meters age, they typically underestimate the amount of water consumed.

RISK(S):
Failure to replace meters annually could result in lost revenue.

IMPACT ON OPERATIONS:
Increased system reliability, reliability, and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$7,050,629	1,571,313	1,362,979	507,996	337,000	337,000	\$4,116,288	
2021 Large Meter Replacement		435,497	0	0	0	0	\$435,497	DSIC - Water
2022 Large Meter Replacement		1,135,816	227,163	0	0	0	\$1,362,979	
2023 Large Meter Replacement		0	1,135,816	227,163	0	0	\$1,362,979	
2024 Large Meter Replacement		0	0	280,833	56,167	0	\$337,000	
2025 Large Meter Replacement		0	0	0	280,833	56,167	\$337,000	
2026 Large Meter Replacement		0	0	0	0	280,833	\$280,833	

Water Distribution System

Lead Service Identification Program

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE: Not Started
PRIORITY: Safety, Regulatory Compliance
PROJECT DESCRIPTION: Locating lead service lines allows the Authority to identify both individual service lines to replace and waterlines that have a particularly high amount of lead service lines that can be replaced to facilitate the lead service line replacements.
PROJECT JUSTIFICATION: Understanding where the lead service lines are within the water system will allow the Authority to more efficiently replace all lead service lines.
RISK(S): Failure to identify all lead service lines could slow the rate in which they are replaced.
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$500,000	500,000	0	0	0	0	\$500,000	

Water Distribution System

Low Pressure Area Remediation

PROJECT NUMBER: 2021-325-101-0

WARD: Systemwide

PHASE: Planning
PRIORITY: Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Fix chronically low pressure areas by either extending neighboring higher pressure districts into the area, booster pump stations, or household booster pumps.
PROJECT JUSTIFICATION: This project is in response to the low pressure monitors required by the October 2017 Administrative Order.
RISK(S): Customers may experience temporary service outages as a result of the work on this project.
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,393,833	0	0	0	1,393,833	0	\$1,393,833	

Water Distribution System

Neighborhood Lead Service Line Replacement Program

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE: Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Neighborhood Lead Service Line Replacement (LSLR) program to replace all remaining public and private lead service lines within the PWSA water service area. Program will be developed once 2023-2026 Small Diameter Water Main Replacement program is fully planned.
PROJECT JUSTIFICATION: Comply with PWSA goals in the Lead Infrastructure Plan approved by PUC.
RISK(S): Compliance with PWSA goals and regulatory recommendations.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability and water quality.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$111,170,000	0	0	27,792,500	55,585,000	27,792,500	\$111,170,000	

Water Distribution System

North Side Boundary Adjustments

PROJECT NUMBER: Unidentified
WARD: 21, 22, 23, 24, 25, 26, 27

PHASE: Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Main and valve installation to move some low pressure areas from the McNaugher Pressure District to the Brashears Pressure District.
PROJECT JUSTIFICATION: Areas within the McNaugher Pressure District that are near the Brashears Pressure District could have increased pressure by moving the pressure zone boundary through main improvements and valve adjustments.
RISK(S): Existing services are near or below minimum standards (20 psi).
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$612,173	0	0	0	79,393	532,780	\$612,173	

Water Distribution System

Private Lead Service Line Reimbursement Program

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE: Not Started
PRIORITY: Safety, Regulatory Compliance
PROJECT DESCRIPTION: Reimbursement of private line lead service line costs.
PROJECT JUSTIFICATION: Replacing both private and public lead service lines is required to eliminate lead in the water system.
RISK(S): Failure to replace private lead service lines poses a public health risk.
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	Total Budget (Prior Years Included)	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total	
Total	\$5,274,537	1,274,537	1,000,000	1,000,000	1,000,000	1,000,000	\$5,274,537	Debt (Revenue Bonds)
2021 Private Lead Service Line Reimbursement	274,537	0	0	0	0	0	\$274,537	
2022 Private Lead Service Line Reimbursement	1,000,000	0	0	0	0	0	\$1,000,000	
2023 Private Lead Service Line Reimbursement	0	1,000,000	0	0	0	0	\$1,000,000	
2024 Private Lead Service Line Reimbursement	0	0	1,000,000	0	0	0	\$1,000,000	
2025 Private Lead Service Line Reimbursement	0	0	0	1,000,000	0	0	\$1,000,000	
2026 Private Lead Service Line Reimbursement	0	0	0	0	0	1,000,000	\$1,000,000	

Water Distribution System

Regulator Valve and Vault Replacement Program

PROJECT NUMBER: 2021-325-102-0, Unidentified

WARD: Systemwide

PHASE: Planning
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Replacement of pressure zone interconnection vaults including new pressure regulators, flow meters, pressure transmitters, and SCADA communications.
PROJECT JUSTIFICATION: Existing regulator stations are in need of replacement. This will also aid in identification of non-revenue water.
RISK(S): Failure to fix could result in catastrophic failure of the vault.
IMPACT ON OPERATIONS: Decreased leakage will result in decrease of pumping energy.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$9,559,529	232,420	1,321,957	1,557,942	2,567,270	3,879,940	\$9,559,529	
2021 Regulator Valve and Vault Replacement		232,420	1,266,608	582,375	0	0	\$2,081,403	Debt (Revenue Bonds)
2022 Regulator Valve and Vault Replacement		0	55,2349	586,973	292,720	0	\$935,042	
2023 Regulator Valve and Vault Replacement		0	0	305,570	1,760,920	878,161	\$2,944,651	
2024 Regulator Valve and Vault Replacement		0	0	83,024	458,355	2,641,279	\$3,182,758	
2025 Regulator Valve and Vault Replacement		0	0	0	55,275	305,125	\$360,400	
2026 Regulator Valve and Vault Replacement		0	0	0	0	55,275	\$55,275	

Water Distribution System

Small Diameter Water Main Replacement Program

PROJECT NUMBER: 2019-325-101-0 / 1, 2019-325-102-0 / 1 / 2, 2020-325-106-0 / 1 / 2, 2021-325-104-0, Unidentified

WARD: Systemwide

PHASE: Construction / Design / Not Started
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Strategic replacement of water mains to improve system reliability as well as improve water pressure, maintain water quality, and minimize disturbance to the community. Program will initially focus on replacing existing 4" and 6" unlined cast iron mains and mains with a history of frequent breaks.
PROJECT JUSTIFICATION: By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving overall replacement cost. Additionally, projects will be coordinated with other utilities to minimize disturbance to the community and street surface restoration costs. Water quality will also improve by removing tuberculated mains.
RISK(S): Customers may be subject to service outages or the potential for inadequate pressure for firefighting activities.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Continue to extend utility component life until a high failure rate justifies replacement.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$358,602,256	23,802,324	9,235,175	35,157,679	77,481,962	109,063,535	\$254,740,675	
2021 Small Main Replacement		22,392,039	0	0	0	0	\$22,392,039	Debt (Revenue Bonds) / PENNVEST
2022 Small Main Replacement		806,000	0	0	0	0	\$806,000	
2023 Small Main Replacement		604,285	6,385,175	11,006,000	0	0	\$17,995,460	
2024 Small Main Replacement		0	2,850,000	18,000,000	30,000,000	67,063,535	\$117,913,535	
2025 Small Main Replacement		0	0	6,151,679	41,281,962	0	\$47,433,641	
2026 Small Main Replacement		0	0	0	6,200,000	42,000,000	\$48,200,000	

Water Distribution System

Small Meter Replacement Program

PROJECT NUMBER: 2020-325-107-0, 2021-325-106-0, Unidentified
WARD: Systemwide

PHASE: Construction / Not Started
PRIORITY: Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Annual replacement of water meters 1" or less.
PROJECT JUSTIFICATION: Ensure capture of all revenue. As meters age, they typically underestimate the amount of water consumed.
RISK(S): Failure to replace meters annually could result in lost revenue or violate regulatory requirements.
IMPACT ON OPERATIONS: Increased system reliability, reliability, and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$8,169,503	2,114,155	1,713,417	1,323,009	416,666	250,000	\$5,817,247	
2021 Small Meter Replacement		580,630	0	0	0	0	\$580,630	DSIC - Water
2022 Small Meter Replacement		1,533,525	306,700	0	0	0	\$1,840,230	
2023 Small Meter Replacement		0	1,406,712	281,342	0	0	\$1,688,054	
2024 Small Meter Replacement		0	0	1,041,667	208,333	0	\$1,250,000	
2025 Small Meter Replacement		0	0	0	208,333	41,667	\$250,000	
2026 Small Meter Replacement		0	0	0	0	208,333	\$208,333	

Water Distribution System

South Side Slopes Boundary Adjustments

PROJECT NUMBER: Unidentified

WARD: 16, 17

PHASE: Not Started
PRIORITY: Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: Main and valve adjustments to move the boundary between the Highland No. 2 and Allentown Pressure Districts.
PROJECT JUSTIFICATION: Areas within the Highland No. 2 pressure district that are near the Allentown pressure district could have increased pressure by moving the pressure zone boundary through main improvements and valve adjustments.
RISK(S): Existing services are near or below minimum standards (20 psi).
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$612,173	0	0	0	79,393	532,780	\$612,173	

Water Distribution System

Unmetered and Flat Rate Properties

PROJECT NUMBER: 2021-325-103-0

WARD: Systemwide

PHASE: Planning
PRIORITY: Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Metering unmetered and flat rate properties as required by regulations.
PROJECT JUSTIFICATION: Required per the PUC regulations. The impact of not installing meters is the loss of revenue and lack of ability to accurately estimate water loss in the system.
RISK(S): Failure to comply with PUC regulations and the potential of lost revenue.
IMPACT ON OPERATIONS: Increased system reliability, reliability, and improved sytem management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	DSIC - Water
Total	\$962,500	462,500	500,000	0	0	0	\$962,500	

Water Distribution System

Urgent Lead Service Line Replacement

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE: Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Operations and Maintenance Efficiency, Level of Service
PROJECT DESCRIPTION: This project involves the private side Lead Service Line Replacements (LSLR) associated with operations public side replacements. It includes provisions for some full line replacements when operations requests both sides be completed due to their workload or other factors.
PROJECT JUSTIFICATION: Compliance with the Lead Infrastructure Plan approved by the PUC. PUC requires termination if a private side lead service line is not replaced the same time the public service line is replaced. Not completing this project would lead to water service terminations.
RISK(S): Required to terminate service if property owners do not replace their private side lead service lines after operations replaces a public side service line.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability and water quality.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$5,706,000	1,399,500	1,170,000	1,079,000	1,046,500	1,011,000	\$5,706,000	
2022 Urgent Lead Service Line Replacement		1,399,500	0	0	0	0	\$1,399,500	DSIC - Water
2023 Urgent Lead Service Line Replacement		0	1,170,000	0	0	0	\$1,170,000	
2024 Urgent Lead Service Line Replacement		0	0	1,079,000	0	0	\$1,079,000	
2025 Urgent Lead Service Line Replacement		0	0	0	1,046,500	0	\$1,046,500	
2026 Urgent Lead Service Line Replacement		0	0	0	0	1,011,000	\$1,011,000	

Water Distribution System

Valve Replacement Program

PROJECT NUMBER: 2020-325-111-0, Unidentified

WARD: Systemwide

PHASE: Construction / Not Started
PRIORITY: Safety, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Replacement of defective or non-operational valves on transmission and distribution mains throughout the water distribution system, excluding valves replaced during waterline relays.
PROJECT JUSTIFICATION: Increasing the number of operable valves in the system will reduce the number of valves that would need to be closed during emergency conditions, and therefore the number of customers that may be impacted.
RISK(S): A larger number of customers may be subject to service outages.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Utilize Authority staff and equipment to perform all repairs. This would require an increase in operation expenses for both personnel and equipment.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$17,082,594	1,228,536	1,930,769	2,997,436	2,800,000	2,800,000	\$11,756,741	
2021 Valve Replacement		228,536	0	0	0	0	\$228,536	DSIC - Water
2022 Valve Replacement		1,000,000	430,769	0	0	0	\$1,430,769	
2023 Valve Replacement		0	1,500,000	430,769	0	0	\$1,930,769	
2024 Valve Replacement		0	0	2,566,667	2,800,000	233,333	\$5,600,000	
2025 Valve Replacement		0	0	0	0	2,566,667	\$2,566,667	

Water Distribution System

Water Relay Program

PROJECT NUMBER: 2020-325-110-0, Unidentified

WARD: Systemwide

PHASE: Construction
PRIORITY: Safety, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Replacement of existing water mains, valves, fittings, service connections, and hydrants due to emergency situations.
PROJECT JUSTIFICATION: The existing water distribution system is aging and updates are required to address failures that could be significant public safety hazards.
RISK(S): Customers will be subject to service outages or inadequate pressure for firefighting activities until break is addressed.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Utilize Authority staff and equipment to perform all upgrades. This would require an increase in operations expenses for both personnel and equipment.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$9,718,083	1,978,083	1,935,000	1,935,000	1,935,000	1,935,000	\$9,718,083	
2020 Water Relay		489,621	0	0	0	0	\$489,621	Debt (Revenue Bonds) / DSIC - Water
2022 Water Relay		1,488,462	466,538	0	0	0	\$1,935,000	
2023 Water Relay		0	1,488,462	446,538	0	0	\$1,935,000	
2024 Water Relay		0	0	1,488,462	446,538	0	\$1,935,000	
2025 Water Relay		0	0	0	1,488,462	446,538	\$1,935,000	
2026 Water Relay		0	0	0	0	1,488,462	\$1,488,462	

Water Distribution System

Water and Wastewater Safety and Security Improvements

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE: Not Started
PRIORITY: Safety
PROJECT DESCRIPTION: Safety and security improvements throughout PWSA facilities.
PROJECT JUSTIFICATION: Failure to implement safety and security measures will increase the likelihood of a security breach causing harm to PWSA employees and customers.
RISK(S): Security breaches.
IMPACT ON OPERATIONS: Increased safety and security at all PWSA facilities.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$1,500,000	1,500,000	0	0	0	0	\$1,500,000	



Wastewater System



Wastewater System

31st Ward Pump Station and Appurtenances - Phase 2

PROJECT NUMBER: Unidentified

WARD: 31

PHASE:

Not Started

PRIORITY:

Regulatory Compliance, Reliability/Operational Flexibility, Regional Cooperation/ Stewardship, Level of Service

PROJECT DESCRIPTION:

Evaluation to identify and locate the source(s) of the infiltration and inflow (I/I), removal of public I/I sources, and rehabilitation/replacement of the Rogers Street and Mifflin Road Pump Station and force main.

PROJECT JUSTIFICATION:

Both sewage pump stations and the force main that convey flow to the Streets Run Sanitary Trunk Sewer were constructed in the late 1940's and are reaching the end of their useful life. Additionally, past studies suggest this sewershed may be significantly impacted by high levels of infiltration/inflow.

RISK(S):

Increased combined sewer overflows and pump station system failures.

IMPACT ON OPERATIONS:

Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Abandonment of the existing pump stations and installation of a new gravity main to convey flows to the West Mifflin Sanitary Authority.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds) / DSIC - Sewer</u>
Total	\$14,059,438	110,521	1,090,000	999,167	4,412,750	7,447,000	\$14,059,438	

Wastewater System

Browns Hill Road Sewer Pump Station Replacement

PROJECT NUMBER: Unidentified

WARD: 15

PHASE:

Not Started

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Construction of a replacement 160 GPM sanitary sewer pump station, including standby power, safer ingress and egress for routine maintenance, a water supply for equipment wash down and odor control facilities, if required. Additionally, perform a condition assessment of the 4" force main (approx. 790 l.f.) constructed in 2007, but not utilized and confirm sanitary sewer separation occurred. Additional sewer separation may need to occur prior to modifying the existing diversion chamber.

PROJECT JUSTIFICATION:

The existing sanitary sewer pump station has reached the end of its useful life. The replacement station will provide increased operating efficiency and resiliency and improved safety conditions for staff.

RISK(S):

If the station is not replaced, pump or wet well failures could occur, which would result in sanitary sewer overflows. Sanitary sewer overflows could result in fines and notice of violations from regulating agencies.

IMPACT ON OPERATIONS:

Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Delay the construction and risk pump or wet well failures.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,700,000	248,000	370,100	1,081,900	0	0	\$1,700,000	

Wastewater System

Large Diameter Sewer Rehabilitation Program

PROJECT NUMBER: 2020-424-101-0, 2020-424-107-0, 2021-424-105-0,
Unidentified

WARD: Systemwide

PHASE: Design / Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Proactive, trenchless rehabilitation of 36" diameter or greater sewer mains to restore structural integrity, reduce root intrusion, and reduce infiltration and inflow; including cleaning and pre and post construction CCTV inspections.
PROJECT JUSTIFICATION: Provides the Authority with a means to address several moderate/major structural defects in pipe segments prior to complete failure. This trenchless pipe renewal method renews the asset, eliminates disruptive excavation, and is more cost effective than replacement.
RISK(S): If moderate/major structural defects are not proactively addressed, complete failure will eventually occur and excavation will be required. Any complete failure that occurs will result in dramatically increased expenditures for repair.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Perform excavated point repairs to address defective sections of pipe, replace segment in its entirety, or continue to extend asset life until failure.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	Total Budget (Prior Years Included)	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total	
Total	\$32,008,364	5,700,224	4,993,711	3,824,429	4,660,000	4,900,000	\$24,078,364	
2020 Large Diameter Sewer Rehabilitation		2,652,479	227,224	0	0	0	\$2,879,703	PENNVEST / Debt (Revenue Bonds)
2021 Large Diameter Sewer Rehabilitation		2,205,459	1,291,773	0	0	0	\$3,497,232	
2022 Large Diameter Sewer Rehabilitation		802,286	2,427,714	0	0	0	\$3,230,000	
2023 Large Diameter Sewer Rehabilitation		40,000	1,047,000	3,293,000	0	0	\$4,380,000	
2024 Large Diameter Sewer Rehabilitation		0	0	531,429	4,108,571	0	\$4,640,000	
2025 Large Diameter Sewer Rehabilitation		0	0	0	551,429	4,328,571	\$4,880,000	
2026 Large Diameter Sewer Rehabilitation		0	0	0	0	571,429	\$571,429	

Wastewater System

Maytide Storm and Sanitary Sewer System Improvements

PROJECT NUMBER: 2017-424-109-0

WARD: 29

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Reconstruction of storm infrastructure from Merritt Avenue to the storm interceptor on Ravilla Avenue and the realignment of the 10" sanitary sewer on Maytide (Sanderson to Valline).

PROJECT JUSTIFICATION:

Localized property and street flooding has been well-documented for several years at this location and the undeveloped right-of-way of Sanderson has significantly deteriorated. Additionally, an inspection of the 10" sanitary sewer on Maytide Street revealed structural and construction defects.

RISK(S):

Continual degradation to a steep slope could result in property damage and an increased cost to stabilize. Customers may be subject to basement backups, or overflows may occur due to collapsed pipes.

IMPACT ON OPERATIONS:

Increased operating reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds) / DSIC - Sewer
Total	\$11,596,866	82,584	3,921,723	1,072,559	0	0	\$5,076,866	

Wastewater System

M-29 Outfall Improvements

PROJECT NUMBER: 2018-424-103-0

WARD: 15

PHASE:
Construction

PRIORITY:
Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:
Modifying diversion chamber, rehabilitating culvert, constructing an endwall, and installing flapgate associated with the M-29 outfall structure.

PROJECT JUSTIFICATION:
The M-29 outfall structure is critical infrastructure that has been in jeopardy of failing for several years due to significant structural defects in the existing culvert.

RISK(S):
The M-29 outfall structure could fail prior to completion of the project.

IMPACT ON OPERATIONS:
Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$6,213,168	1,804,376	0	0	0	0	\$1,804,376	

Wastewater System

Queenston Sewer Improvements

PROJECT NUMBER: 2019-424-103-2

WARD: 32

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Removal of a combined sewer diversion chamber and installation of new sewer infrastructure, which will result in the separation of the sewershed.

PROJECT JUSTIFICATION:

The existing sewer infrastructure (both storm and sanitary) have significant structural defects, which are located under a large structure in a paper street over 40 feet deep. Additionally, several customers experience sewer backups that are connected to the combined sewer in a mostly separated area.

RISK(S):

Customers may be subject to basement backups or overflows may occur due to collapsed pipes.

IMPACT ON OPERATIONS:

Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:

Reroute the infrastructure (laterals and catch basins) connected to the failed mains; however, this may result in additional basement backups for the customers and may not be feasible due to the existing depth of the existing infrastructure.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$4,267,892	1,931,853	213,197	0	0	0	\$2,145,050	

Wastewater System

Sewer Reconstruction Program

PROJECT NUMBER: 2021-424-100-0, Unidentified

WARD: Systemwide

PHASE: Construction / Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Reconstruction of existing sewers, manholes, catch basins, and inlets due to emergency situations or pipe failures.
PROJECT JUSTIFICATION: The existing sewer system is aging and immediate repairs are required to address failures that could be significant public safety hazards.
RISK(S): Customers may be subject to basement backups or overflows may occur due to collapsed pipes. The Authority may be subject to related fines due to sewer overflows or for non-compliance as outlined in the Consent Order and Agreement.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Utilize Authority staff and equipment to perform all repairs. This would result in an increase to labor, equipment, and related operating expenses.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$11,908,016	3,201,777	1,999,781	1,810,000	1,810,000	1,886,458	\$10,708,016	
2021 Sewer Reconstruction		931,638	0	0	0	0	\$931,638	Debt (Revenue Bonds) / DSIC - Wastewater
2022 Sewer Reconstruction		2,270,139	964,861	0	0	0	\$3,235,000	
2023 Sewer Reconstruction		0	1,034,920	775,080	0	0	\$1,810,000	
2024 Sewer Reconstruction		0	0	1,034,920	775,080	0	\$1,810,000	
2025 Sewer Reconstruction		0	0	0	1,034,920	775,080	\$1,810,000	
2026 Sewer Reconstruction		0	0	0	0	1,111,378	\$1,111,378	

Wastewater System

Sewers Under Structures Program

PROJECT NUMBER: 2017-424-110-0, 2020-424-104-0 / 1, Unidentified
WARD: Systemwide

PHASE: Design / Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Rehabilitation, relocation, and abandonment, if applicable, of existing sewer infrastructure located under or adjacent to buildings, bridges, or railroads or located on steep slopes.
PROJECT JUSTIFICATION: In recent years, there has been an increasing rate of failure of this asset type due to limited accessibility and pipe age. By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost.
RISK(S): Failure of this asset type could result in significant property/structure damage, increased replacement cost, and increased service outages or bypass pumping.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Continue to extend utility component life until a high failure rate justifies replacement.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	Total Budget (Prior Years Included)	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total	
Total	\$40,164,693	3,253,531	7,551,477	2,679,036	3,297,524	3,428,125	\$20,209,693	
2018 Sewers Under Structures		2,079,051	1,747,266	0	0	0	\$3,826,317	Debt (Revenue Bonds) / DSIC – Wastewater
2020 Sewers Under Structures		1,127,605	5,477,336	1,018,655	0	0	\$7,623,596	
2022 Sewers Under Structures		46,875	278,125	1,158,095	1,751,905	0	\$3,235,000	
2023 Sewers Under Structures		0	48,750	289,250	1,207,619	1,824,381	\$3,370,000	
2024 Sewers Under Structures		0	0	48,750	289,250	1,207,619	\$1,545,619	
2025 Sewers Under Structures		0	0	0	48,750	289,250	\$338,000	
2026 Sewers Under Structures		0	0	0	0	106,875	\$106,875	

Wastewater System

Small Diameter Sewer Rehabilitation Program

PROJECT NUMBER: 2020-424-100-0 / 1 / 2, 2020-424-108-0, 2020-424-106-0 / 1 / 2, 2021-424-101-0 / 1, 2021-424-102, Unidentified

WARD: Systemwide

PHASE: Design/Construction/Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Proactive, trenchless rehabilitation of sewer mains (36" diameter and less) to restore structural integrity, reduce root intrusion, and reduce infiltration and inflow; including cleaning and pre and post construction CCTV inspections.
PROJECT JUSTIFICATION: Provides the Authority with a means to address several moderate/major structural defects in pipe segments prior to complete failure. This trenchless pipe renewal method renews the asset, eliminates disruptive excavation, and is more cost effective than replacement.
RISK(S): If moderate/major structural defects are not proactively addressed, complete failure will eventually occur and excavation will be required. Any complete failure that occurs will result in dramatically increased expenditures for repair.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Perform excavated point repairs to address defective sections of pipe, replace segment in its entirety, or continue to extend asset life until failure.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	Total Budget (Prior Years Included)	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total	
Total	\$173,365,671	24,797,923	19,677,217	20,149,254	22,480,772	23,561,090	\$110,666,256	
2019 Small Diameter Rehabilitation		211,940	0	0	0	0	\$211,940	Debt (Revenue Bonds) / PENNVEST
2020 Small Diameter Rehabilitation		6,697,562	0	0	0	0	\$6,697,562	
2021 Small Diameter Rehabilitation		10,932,911	431,778	0	0	0	\$11,364,698	
2022 Small Diameter Rehabilitation		5,005,510	4,922,592	0	0	0	\$9,928,102	
2023 Small Diameter Rehabilitation		1,950,000	12,022,838	5,287,162	0	0	\$19,260,000	
2024 Small Diameter Rehabilitation		0	2,300,000	12,472,092	7,097,908	0	\$21,870,000	
2025 Small Diameter Rehabilitation		0	0	2,390,000	12,892,864	7,337,136	\$22,620,000	
2026 Small Diameter Rehabilitation		0	0	0	2,490,000	13,493,594	\$15,983,954	
2027 Small Diameter Rehabilitation		0	0	0	0	2,730,000	\$2,730,000	

**\$638,800 ALCOSAN GROW grant funding secured.



Stormwater



Stormwater System

Braywood Stormwater Improvements

PROJECT NUMBER: Unidentified

WARD: 15

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship, Reliability/Operational Flexibility, Level of Service, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Stormwater detention system in the right-of-way in and around Braywood Way to increase stormwater control and mitigate flooding experienced by residents. Infrastructure could include permeable pavement, bioswales, subsurface detention, etc. depending on design determinations.

PROJECT JUSTIFICATION:
There's a low point on Braywood Way that experiences persistent, severe flooding. This system is undersized and deteriorating, keeping up with minor precipitation events but the majority cause flooding.

RISK(S):
Risks associated with not completing this project include poor level of service.

IMPACT ON OPERATIONS:
This project would decrease the need for persistent catch basin cleaning in this location.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$909,000	105,000	804,000	0	0	0	\$909,000	

Stormwater System

Bus Rapid Transit Stormwater Infrastructure Improvements

PROJECT NUMBER: 2020-GI-100-0

WARD: 1 & 4

PHASE:

Design

PRIORITY:

Safety, Regional Cooperation/Stewardship, Reliability/Operational Flexibility

PROJECT DESCRIPTION:

A cost share with the City of Pittsburgh's Department of Mobility and Infrastructure on the redesign of Forbes Avenue and Fifth Avenue to accommodate bus rapid transit from downtown to Birmingham Bridge. This project will include the installation of permeable paving, underground storage, and bioretention plantings and is tributary to the M-05 and M-19 outfall.

PROJECT JUSTIFICATION:

This project will help slow or reduce runoff into the the combined sewer system during wet weather events.

RISK(S):

Wet weather flow may continue to flow into the combined sewer system prior to the completion of the project, which could cause issues during wet weather events.

IMPACT ON OPERATIONS:

Increased system reliability and improved sytem management.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$5,595,047	1,039,288	480,771	0	0	0	\$1,520,059	

Stormwater System

Catch Basin and Inlet Replacement Program

PROJECT NUMBER: 2020-424-105-0/1, Unidentified

WARD: Systemwide

PHASE: Construction / Not Started
PRIORITY: Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service
PROJECT DESCRIPTION: Strategic replacement of catch basins and storm inlets throughout the system to replace failed units, stormwater control reliability, and minimize disturbance to the community.
PROJECT JUSTIFICATION: By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost.
RISK(S): Overland and street flooding could occur due to a defective or undersized catch basin or storm inlet, creating a public health and safety hazard during wet weather events.
IMPACT ON OPERATIONS: Increased operating reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Continue to extend utility component life until a high failure rate justifies replacement.

<u>CASH FLOW SUMMARY</u>								<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	
Total	\$47,465,365	4,238,472	7,113,750	8,034,541	8,166,709	8,325,000	\$35,878,472	
2020 Catch Basin and Inlet Replacement		726,805	0	0	0	0	\$726,805	Debt (Revenue Bonds)
2022 Catch Basin and Inlet Replacement		3,511,667	968,333	0	0	0	\$4,480,000	
2023 Catch Basin and Inlet Replacement		0	6,145,417	1,694,583	0	0	\$7,840,000	
2024 Catch Basin and Inlet Replacement		0	0	6,339,958	1,750,042	0	\$8,090,000	
2025 Catch Basin and Inlet Replacement		0	0	0	6,416,667	1,733,333	\$8,150,000	
2026 Catch Basin and Inlet Replacement		0	0	0	0	6,591,667	\$6,591,667	

Stormwater System

Dragoon Way Stormwater Improvements

PROJECT NUMBER: Unidentified

WARD: 10

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship, Reliability/Operational Flexibility, Level of Service, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
This would involve upsizing stormwater infrastructure as well as road paving on Dragoon Way.

PROJECT JUSTIFICATION:
This area experiences significant roadway and property flooding. Runoff flows down Dragoon Way and through multiple Adelpia Street properties, flooding Adelpia Street. PWSA currently owns stormwater infrastructure on Adelpia Street that is undersized and deteriorating.

RISK(S):
Risks associated with not completing this project include poor level of service.

IMPACT ON OPERATIONS:
Reduced need for catch basin cleaning after significant precipitation events.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,163,000	135,000	1,028,000	0	0	0	\$1,163,000	

Stormwater System

Fleury Way Stormwater Infrastructure Improvements

PROJECT NUMBER: 2021-424-102-0

WARD: 12

PHASE:

Planning

PRIORITY:

Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Construction of storm sewer infrastructure to address persistent and severe street flooding and roadway damage. Project will include installing approximately 500 ft of 18" storm sewers and 4 new catch basins as well as inverting the crown of the road and adding proper curbing for optimal drainage.

PROJECT JUSTIFICATION:

After field assessment and review, the stormwater group ranked this issue as a "high priority" because of the severity of road degradation and persistent street flooding caused by lack of stormwater infrastructure and improper road design. This issue is located in the A-42 Green First sewershed. This project is also a good opportunity to coordinate and share costs with DOMI.

RISK(S):

Poor level of service and safety risks.

IMPACT ON OPERATIONS:

4 additional inlets, operations will need to be added to the cleaning schedule.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$601,468	601,468	0	0	0	0	\$601,468	

**\$564,709 will be reimbursed as part of a cost share agreement between the PWSA and the City of Pittsburgh.

Stormwater System

Four Mile Run Stormwater Infrastructure Improvements

PROJECT NUMBER: 2018-GI-102-0

WARD: 15

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship

PROJECT DESCRIPTION:
Sewer separation, stream restoration, stream daylighting, bioretention, and underground storage to remove the existing stream base and wet weather flow currently discharging into the combined sewer located in M-29.

PROJECT JUSTIFICATION:
This project will separate wet weather flow being directly discharged into the Authority's combined sewer system.

RISK(S):
Wet weather flow may continue to flow into the combined sewer system prior to the completion of the project, which could in issues during wet weather events.

IMPACT ON OPERATIONS:
Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$45,975,705	3,333,541	7,272,993	5,750,510	0	0	\$16,357,044	

Stormwater System

Haverhill Street Improvements Project

PROJECT NUMBER: Unidentified

WARD: 13

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship, Reliability/Operational Flexibility, Level of Service, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
This project will capture and redirect an existing nuisance groundwater seep into retention/slow release subsurface infrastructure, either in the form of a perforated pipe and gravel bed or a retention tank. The project will also involve landslide stabilization to prevent current persistent sediment accumulation in the downstream sewer and green infrastructure as well as associated roadway restoration.

PROJECT JUSTIFICATION:
There is currently an unmanaged groundwater seep flowing down Haverhill Street, flooding properties, depositing significant amounts of sediment into PWSA's sewer system and a PWSA green infrastructure site (Oakwood and Batavia), degrading the roadway, and causing dangerous driving conditions especially in the winter. This project would decrease private property flooding, reduce the amount of sediment entering the sewer system, save PWSA maintenance costs involved with removing sediment from nearby catch basins and green infrastructure, stop continued green infrastructure system degradation caused by this seep, and improve roadway conditions and safety in the area.

RISK(S):
Street flooding will continue to occur creating a public health and safety hazard during wet weather events.

IMPACT ON OPERATIONS:
This would decrease maintenance needs for both the green infrastructure maintenance contract as well as the catch basin cleaning contract.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$700,000	115,000	585,000	0	0	0	\$700,000	

Stormwater System

Lawn and Ophelia

PROJECT NUMBER: 2017-424-104-0

WARD: 4

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Regional Cooperation/Stewardship

PROJECT DESCRIPTION:

Project is located in the South Oakland neighborhood in the City of Pittsburgh and is a tributary to the M-19B outfall. This project is intended to be a community gathering space combined with stormwater management features.

PROJECT JUSTIFICATION:

It is anticipated that 1.9 impervious acres from neighboring roads and roofs can be managed.

RISK(S):

Customers within the service area of this project may experience stormwater related issues prior to the completion of this project.

IMPACT ON OPERATIONS:

Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,631,109	756,249	0	0	0	0	\$756,249	

**\$313,900 ALCOSAN GROW grant funding secured.

Stormwater System

Martin Luther King Field Stormwater Infrastructure Improvements

PROJECT NUMBER: 2019-GI-104-0

WARD: 4 & 5

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility

PROJECT DESCRIPTION:

Installation of regenerative bioswale and underground detention facilities to capture and detain impervious acres from the adjacent streets and upstream separate storm sewers, which currently discharges into the combined sewer located in M-19.

PROJECT JUSTIFICATION:

This project will help slow or reduce runoff into the the combined sewer system during wet weather events.

RISK(S):

Wet weather flow may continue to flow into the combined sewer system prior to the completion of the project, which could cause issues during wet weather events.

IMPACT ON OPERATIONS:

Increased system reliability and improved sytem management.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$5,352,233	539,936	3,812,297	0	0	0	\$4,352,233	

**\$855,270 ALCOSAN GROW grant funding secured.

Stormwater System

Maryland Avenue Stormwater Infrastructure Improvements

PROJECT NUMBER: 2017-424-101-0

WARD: 7

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Permeable paver based GSI project to manage approximately 5.3 acres of impervious acres for 1.5" runoff event.

PROJECT JUSTIFICATION:
The project purpose is to reduce combined sewer overflows at the downstream A-22 outfall while also improving performance of the local combined sewer system that has experienced surcharge and flooding during intense rain events in downstream areas of Shadyside.

RISK(S):
Continued flooding risk, which has contributed to frequent reports of basement backups in this area of the PWSA system.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Implementing stormwater management projects at less cost-effective locations.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$6,334,954	1,795,488	0	0	0	0	\$1,795,488	

**\$733,000 ALCOSAN GROW grant funding secured.

Stormwater System

Nobles Lane Stormsystems Improvements

PROJECT NUMBER: 2021-424-104-0

WARD: 29

PHASE:

Planning

PRIORITY:

Safety, Regulatory Compliance, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Construction of strategically placed catch basins and storm sewers to reduce or eliminate overland flooding from roadway onto private property.

PROJECT JUSTIFICATION:

After field assessment and review, the stormwater group ranked this issue as a "high priority" because of flooding severity and its location in the Saw Mill Run sewershed. This project seeks to install new catch basins and a new storm sewer to help appropriately manage runoff. This area of the Carrick neighborhood does not have any stormwater infrastructure.

RISK(S):

Poor level of service.

IMPACT ON OPERATIONS:

The proposed catch basins will include green filters to add water quality benefits to Saw Mill Run. These will need to be routinely cleaned via the green infrastructure maintenance contractor and will be a minimal impact to this particular operations budget.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$158,916	158,916	0	0	0	0	\$158,916	

**\$70,161 will be reimbursed as part of a cost share agreement between the PWSA and the City of Pittsburgh.

Stormwater System

Saw Mill Run Municipal Separate Storm Sewer System Compliance

PROJECT NUMBER: Unidentified

WARD: 32 & 29

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance

PROJECT DESCRIPTION:
Identifying and completing projects related to Municipal Separate Storm Sewer System (MS4) compliance.

PROJECT JUSTIFICATION:
This project is necessary to become compliant with MS4 regulatory requirements.

RISK(S):
The timeline to complete the MS4 compliance projects could take longer than expected.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$3,500,000	0	0	0	1,000,000	2,500,000	\$3,500,000	

Stormwater System

Saw Mill Run Watershed Improvements

PROJECT NUMBER: 2020-424-109-0

WARD: 32

PHASE:

Planning

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Implementation of stormwater treatment and reconnection of streams to vegetated floodplains to help mitigate stormwater peak flows and reduce sediment and other pollutant loads. This project will demonstrate the effectiveness of green infrastructure in reducing pollutants, controlling CSO/SSOs, and restoring the health of the aquatic ecosystems in the Saw Mill Run watershed to comply with regulatory obligations.

PROJECT JUSTIFICATION:

This project will help to comply with regulatory obligations by reducing pollutants and controlling CSO/SSOs.

RISK(S):

It may be difficult to comply with certain regulatory obligations prior to the completion of the project.

IMPACT ON OPERATIONS:

Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,000,000	200,000	500,000	300,000	0	0	\$1,000,000	

**Future cost share agreement will be negotiated with PennDOT.

Stormwater System

Southside Flats Sewer Separation

PROJECT NUMBER: Unidentified

WARD: 16 & 17

PHASE:
Not Started

PRIORITY:
Safety, Regional Cooperation/Stewardship, Reliability/Operational Flexibility

PROJECT DESCRIPTION:
Separation of 17 acres of combined sewer through the construction of storm drain along Wharton Street to 18th Street.

PROJECT JUSTIFICATION:
This project will help slow or reduce runoff into the the combined sewer system during wet weather events.

RISK(S):
Community members are concerned about disruptions during construction and potential rooftop disconnect costs.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$3,527,000	513,000	2,383,194	630,806	0	0	\$3,527,000	

Stormwater System

Southside Stormwater Infrastructure Improvements

PROJECT NUMBER: 2019-GI-100-0

WARD: 16 & 17

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Regional Cooperation/Stewardship

PROJECT DESCRIPTION:

The Southside Green / Stormwater project is located in the M-16 sewershed, which discharges approximately 103MG of CSOs in a typical year as it is defined in the current system model. Additionally, there are 15 known surface streams/seeps within the park that appear to connect into the combined sewer system. The project will focus on stormwater management source control opportunities within Southside Park. The project will look at separating the stormwater runoff from the park and road right-of-way areas. It will connect through a new storm sewer discharge to be built under South 21st Street to the Monongahela River. The project will detain and slowly return the stormwater runoff to the combined sewer system.

PROJECT JUSTIFICATION:

This project will help comply with regulatory requirements by reducing CSOs.

RISK(S):

It may be difficult to comply with certain regulatory obligations prior to the completion of the project.

IMPACT ON OPERATIONS:

Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$9,289,161	1,114,451	2,842,000	403,500	0	0	\$4,359,951	

**\$1,489,900 ALCOSAN GROW grant funding secured.

Stormwater System

Stewart Avenue Stormwater Infrastructure Project

PROJECT NUMBER: Unidentified

WARD: 29

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:
Overland stormwater runoff during larger precipitation events in the Stewart Avenue area contribute to downstream flooding along Saw Mill Run Blvd, flooding of nearby private properties, street flooding, and roadway damage. Catch basins and storm inlets once discharged to an open drainage channel along Stewart Avenue, however this is no longer operational as the road was recently paved and widened, eliminating the channel. Recognizing that the Saw Mill Run stream corridor is overwhelmed during relatively small rainfall events, PWSA desires to evaluate alternatives with an emphasis toward source control measures and other green strategies where peak flows from the Stewart Avenue runoff area can be possibly detained and mitigated.

PROJECT JUSTIFICATION:
This project is necessary to increase stormwater service and control in the area, which is currently lacking adequate stormwater infrastructure.

RISK(S):
Failing to complete this project will lead to persistent private property and roadway flooding, chronic depreciation of roadway conditions, and continued worsening flooding and impairment of Saw Mill Run.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$3,104,000	299,400	1,910,156	894,444	0	0	\$3,104,000	

Stormwater System

Thomas and McPherson Stormwater Infrastructure Improvements

PROJECT NUMBER: 2018-GI-106-0

WARD: 7

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Reliability/Operational Flexibility

PROJECT DESCRIPTION:
Installation of roadside bioretention features to capture and detain impervious road runoff in the North Point Breeze neighborhood of the City of Pittsburgh, which is a tributary to the A-42 combined sewer outfall.

PROJECT JUSTIFICATION:
This project will help slow or reduce runoff into the the combined sewer system during wet weather events.

RISK(S):
Wet weather flow may continue to flow into the combined sewer system prior to the completion of the project, which could in issues during wet weather events.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$10,937,632	4,060,230	462,800	0	0	0	\$4,523,030	

**\$1,517,800 ALCOSAN GROW grant funding secured.

Stormwater System

Volunteer's Field Stormwater Infrastructure Improvements

PROJECT NUMBER: 2018-GI-104-0

WARD: 29

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship

PROJECT DESCRIPTION:
Project is located in the Carrick neighborhood of the City of Pittsburgh and is a tributary to Saw Mill Run. Installation of green infrastructure within the park to reduce sediment and other pollutant loads.

PROJECT JUSTIFICATION:
Required for compliance with the MS4 permit and EPA TMDL requirements. Project will also detain stormwater to reduce downstream flooding in Saw Mill Run.

RISK(S):
It may be difficult to comply with certain regulatory obligations prior to the completion of the project.

IMPACT ON OPERATIONS:
Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,736,009	853,776	83,333	0	0	0	\$937,109	

Stormwater System

Wet Weather Program Projects

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE:
Not Started

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship, Reliability/Operational Flexibility, Level of Service, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
This project is for improvements to the sewer system facilities to bring combined sewer overflows into compliance with the negotiated consent decree and to remediate SSOs.

PROJECT JUSTIFICATION:
This project is required to ensure PWSA meets regulatory requirements related to wet weather flow being directly discharged into the PWSA's combined sewer system.

RISK(S):
Failure to meet future regulatory requirements.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$45,000,000	0	0	5,000,000	20,000,000	20,000,000	\$45,000,000	

Stormwater System

Wightman Park Stormwater Infrastructure Improvements (Phase 1 & 2)

PROJECT NUMBER: 2017-424-105-0 / 1

WARD: 14

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Regional Cooperation/Stewardship

PROJECT DESCRIPTION:
Project is located in the Squirrel Hill neighborhood of the City of Pittsburgh and is a tributary to the M-29 outfall. Stormwater management within the park itself as well as the necessary piping or inlet work to direct up to 3.25 impervious acres from the adjacent streets into the park. The Wightman Park project along with future street bioswale projects are expected to increase the impervious acres captured as well as alleviate reported sewer basement backups in the neighborhood around Wightman Park.

PROJECT JUSTIFICATION:
2.24 million gallons of stormwater runoff will be managed through this project in a typical year, producing downstream CSO reduction. The project will also improve the performance of adjacent, downstream sewers through peak flow reduction.

RISK(S):
Customers may be subject to basement backups or overflows may occur due to collapsed pipes. The Authority may be subject to related fines due to sewer overflows or for non-compliance as outlined in the Consent Order and Agreement.

IMPACT ON OPERATIONS:
Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Delay construction which will increase the risk of sewer basement backups.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$6,706,789	424,789	0	0	0	0	\$424,789	

**\$2,992,427 ALCOSAN GROW grant funding secured.

Stormwater System

Winchester Drive at Grovemount Stormsystem Improvements

PROJECT NUMBER: 2021-424-103-0

WARD: 20

PHASE:

Planning

PRIORITY:

Safety, Regulatory Compliance, Reliability/Operational Flexibility, Level of Service

PROJECT DESCRIPTION:

Construction of storm system and roadway improvements to address right of way flooding and damage (hillside erosion and road undercutting) caused by stormwater.

PROJECT JUSTIFICATION:

After field assessment and review, the stormwater group ranked this issue as a "high priority" because of the severity of safety issues caused by lack of inlets and curbing as well as a failing outlet structure. Due to improper catch basin placement as well as poor road design the intersection at Winchester Drive and Grovemount Road is being undercut by overland stormwater runoff, causing the road to start to fail and collapse. This project seeks to install new catch basins and a new storm sewer as well as stabilize the existing outfall to help appropriately manage runoff.

RISK(S):

Poor level of service, safety risks.

IMPACT ON OPERATIONS:

10 new catch basins that operations will have to add to the cleaning schedule.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$841,922	201,597	0	0	0	0	\$201,597	

**\$167,375 will be reimbursed as part of a cost share agreement between the PWSA and the City of Pittsburgh.

Stormwater System

Woodland Road Stormwater Infrastructure Improvements

PROJECT NUMBER: 2018-GI-108-0

WARD: 14

PHASE:
Construction

PRIORITY:
Safety, Regulatory Compliance, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:
Bioretention based GSI project to manage approximately 7 acres of impervious acres for 1.5" runoff event. Project location is in A-22 sewershed on the campus of Chatham University adjacent to Woodland Road. Design activities include field investigations (site survey, geotech), development of design documents for construction and pre-construction flow monitoring.

PROJECT JUSTIFICATION:
The project purpose is to reduce combined sewer overflows at the downstream A-22 outfall while also improving performance of the local combined sewer system that has experienced surcharge and flooding during intense rain events in downstream areas of Shadyside.

RISK(S):
Continued flooding risk, which has contributed to frequent reports of basement backups in this area of the PWSA system.

IMPACT ON OPERATIONS:
Increased system reliability and improved system management.

ALTERNATIVES TO THE RECOMMENDED ACTION:
Implementing stormwater management projects at less cost-effective locations.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,718,406	577,528	0	0	0	0	\$577,528	

**\$1,616,452 ALCOSAN GROW grant funding secured.

Stormwater System

Woods Run Stream Removal Stormwater Infrastructure Improvements

PROJECT NUMBER: 2017-424-108-0 / 1

WARD: 26

PHASE:

Design

PRIORITY:

Safety, Regulatory Compliance, Regional Cooperation/Stewardship

PROJECT DESCRIPTION:

This project will redirect an existing stream inflow location into a detain and slow release subsurface storage facility. The stream base and wet weather flow currently discharge directly into a 36" diameter combined sewer on Mairdale Avenue.

PROJECT JUSTIFICATION:

This project will separate wet weather flow being directly discharged into the PWSA's combined sewer system.

RISK(S):

Wet weather flow may continue to flow into the combined sewer system prior to the completion of the project, which could in issues during wet weather events.

IMPACT ON OPERATIONS:

Increased operating flexibility and reliability.

ALTERNATIVES TO THE RECOMMENDED ACTION:

There are no practical alternatives to the recommended action.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$10,215,669	361,144	1,920,794	819,206	0	0	\$3,101,144	

**\$1,224,300 ALCOSAN GROW grant funding secured.



Miscellaneous



Miscellaneous

Utility Cost Shares

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE: Not Started
PRIORITY: Regional Cooperation/ Stewardship
PROJECT DESCRIPTION: This project will fund future cost sharing projects.
PROJECT JUSTIFICATION: Cost sharing projects can provide a savings to the Authority.
RISK(S): Cost sharing projects have the potential to be delayed due to coordination issues.
IMPACT ON OPERATIONS: Increased operating flexibility and reliability.
ALTERNATIVES TO THE RECOMMENDED ACTION: Complete projects without cost sharing agreements.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,500,000	500,000	500,000	500,000	500,000	500,000	\$2,500,000	