



October 29, 2021

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 Third Quarter of 2021. 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

Pittsburgh Water and Sewer Authority
PUC Quarterly Update Report
Q3 2021



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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 182 Hydrants were replaced in 2021.
Restructure to support delivery of formal valve operation, flushing, and leak detection programs.	April 2019	PWSA has budgeted additional personnel to support these programs and it continues to be in progress.

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 182 year to date. 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.

ii. Restructure to support delivery of formal valve operation, flushing, and leak detection programs

PWSA has assigned one of its operations managers to formalize its valve operation, flushing, and leak detection programs, and has hired three additional senior managers to ensure that the programs are appropriately resourced and has budgeted additional personnel to support these programs. The Operations Department has also started a restructuring effort, which includes assigning designated crews to focus on programmatic valve operation, flushing, and leak detection activities (while supporting other crews during emergencies). PWSA has automated the capture of data for these programs through its mobile platform. Field crews are operating valves and inspecting/flushing hydrants which are being captured and tracked in Spry Mobile.

b. Compliance Plan Requirements

For PWSA's operational areas, the Compliance Plan addresses topics including metering unmetered accounts, residential and commercial meter change-outs and testing, flushing, and developing standard operating procedures for communications and emergency response (Table 2). 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 operational requirements for PWSA, as well as a progress update and/or plan for achieving the PUC's standards.

Table 2: Compliance Plan Requirements - Operations

Task	Timeline (if specified in the Compliance Plan)	Progress to Date
65.8 Develop a program to test 10-25% of commercial meters annually.	2022	On Target
69.16 Update Emergency Response Plan SOPs.	Within 6 months of Compliance Plan Filing	On-going

i. **65.8 - Develop criteria for when to test meters that have been pulled from service, prior to disposal**

PWSA has installed a test bench to test approximately 10% of the meters that have been pulled from service. Small meters (less than 1.5 inches in diameter) will not go back into service in the system. Operations staff have reached out to the Commission and developed a testing approach in the draft Compliance Plan settlement. PWSA believes that the last sentence of Title 55 § 65.8. Meters (d) (2), which says “Meters permanently removed from service and replaced by new meters utilizing remote reading devices are exempt from this provision.” permits PWSA to only test a fraction of the meters pulled from service when they no longer going to be used in the system, in accordance with the American Water Works Association testing protocol. Specifically, PWSA will test 5-10% of the small meters pulled from service and not reused for quality control and to establish accuracy levels. PWSA uses an AMI network for getting data from meters which qualifies as a “remote reading device.”

ii. **69.16 - Update Emergency Response Plan SOPs**

PWSA has revised its internal accident investigation operating procedure to ensure that telephone reports are made to Commission staff immediately after becoming aware of the death of a person; an occurrence of an unusual nature (whether or not death or injury of a person results), which will result in a prolonged and serious interruption of normal service; and an occurrence of an unusual nature that is a physical or cyber security attack, which causes an interruption of service or more than \$50,000 in damages, or both. Additionally, PWSA is in the process of updating its Emergency Response Plan to match the EPA template. The Authority hired a Safety and Security professional in 2020, who is holding quarterly meetings to update the 19 emergency scenarios.

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.
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 <i>draft</i> 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.

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.

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.

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

Telephone Call Completion Rate	201 Total Calls Attempted	54%
	Live Answer by Customer	37
	Message Left by PWSA	71
	Voicemail Box Full/No Answer/No Answering Machine	63
	Disconnected Number	30

Resulting Cancellations of Termination	53 Total Cancellations	26%
	Paid in Full	20
	Payment Arrangement	32
	Medical Filed	1
	PFA Filed	0
	Hardship Cash Assistance Grant Pending	0
	Winter Moratorium Eligibility Pending	0

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.
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 (c) on-going: • Improved outreach and messaging for programs (a); • Launched a social media campaign (b); • 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).
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- 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.

- 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 "c".

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.

- 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.

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 \$1,624,953.09 for the 3rd quarter of 2021. 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 DEP 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 15, 2021, 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

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

Actual replacement costs for the 3rd quarter of 2021 are \$1,624,953.09. 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, primarily for new features at this time. 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
 - Saline Pump Station
 - Herron Hill Pump Station
 - Herron Hill Tank Pump Station
 - Howard Pump Station
 - Mission Pump Station

The following existing flow meters are to be rehabilitated and calibrated in 2021. System Delivery Meters for Rising Mains 1 and 2 will be updated once the Membrane Filtration Plant is online.

- 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 reinstalled, 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 in 2022/2023 at the discharge of the tanks and reservoirs. Additional district flow meters identified in the Water Distribution System Master Plan will be installed after the above-mentioned meters have been installed and operational for an amount of time sufficient to properly review flow versus customer demand in the area.

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 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. Project is currently in construction with anticipated completion in Q4 2021.

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.

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 Develop a series of SOPs for records filing, records updates in GIS, and records retrieval.	Within 6 months	On-going
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
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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 rollout of a digital document management system provided by Xerox's Docuware product.

PWSA has completed the digitization of critical system records and schematics and has begun a large scale Docuware "beta test" open to all PWSA employees. In addition, PWSA has implemented a Docuware mobile application to give field service workers immediate access to system schematics on demand in the field. Throughout 2021 PWSA will continue to supplement our system records by working with local partner agencies and governments to identify records and schematics pertaining to PWSA infrastructure. Additionally, PWSA has begun to expand the use of Docuware and new records management policies to other critical function areas of the authority. Priority will be given to environmental compliance related materials, standard operating procedure records, and real estate related legal documents, with finance and human relations materials to follow.

Throughout 2021 and beyond Docuware will be fully integrated with PWSA's GIS and ERP systems. 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 begun enabling hyperlinks to the digitized record document file locations established in Docuware. Associated metrics are show 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 12. 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 12: Compliance Plan Supplement Requirements – Finance, Contractual, and Other Issues

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
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
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
Propose a plan or method for developing separate cost of service studies for wastewater and stormwater for the development of stormwater rates.		Submitted as part of the base rate case filed on April 13, 2021
Evaluate the potential ways to address PWSA's contract with ALCOSAN, including renegotiation of the contract.		On-going

i. Consider the timeframe for developing a separate rate for public fire hydrant service

This was completed as part of PWSA's base rate case filed in fiscal year 2020 with the rate effective in fiscal year 2021.

ii. Consider assessing the City of Pittsburgh a separate rate for public fire hydrant service

This was completed as part of PWSA's base rate case filed in fiscal year 2020 with the rate effective in fiscal year 2021

iii. 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.

iv. 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.

v. Propose a plan or method for developing separate cost of service studies for wastewater and stormwater for the development of stormwater rates

PWSA has completed separate cost of service studies for wastewater and stormwater and has proposed a stormwater rate as part of the base rate case filed on April 13, 2021.

- vi. 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 13. 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 13: 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 estimation completion date below
73.3 Annual Depreciation Reports	April 1, 2024	On Target
73.5 Service Life Study Report	June 1, 2025	On Target
73.7 Capital Investment Plan Report	2020	Still to be completed
Capital Lease Agreement	2025	On Target
Bulk Water: Sales for Resale	Within 120 days of the Final Commission Order	Submitted as part of the base rate case filed on April 13, 2021
Bulk Wastewater Conveyance Agreements	Within 120 days of the Final Commission Order	On-going

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) contract and closed on March 19, 2020. Future reporting will include the notice of selection of an ERP contractor, the contractor-projected ERP system cost, and a detailed implementation schedule. PWSA is prepared to file all required reports, and complete installation of an ERP system will occur by December 2022.

ii. 73.3 - Annual Depreciation Reports

PWSA operates on the cash basis and does not use depreciation in its ratemaking methodology. PWSA acknowledges the importance of keeping accurate fixed asset records and plans to comply with the requirements listed in Section 73.3 and file its first annual depreciation report with the Bureau of Fixed Utility Services by 2024 and partial reports until that time, detailing known and newly constructed plant additions and retirements. PWSA has procured the services of a vendor familiar with this type of work and will collaborate with the vendor to hone the current asset list to allow for full reporting by 2024.

iii. 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.

iv. 73.7 – Capital Investment Plan Report

PWSA will file the Capital Investment Plan Reports pursuant to 52 Pa. Code 73.7 and 73.8 starting in 2021 and plans to file every five years thereafter.

v. 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.

vi. Bulk Water: Sales for Resale

PWSA has filed a separate docket including all bulk water sales contracts entered into with municipalities and other public utilities, and will file all future contracts with the Commission, as required by Sections 507 and 508. As part of the base rate case filed on April 13, 2021, PWSA has proposed a retail rate that would be charged to new bulk water sales.

vii. Bulk Wastewater Conveyance Agreements

PWSA has filed with the Commission a separate docket with all bulk wastewater conveyance agreements with municipalities and other public utilities, and will file all future contracts with the Commission, as required by Sections 507 and 508. In its next rate case, PWSA will propose a retail rate or rates that will be included in the tariff and potentially charged to new bulk wastewater conveyance arrangements. PWSA will provide costs of providing these wholesale services as part of the cost of service study performed for the next rate case and seek to update rates to reflect the current cost of service.

6. Appendix A – Completed Compliance Plan Requirements

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
Operations		
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.		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	Complete
61.17 Implement a flushing program	2020	Complete. 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	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		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.		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	Contractor was hired to assist with inspecting, sizing, and installing meters.
65.11 Develop SOPs, including communications protocols, for periods of mandatory conservation.	2020	Draught Contingency Plan developed in August 2021
65.8 Add additional plumbers to address 50,000 meters that are overdue for testing/change-out.	Immediately	Additional plumbers have been hired.
Billing/Customer Service		
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).		Q2 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.		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.		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	Q4 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	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) on August 7, 2020, November 13, 2020, May 14, 2021, and September 17, 2021 for PWSA's current outreach initiatives during the pandemic. 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) to 5,026 in this quarter.
Infrastructure		
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
LTIIP – Customer Owned Lead Service Lines		Completed
LTIIP – Workforce Development		Completed
LTIIP – Construction Coordination with Other Utilities and Municipalities		Completed
LTIIP – 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	On Target, 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	On-Target. PWSA has a flushing program and is currently on target for 2021 we have flushed and inspected 2401 hydrant as of 7/13/2021.
65.18 Review the existing system to ensure ample valves.	Starts in 2018	On-Target
65.18 Increase the number of valves inspected and operated per year.	2019	PWSA has developed a valve inspection program and is tracking the valves operated in Spry Mobile, currently we have inspected 2759 valves smaller than 12" and 180 valves larger than 16".
Lead		
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	This was 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.
Finance, Contractual, and Other Issues		
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	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		> Physical security plan: 12/31/2019 > Cyber security plan: Approved > 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

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.	LTIP.	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 2021
Pipeline Materials (% of pipe segments with materials listed in GIS)	Water: 24% (16,585 out of 67,904 water mains have material populated) Sewer: 76% (35,001 out of 45,905 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) *	42.8 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: 29% (19,910 out of 67,904 water mains have date installed populated) Sewer: 15% (7,108 out of 45,905 sewer mains have a date installed populated)
Pipeline Diameter (% of pipe segments with pipeline diameter listed in GIS)	Water: 100% (67,902 out of 67,904 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: 964.4 miles; Abandoned Water Mains: 154.6 miles mapped in GIS (includes abandoned water mains layer originally exported from CAD prior to GIS conversion) Active Sewer Mains: 1,234.0 miles; Abandoned Sewer Mains: 62.0 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)	138
Leak Repair (number of leaks repaired – service line)	79
Pipeline Damages from Excavation (GIS or CMMS field denoting suspected cause of leak)	28 instances
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)	5.1 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)	18 Q3
Sanitary Flow Reduction (Volume of reportable SSOs per year)	24.81 Q3
Miles of Combined Sewer Separation (per year)	No Separation projects were completed in Q3 2021
Unaccounted for Water (% of finished water that is unaccounted for)	43.6% This metric is for the 2020 calendar year and reported on an annual basis.
Non-revenue Water (% of finished water that is non-revenue)	69.56% This metric is for the 2020 calendar year and reported on an annual basis.

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

Appendix D – Low Income Customer Billing Metrics

Billing Metrics	April 2021		July 2021		October 2021	
Billed revenue	\$60,288,527		\$72,720,321		\$72,060,843	
Receipts actually collected	\$53,506,778		\$63,747,300		\$69,465,795	
Number of accounts in arrears	26,633		29,010		22,901	
Dollars of arrears	\$18,444,902		\$18,226,775		\$15,744,830	
Number of accounts disconnected for nonpayment	0		0		248	
Number of accounts receiving a notice of disconnection for nonpayment	0		1,530		5,706	
Number of bill discount participants who entered the bill discount program with unpaid account balances	120		273		146	
Dollars of unpaid account balances for bill discount program participants at the time those participants entered the bill discount program	\$138,064.74		\$259,627.10		\$143,384.50	
Number of bill discount participants by agreed-upon poverty ranges	15210	0.00%	15219	0.00%	15210	0.00%
	15206	0.00%	15212	0.00%	15210	0.00%
	15213	0.00%	15220	0.00%	15204	0.00%
	15210	0.00%	15210	0.00%	15219	0.00%
	15217	0.00%	15226	0.00%	15212	0.00%
	15212	0.00%	15147	0.00%	15210	0.00%
	15220	0.00%	15201	0.00%	15210	0.00%
	15214	0.00%	15212	0.00%	15216	0.00%
	15219	0.00%	15212	0.00%	15211	0.00%
	15212	0.00%	15219	0.00%	15232	0.00%
	15206	0.00%	15212	0.00%	15210	0.00%
	15210	0.00%	15208	0.00%	15224	0.00%
	15210	0.00%	15206	0.00%	15210	0.00%
	15212	0.00%	15205	0.00%	15204	0.00%
	15214	0.00%	15212	0.00%	15212	0.00%
	15212	0.00%	15235	0.00%	15217	0.00%
	15207	0.00%	15207	0.00%	15201	0.00%
	15210	0.00%	15213	0.00%	15212	0.00%
	15207	0.00%	15207	0.00%	15220	0.00%
	15234	0.00%	15224	0.00%	15206	0.00%
	15206	0.00%	15210	0.00%	15206	0.00%
	15220	0.00%	15206	0.00%	15120	0.00%
			15207	0.00%	15212	0.00%

	15212	0.00%	15212	0.00%	15220	0.00%
	15220	0.00%	15212	0.00%	15219	0.00%
	15206	0.00%	15220	0.00%	15214	0.00%
	15207	0.00%	15206	0.00%	15232	0.00%
	15201	0.00%	15203	0.00%	15212	0.00%
	15219	0.00%	15214	0.00%	15212	0.00%
	15220	0.00%	15218	0.00%	15216	0.00%
	15221	0.00%	15214	0.00%	15221	0.00%
	15207	0.00%	15219	0.00%	15207	0.00%
	15220	0.00%	15206	0.00%	15206	0.00%
	15206	0.00%	15206	0.00%	15212	0.00%
	15206	0.00%	15210	0.00%	15206	0.00%
	15212	0.00%	15204	0.00%	15219	0.00%
	15214	0.00%	15206	0.00%	15205	0.00%
	15212	4.22%	15212	0.00%	15206	7.11%
	15213	4.75%	15212	0.00%	15204	8.78%
	15226	7.02%	15220	0.00%	15210	13.42%
	15208	11.41%	15210	4.00%	15212	13.98%
	15211	13.66%	15220	13.58%	15204	17.27%
	15208	14.60%	15212	16.73%	15210	17.49%
	15214	18.25%	15213	17.22%	15220	18.25%
	15219	18.80%	15212	20.67%	15207	18.63%
	15212	19.17%	15220	20.67%	15208	18.63%
	15214	20.66%	15216	21.70%	15224	19.33%
	15208	20.71%	15207	22.46%	15210	21.86%
	15213	21.97%	15207	22.51%	15204	22.14%
	15201	21.97%	15212	27.55%	15210	22.30%
	15210	23.77%	15210	27.76%	15233	23.15%
	15210	25.97%	15210	30.84%	15226	23.49%
	15212	26.09%	15210	31.70%	15266	24.89%
	15212	26.31%	15207	34.19%	15213	25.28%
	15214	27.32%	15211	34.44%	15204	26.87%
	15208	27.55%	15207	34.86%	15201	27.17%
	15214	27.96%	15212	35.52%	15204	29.49%
	15224	29.08%	15201	37.62%	15214	30.70%
	15206	29.80%	15210	38.25%	15212	30.70%
	15206	29.82%	15212	39.00%	15207	30.93%
	15213	30.27%	15211	41.42%	15206	31.69%
	15206	31.12%	15206	41.47%	15216	32.86%
	15221	31.43%	15214	41.48%	15210	33.44%
	15210	34.93%	15202	41.68%	15204	33.54%
	15227	35.51%	15206	42.48%	15214	33.96%
	15208	36.35%	15207	44.04%	15204	33.96%
	15217	36.59%	15218	44.59%	15212	34.44%
			15219	45.28%	15210	34.44%
			15212	46.42%	15210	34.44%

15214	37.28%	15201	46.58%	15210	35.32%
15213	39.19%	15214	48.45%	15210	35.32%
15206	39.34%	15206	48.78%	15204	36.23%
15206	40.05%	15211	51.18%	15201	37.13%
15204	40.90%	15210	51.24%	15213	37.27%
15216	40.91%	15206	52.22%	15214	37.27%
15227	40.92%	15210	53.94%	15209	37.27%
15208	41.32%	15233	53.99%	15226	37.89%
15210	41.38%	15212	54.04%	15207	38.48%
15233	41.75%	15212	54.16%	15211	38.76%
15214	43.18%	15205	54.34%	15212	39.28%
15214	43.72%	15209	54.34%	15214	39.84%
15210	43.99%	15208	54.34%	15209	40.16%
15211	44.27%	15233	54.64%	15220	40.75%
15201	45.18%	15207	54.78%	15214	40.98%
15212	45.85%	15201	54.78%	15214	40.98%
15224	45.85%	15201	54.86%	15205	40.98%
15219	48.09%	15206	54.97%	15224	40.98%
15213	48.46%	15209	55.11%	15234	41.09%
15212	48.52%	15208	55.45%	15212	41.33%
15211	48.74%	15212	55.80%	15210	41.33%
15211	49.17%	15214	55.90%	15203	41.93%
15208	49.17%	15219	55.90%	15207	41.93%
15206	49.18%	15219	55.90%	15204	42.62%
15216	49.31%	15212	56.37%	15207	43.33%
15206	49.73%	15208	57.24%	15212	43.72%
15206	52.70%	15210	59.18%	15221	43.72%
15208	53.52%	15212	59.45%	15210	44.02%
15219	53.72%	15214	62.89%	15211	44.52%
15206	53.93%	15227	63.40%	15204	44.81%
15221	54.15%	15207	64.99%	15214	46.58%
15214	55.10%	15201	65.57%	15205	46.58%
15212	55.10%	15204	65.57%	15208	46.99%
15212	55.44%	15224	65.57%	15224	47.22%
15217	55.50%	15212	65.65%	15206	48.05%
15206	55.57%	15212	65.99%	15214	49.67%
15212	55.74%	15212	66.77%	15207	50.31%
15214	55.79%	15217	67.17%	15204	50.60%
15203	56.20%	15201	67.27%	15210	51.20%
15214	56.39%	15201	67.28%	15219	51.34%
15212	56.94%	15209	67.51%	15210	53.74%
15208	57.40%	15210	67.92%	15203	54.12%
15226	57.83%	15210	68.54%	15209	54.34%
15206	57.85%	15210	68.68%	15208	54.34%
		15211	68.89%	15212	54.34%
		15235	71.04%	15207	54.64%

	15214	57.85%	15214	71.04%	15210	54.64%
	15214	58.25%	15217	71.74%	15214	54.64%
	15210	58.54%	15210	72.02%	15212	54.70%
	15214	58.91%	15219	72.67%	15219	55.11%
	15234	59.02%	15235	73.02%	15212	55.90%
	15213	59.02%	15221	73.04%	15227	56.21%
	15207	59.95%	15226	73.60%	15212	56.49%
	15210	60.07%	15212	74.16%	15233	56.56%
	15212	60.27%	15207	74.53%	15211	56.83%
	15212	60.39%	15217	74.53%	15208	57.38%
	15212	60.39%	15219	74.54%	15208	57.91%
	15206	62.84%	15210	75.09%	15210	58.14%
	15210	63.00%	15216	75.78%	15214	58.87%
	15211	63.50%	15219	76.50%	15207	58.98%
	15206	63.61%	15206	76.86%	15208	59.02%
	15201	64.68%	15212	77.32%	15210	60.11%
	15210	64.70%	15203	77.89%	15212	61.13%
	15213	64.97%	15212	79.19%	15212	63.11%
	15210	65.22%	15219	80.87%	15235	63.53%
	15217	65.24%	15207	81.52%	15208	64.08%
	15210	65.41%	15219	81.97%	15220	64.20%
	15210	65.57%	15205	82.66%	15208	64.29%
	15214	65.61%	15206	82.66%	15201	64.48%
	15206	65.70%	15206	83.11%	15212	64.48%
	15216	66.12%	15217	83.11%	15216	64.71%
	15219	66.64%	15212	83.85%	15219	65.22%
	15212	66.64%	15206	83.85%	15207	65.22%
	15214	67.29%	15220	84.05%	15208	65.22%
	15219	67.47%	15210	85.71%	15212	65.57%
	15211	67.47%	15209	85.72%	15211	65.57%
	15212	67.61%	15203	86.04%	15212	65.72%
	15208	68.03%	15206	86.83%	15212	65.98%
	15204	68.87%	15210	87.21%	15204	66.24%
	15217	68.87%	15226	87.43%	15226	66.71%
	15206	69.15%	15209	87.58%	15227	66.75%
	15207	69.21%	15217	88.45%	15204	67.17%
	15214	69.88%	15219	88.86%	15214	68.75%
	15227	69.90%	15217	89.16%	15207	68.81%
	15211	70.44%	15206	89.45%	15219	68.89%
	15206	70.55%	15210	89.73%	15214	68.89%
	15208	70.64%	15212	90.03%	15210	69.78%
	15208	70.64%	15211	90.57%	15204	69.88%
	15214	71.04%	15226	90.57%	15207	70.95%
	15212	71.15%	15217	90.57%	15212	71.04%
			15204	90.57%	15221	71.04%
			15212	90.57%	15219	71.74%

	15205	71.40%	15204	91.07%	15212	72.45%
	15219	71.58%	15217	91.30%	15210	72.45%
	15204	71.76%	15145	92.24%	15208	72.58%
	15206	72.13%	15212	92.78%	15210	72.67%
	15226	72.46%	15214	93.17%	15210	72.85%
	15224	72.69%	15212	93.17%	15216	72.86%
	15212	72.69%	15226	93.20%	15216	72.95%
	15214	72.87%	15217	93.91%	15206	73.42%
	15212	72.97%	15219	94.05%	15212	73.77%
	15212	72.97%	15201	94.10%	15221	73.98%
	15206	72.97%	15224	94.24%	15208	73.98%
	15212	72.97%	15208	94.82%	15214	74.35%
	15210	72.97%	15207	95.63%	15106	74.53%
	15219	73.07%	15210	96.17%	15214	74.53%
	15219	73.25%	15212	96.44%	15206	74.53%
	15212	73.28%	15214	96.65%	15210	74.53%
	15206	73.61%	15201	97.54%	15204	74.53%
	15201	73.90%	15206	97.64%	15226	74.74%
	15214	73.90%	15214	97.73%	15224	74.81%
	15210	73.90%	15224	98.11%	15207	74.99%
	15201	74.00%	15211	98.40%	15213	75.09%
	15224	74.00%	15035	98.66%	15210	75.24%
	15209	74.00%	15219	99.62%	15212	75.78%
	15212	74.00%	15204	99.71%	15216	75.78%
	15211	74.22%	15219	101.46%	15204	75.78%
	15206	74.37%	15214	103.17%	15212	76.40%
	15209	74.46%	15208	103.32%	15204	77.33%
	15224	74.56%	15204	103.33%	15217	77.92%
	15213	74.56%	15219	104.16%	15212	78.54%
	15219	74.56%	15210	104.44%	15212	78.73%
	15206	74.56%	15224	105.03%	15207	79.19%
	15217	74.56%	15214	107.09%	15210	79.70%
	15219	74.56%	15214	107.68%	15204	80.61%
	15212	74.85%	15204	108.18%	15207	81.19%
	15210	74.99%	15210	108.25%	15208	81.34%
	15208	75.21%	15208	108.45%	15209	81.51%
	15210	75.34%	15210	108.45%	15204	81.51%
	15210	75.49%	15217	108.68%	15208	81.51%
	15207	75.49%	15226	109.29%	15227	81.51%
	15210	75.68%	15208	109.29%	15207	81.97%
	15224	75.86%	15212	110.22%	15204	81.97%
	15226	75.86%	15212	111.30%	15210	82.66%
	15206	75.86%	15211	111.80%	15227	82.66%
	15210	75.96%	15204	111.80%	15226	82.66%
			15210	111.80%	15203	82.66%
			15226	111.80%	15207	83.20%

	15224	76.06%	15211	115.34%	15212	83.39%
	15219	76.06%	15212	115.98%	15224	83.48%
	15212	76.06%	15217	116.01%	15206	83.85%
	15206	76.34%	15212	117.11%	15212	83.85%
	15221	76.45%	15214	117.11%	15207	83.85%
	15208	76.58%	15212	118.04%	15206	83.85%
	15217	76.61%	15216	118.05%	15212	83.97%
	15207	76.89%	15210	118.32%	15210	84.32%
	18702	76.99%	15206	118.73%	15214	85.16%
	15205	77.13%	15210	119.07%	15210	85.42%
	15201	77.31%	15206	119.23%	15206	85.56%
	15212	77.35%	15206	119.44%	15214	85.56%
	15217	77.35%	15204	119.64%	15206	85.97%
	15224	77.54%	15224	119.85%	15219	86.04%
	15201	77.54%	15204	119.91%	15214	86.27%
	15217	77.63%	15206	120.22%	15214	86.27%
	15212	77.91%	15208	120.22%	15220	86.74%
	15206	77.92%	15210	121.12%	15207	87.10%
	15208	77.92%	15220	121.52%	15208	87.43%
	15206	77.92%	15217	122.05%	15213	88.04%
	15212	77.92%	15216	122.47%	15206	88.52%
	15207	77.92%	15210	122.52%	15212	89.07%
	15213	77.92%	15210	123.44%	15221	89.44%
	15212	78.00%	15210	123.66%	15204	89.55%
	15224	78.29%	15211	124.10%	15210	89.55%
	15206	78.29%	15214	124.96%	15212	89.73%
	15207	78.29%	15212	125.90%	15216	90.09%
	15201	78.29%	15212	126.23%	15221	90.37%
	15106	78.49%	15219	126.78%	15207	90.57%
	15210	78.66%	15221	126.80%	15206	90.57%
	15212	78.69%	15204	127.12%	15212	90.57%
	15212	78.95%	15220	127.31%	15213	90.93%
	15201	79.23%	15208	127.55%	15227	92.61%
	15220	79.27%	15212	127.83%	15214	92.78%
	15219	79.50%	15235	128.20%	15210	92.78%
	15219	79.50%	15233	128.57%	15212	92.78%
	15207	79.84%	15206	128.82%	15224	92.90%
	15207	80.11%	15212	129.60%	15212	92.90%
	15211	80.30%	15204	129.82%	15208	93.17%
	15212	80.72%	15204	130.06%	15201	93.17%
	15224	81.18%	15136	130.06%	15219	93.17%
	15211	82.11%	15206	130.22%	15208	93.17%
	15221	82.29%	15219	130.42%	15210	93.17%
	15212	82.43%	15201	130.44%	15206	93.17%
			15206	130.44%	15210	93.62%
			15212	131.06%	15217	93.63%

	15208	82.58%	15206	131.15%	15208	94.47%
	15212	82.64%	15214	131.15%	15208	94.75%
	15210	82.67%	15212	132.68%	15214	94.82%
	15219	82.85%	15206	132.95%	15234	95.09%
	15220	83.06%	15207	132.95%	15212	95.09%
	15207	83.22%	15212	133.98%	15220	95.13%
	15212	83.65%	15214	135.64%	15210	95.50%
	15204	83.69%	15212	135.75%	15205	95.78%
	15206	84.43%	15226	135.85%	15212	96.17%
	15226	84.81%	15212	136.61%	15214	96.44%
	15210	85.19%	15214	137.32%	15210	96.71%
	15212	85.46%	15206	137.40%	15206	97.27%
	15209	85.93%	15212	137.77%	15212	97.43%
	15216	85.95%	15226	139.75%	15212	99.62%
	15210	86.17%	15224	139.75%	15210	100.38%
	15206	86.45%	15201	140.50%	15212	100.52%
	15206	86.95%	15210	140.68%	15219	101.18%
	15217	87.43%	15206	141.43%	15206	102.08%
	15203	87.43%	15210	142.32%	15206	102.48%
	15220	87.43%	15214	142.37%	15203	102.48%
	15212	87.43%	15219	144.10%	15204	102.48%
	15221	87.43%	15213	144.41%	15206	102.95%
	15205	87.60%	15212	144.69%	15206	103.33%
	15204	87.67%	15206	144.91%	15210	103.33%
	15211	87.79%	15219	144.92%	15212	103.33%
	15217	88.16%	15210	145.62%	15212	106.05%
	15210	88.16%	15224	145.79%	15210	106.68%
	15210	89.28%	15212	146.45%	15212	106.77%
	15201	89.53%	15213	148.11%	15214	107.61%
	15224	89.53%	15207	149.07%	15212	108.45%
	15212	89.74%	15219	149.07%	15205	108.68%
	15211	89.86%			15203	109.05%
	15211	89.88%			15214	109.12%
	15204	90.03%			15212	109.29%
	15204	90.12%			15201	109.29%
	15217	90.31%			15218	109.29%
	15209	90.68%			15210	110.10%
	15210	90.91%			15207	110.22%
	15212	91.05%			15208	110.22%
	15208	91.33%			15219	110.22%
	15212	91.43%			15210	110.22%
	15203	91.52%			15206	110.77%
	15207	91.53%			15120	111.30%
	15219	91.80%			15219	111.80%
					15207	111.80%
					15210	111.80%

	15217	92.54%		15212	111.80%
	15216	92.54%		15206	111.80%
	15221	92.91%		15219	111.89%
	15201	93.11%		15221	112.45%
	15212	93.20%		15226	113.01%
	15214	93.60%		15204	113.21%
	15207	93.66%		15210	113.21%
	15201	93.73%		15211	113.39%
	15221	95.71%		15210	113.74%
	15212	95.90%		15203	114.04%
	15214	96.09%		15206	114.11%
	15212	96.27%		15220	114.42%
	15208	96.37%		15206	114.50%
	15209	96.55%		15226	114.75%
	15204	96.63%		15207	115.34%
	15206	96.64%		15233	115.45%
	15210	96.64%		15212	115.62%
	15212	97.59%		15207	115.87%
	15219	97.67%		15210	115.99%
	15219	97.86%		15208	116.46%
	15201	97.86%		15205	117.74%
	15203	98.04%		15226	117.92%
	15217	98.22%		15226	118.14%
	15212	98.32%		15208	120.75%
	15224	98.35%		15206	121.12%
	15203	98.60%		15207	121.12%
	15210	99.87%		15226	121.12%
	15212	100.00%		15212	123.71%
	15212	100.00%		15212	124.00%
	15201	100.21%		15208	124.00%
	15219	100.47%		15212	124.00%
	15201	100.65%		15212	124.00%
	15213	100.69%		15208	124.00%
	15224	100.84%		15210	124.00%
	15211	100.88%		15205	124.94%
	15208	101.31%		15216	125.14%
	15217	101.40%		15211	126.41%
	15212	101.67%		15208	129.37%
	15209	101.77%		15206	129.51%
	15220	101.91%		15212	130.44%
	15206	102.00%		15212	130.88%
	15220	102.05%		15206	130.88%
	15211	102.14%		15224	131.01%
	15221	102.24%		15205	131.15%
				15216	131.15%
				15212	131.42%

	15217	102.24%		15207	131.55%
	15214	102.89%		15212	131.93%
	15207	102.89%		15206	132.26%
	15208	102.89%		15210	132.86%
	15212	103.08%		15210	133.23%
	15210	103.31%		15210	133.98%
	15208	104.41%		15212	134.16%
	15203	104.48%		15210	135.05%
	15212	104.75%		15211	135.31%
	15211	105.03%		15203	135.37%
	15201	105.10%		15212	135.75%
	15212	105.28%		15217	135.85%
	15210	105.59%		15214	135.85%
	15204	105.85%		15203	135.85%
	15208	106.06%		15220	136.24%
	15210	106.43%		15227	136.61%
	15207	106.67%		15226	136.61%
	15210	106.80%		15206	136.61%
	15206	107.36%		15214	137.22%
	15224	107.37%		15201	137.77%
	15212	107.39%		15221	137.77%
	15206	107.46%		15212	137.77%
	15208	107.64%		15201	139.15%
	15217	107.92%		15212	139.56%
	15211	107.99%		15212	139.75%
	15207	108.01%		15212	139.75%
	15201	108.59%		15208	141.98%
	15214	108.95%		15206	142.53%
	15212	109.09%		15204	142.88%
	15211	109.29%		15206	144.66%
	15206	109.50%		15210	144.91%
	15220	109.78%		15210	145.34%
	15220	110.07%		15211	145.34%
	15213	110.19%		15227	145.68%
	15210	110.19%		15212	145.90%
	15207	110.19%		15206	146.91%
	15216	110.19%		15212	146.91%
	15212	110.50%		15204	147.54%
	15220	110.95%		15210	147.87%
	15207	111.16%		15210	148.52%
	15207	111.28%		15219	149.07%
	15206	111.37%		15212	149.07%
	15206	111.78%		15224	149.07%
	15201	111.84%		15205	149.07%
				15212	149.43%
				15210	149.73%

	15212	111.84%		15204	150.84%
	15212	111.84%			
	15206	112.13%			
	15207	112.21%			
	15207	112.49%			
	15207	112.60%			
	15219	112.60%			
	15211	112.63%			
	15201	113.58%			
	15203	113.75%			
	15214	113.79%			
	15213	114.73%			
	15217	114.78%			
	15212	114.91%			
	15203	114.91%			
	15220	115.00%			
	15212	115.37%			
	15212	115.46%			
	15212	115.66%			
	15212	115.70%			
	15204	115.75%			
	15217	115.85%			
	15207	115.92%			
	15201	116.12%			
	15219	116.87%			
	15203	116.96%			
	15212	117.08%			
	15204	117.61%			
	15203	117.89%			
	15214	118.17%			
	15235	118.64%			
	15201	119.38%			
	15212	120.04%			
	15210	120.13%			
	15227	121.01%			
	15219	121.16%			
	15220	121.28%			
	15212	122.96%			
	15207	123.21%			
	15214	123.48%			
	15233	123.83%			
	15212	123.97%			
	15211	124.12%			
	15214	124.58%			

	15206	124.65%		
	15201	124.88%		
	15234	125.16%		
	15212	125.16%		
	15201	125.16%		
	15214	125.26%		
	15212	125.34%		
	15210	125.54%		
	15207	126.00%		
	15203	126.24%		
	15212	126.40%		
	15201	126.51%		
	15211	126.81%		
	15219	126.93%		
	15210	128.12%		
	15210	129.40%		
	15214	129.73%		
	15203	130.38%		
	15214	130.48%		
	15207	130.66%		
	15212	130.85%		
	15218	131.31%		
	15204	131.41%		
	15212	132.11%		
	15210	133.55%		
	15235	133.74%		
	15213	134.48%		
	15206	134.48%		
	15206	134.99%		
	15212	135.97%		
	15226	136.35%		
	15211	137.65%		
	15221	137.84%		
	15212	139.67%		
	15204	139.79%		
	15224	139.79%		
	15219	139.79%		
	15206	139.79%		
	15057	140.07%		
	15204	140.34%		
	15208	140.82%		
	15211	141.39%		
	15204	142.05%		
	15204	142.26%		

	15212 142.66%		
	15213 143.06%		
	15212 143.90%		
	15212 144.08%		
	15206 144.63%		
	15214 144.63%		
	15204 144.64%		
	15217 145.03%		
	15214 145.19%		
	15212 145.39%		
	15210 146.01%		
	15212 146.07%		
	15206 146.83%		
	15206 147.38%		
	15206 148.48%		
	15214 148.97%		
	15214 149.11%		
	15212 149.13%		
	15226 149.67%		
	15201 150.51%		
Average usage	3,534 gallons	3,334 gallons	3,490 gallons
Average bill including ALCOSAN charges	\$99.19	\$115.34	\$124.67
Number of PWSA customers receiving a PWSA hardship grant	84	92	94

Appendix E – Call Center Metrics and Customer Service Monthly Reports

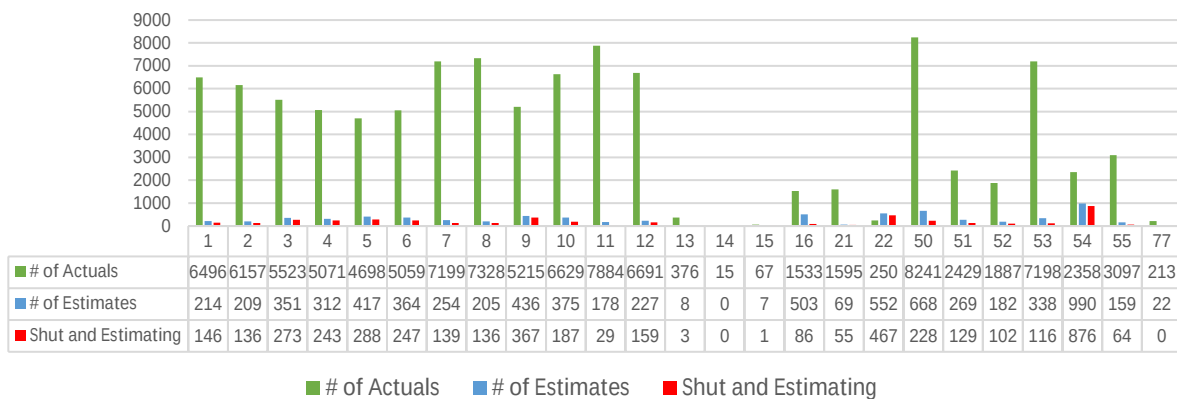
Metric	July 2021	August 2021	September 2021
Abandoned Calls (% of total calls)	3.5%	1.2%	1.1%
Automatic Call Distributor (ACD) Handling Time (minutes)	4:47	4:56	5:25
Average Speed of Answer (minutes)	0:32	0:27	0:20
Customer Service Representative Staffing (FTE – Full Time Equivalents)	16 FTE's 1 PTE	17 FTE's 3 PTE's	16 FTE's 3 PTE's
Customer Satisfaction (customer survey)	99.9%	99.9%	99.9%
Service Level %	93.5%	95.0%	96.7%

CUSTOMER SERVICE MONTHLY REPORT

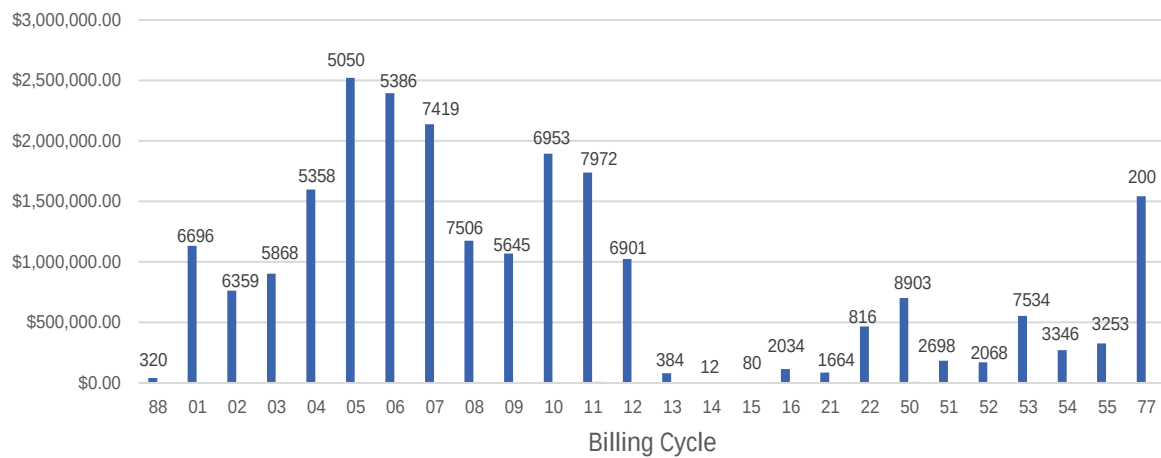
AMI and BILLING – JULY 2021

The Non-Access Campaign continued to address the 1,397 aged actual meter readings and 2,484 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 759 meters in July 2021. Additionally, 1,374 letters were issued, 288 properties were posted, and 56 accounts were shut for non-access. Billing received 450 final bill requests and processed them within 7 days. Billing totals for the month of July 2021 were 110,425 bills produced in the amount of \$22,908,015.04.

Billed Actual vs. Estimated Readings July 2021



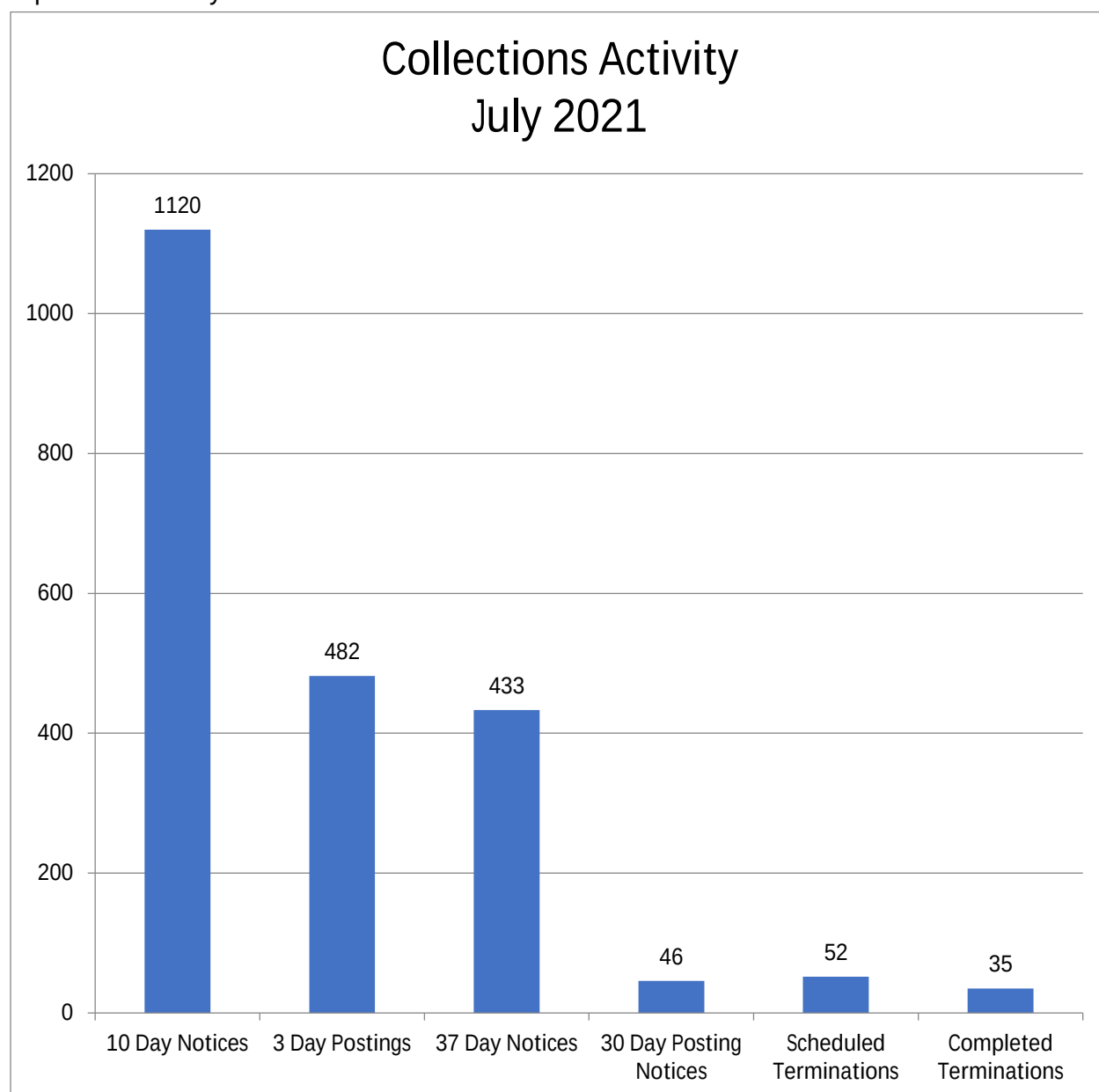
Billed Amounts in July 2021



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – JULY 2021

In July 2021, the total Collections were \$19,475,374, which was \$2,243,216 less than what was billed in June 2021. Out of a total of 2,124 customer inquiries to info@pgh2o.com, Collections personnel responded to 2,120, all within 48 hours. Payment Plans for the month of July 2021 totaled 3,477, and there were 4,707 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.



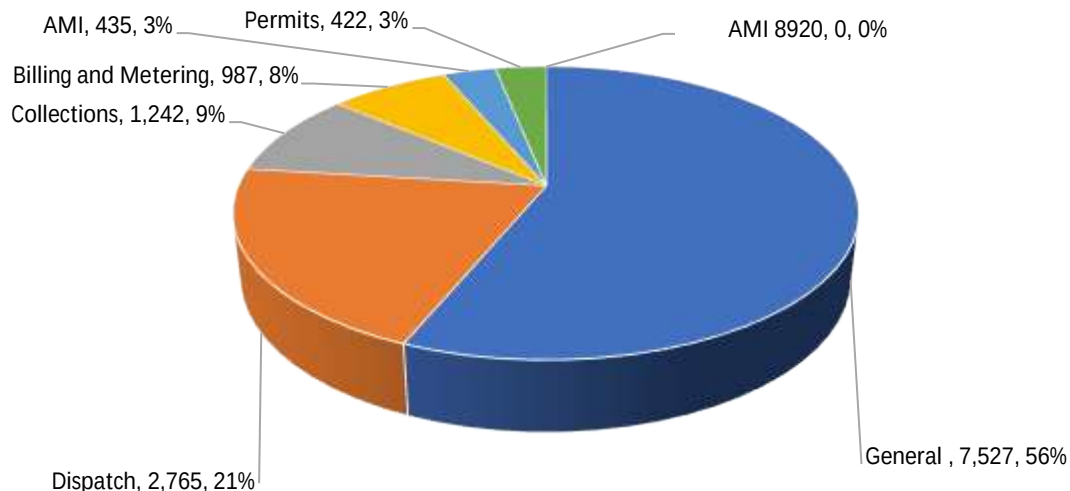
CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – JULY 2021

There were 21 business days in the month of July 2021. The Contact Center's attendance rate remained the same with 16 full time employees and 1 part time employee. Of the 13,378 calls handled in the month of July 2021, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. The Contact Center yielded an abandonment rate of 3.5% with an average speed of answer of 32 seconds. The abandonment rate was slightly over target for this month due to a water main break. In the morning of July 9, 2021, a 16" water main broke on Grace Street in Mount Washington, causing either low pressure or no water for approximately 5,600 PWSA customers. This widespread outage resulted in 562 calls being presented to, at first, one and then later three Dispatchers over four hours, who handled 208 of those calls.

Queue Group Performance by Queue								
1 - All Queues								
7/1/2021 - 7/31/2021 - 00:00 - 24:00								
Created on 8/2/2021 12:35:57 PM by Tishlalones								
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	7588	7527	00:00:24	00:05:35	0.8%	95.7%	99.2%
P004	DISPATCH	3158	2765	00:00:59	00:01:53	12.4%	87.5%	87.6%
P002	COLLECTIONS	1249	1242	00:00:34	00:07:24	0.6%	92.4%	99.4%
P003	BILLING AND METERING	999	987	00:00:24	00:04:45	1.2%	94.8%	98.8%
P005	AMI	440	435	00:00:33	00:04:25	1.1%	93.6%	98.9%
P008	PERMITS	444	422	00:00:12	00:02:16	0.7%	100.0%	95.0%
P006	AMI 8920	0	0	00:00:00	00:00:00	0.0%	100.0%	0.0%
Totals		13878	13378	00:00:32	00:04:47	3.5%	93.5%	96.4%

Customers Assisted Via Telephone-13,378

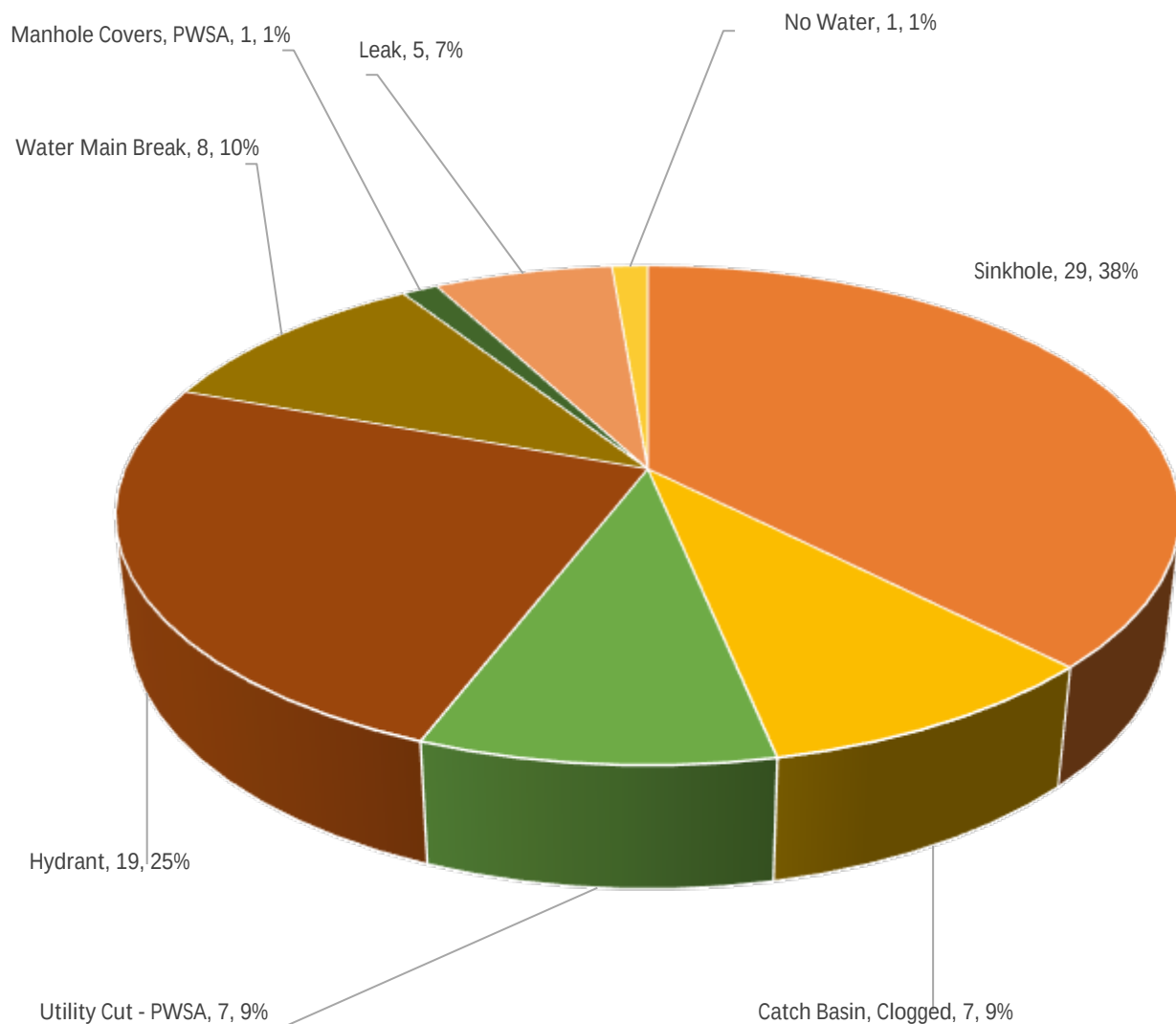


CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – JULY 2021

Dispatch responded to 2,765 calls for emergency service in July 2021. In this month, the Dispatchers issued 96 Interruptions of Service and facilitated 139 dig requests to Pennsylvania One Call.

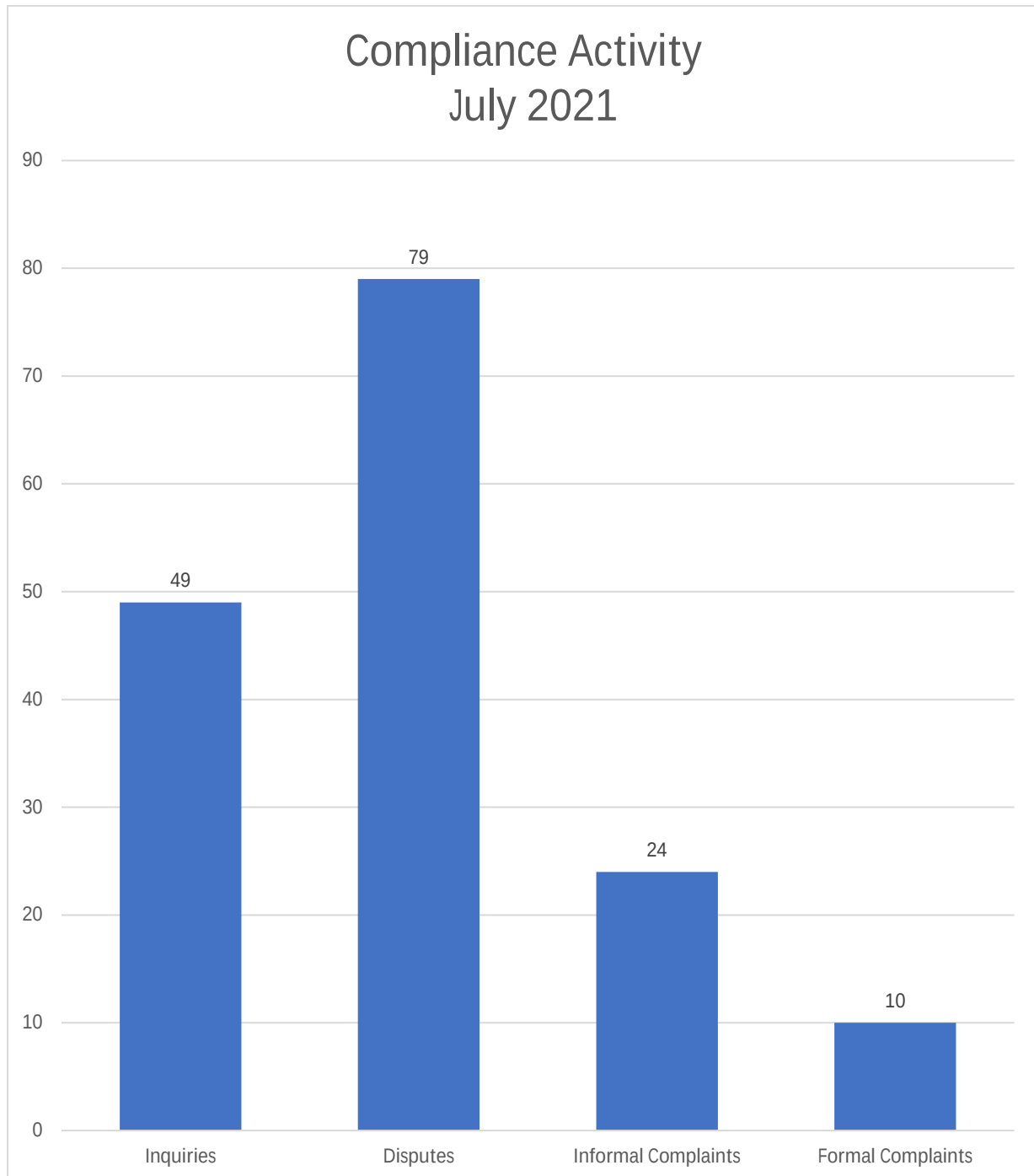
311 Mayor's Service Center Complaints Handled July 2021



CUSTOMER SERVICE MONTHLY REPORT

PUC COMPLIANCE – JULY 2021

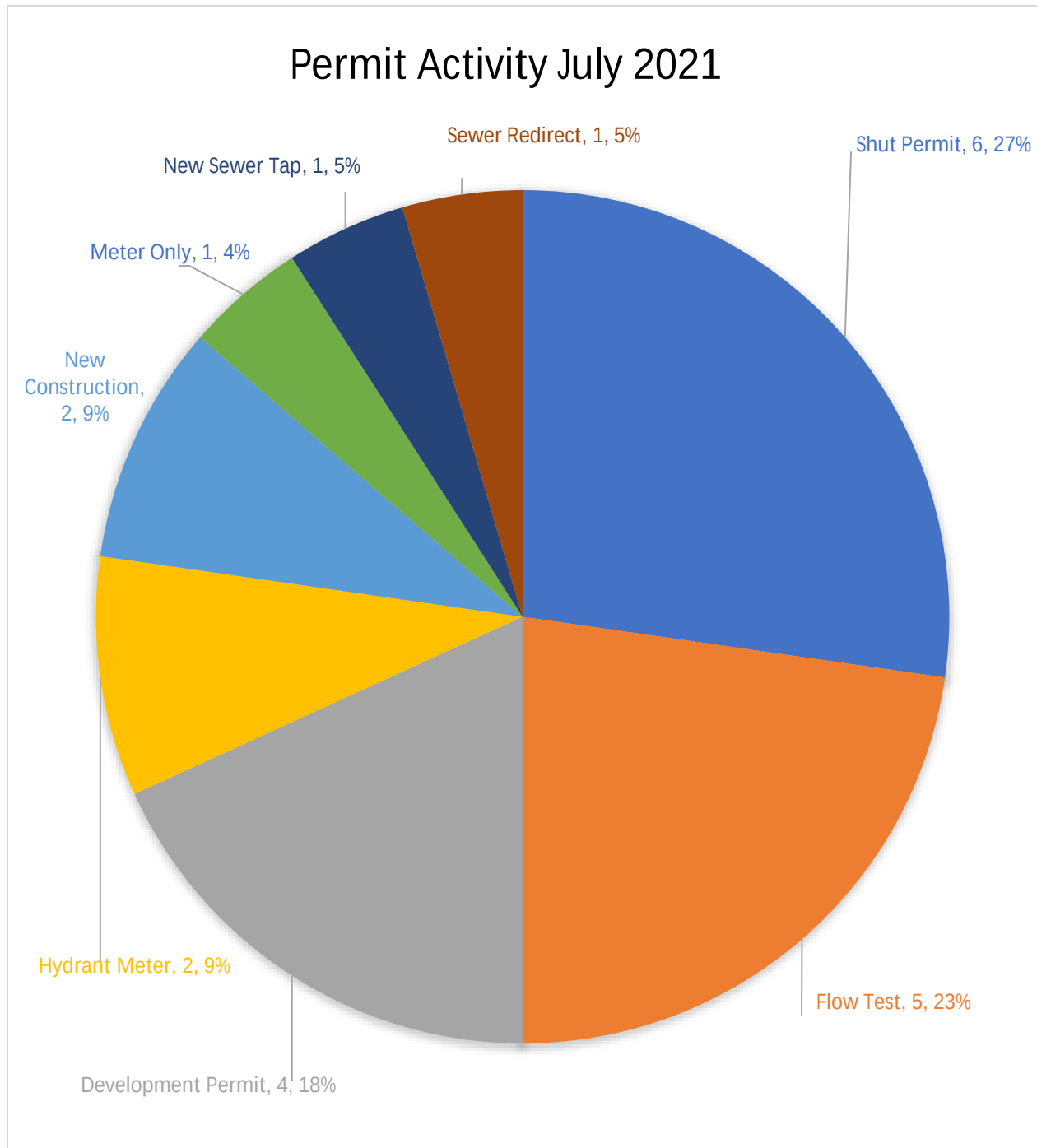
The PUC Compliance team worked to resolve 49 Inquiries, 79 Disputes, 24 Informal Complaints, and 10 Formal Complaints in the month of July 2021.



CUSTOMER SERVICE MONTHLY REPORT

PERMITS – JULY 2021

In July 2021, Permits issued 22 permits, as illustrated below, and processed 876 dye test certification requests.

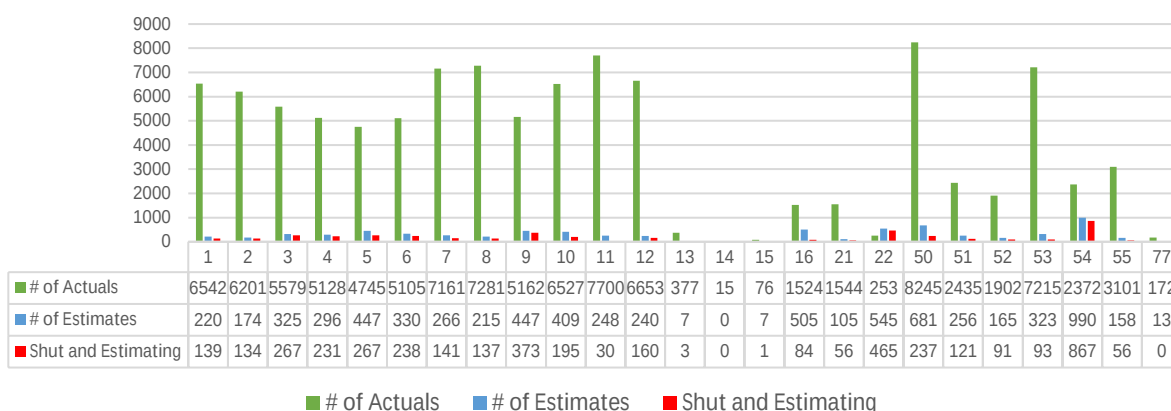


CUSTOMER SERVICE MONTHLY REPORT

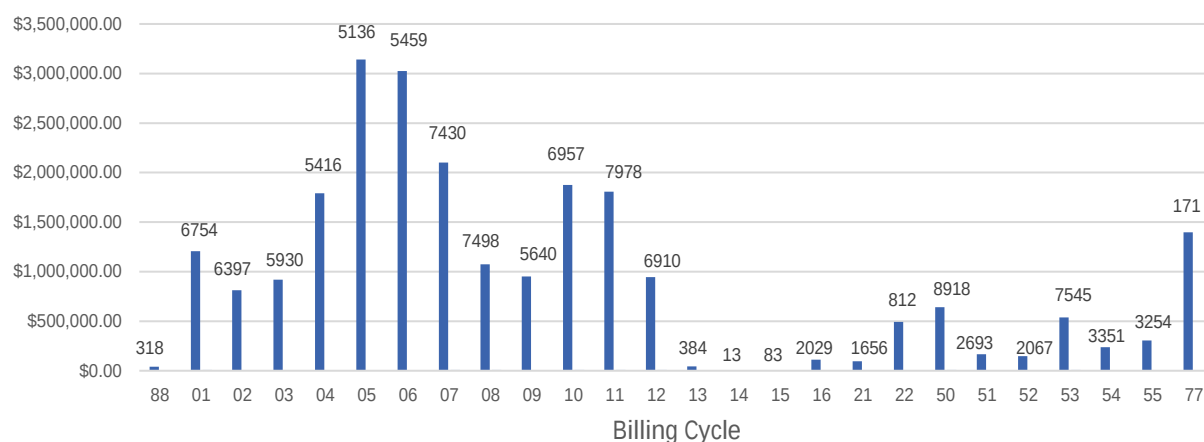
AMI and BILLING – AUGUST 2021

The Non-Access Campaign continued to address the 1,802 aged actual meter readings and 2,456 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 736 meters in August 2021. Additionally, 1,130 letters were issued, 414 properties were posted, and 130 accounts were shut for non-access. Billing received 438 final bill requests and processed them within 7 days. Billing totals for the month of August 2021 were 110,799 bills produced in the amount of \$23,872,874.19.

Billed Actual vs. Estimated Readings August 2021



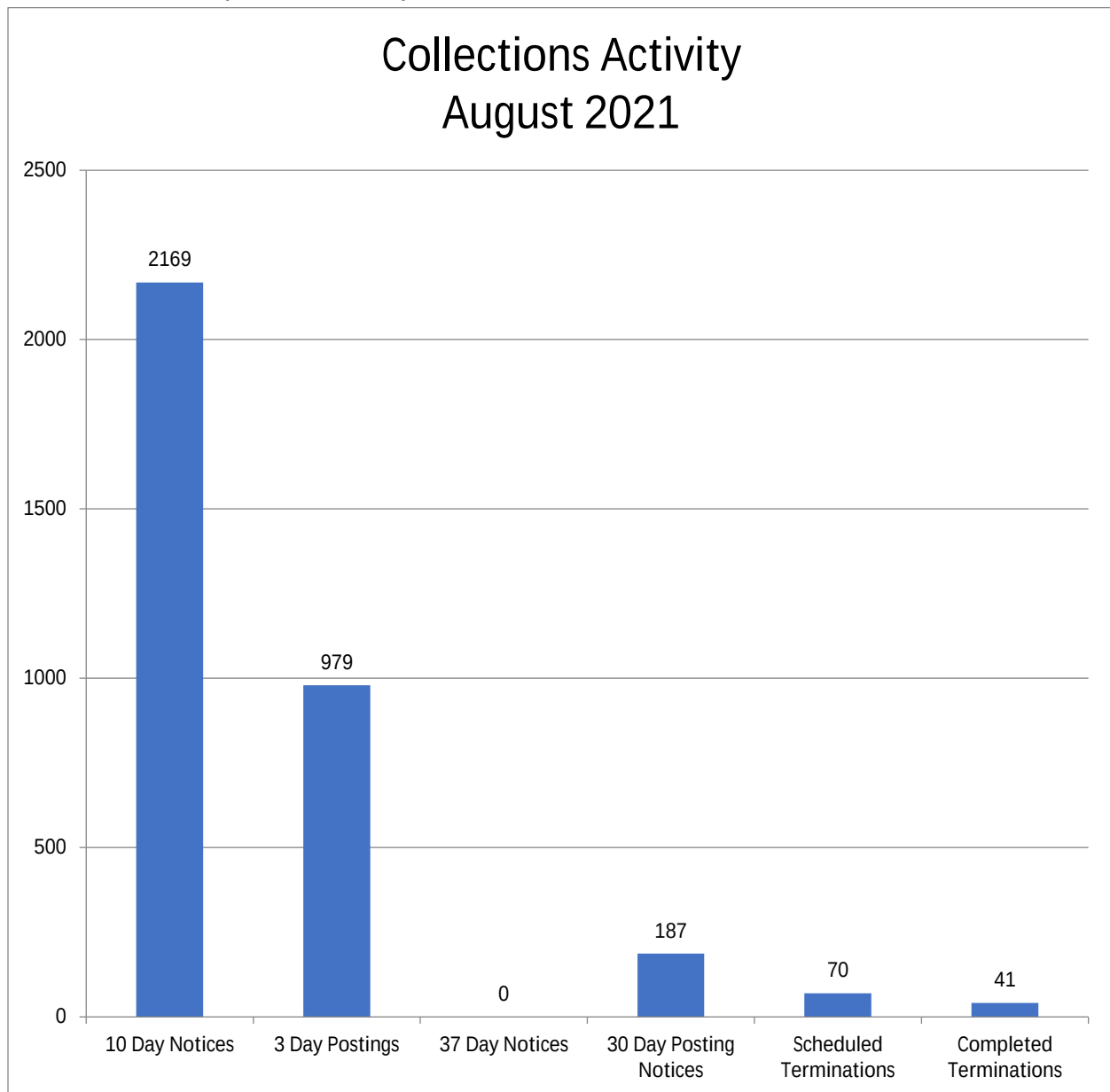
Billed Amounts In August 2021



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – AUGUST 2021

In August 2021, the total Collections were \$25,644,591, which was \$2,736,575 more than what was billed in July 2021. Out of a total of 2,378 customer inquiries to info@pgh2o.com, Collections personnel responded to 2,376, all within 48 hours. Payment Plans for the month of August 2021 totaled 3,945, and there were 4,838 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.



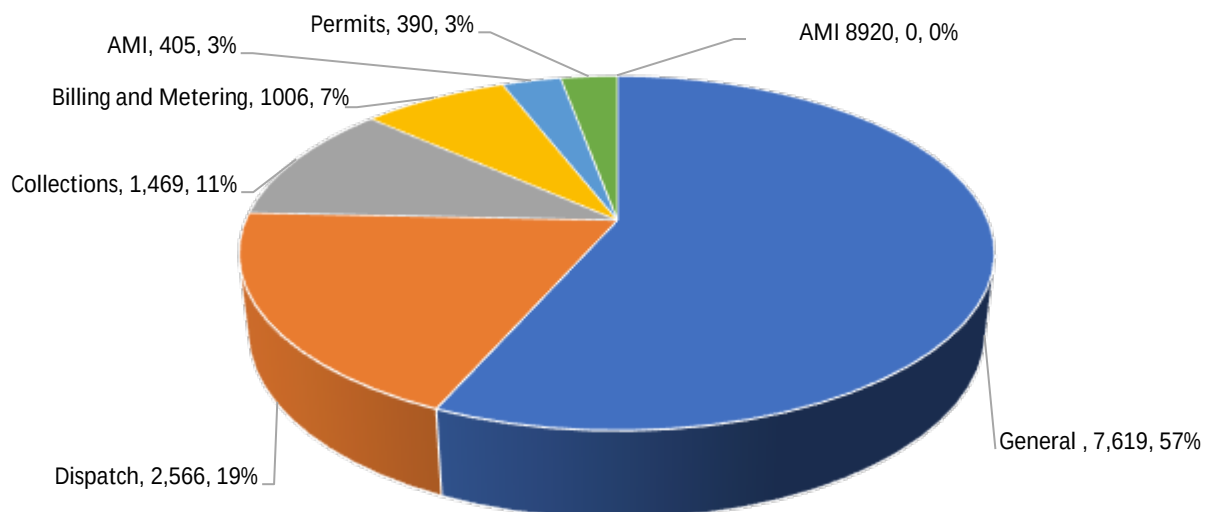
CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – AUGUST 2021

There were 22 business days in the month of August 2021. The Contact Center's attendance rate changed to 17 full time employees and 3 part time employees; 1 full time and 2 part time employees came on board as of August 2, 2021. In the next six weeks, these new employees will complete new hire training with our Customer Service Training Coordinator. Of the 13,455 calls handled in the month of August 2021, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. The Contact Center yielded an abandonment rate of 1.2% with an average speed of answer of 27 seconds.

Queue Group Performance by Queue								
1 - All Queues								
8/1/2021 - 8/31/2021 - 00:00 - 24:00								
Created on 9/1/2021 7:00:25 AM by TishiaJones								
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	7694	7619	00:00:27	00:05:41	1.0%	94.8%	99.0%
P004	Dispatch	2605	2566	00:00:10	00:01:47	1.5%	99.3%	98.5%
P002	Collections	1496	1469	00:01:03	00:07:21	1.8%	87.8%	98.2%
P003	Billing and Metering	1014	1006	00:00:25	00:04:45	0.8%	94.1%	99.2%
P005	AMI	406	405	00:00:23	00:04:50	0.2%	96.3%	99.8%
P008	Permits	423	390	00:00:15	00:02:34	3.1%	100.0%	92.2%
P006	AMI 8920	0	0	00:00:00	00:00:00	0.0%	100.0%	0.0%
Totals		13638	13455	00:00:27	00:04:56	1.2%	95.0%	98.7%

Customers Assisted Via Telephone-13,455

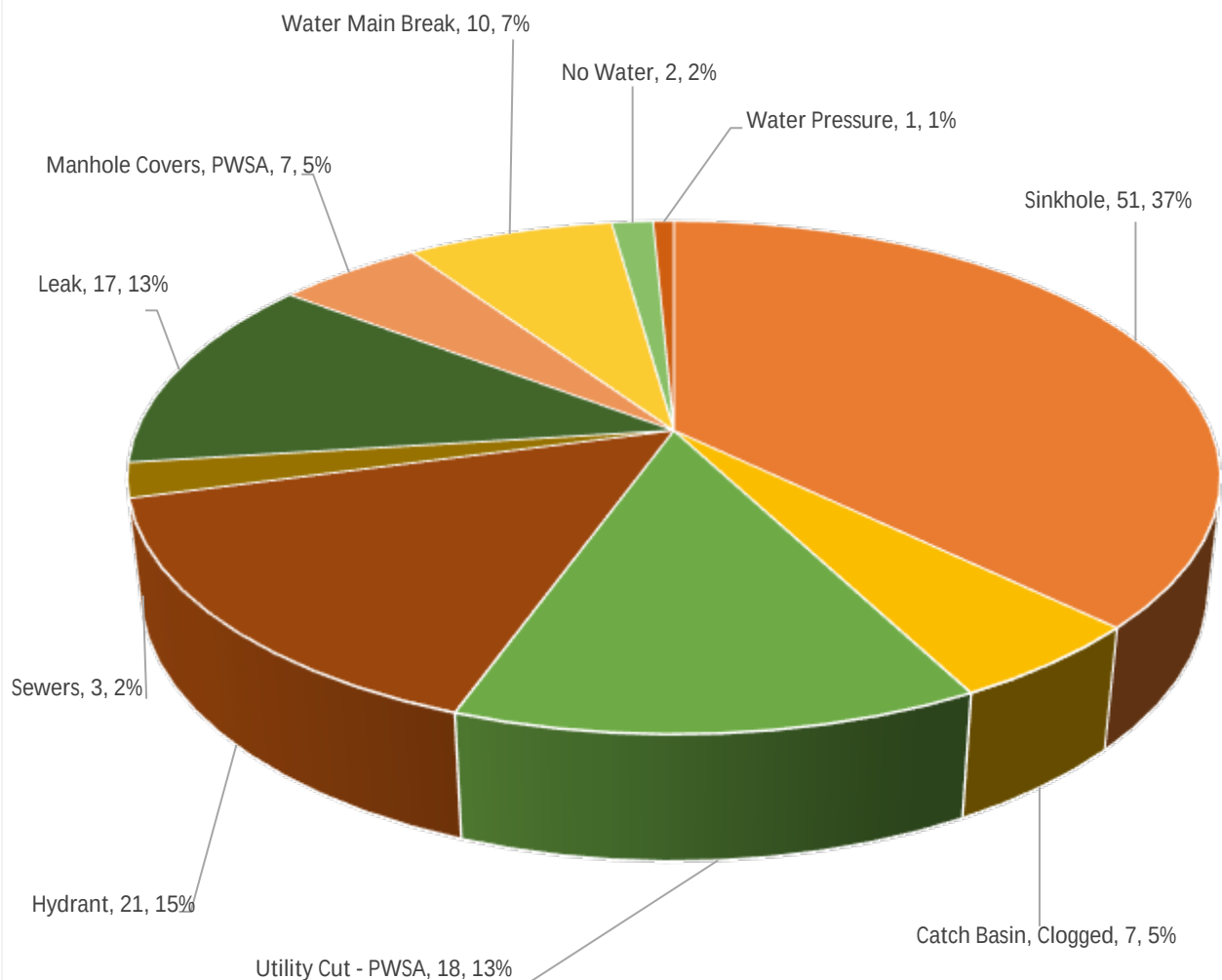


CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – AUGUST 2021

Dispatch responded to 2,566 calls for emergency service in August 2021. In this month, the Dispatchers issued 116 Interruptions of Service and facilitated 125 dig requests to Pennsylvania One Call.

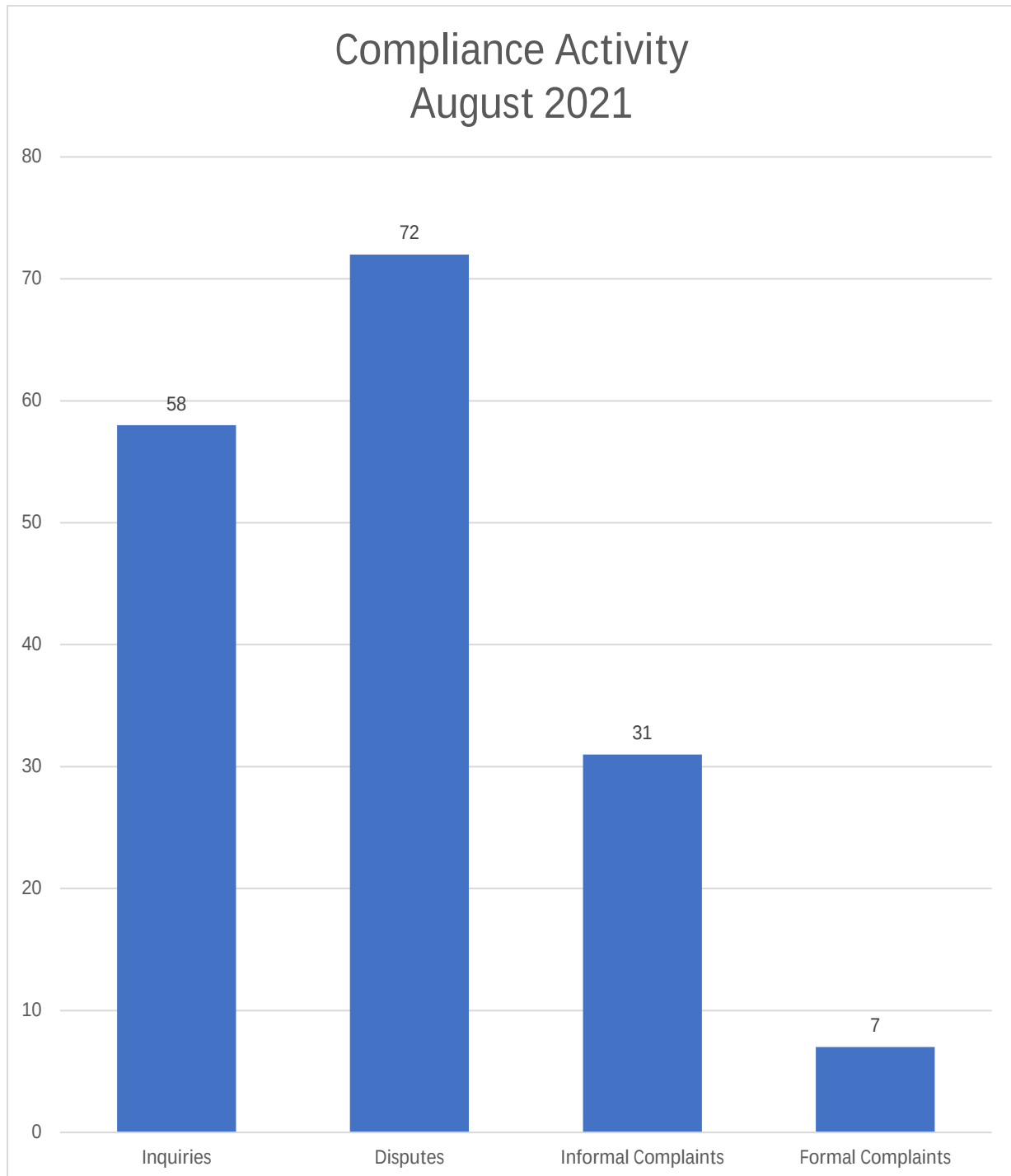
311 Mayor's Service Center Complaints Handled August 2021



CUSTOMER SERVICE MONTHLY REPORT

PUC COMPLIANCE – AUGUST 2021

The PUC Compliance team worked to resolve 58 Inquiries, 72 Disputes, 31 Informal Complaints, and 7 Formal Complaints in the month of August 2021.

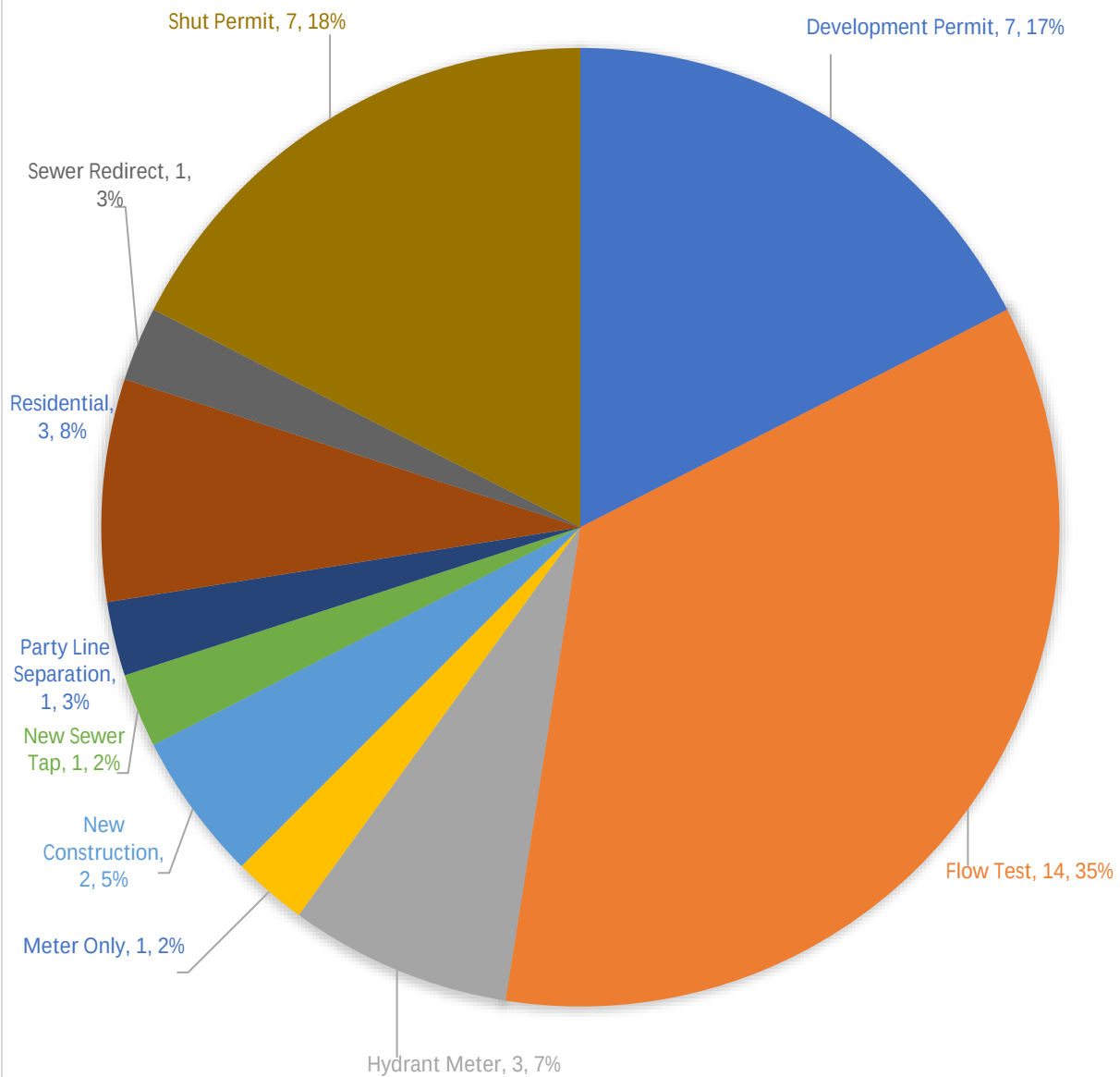


CUSTOMER SERVICE MONTHLY REPORT

PERMITS – AUGUST 2021

In August 2021, Permits issued 40 permits, as illustrated below, and processed 838 dye test certification requests.

Permit Activity August 2021

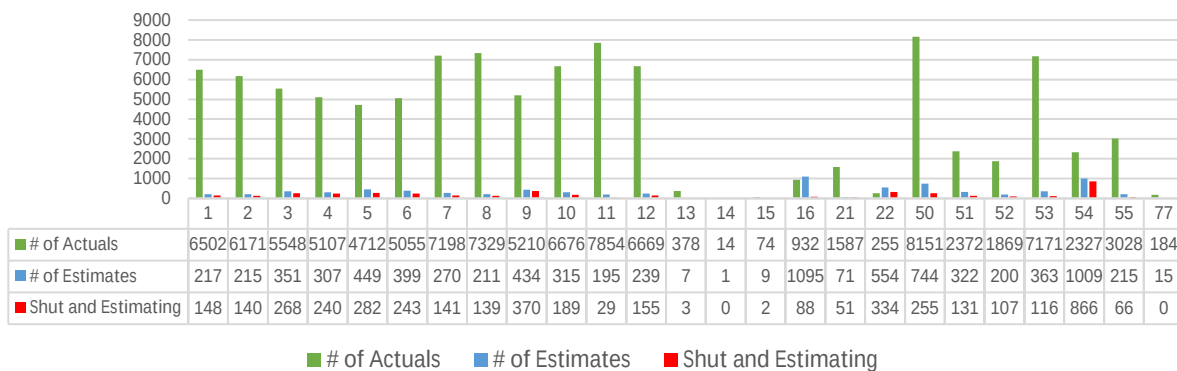


CUSTOMER SERVICE MONTHLY REPORT

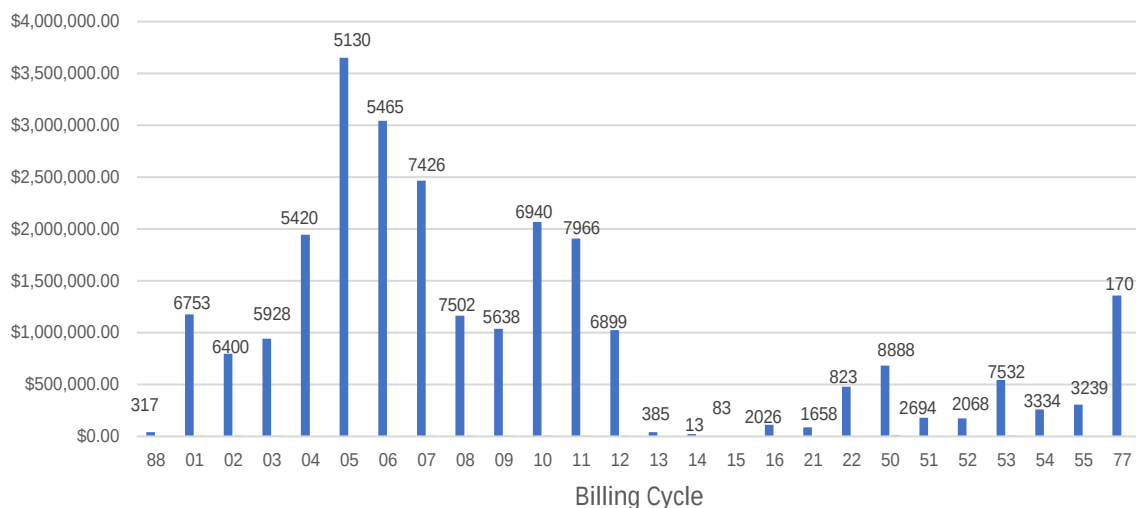
AMI and BILLING – SEPTEMBER 2021

The Non-Access Campaign continues to address the 1,455 aged actual meter readings and 2,455 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 553 meters in September 2021. Additionally, 1,303 letters were issued, 657 properties were posted, and 240 accounts were shut for non-access. Billing received 674 final bill requests and processed them within 7-10 days. Billing totals for the month of September 2021 were 110,697 bills produced in the amount of \$25,512,450.36.

Billed Actual vs. Estimated Readings September 2021



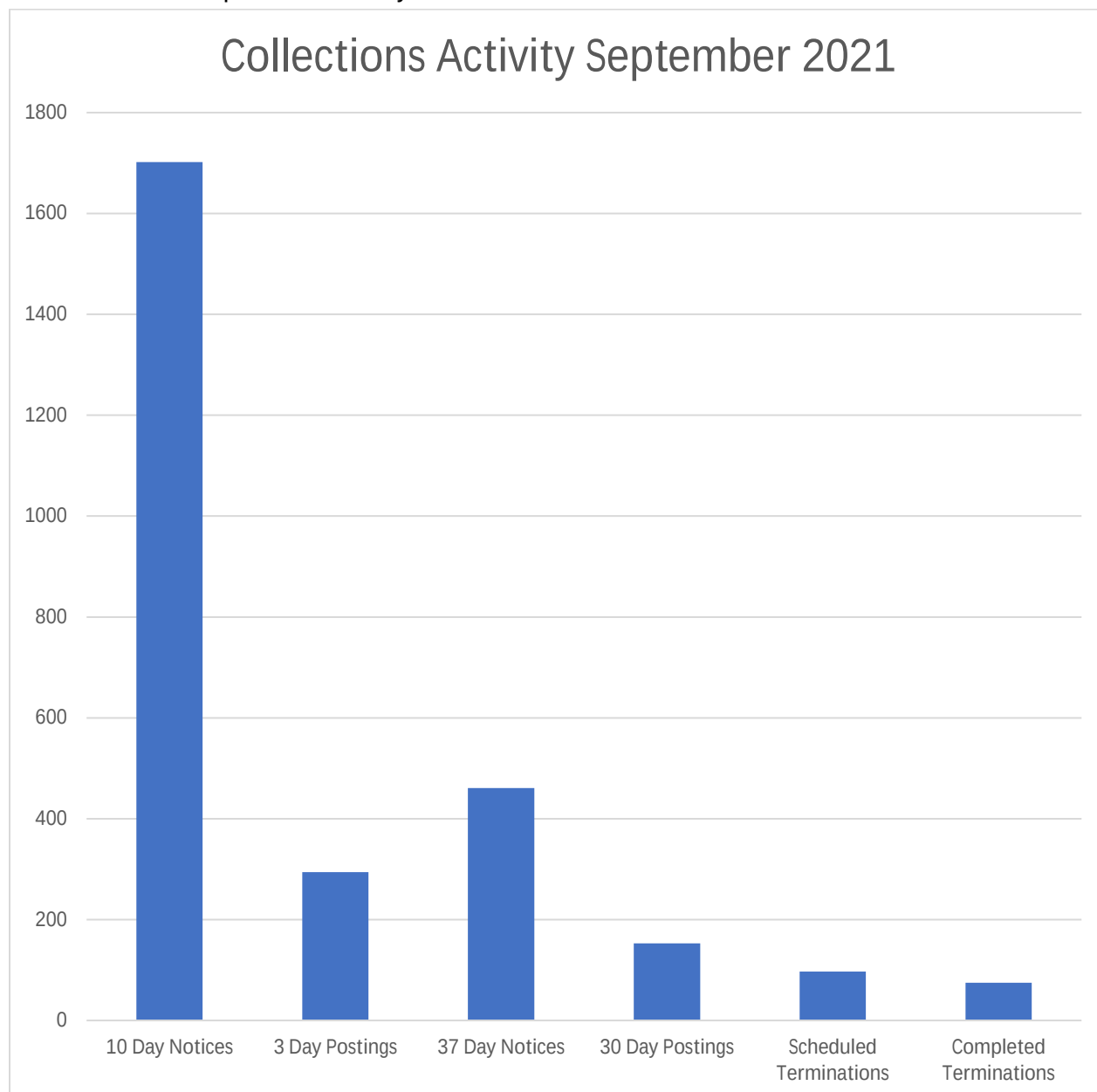
Billed Amounts in September 2021



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – SEPTEMBER 2021

In September 2021, the total Collections were \$24,345,830, which was \$472,955 more than what was billed in August 2021. Out of a total of 2,174 customer inquiries to info@pgh2o.com, Collections personnel responded to 2,168, all within 48 hours. Payment Plans for the month of September 2021 totaled 4,272, and there were 4,943 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.



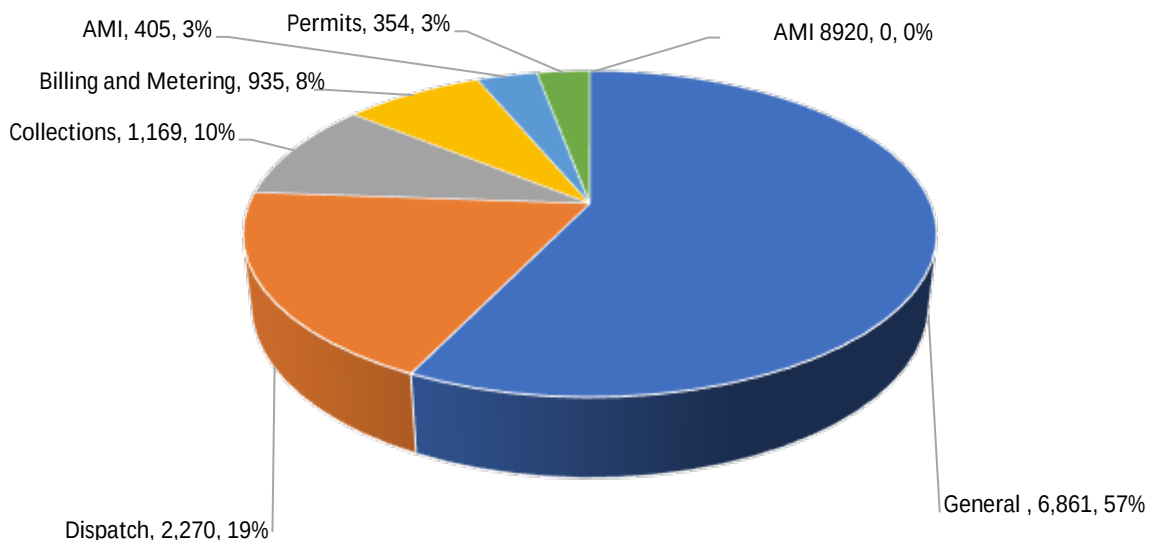
CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – SEPTEMBER 2021

There were 21 business days and 1 holiday in the month of September 2021. The Contact Center's attendance rate changed to 16 full time employees and 3 part time employees. As of September 16, 2021, the most recently hired Customer Service Representatives completed training with our Customer Service Training Coordinator and began taking calls independently. Of the 11,994 calls handled in the month of September 2021, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. The Contact Center yielded an abandonment rate of 1.1% with an average speed of answer of 20 seconds.

Queue Group Performance by Queue								
1 - All Queues								
9/1/2021 - 9/30/2021 - 00:00 - 24:00								
Created on 10/5/2021 10:17:45 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	6911	6861	00:00:22	00:06:23	0.7%	96.3%	99.3%
P004	Dispatch	2319	2270	00:00:12	00:01:59	2.1%	98.7%	97.9%
P002	Collections	1173	1169	00:00:22	00:07:46	0.3%	96.7%	99.7%
P003	Billing and Metering	947	935	00:00:20	00:05:34	1.3%	96.6%	98.7%
P005	AMI	411	405	00:00:46	00:04:17	1.5%	89.3%	98.5%
P008	Permits	400	354	00:00:14	00:02:15	2.5%	100.0%	88.5%
P006	AMI 8920	0	0	00:00:00	00:00:00	0.0%	100.0%	0.0%
Totals		12161	11994	00:00:20	00:05:25	1.1%	96.7%	98.6%

Customers Assisted Via Telephone-11,994

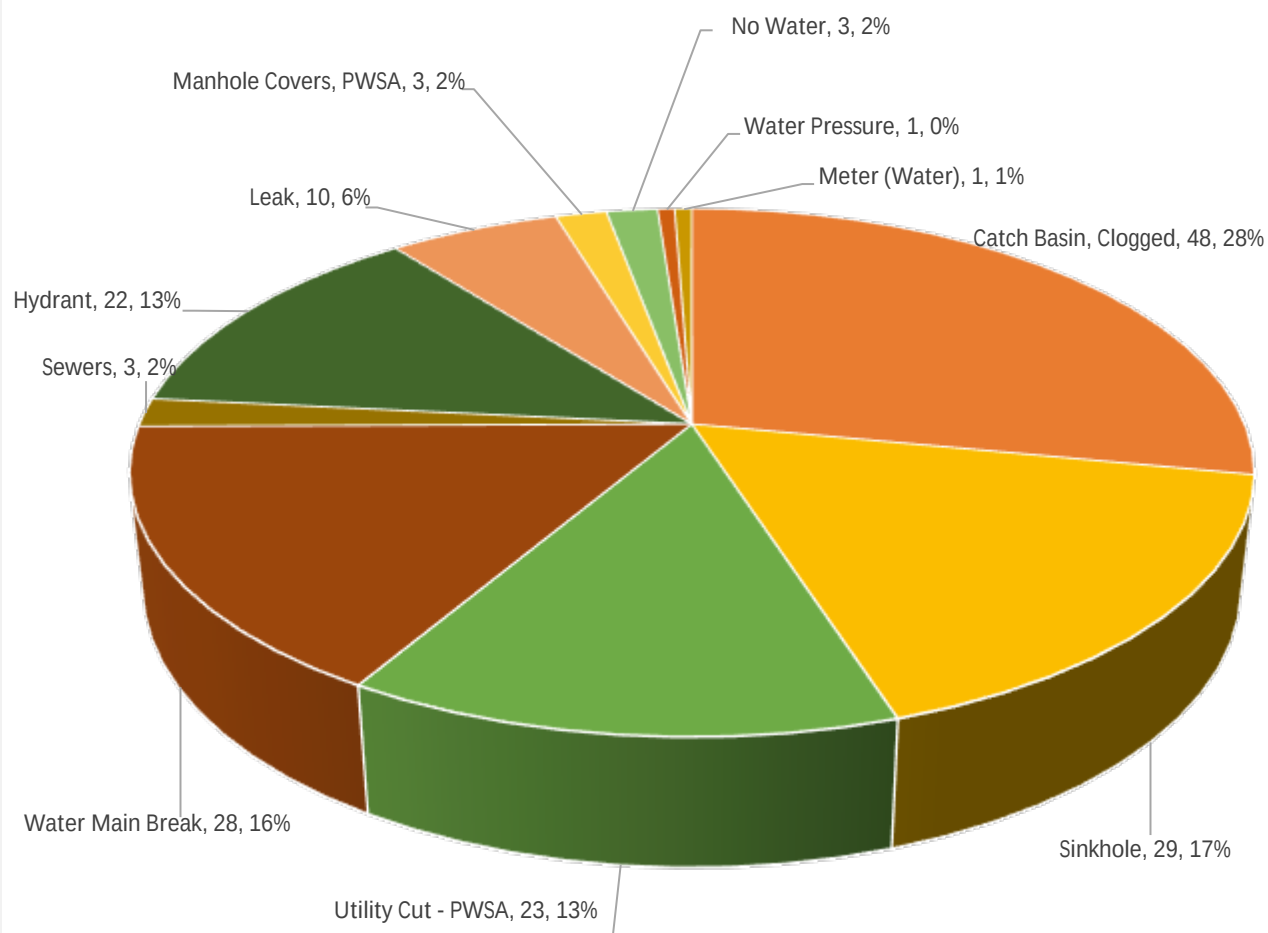


CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – SEPTEMBER 2021

Dispatch responded to 2,270 calls for emergency service in September 2021. In this month, the Dispatchers issued 88 Interruptions of Service and facilitated 291 dig requests to Pennsylvania One Call.

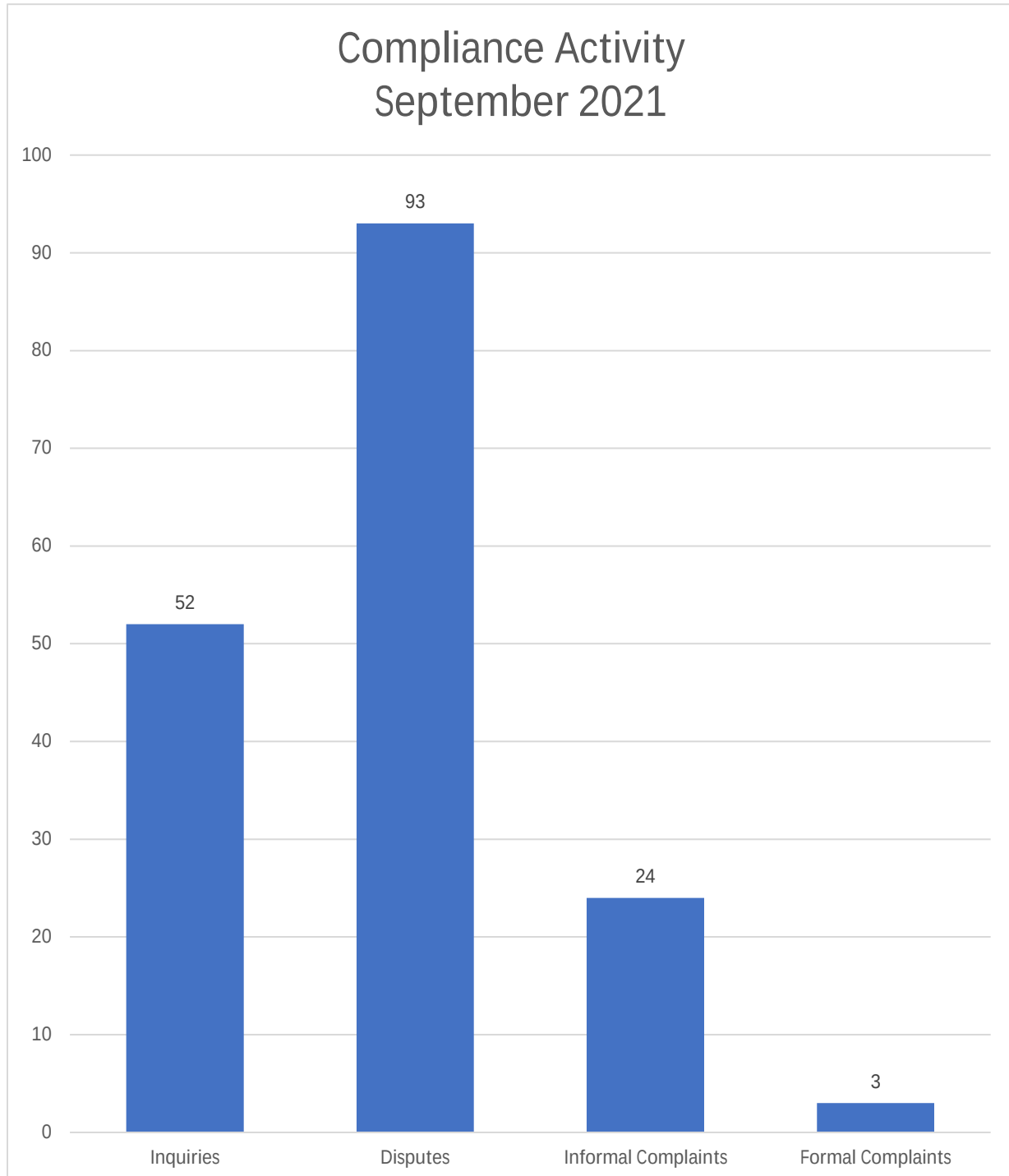
311 Mayor's Service Center Complaints Handled September 2021



CUSTOMER SERVICE MONTHLY REPORT

PUC COMPLIANCE – SEPTEMBER 2021

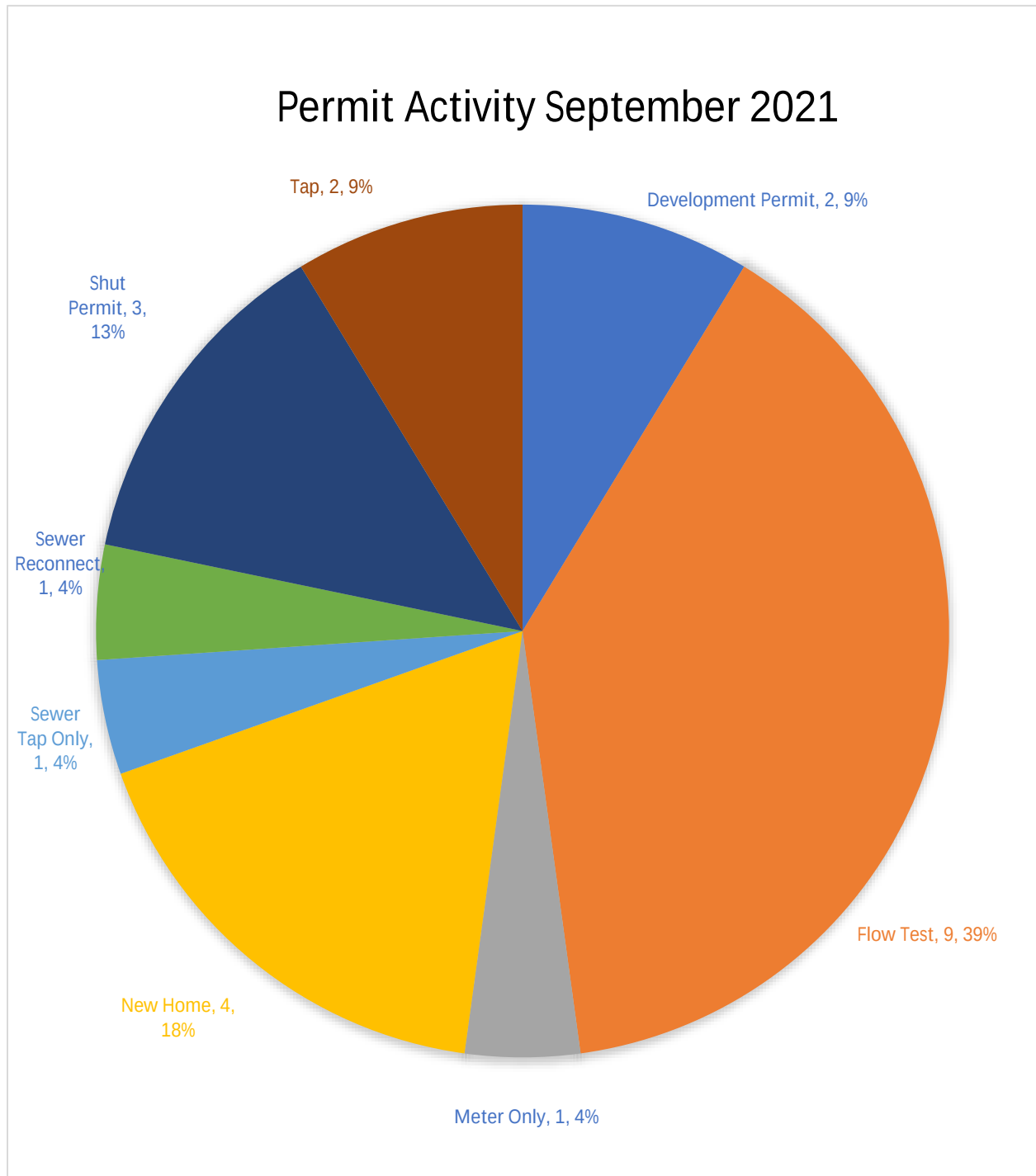
PWSA received 52 Inquiries, 93 Disputes, 24 Informal Complaints, and 3 Formal Complaints in the month of September 2021.



CUSTOMER SERVICE MONTHLY REPORT

PERMITS – SEPTEMBER 2021

In September 2021, Permits issued 23 permits, as illustrated below, and processed 929 dye test certification requests.



Appendix F- Vacancy Report

910F Exec Director

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Totals		

911F Cust Service

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Customer Service	Senior Collections Manager	Vacant
Customer Service	Lead Program Customer Assistance	Vacant
Customer Service	Clerical Specialist II - AMI	Vacant
Customer Service	Customer Service Representative 3	Vacant
Customer Service	Data Analyst	Vacant
Customer Service	PGH2o Cares Analyst	Vacant
Customer Service	Customer Service Representative 1-PT (1500 Hours)	Vacant

912F MIS

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
MIS	Senior GIS Analyst	Vacant

913F Finance

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Finance	Manager, Facilities	Vacant
Totals		

915F HR

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Total		

916F Legal

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Legal	Chief Corporate Counsel/Administration	Vacant
Legal	Corporate Counsel - Environmental	Vacant
Legal	Paralegal	Vacant
Total		

920F Warehouse

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Total		

921F Public Affairs

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Total		

930F Engineering

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Engineering	Project Manager	Vacant
Engineering	Project Manager	Vacant
Engineering	Engineer II	Vacant
Engineering	Inspector III	Vacant
Engineering	Cooperative Education	Vacant

Total

931F Environmental Compliance

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Total		

321F Lab

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Total		

322F WTP

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Water Treatment Plant	Operations Startup/Commissions Technician	Vacant
Water Treatment Plant	Plant Maintenance Foreman	Vacant
Water Treatment Plant	Foreman	Vacant
Water Treatment Plant	Plant Operator - Class A	Vacant
Water Treatment Plant	Stationary Engineer	Vacant
Water Treatment Plant	Plant Operator	Vacant
SCADA Security/Network Specialist	Vacant	Vacant
Maintenance Supervisor	Vacant	Vacant
Security Manager	Vacant	Vacant

Total

325F Water Ops

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Water Ops	Water Repair Foreman	Vacant
Water Ops	Heavy Equipment Operator	Vacant
Water Ops	Leak Detection Specialist	Vacant
Water Ops	Utility Worker	Vacant
Water Ops	Utility Worker	Vacant
Water Ops	Utility Worker	Vacant
Water Ops	Utility Worker	Vacant
Water Ops	Valve & Hydrant Specialist	Vacant
Water Ops	Utility Worker	Vacant
Water Ops	Valve & Hydrant Operator	Vacant
Water Ops	Valve & Hydrant Operator	Vacant
Water Ops	Truck Driver - Special/Winch	Vacant
Water Ops	Truck Driver	Vacant
Water Ops	Truck Driver	Vacant
Total		

424F Sewer Ops

2021 Vacancy
as of Sept 30, 2021

Department	Title	Name
Sewer Ops	Inspector II	Vacant
Sewer Ops	Inspector II	Vacant
Sewer Ops	Truck Driver	Vacant
Sewer Ops	Laborer	Vacant
Sewer Ops	Laborer	Vacant
Sewer Ops	Laborer	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	Acutal 2021 Expenditures Q1	Acutal 2021 Expenditures Q2	Acutal 2021 Expenditures Q3	Projected 2021 Expenditures Remaining	Projected 2021 Expenditures	Projected 2022 Expenditures	Projected 2023 Expenditures
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MFP Assessment and Critical Process Improvements	2017-322-104-0	Construction	2017	\$ 4,616,661.55	\$ 799,147.29	\$ 3,817,514.26	\$ 3,431,993.19	\$ 385,521.07	\$ 1,184,668.36	\$ 39,237.73	\$ 9,023.55	\$ 82,301.31	\$ 370,521.07	\$ 501,083.66	\$ -	\$ -
Highland Park Membrane Filtration Module Replacement Program	2017-322-105-0	Close-Out	2017	\$ 1,482,788.00	\$ 157,986.76	\$ 1,324,801.24	\$ 1,324,801.24	\$ -	\$ 157,986.76	\$ 613.63	\$ 1,082.89	\$ 1,465.16	\$ -	\$ 3,161.68	\$ -	\$ -
Aspinwall and MFP Fiberglass Reinforced Plastic Chemical Tank Inspections and	2017-322-102-0	Close-Out	2017	\$ 295,000.00	\$ 54,425.83	\$ 240,574.17	\$ 240,574.17	\$ -	\$ 54,425.83	\$ 27,135.83	\$ 3,482.99	\$ 1,679.61	\$ -	\$ 32,298.43	\$ -	\$ -
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Construction	2017	\$ 5,693,200.08	\$ 38,813.70	\$ 5,654,386.38	\$ 5,500,929.85	\$ 153,456.53	\$ 192,270.23	\$ 27,325.28	\$ 94,171.54	\$ 22,668.52	\$ 98,556.53	\$ 242,721.87	\$ -	\$ -
Highland Reservoir #1 Parapet Wall Repairs	2017-322-106-1	Close-Out	2019	\$ 2,351,478.08	\$ 47,418.34	\$ 2,304,059.74	\$ 2,304,059.74	\$ -	\$ 47,418.34	\$ 106,237.56	\$ 4,521.39	\$ -	\$ (0.00)	\$ 110,758.95	\$ -	\$ -
Highland Park MFP Improvements Project	2021-322-100-0	Construction	2021	\$ 47,094.98	\$ 21,303.27	\$ 25,791.71	\$ 4,095.40	\$ 21,696.31	\$ 42,999.58	\$ -	\$ -	\$ 4,095.40	\$ 21,695.00	\$ 25,790.40	\$ 1,732,500.00	\$ -
Permit (UV)	Operating	On-going	2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					\$ -	\$ -	\$ -
Chemicals	Operating	On-going	2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,523.20	\$ 13,230.20	\$ 20,257.80		\$ 102,345.60	\$ 102,345.60	\$ 102,345.60
Utilities	Operating	On-going	2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,318.63	\$ 39,842.96	\$ 49,629.80		\$ 4,626.87	\$ 4,719.40	\$ 4,813.79
Security	Operating	On-going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,473.22	\$ 95,761.81	\$ 95,685.57		\$ -	\$ -	\$ -
Supplies	Operating	On-going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,756.24	\$ 4,423.30	\$ 11,689.58		\$ -	\$ -	\$ -
PWSA Staff Hours	Operating	On-going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195,069.12	\$ 93,318.80	\$ 91,140.00		\$ -	\$ -	\$ -



August 13, 2021

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 Letters
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 – August 15, 2021

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
- MFP site – Highland 1 Reservoir Super System on April 29, 2019

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 in the past to gain better understanding for their occurrence.

The LCR compliance sampling results for the January 2020 to June 2020 period indicate that the 90th percentile level of 5.1 ppb was below the action level. The 90th percentile level for the June 2019 to December 2019 was 10 ppb, also below the action level. PWSA has accordingly achieved two consecutive six-month rounds of compliance sampling that were below the 15 ppb action level.

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. Once this Plan is completed, PWSA will conduct two additional 6-month LCR compliance sampling events (planned for June 2021 to December 2021 and January 2022 to June 2022), after which a request for designation of optimal corrosion control treatment Water Quality Parameter (WQP) performance requirements will be submitted to PADEP.

The Plan activities will be complete as of the submission of this report, with a final report presented later in August 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.

Section 2 - Consumer Tap Notices

For each monitoring period (next period scheduled for June 2021 to December 2021) 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. If any result exceeds 15 ppb total lead, the 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 PADEP 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.. 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. Additionally, PWSA continues to provide the results letters via US mail (see Attachment A) within three business days of PWSA receiving the results.

Upon receipt of a sample result that exceeds 15 ppb, the customer is mailed, at no cost to the customer, a water pitcher and 6-month supply of filter cartridges the same business day that PWSA receives the exceedance. For any sample result that exceeds 10 ppb, the results letter includes a voucher code for the customer to redeem a complimentary water pitcher and 6-month supply of filter cartridges.

Section 3 - 72 Hour Partial Line Replacement Sample Results

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, 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, we 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 July 31, 2021, 8,668 public lead or galvanized iron service lines have been replaced. Post-construction samples have been returned from 4,029 of those locations. From May 1, 2021 through July 31, 2021 (this quarterly progress report reporting period) 150 public lead service lines were replaced, and 35 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.

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 was one Emergency Partial Lead Service Line Replacement reported during the quarterly reporting period May 1, 2021 through July 31, 2021. 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 water 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.



Per PUC Order, effective April 4, 2021 partial service line replacements are no longer authorized, even under urgent or emergency conditions. 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.

Section 5 - Implementation of Community Environmental Project (CEP)

At the October 2018 meeting of the PWSA Board of Directors, PWSA awarded construction contracts to perform replacement of privately-owned lead service lines under the 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

The 2017 Curb Box Inspection (CBI) Contract inspected 5,419 curb boxes and identified 830 lead service lines on the public side. The 2018 CBI Contract inspected 15,008 curb boxes and identified 1,329 public lead lines. Only curb boxes where either there is no historical record, or the historical record indicates the presence of lead on the public side are being inspected. All others are presumed to be non-lead based on historic record.

PWSA met with PADEP and presented a Revised Service Line Material Inventory Approach on July 31, 2019, which was approved on June 26, 2020. This revised approach included multiple sources of information, including a predictive machine-learning model and refined CBI Program, to complete the inventory of service line materials required under Paragraph 1. C. iii of the COA.

PWSA approved the 2020 CBI Program at the January 2020 Board of Directors meeting. The 2020 CBI contract inspected 4,133 curb boxes and identified 230 public lead lines. The 2020 CBI Program project is complete.



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 Approach.

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 the 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 July 31, 2021, 8,668 public and 5,687 private lead or galvanized service lines have been replaced by PWSA or a PWSA contractor.

Lead Service Line Replacement Contracts

- 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 Relay (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.

The 2020 SDWMR Program consists of three construction contracts awarded by PWSA in April 2020, and included construction to replace 15 miles of water main and about 2,200 public and associated private lead service lines. The 2020 SDWMR construction started in June 2020; this work will be completed in October 2021.



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.

The 2021 SDWMR Program consists of two construction contracts for the replacement of water mains that were awarded by PWSA in April 2021 to replace 8 miles of water main and approximately 950 public and associated private lead services lines. The SDWMR construction work is anticipated to begin in August 2021.

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

- PWSA Operations Urgent Replacement

At the October 2018 meeting of the PWSA Board of Directors, PWSA awarded construction contracts to perform replacement of privately-owned lead service lines when PWSA Operations performs urgent replacements as a result of emergency line breaks or leaks, and work began in early December 2018. 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 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.

- PADEP Community Environmental Project (CEP), Complete

The PADEP CEP was developed for homeowners that meet the income requirements as specified in the proposal submitted to PADEP that was approved February 15, 2018. Replacements performed under this contract were identified by customer requests that qualify financially; the financial qualification is administered by a third party, Dollar Energy Fund. At the October 2018 meeting of the PWSA Board of Directors, PWSA awarded construction contracts to perform replacement of privately-owned lead service lines under the CEP. This work is complete as of the end of January 2021.

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/>

In a recent PUC order, PWSA is being 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 LETTERS



«Date»

«Name»

«Address»

«City», «State» «Zip»

RE: Lead Test Kit Results

Dear «Name»,

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

The results of the sample taken from your home on «Date_Collected» indicate a lead level of «Lead_Result_ppb» parts per billion (ppb). Your result is above the lead EPA action level of 15 ppb.

To reduce the risks associated with exposure to lead in water, you should have received a complimentary water filter pitcher and replacement filters that are certified to remove lead. If you have not received these please call us at 800-674-7961.

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.

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 when PWSA water service customers complete private side lead service line replacements. 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 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.



What are the health effects of lead?

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.”

How does lead exposure happen?

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 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 a NSF Water Filter that is certified to remove lead from your water. Customers can also choose to drink bottled water.
- 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 lead service lines across our service area. As we identify the location of lead service lines, we will 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.

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



«Date»

«Name»

«Address»

«City», «State» «Zip»

RE: Lead Test Kit Results and Voucher Code For Free Water Pitcher and Filters

Dear «Name»,

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

The results of the sample taken from your home on «**Date_Collected**» indicate a lead level of «**Lead_Result_ppb**» parts per billion (ppb). The lead EPA action level is 15 ppb. Your sample result is below the EPA action level, however lead was detected at or above 10 ppb.

To reduce the risks associated with exposure to lead in water, we are offering you a complimentary water filter pitcher and replacement filters that are certified to remove lead. To redeem this offer, please call **us** at 800-674-7961 or visit PWSA.120WaterAudit.com and provide the following voucher #: «**GIS_ID**».

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.

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 when PWSA water service customers complete private side lead service line replacements. 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 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.



What are the health effects of lead?

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.”

How does lead exposure happen?

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 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 a NSF Water Filter that is certified to remove lead from your water. Customers can also choose to drink bottled water.
- 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 lead service lines across our service area. As we identify the location of lead service lines, we will 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.

Where can I get more information?

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Sincerely,

William J. Pickering

William Pickering
Chief Executive Officer



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«Address»

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RE: Lead Test Kit Results

Dear «Name»,

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

The results of the sample taken from your home on «COLLECTED_ON» indicate a lead level of «**LEAD_RESULT**» parts per billion (ppb). Your result is below the lead EPA action level of 15 ppb.

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.

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What can I do to reduce exposure to lead 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:

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- 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 a NSF Water Filter that is certified to remove lead from your water. Customers can also choose to drink bottled water.
- 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.

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Sincerely,

William J. Pickering

William Pickering
Chief Executive Officer



«Date»

«Name»

«Address»

«City», «State» «Zip»

RE: Lead Test Kit Results

Dear «Name»,

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

The results of the sample taken from your home on «**COLLECTED_ON**» indicate a lead level of **ND (Non-Detected)**. Your result is below the EPA lead action level of 15 parts per billion (ppb).

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.

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.

What are the health effects of lead?

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."



How does lead exposure happen?

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 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 a NSF Water Filter that is certified to remove lead from your water. Customers can also choose to drink bottled water.
- 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 lead service lines across our service area. As we identify the location of lead service lines, we will 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.

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 July 31, 2021

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
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	2017-07-11	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	FSK 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	1	2019-02-08	2019-02-19												
5003065	Ops	BLG_01	206	CHESTERFIELD RD	Lead	Lead	PEX	Not Replaced	2016-07-21		Yes	Emergency	2	2017-07-15	2017-07-20												
5048521	Ops	BLG	5264	2ND AVE	Lead	Lead	PEX	Copper	2016-07-21	2019-01-09	Yes	Emergency	4	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	4	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	3.3	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	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	4	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	2.1	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		1	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	2	2017-11-13	2017-12-04												
5075090	Ops	BLG	17	DUNLAP ST	Lead	Lead	PEX	Copper	2016-08-08	2019-02-06	Yes	Emergency	1	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	2	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	2	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	4	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	3	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	1	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	1	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	1	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	1	2019-02-06	2019-02-19									
5022994	Upper Lawrenceville Relay	BLG	5438	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	2016-09-15		Yes		2	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	2	2017-07-07	2017-10-04												
5018054	Ops		4838	HATFIELD ST	Lead	PEX	PEX	Not Replaced	2016-10-03		No	Emergency	4	2018-07-31	2018-08-17												
5036901	Ops	BLG	1544	SHADY AVE	Lead	Lead	PEX	Copper	2016-10-04	2019-01-23	Yes	Emergency	2	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	1	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		1	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		1	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	3034	SHADELAND AVE	Lead	Lead	PEX	Copper	2016-11-04	2016-11-09	Yes	Emergency	2	2017-07-13	2017-07-20												
5060561	Ops	BLG	319	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2016-11-08	2019-03-04	Yes	Emergency	36	2017-07-07	2017-07-13	18	2018-02-02	2018-02-12	1.18	2019-03-07	2019-04-15						
5061046	Ops	BLG	154	OLYMPIA ST	Lead																						

Post-Construction Replacement Sample Results (All) Report as of July 31, 2021																											
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
5042100	Ops		6612	KINSMAN RD	Lead	PEX	PEX	Not Replaced	2017-04-20		No	Emergency	4.3	2017-07-21	2017-07-31												
5037668	Ops		5702	BEACON ST	Lead	Copper	Copper	Not Replaced	2017-05-03		No	Emergency	5.7	2017-08-30	2017-09-20												
5046500	Ops	BLG	4315	GLADSTONE ST	Lead	Lead	PEX	Copper	2017-05-04	2019-01-25	Yes	Emergency	1.62	2019-02-07	2019-02-19												
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		2	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	2	2018-05-10	2018-05-21						
5005633	Ops	BLG	2916	WEBSTER AVE	Lead	Lead	PEX	Copper	2017-05-12	2019-01-11	Yes	Emergency	4	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	2	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	2	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	2	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	3.9	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	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		1	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	2	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	2	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	2	2017-05-31	2017-06-12												
5018108	Ops	A07_07	148	HOME ST	Lead	Copper	PEX	Not Replaced	2017-05-31		No	Emergency	4	2018-07-30	2018-08-14												

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5038882	A05_05	A05_05	2339	ELDRIDGE ST	Lead	Lead	PEX	Copper	2017-09-13	2018-05-11	Yes		24	2017-10-01	2017-10-26	31	2018-05-29	2018-06-06	9.5	2018-08-14	2018-08-31						
5067576	Ops	BLG	1518	COMPROMISE ST	Lead	Lead	PEX	Copper	2017-09-14	2018-12-18	Yes	Emergency	1.6	2018-12-19	2019-01-07												
5079482	Ops		3126	FREDERICK ST	Lead	Copper	PEX	Not Replaced	2017-09-14		No	Emergency	43	2017-09-17	2017-10-02	2	2017-10-10	2017-10-18									
5012191	Ops	BLG	330	HAILMAN ST	Lead	Lead	PEX	Not Replaced	2017-09-15		Yes	Emergency	8.8	2017-09-22	2017-10-09												
5036715	Ops		5639	MARLBOROUGH RD	Lead	Copper	PEX	Not Replaced	2017-09-18		No	Emergency	10	2017-11-26	2017-12-11												
5038860	A05_05	A05_05	2342	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	2017-09-18		Yes		3.7	2017-10-05	2017-10-16												
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	2	2017-10-03	2017-10-12												
5048649	Ops	BLG	231	WINSTON ST	Lead	Lead	PEX	Copper	2017-09-25	2019-02-08	Yes	Emergency	1	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		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		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	PEX	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		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		5.4	2017-09-28	2017-10-09	7.2	2017-10-04	2017-10-12	2	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		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		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	DENNISTON AVE	Copper	Lead	PEX	Not Replaced	2017-09-27		Yes	Emergency	2	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		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		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	2	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	2	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		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		2	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	1.5	2018-11-21	2018-12-05						
5074218	Unknown	BLG_02	2540	SPRING GARDEN AVE	Lead	Unknown	PEX	Not Replaced	2017-10-07		Yes		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	1	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	5																								

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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
5122143	Ops	A10_M	305	COLTON ST	Lead	Lead	Copper	Not Replaced	2018-01-25		Yes	Emergency			2018-02-08												
5068530	Ops	BLG	1911	ROCKLEDGE ST	Lead	PEX	PEX	Not Replaced	2018-01-26		No	Emergency	780	2018-01-26	2018-02-07	2	2018-02-08	2018-02-20									
5008899	Ops		183	35TH ST	Lead	Copper	PEX	Not Replaced	2018-01-30		No	Emergency	2	2018-02-09	2018-02-20												
5122038	Ops	BLG_01	867	RESERVE STREET	Lead	Lead	PEX	Not Replaced	2018-02-06		Yes	Emergency	1	2019-02-15	2019-03-04												
5005451	Ops	BLG	2605.5	WEBSTER AVE	Lead	Lead	PEX	Copper	2018-02-07	2019-01-11	Yes	Emergency	4	2019-01-11	2019-01-22												
5012968	Ops	BLG	4744	JUNIPER ST	Lead	Lead	PEX	Copper	2018-02-07	2018-12-10	Yes	Emergency	3.1	2018-12-17	2019-01-04												
5071011	Ops		1405	BUENA VISTA ST	Lead	Copper	PEX	Not Replaced	2018-02-07		No	Emergency	2.9	2018-08-21	2018-08-31												
5078744	Ops		3531	DIPLOMA ST	Lead	Copper	PEX	Not Replaced	2018-02-09		No	Emergency	2.1	2018-03-16	2018-03-28												
5043814	Ops		7712	WAVERLY ST	Lead	Copper	PEX	Not Replaced	2018-02-13		No	Emergency	11	2018-02-22	2018-03-07												
5031398	Ops	BLG	1330	OLIVANT ST	Lead	Lead	PEX	Copper	2018-02-14	2019-02-27	Yes	Emergency	15	2018-03-12	2018-04-10	1	2019-02-27	2019-04-15									
5076616	Ops	BLG	2819	BREKER ST	Lead	Lead	PEX	Copper	2018-02-14	2019-02-15	Yes	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	2	2018-10-17	2018-11-01												
5058658	Ops	BLG	158	VIRGINIA AVE	Lead	Lead	PEX	Not Replaced	2018-02-18		Yes	Emergency	2	2018-03-07	2018-03-19												
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	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	4	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	4	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	1	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	2	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	4	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	2	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																				

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5067080	Ops		612	SUISMON ST	Lead	Copper	PEX	Not Replaced	2018-05-02		No	Emergency	2.7	2018-05-03	2018-05-10												
5052816	Ops		53	S 5TH ST	Lead	Copper	PEX	Not Replaced	2018-05-03		No	Emergency	7.8	2018-05-06	2018-06-11												
5038326	A05_05	A05_05	5832	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-04	2018-05-04	No		2	2018-06-02	2018-06-15												
5038327	A05_05	A05_05	5834	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-04	2018-05-04	No		2	2018-05-08	2018-05-29												
5038332	A05_05	A05_05	5854	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-04	2018-05-04	No		16	2018-05-08	2018-05-21												
5075711	A03_01	A03_01	28	RADIUM ST	Lead	Lead	PEX	Copper	2018-05-04	2018-05-04	No		2	2018-05-05	2018-05-10												
5038322	A05_05	A05_05	5816	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-08	2018-05-08	No		2	2018-05-11	2018-05-21												
5038408	A05_05	A05_05	5933	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-09	2018-05-09	No		2	2018-05-11	2018-05-24												
5038412	A05_05	A05_05	5919	PHILLIPS AVE	Lead	Lead	PEX	Not Replaced	2018-05-09		Yes		26	2018-06-10	2018-06-26	4.17	2019-03-10	2019-03-26									
5038427	A05_05	A05_05	5928	PHILLIPS AVE	Lead	Lead	PEX	Copper	2018-05-09	2018-05-09	No		2.2	2018-05-12	2018-05-29												
5075709	A03_01	A03_01	20	RADIUM ST	Lead	Copper	PEX	Not Replaced	2018-05-09		No		2	2018-05-11	2018-05-24												
5006851	A06_06	A06_06	3322	WEBSTER AVE	Lead	Lead	PEX	Copper	2018-05-11	2018-05-11	No		7.8	2018-05-14	2018-05-29												
5013145	Ops		4701.5	LORIGAN ST	Lead	Copper	PEX	Not Replaced	2018-05-11		No	Emergency	2	2018-05-17	2018-06-06												
5048002	Ops	BLG	126	TIPTON ST	Lead	Lead	PEX	Copper	2018-05-11	2019-03-07	Yes	Emergency	28	2018-12-13	2019-01-02	2.02	2019-03-11	2019-03-19									
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	1.9	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		2	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		4	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		1.2	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	2	2018-05-31	2018-06-06												
5053000	Ops		20	S 14TH ST	Lead	Copper	PEX	Not Replaced	2018-05-22		No	Emergency	4	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		2	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	3.2	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		4	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		2	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	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 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
5061194	A04_04	A04_04	612	SOUTHERN AVE	Lead	Lead	PEX	Copper	2018-06-15	2018-06-15	No		4	2018-06-16	2018-08-01												
5061556	A04_04	A04_04	644	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	2018-06-15		Yes		4	2018-08-05	2018-08-28												
5075675	A11_01	A11_01	4120	FRANKLIN RD	Lead	Lead	PEX	Copper	2018-06-15	2018-06-15	No		4	2018-06-18	2018-07-08												
5075678	A11_01	A11_01	4126	FRANKLIN RD	Lead	Lead	PEX	Copper	2018-06-16	2018-06-16	No		4	2018-06-18	2018-07-08												
5038444	A05_05	A05_05	2284	SHADY AVE	Lead	Lead	PEX	Copper	2018-06-18	2018-06-18	No		5	2018-06-22	2018-07-08												
5038447	A05_05	A05_05	5921	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-18	2018-06-18	No		7	2018-06-21	2018-07-08												
5061560	A04_04	A04_04	652	SOUTHERN AVE	Lead	Lead	PEX	Copper	2018-06-18	2018-06-18	No		24	2018-06-27	2018-08-01												
5061585	A04_04	A04_04	721	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	2018-06-18		Yes		3	2018-07-11	2018-07-17												
5056159	A13_03	A13_03	56	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-18	2018-06-18	No		6	2018-06-20	2018-07-08												
5075680	A11_01	A11_01	4128	FRANKLIN RD	Lead	Lead	PEX	Copper	2018-06-18	2018-06-18	No		2.07	2019-08-13	2019-08-26												
5007050	A06_06	A06_06	826	ADELAIDE ST	Lead	Lead	PEX	Copper	2018-06-19	2018-06-19	No		7	2018-06-20	2018-07-08												
5038448	A05_05	A05_05	5917	NICHOLSON ST	Lead	Lead	PEX	Copper	2018-06-19	2018-06-19	No		8	2018-06-21	2018-07-08												
5061777	A04_04	A04_04	816	BOGGS AVE	Lead	Lead	PEX	Copper	2018-06-19	2018-06-19	No		12	2018-06-25	2018-07-19												
5056157	A13_03	A13_03	52	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-19	2018-06-19	No		4	2018-06-22	2018-07-08												
5056161	A13_03	A13_03	60	HARWOOD ST	Lead	Lead	PEX	Copper	2018-06-19	2018-06-19	No		13	2018-06-19	2018-07-08	4	2018-06-20	2018-07-08									
5061584	A04_04	A04_04	719	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	2018-06-20		No		18	2018-06-26	2018-07-06												
5070362	Ops		1616	MONTEREY ST	Lead	Copper	PEX	Not Replaced	2018-06-20		No	Emergency	7	2018-06-21	2018-07-08												
5075694	A11_01	A11_01	4018	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2018-06-20		No		4	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		1	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		4	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		4	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		4	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	4	2018-06-25	2018-07-08												
5068598	Ops		1745	COWLEY ST	Lead	Copper	Copper	Not Replaced	2018-06-22		No	Emergency	2	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		4	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		4	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		4	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		1	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													

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5049568	A15_05_B	A15_05_B	955	LILAC ST	Lead	Copper	PEX	Not Replaced	2018-07-11		No		4	2018-07-12	2018-07-30												
5057565	A13_03	A13_03	90	LACLEDE ST	Lead		PEX	Copper	2018-07-11	2018-07-11	No		4	2018-07-11	2018-08-01												
5058871	A12_02	A12_02	235	CAIRO ST	Lead	Lead	PEX	Copper	2018-07-11	2018-07-11	No		4	2018-07-14	2018-08-03												
5056384	A13_03	A13_03	100	LACLEDE ST	Lead	Lead	PEX	Copper	2018-07-11	2018-07-11	No		4	2018-08-03	2018-08-21												
5056383	A13_03	A13_03	80	LACLEDE ST	Lead	Lead	PEX	Copper	2018-07-11	2018-07-11	No		4	2018-07-14	2018-08-21												
5049579	A15_05_B	A15_05_B	935.5	LILAC ST	Lead	Copper	PEX	Not Replaced	2018-07-11		No		5	2018-07-16	2018-08-01												
5058867	A12_02	A12_02	243	CAIRO ST	Lead		PEX	Copper	2018-07-11	2018-07-11	No		8	2018-07-13	2018-08-01												
5042209	A08_08	A08_08	6632	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-11	2018-07-11	No		4	2018-08-22	2018-09-13												
5075494	A11_01	A11_01	56	PERRYVIEW	Lead	Copper	PEX	Not Replaced	2018-07-11		No		4	2018-07-16	2018-08-01												
5049580	A15_05_B	A15_05_B	935	LILAC ST	Lead	Copper	PEX	Not Replaced	2018-07-12		No		7	2018-07-17	2018-08-03												
5075492	A11_01	A11_01	104	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-07-12	2018-07-12	No		4	2018-07-18	2018-08-07												
5056400	A13_03	A13_03	52	LACLEDE ST	Lead	Lead	PEX	Copper	2018-07-12	2018-07-12	No		14	2018-07-13	2018-08-01												
5049561	A15_05_B	A15_05_B	969	LILAC ST	Lead	Lead	PEX	Copper	2018-07-13	2018-07-13	No		5	2018-07-14	2018-08-01												
5041960	A08_08	A08_08	6625	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-13	2018-07-13	No		4	2018-07-14	2018-08-01												
5049562	A15_05_B	A15_05_B	967	LILAC ST	Lead	Lead	PEX	Copper	2018-07-13	2018-07-13	No		18	2018-07-18	2018-08-03												
5050041	A15_05_B	A15_05_B	4155	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-16	2018-07-16	No		5	2018-07-17	2018-08-01												
5041959	A08_08	A08_08	6623	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-16	2018-07-16	No		6	2018-08-01	2018-08-17												
5056393	A13_03	A13_03	70	LACLEDE ST	Lead	Lead	PEX	Copper	2018-07-16	2018-07-16	No		16	2018-07-19	2019-01-08												
5075460	A11_01	A11_01	201	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-07-16	2018-07-16	No		7	2018-08-05	2018-08-21												
5020138	Ops		5238	LOTUS WAY	Lead	Copper	PEX	Not Replaced	2018-07-17		No	Emergency	4	2018-07-19	2018-08-08												
5056392	A13_03	A13_03	74	LACLEDE ST	Lead	Lead	PEX	Copper	2018-07-17	2018-07-17	No		9	2018-07-20	2018-10-18												
5049627	A15_05_B	A15_05_B	4142	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-17	2018-07-17	No		9	2018-07-24	2018-08-07												
5042194	A08_08	A08_08	6609	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-17	2018-07-17	No		10	2018-07-19	2019-01-08												
5056371	A13_03	A13_03	57	HABERMAN AVE	Lead	Lead	PEX	Copper	2018-07-17	2018-07-17	No		9	2018-07-18	2018-08-01												
5056370	A13_03	A13_03	55	HABERMAN AVE	Lead	Lead	PEX	Copper	2018-07-18	2018-07-18	No		6	2018-07-23	2019-01-08												
5042217	A08_08	A08_08	6556	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-18	2018-07-18	No		18	2018-07-23	2018-08-07												
5049628	A15_05_B	A15_05_B	4138	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-18	2018-07-18	No		17	2018-07-22	2018-08-07												
5049732	A15_05_B	A15_05_B	4143	WINDSOR ST	Lead	Copper	PEX	Not Replaced	2018-07-18		No		4	2018-07-21	2019-01-08												
5059219	A12_02	A12_02	217	CAIRO ST	Lead	Lead	PEX	Copper	2018-07-18	2018-07-18	No		2.48	2019-04-02	2019-04-16												
5042238	A08_08	A08_08	6605	DALZELL PL	Lead	Lead	PEX	Copper	2018-07-19	2018-07-19	No		10	2018-07-21	2019-01-08												
5042208	A08_08	A08_08	6634	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-19	2018-07-19	No		4	2018-07-20	2018-08-03												
5042207	A08_08	A08_08	6636	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2018-07-19		No		4	2018-07-21	2019-01-08												
5075461	A11_01	A11_01	203	PERRYVIEW AVE	Lead	Lead	PEX	Copper	2018-07-19	2018-07-19	No		7	2018-07-23	2018-08-07												
5057573	A13_03	A13_03	101	HABERMAN AVE	Lead	Copper	PEX	Not Replaced	2018-07-19		No		4	2018-07-24	2018-08-07												
5058873	A12_02	A12_02	231	CAIRO ST	Lead	Copper	PEX	Not Replaced	2018-07-19		No		4	2018-07-22	2018-08-07												
5049730	A15_05_B	A15_05_B	4137	WINDSOR ST	Lead		PEX	Copper	2018-07-20	2018-07-20	No		4	2018-07-26	2018-08-09												
5041962	A08_08	A08_08	6637	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-20	2018-07-20	No		5	2018-07-21	2018-08-03												
5049729	A15_05_B	A15_05_B	4133	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-20	2018-07-20	No		4	2018-07-25	2018-08-07												
5041967	A08_08	A08_08	6657	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-20	2018-07-20	No		16	2018-07-22	2018-08-07												
5008637	Ops		3442	MELWOOD AVE	Lead	Copper	PEX	Not Replaced	2018-07-23		No	Emergency	4	2018-07-28	2018-08-14												
5015025	Ops	BLG	426	S GRAHAM ST	Lead	Lead	Copper	Copper	2018-07-23	2018-12-21	Yes	Emergency	19	2018-07-26	2018-08-14	4.6	2018-12-29	2019-01-11									
5049735	A15_05_B	A15_05_B	4151	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-23	2018-07-23	No		4	2018-07-25	2018-08-07												
5049728	A15_05_B	A15_05_B	4127	WINDSOR ST	Lead	Copper	PEX	Not Replaced	2018-07-23		No		52	2018-07-24	2018-08-07	25.3	2019-08-30	2019-09-04									
5042003	A08_08	A08_08	6611	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-07-23	2018-07-23	No		99	2018-07-25	2018-08-07	6	2018-08-06	2018-08-21									
5057582	A13_03	A13_03	125	HABERMAN AVE	Lead	Lead	PEX	Copper	2018-07-23	2018-07-23	No		4	2018-08-16	2018-08-28												
5056376	A13_03	A13_03	71	HABERMAN AVE	Lead	Copper	PEX	Not Replaced	2018-07-24		No		4	2018-07-26	2018-08-07												
5041968	A08_08	A08_08	6659	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-24	2018-07-24	No		4	2018-07-30	2018-08-14												
5056339	A13_03	A13_03	228	RUXTON ST	Lead	Lead	PEX	Copper	2018-07-24	2018-07-24	No		4	2018-07-26	2018-09-04												
5041969	A08_08	A08_08	6663	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	2018-07-24	2018-07-24	No		8	2018-07-26	2018-08-07												
5056369	A13_03	A13_03	53	HABERMAN AVE	Lead	Lead	PEX	Copper	2018-07-24	2018-07-24	No		4	2018-07-28	2018-08-14												
5049636	A15_05_B	A15_05_B	4110	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-24	2018-07-24	No		2.89	2019-03-25	2019-04-16												
5042259	A08_08	A08_08	6628	DALZELL PL	Lead	Lead	PEX	Copper	2018-07-24	2018-07-24	No		6	2018-07-26	2018-08-07												
5059235	A12_02	A12_02	136	DILWORTH ST	Lead	Lead	PEX	Copper	2018-07-25	2018-07-25	No		19	2018-07-26	2018-08-14												
5042001	A08_08	A08_08	6615 B	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	2018-07-25		No		4	2018-07-31	2018-08-14												
5007397	Ops	BLG	928	BRYN MAWR RD	Lead	Lead	PEX	Copper	2018-07-26	2018-12-05	Yes	Emergency	14	2018-09-24	2018-10-10	8.8	2018-12-09	2019-01-04									
5059232	A12_02	A12_02	126	DILWORTH ST	Lead	Lead	PEX	Copper	2018-07-26	2018-07-26	No		4	2018-08-01	2018-09-04												
5049723	A15_05_B	A15_05_B	4113	WINDSOR ST	Lead	Lead	PEX	Copper	2018-07-26	2018-07-26	No		6	2018-09-18	2018-10-12												
5042197	A08_08	A08_08	6658	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2018-07-26		No		4	2018-07-28	2018-08-14												
5075569	A11_01	A11_01	36	BASCOM AVE	Lead	Lead	PEX	Not Replaced	2018-07-26		Yes		4	2018-08-08	2018-08-23												
5042199	A08_08	A08_08	6660	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	2018-07-26		No		8	2018-07-27	2018-08-09												
5056276	A13_03	A13_03	428	RUXTON ST	Lead	Lead	PEX	Copper	2018-07-26	2018-07-26	No		12	2018-07-29	2018-08-14												
5042245	A08_08	A08_08	6631	DALZELL PL	Lead	Lead	PEX	Copper																			

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5042285	A08_08	A08_08	6537	AYLESBORO AVE	Lead	Lead	PEX	Copper	2018-08-06	2018-08-06	No		8	2018-08-09	2018-08-23												
5133127	A15_05_B	A15_05_B	4133	FRANK	Lead	Lead	PEX	Copper	2018-08-06	2018-08-06	No		10	2018-08-19	2018-08-30												
5056491	A13_03	A13_03	73	CRAIGHEAD ST	Lead	Lead	PEX	Copper	2018-08-06	2018-08-06	No		5.16	2019-07-22	2019-08-05												
5042019	A08_08	A08_08	6637	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-06	2018-08-06	No		5	2018-08-07	2018-08-23												
5056257	A13_03	A13_03	225	RUXTON ST	Lead	Copper	PEX	Not Replaced	2018-08-06		No		4	2018-08-10	2018-09-04												
5056262	A13_03	A13_03	405	RUXTON ST	Lead	Lead	PEX	Copper	2018-08-06	2018-08-06	No		28	2018-08-19	2018-09-04												
5075477	A11_01	A11_01	100	BASCOM AVE	Lead	Lead	PEX	Copper	2018-08-06	2018-08-06	No		7	2018-08-07	2018-08-21												
5048886	Ops	BLG_01	57	ALMEDA ST	Lead	Lead	PEX	Not Replaced	2018-08-07		Yes	Emergency	14	2018-09-21	2019-01-08												
5049529	A15_05_B	A15_05_B	4131	FRANK ST	Lead	Lead	PEX	Copper	2018-08-07	2018-08-07	No		4	2018-08-11	2018-08-23												
5042256	A08_08	A08_08	6640	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-07	2018-08-07	No		36	2018-08-15	2018-08-30												
5042018	A08_08	A08_08	6639 B	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-07	2018-08-07	No		20	2018-08-19	2018-09-06												
5018034	A07_07	A07_07	4930	HATFIELD ST	Lead	Lead	PEX	Copper	2018-08-07	2018-08-07	No		4	2018-08-10	2018-08-23												
5055684	A13_03	A13_03	27	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	2018-08-07		Yes		2.2	2018-12-06	2018-12-17												
5055682	A13_03	A13_03	31	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	2018-08-07		Yes		9.4	2018-10-10	2018-10-18												
5059333	A12_02	A12_02	101	DILWORTH ST	Lead	Copper	PEX	Not Replaced	2018-08-08		No		23	2018-08-10	2018-08-28												
5042015	A08_08	A08_08	6643	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-08	2018-08-08	No		2	2018-09-17	2018-10-12												
5075443	A11_01	A11_01	123	BASCOM AVE	Lead	Brass	PEX	Not Replaced	2018-08-09		No		4	2018-08-12	2018-08-28												
5018083	A07_07	A07_07	4733	HATFIELD ST	Lead	Lead	PEX	Copper	2018-08-09	2018-08-09	No		27	2018-08-12	2018-08-28												
5075445	A11_01	A11_01	131	BASCOM AVE	Lead	Copper	PEX	Not Replaced	2018-08-09		No		4	2018-08-10	2018-08-28												
5049714	A15_05_C	A15_05_C	4033	WINDSOR ST	Lead	Copper	PEX	Not Replaced	2018-08-09		No		13	2018-08-10	2018-08-23												
5042289	A08_08	A08_08	6605	AYLESBORO AVE	Lead	Lead	PEX	Copper	2018-08-09	2018-08-09	No		8	2018-08-14	2018-08-28												
5042013	A08_08	A08_08	6647 C	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-09	2018-08-09	No		8	2018-08-11	2018-08-28												
5018011	Plum Way Water Relay	Plum Way Water Relay	4907	HATFIELD ST	Lead	Lead	PEX	Copper	2018-08-09	2018-08-09	No		4	2018-08-14	2018-08-28												
5049745	A15_05_C	A15_05_C	4029	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-10	2018-08-10	No		17	2018-08-11	2018-08-28												
5018033	A07_07	A07_07	4932	HATFIELD ST	Lead	Copper	PEX	Not Replaced	2018-08-10		No		1	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		4	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	4	2018-08-29	2018-09-11												
5018152	A07_07	A07_07	4738	HATFIELD ST	Lead	Copper	PEX	Not Replaced	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		No		4	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		4	2018-08-14	2018-08-28												
5018153	A07_07	A07_07	4740	HATFIELD ST	Lead	Copper	PEX	Not Replaced	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		No		4	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		4	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		1.4	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		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		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		No		4	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	1	2019-02-25	2019-03-12									
5018090	A07_07	A07_07	4717	HATFIELD ST	Lead	Copper	PEX	Not Replaced	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		No	Emergency	1.3	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		No	Emergency	4	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		Yes		18.6	2018-11-12	2018-11-27	1	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		4	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		1	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		4	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		4	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		No		1	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		4	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	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
5075643	A11_01	A11_01	4128	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2018-08-28	2018-08-28	No		6	2018-08-30	2018-09-11												
5042272	A08_08	A08_08	6538	DALZELL PL	Lead	Copper	PEX	Not Replaced	2018-08-28	2018-08-28	No		1	2018-10-03	2018-10-18												
5049349	A15_05_C	A15_05_C	1029	FLEMINGTON ST	Lead	Lead	PEX	Copper	2018-08-28	2018-08-28	No		4	2018-09-07	2018-10-12												
5018109	A07_07	A07_07	151	HOME ST	Lead	Lead	PEX	Copper	2018-08-28	2018-08-28	No		6	2018-08-29	2018-09-11												
5075644	A11_01	A11_01	4130	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2018-08-28		No		4	2018-08-29	2018-09-13												
5018554	A07_07	A07_07	154	HOME ST	Lead	Lead	PEX	Copper	2018-08-28	2018-08-28	No		2	2018-09-04	2018-10-12												
5018573	A07_07	A07_07	169	HOME ST	Lead	Lead	PEX	Copper	2018-08-28	2018-08-28	No		7	2018-09-25	2018-10-08												
5020006	Ops	BLG	310	54TH ST	Lead	Lead	PEX	Copper	2018-08-29	2019-02-21	Yes	Emergency	5.65	2019-02-22	2019-03-04												
5018585	A07_07	A07_07	177	HOME ST	Lead	Lead	PEX	Copper	2018-08-29	2018-08-29	No		16	2018-09-08	2018-10-12												
5018552	A07_07	A07_07	158	HOME ST	Lead	Lead	PEX	Copper	2018-08-29	2018-08-29	No		7	2018-08-30	2018-09-11												
5059292	A12_02	A12_02	480	NORTON	Lead	Lead	PEX	Copper	2018-08-29	2018-08-30	No		1	2018-10-26	2018-11-08												
5041979	A08_08	A08_08	6654	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	2018-08-29		No		4	2018-11-15	2019-01-08	1	2020-01-27	2020-02-03									
5018586	A07_07	A07_07	177.5	HOME ST	Lead	Lead	PEX	Copper	2018-08-29	2018-08-29	No		3	2018-09-06	2018-10-12												
5075561	A11_01	A11_01	4135	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2018-08-29	2018-08-29	No		7	2018-09-07	2018-10-12												
5018523	A07_07	A07_07	162	HOME ST	Lead	Lead	PEX	Copper	2018-08-29	2018-08-29	No		12	2018-08-31	2018-09-13												
5022414	Ops	BLG	311	54TH ST	Lead	Lead	PEX	Copper	2018-08-30	2019-02-27	Yes	Emergency	4.3	2018-10-08	2018-10-18	1	2019-02-28	2019-03-12									
5059378	A12_02	A12_02	467	NORTON ST	Lead	Copper	PEX	Not Replaced	2018-08-30		No		1	2018-10-04	2018-10-18												
5075564	A11_01	A11_01	4123	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2018-08-30	2018-08-30	No		1	2018-09-04	2018-10-12												
5018575	A07_07	A07_07	173	HOME ST	Lead	Copper	PEX	Not Replaced	2018-08-30		No		3.3	2018-12-21	2019-01-07												
5049489	A15_05_C	A15_05_C	4011	WINDSOR ST	Lead	Lead	PEX	Copper	2018-08-30	2018-08-30	No		6	2018-09-02	2018-10-12												
5075565	A11_01	A11_01	4119	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2018-08-30	2018-08-30	No		1	2018-09-16	2018-10-12												
5042276	A08_08	A08_08	6526	DALZELL PL	Lead	Lead	PEX	Copper	2018-08-30	2018-08-30	No		5	2018-09-01	2018-09-18												
5041982	A08_08	A08_08	6646	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	2018-08-31		No		4	2018-09-03	2018-09-18												
5059345	A12_02	A12_02	470	NORTON ST	Lead	Lead	PEX	Copper	2018-08-31	2018-09-14	Yes		8	2018-09-17	2018-10-12												
5041983	A08_08	A08_08	6640	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-31	2018-08-31	No		5.3	2018-10-26	2018-11-08												
5041984	A08_08	A08_08	6636	RIDGEVILLE ST	Lead	Lead	PEX	Copper	2018-08-31	2018-08-31	No		4	2018-09-23	2019-01-08												
5059342	A12_02	A12_02	466	NORTON ST	Lead	Lead	PEX	Copper	2018-08-31	2018-08-31	No		4	2018-09-04	2018-09-18												
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		1	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		1	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		4	2018-09-10	2018-10-12												
5122871	A10_M	A10_M	532	NORTH AVENUE	Lead	Copper	PEX	Not Replaced	2018-09-06		No		21	2018-09-06	2018-10-12												
5019840	Ops		5307	CARNEGIE 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
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		1	2018-09-28	2018-10-18												
5122339	A10_M	A10_M	324	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-09-25	2018-09-25	No		1	2018-10-01	2018-10-18												
5054109	A14_03	A14_03	50	S 20TH ST	Lead	Lead	PEX	Copper	2018-09-25	2018-09-25	No		7	2018-09-26	2018-11-01												
5066095	Ops	BLG	1315	ARCH ST	Lead	Lead	PEX	Not Replaced	2018-09-26		Yes	Emergency	16.2	2018-09-29	2018-10-18	1	2019-02-18	2019-03-12									
5054147	A14_03	A14_03	1927	SIDNEY ST	Lead	Lead	PEX	Copper	2018-09-26	2018-09-26	No		1	2018-09-30	2018-10-18												
5011483	A18_08	A18_08	346	SPAHR ST	Lead	Copper	PEX	Not Replaced	2018-09-26		No		4.4	2018-09-28	2018-10-18												
5054155	A14_03	A14_03	1918	SIDNEY ST	Lead	Copper	PEX	Not Replaced	2018-09-26		No		1	2018-10-10	2018-10-18												
5049641	A15_05_A	A15_05_A	955	KENNEBEC ST	Lead	Galvanized Iron	PEX	Copper	2018-09-26	2018-09-26	No		8	2018-10-07	2018-10-18												
5012023	A18_08	A18_08	371	SPAHR ST	Lead	Copper	PEX	Not Replaced	2018-09-27		No		1	2018-09-30	2018-10-18												
5011396	A18_08	A18_08	626	COLLEGE AVE	Lead	Copper	PEX	Not Replaced	2018-09-27		No		4.5	2018-10-01	2018-10-18												
5054157	A14_03	A14_03	1914	SIDNEY ST	Lead	Copper	PEX	Not Replaced	2018-09-27		No		18.4	2018-10-03	2018-10-18												
5122297	A10_M	A10_M	112	NORTH AVE	Lead	Lead	PEX	Copper	2018-09-27	2018-09-27	No		1.4	2018-10-10	2018-10-31												
5011393	A18_08	A18_08	620	COLLEGE AVE	Lead	Lead	PEX	Copper	2018-09-27	2018-09-27	No		29	2018-09-28	2018-10-18												
5056548	Ops		66	MILLBRIDGE ST	Lead	Copper	PEX	Not Replaced	2018-09-28		No	Emergency	1.86	2019-04-06	2019-04-16												
5011397	A18_08	A18_08	5901	ALDER ST	Lead	Copper	PEX	Not Replaced	2018-09-28		No		7.9	2018-09-29	2018-10-18												
5011500	A18_08	A18_08	341	SPAHR ST	Lead	Copper	PEX	Not Replaced	2018-09-28		No		21.6	2018-09-29	2018-10-18	4.7	2018-10-02	2018-10-18	7.1	2018-10-04	2018-10-18						
5054158	A14_03	A14_03	1912	SIDNEY ST	Lead	Lead	PEX	Copper	2018-09-28	2018-09-28	No		1	2018-09-29	2018-10-18												
5049661	A15_05_A	A15_05_A	895	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-01	2018-10-01	No		1	2018-10-02	2018-10-18												
5054156	A14_03	A14_03	1916	SIDNEY ST	Lead	Lead	PEX	Copper	2018-10-01	2018-10-01	No		7	2018-10-02	2018-10-18												
5011418	A18_08	A18_08	5816	ALDER ST	Lead	Lead	PEX	Copper	2018-10-01	2018-10-01	No		55	2018-10-03	2018-10-18												
5049595	A15_05_A	A15_05_A	888	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-01	2018-10-01	No		4	2018-10-02	2019-01-08												
5011482	A18_08	A18_08	342	SPAHR ST	Lead	Copper	PEX	Not Replaced	2018-10-01		No		1	2018-10-03	2018-10-18												
5049622	A15_05_A	A15_05_A	962	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-01	2018-10-01	No		54	2018-10-10	2018-10-18												
5035561	Ops		1303	SHADY AVE	Lead	Copper	PEX	Not Replaced	2018-10-02		No	Emergency	1	2018-10-03	2018-10-18												
5054165	A14_03	A14_03	1919	WRIGHTS WAY	Lead	Copper	PEX	Not Replaced	2018-10-02		No		4.8	2018-10-03	2018-10-17												
5122875	A10_M	A10_M	542	NORTH AVENUE	Lead	Lead	PEX	Copper	2018-10-02	2018-10-02	No		1	2018-10-03	2018-10-18												
5049655	A15_05_A	A15_05_A	915	KENNEBEC ST	Lead	Copper	PEX	Not Replaced	2018-10-02		No		1	2018-10-04	2018-10-18												
5040180	Ops		3308	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2018-10-03		No	Emergency	14	2018-10-11	2018-10-18												
5049660	A15_05_A	A15_05_A	897	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-03	2018-10-03	No		1	2018-10-08	2018-10-18												
5045770	A15_05_A	A15_05_A	858	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-03	2018-10-03	No		1	2018-10-06	2018-10-18												
5049645	A15_05_A	A15_05_A	945	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-03	2018-10-03	No		24	2018-10-06	2018-10-18	3.07	2019-02-12	2019-02-19									
5050481	A14_03	A14_03	2103	WHARTON ST	Lead	Lead	PEX	Copper	2018-10-03	2018-10-03	No		12	2018-10-08	2018-10-24												
5061705	Ops		667	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2018-10-04		No	Emergency	7.4	2018-10-05	2018-10-18												
5011490	A18_08	A18_08	367	SPAHR ST	Lead	Lead	PEX	Copper	2018-10-04	2018-10-04	No		5.6	2018-10-05	2018-10-18												
5045762	A15_05_A	A15_05_A	830	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-04	2018-10-04	No		1	2018-10-05	2018-10-18												
5049643	A15_05_A	A15_05_A	951	KENNEBEC ST	Lead	Lead	PEX	Copper	2018-10-04	2018-10-04	No		6.9	2018-10-24	2018-11-08												
5050486	A14_03	A14_03	2109	WHARTON 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 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
5021929	A17_07	A17_07	1207	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-14		No		1.2	2018-11-17	2018-12-05												
5070931	A16_06	A16_06	1517	BUENA VISTA ST	Lead	PEX	Copper	Not Replaced	2018-11-14		No		4	2018-11-18	2018-12-05												
5028790	A09_09	A09_09	1149	PAULSON AVE	Lead	Lead	PEX	Copper	2018-11-14	2018-11-14	No		6	2018-11-15	2018-11-27												
5021959	A17_07	A17_07	1400	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-15	2018-11-15	No		2.5	2018-11-19	2018-12-05												
5012394	A18_08	A18_08	5742	HOWE ST	Lead	Lead	PEX	Copper	2018-11-15	2018-11-15	No		4	2018-11-27	2018-12-05												
5011908	A18_08	A18_08	5803	WALNUT ST	Lead	Lead	PEX	Copper	2018-11-15	2018-11-15	No		29	2018-11-17	2018-12-05												
5021958	A17_07	A17_07	1404	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-15	2018-11-15	No		3.5	2018-11-18	2018-12-05												
5073741	Ops		400	MILROY ST	Lead	PEX	PEX	Not Replaced	2018-11-16		No	Emergency	6.7	2018-11-17	2018-12-05												
5024285	A17_07	A17_07	1436	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-16	2018-11-16	No		1.8	2018-11-20	2018-12-05												
5012425	A18_08	A18_08	5741	KENTUCKY AVE	Lead	Lead	PEX	Copper	2018-11-16	2018-11-23	Yes		6.9	2018-11-29	2018-12-10												
5012406	A18_08	A18_08	901	S NEGLEY AVE	Lead	Lead	PEX	Copper	2018-11-16	2018-11-16	No		4	2018-11-27	2018-12-05												
5021955	A17_07	A17_07	1414	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-16	2018-11-16	No		2.4	2018-11-19	2018-12-05												
5012397	A18_08	A18_08	5734	HOWE ST	Lead	Lead	PEX	Copper	2018-11-16	2018-11-16	No		2.5	2018-11-17	2018-12-05												
5072550	Ops	BLG	309	ELSDON ST	Lead	Lead	PEX	Copper	2018-11-17	2019-03-07	Yes	Emergency	99.9	2019-02-26	2019-03-04												
5021954	A17_07	A17_07	1418	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-19	2018-11-19	No		3.4	2018-11-22	2018-12-05												
5021943	A17_07	A17_07	1257	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-19		No		70	2018-11-25	2018-12-05	1	2019-03-25	2019-04-01									
5021945	A17_07	A17_07	1401	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-19		No		4	2018-11-24	2018-12-05												
5021953	A17_07	A17_07	1422	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-19		No		4	2018-11-23	2018-12-05												
5070504	A16_06	A16_06	708	ARMANDALE ST	Lead	Lead	Copper	Copper	2018-11-19	2018-11-19	No		4	2018-11-27	2018-12-05												
5029209	A09_09	A09_09	1118.5	PAULSON AVE	Lead	Lead	PEX	Copper	2018-11-19	2018-11-19	No		12.4	2018-11-20	2018-12-05												
5046499	Ops		4311	GLADSTONE ST	Lead	PEX	PEX	Not Replaced	2018-11-20		No	Emergency	4.4	2018-12-10	2019-01-04												
5012407	A18_08	A18_08	907	S NEGLEY AVE	Lead	Lead	PEX	Copper	2018-11-20	2018-11-20	No		5.08	2019-11-17	2019-12-03												
5024283	A17_07	A17_07	1444	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-20	2018-11-20	No		4	2018-11-23	2018-12-05												
5024298	A17_07	A17_07	1443	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-20	2018-11-20	No		1.9	2018-11-21	2018-12-05												
5024301	A17_07	A17_07	1609	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-20		No		4	2018-12-30	2019-01-11												
5070445	A16_06	A16_06	517	ARMANDALE ST	Lead	Lead	Copper	Copper	2018-11-20	2018-11-20	No		11	2018-11-20	2019-03-28												
5028805	A09_09	A09_09	6425	APPLE AVE	Lead	Copper	PEX	Not Replaced	2018-11-20		No		4	2018-11-23	2018-12-05												
5061059	Ops	BLG_01	165	OLYMPIA ST	Lead	Lead	PEX	Copper	2018-11-21	2019-08-19	Yes	Emergency	2.49	2019-09-02	2019-09-09												
5021950	A17_07	A17_07	1413	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-21		No		59	2018-11-28	2018-12-05	5.73	2019-02-15	2019-02-27									
5070384	A16_06	A16_06	522	ARMANDALE ST	Lead	Lead	Copper	Copper	2018-11-21	2018-11-21	No		4	2018-11-25	2018-12-05												
5021948	A17_07	A17_07	1407	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-21		No		4	2019-01-07	2019-01-11												
5070385	A16_06	A16_06	524	ARMANDALE ST	Lead	Copper	Copper	Not Replaced	2018-11-21		No		1.5	2018-12-21	2019-01-07												
5024295	A17_07	A17_07	1435	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	2018-11-23		No		3.5	2018-11-26	2018-12-05												
5012345	A18_08	A18_08	727	S NEGLEY AVE	Lead	Lead	PEX	Copper	2018-11-23	2018-11-23	No		28.4	2018-11-29	2018-12-05	4.56	2019-03-09	2019-03-19									
5024289	A17_07	A17_07	1424	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-11-23	2018-11-23	No		1.3	2018-12-17	2019-01-04												
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		2.7	2018-12-30	2019-01-11												
5025632																											

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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
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		2.4	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		2.7	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	2018-12-12	2018-12-12	No		4	2018-12-14	2019-01-04												
5071070	A16_06	A16_06	1401	ARCH ST	Lead	Lead	Copper	Copper	2018-12-12	2018-12-12	No		1	2018-12-13	2019-03-28												
5071040	A16_06	A16_06	303	JACKSONIA ST	Lead	Copper	Copper	Not Replaced	2018-12-12		No		2.13	2019-03-28	2019-04-16												
5069433	Ops	BLG_01	1806	RIALTO ST	Lead	Lead	PEX	Copper	2018-12-13	2019-04-18	Yes	Emergency	43	2018-12-14	2019-01-04	11.6	2019-04-19	2019-04-30	1.97	2019-11-03	2019-11-11						
5023534	A17_07	A17_07	1833	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-13	2018-12-13	No		28.8	2018-12-21	2019-01-07	13.5	2019-03-06	2019-03-12									
5071077	A16_06	A16_06	1404	ARCH ST	Lead	Copper	Copper	Not Replaced	2018-12-13		No		7.8	2018-12-14	2019-01-04												
5023908	A17_07	A17_07	1807	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-14	2018-12-14	No		5.9	2018-12-15	2019-01-04												
5023528	A17_07	A17_07	1824	DUFFIELD ST	Lead	Lead	PEX	Copper	2018-12-14	2018-12-14	No		24.8	2018-12-21	2019-01-07	12.6	2019-03-20	2019-03-26									
5070595	A16_06	A16_06	110	CARRINGTON ST	Lead	Copper	Copper	Not Replaced	2018-12-14		No		6.1	2018-12-19	2019-01-07												
5023498	A17_07	A17_07	1853	MORNINGSIDE AVE	Lead	Lead	PEX	Not Replaced	2018-12-15		Yes		17	2018-12-18	2019-03-28												
5023527	A17_07	A17_07	1820	DUFFIELD ST	Lead	Lead	PEX	Copper	2018-12-17	2018-12-17	No		26.4	2018-12-18	2019-01-07	421	2019-04-02	2019-04-10	34	2019-04-29	2019-05-07						
5023547	A17_07	A17_07	1832	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-17	2018-12-17	No		4	2018-12-19	2019-01-07												
5070668	A16_06	A16_06	318	JACKSONIA ST	Lead	Copper	Copper	Not Replaced	2018-12-17		No		1	2019-01-13	2019-01-28												
5058995	A12_02_A	A12_02_A	8	NORTON ST	Lead	Lead	PEX	Copper	2018-12-18	2018-12-18	No		5.9	2018-12-20	2019-01-07												
5069029	CEP	CEP	2104	STRAUBS LN	Lead	Lead	PEX	Copper	2018-12-18	2018-12-18	No		3	2018-12-19	2019-01-07												
5023543	A17_07	A17_07	1813	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-18	2018-12-18	No		16.2	2018-12-21	2019-01-07	4.51	2019-04-19	2019-04-24									
5070639	A16_06	A16_06	1525	SATURN WAY	Lead	Lead	Copper	Copper	2018-12-18	2018-12-18	No		2.5	2019-01-03	2019-01-11												
5063350	Ops		405	LORENZ AVE	Lead	Copper	PEX	Not Replaced	2018-12-19		No	Emergency	1.2	2018-12-21	2019-01-07												
5023938	A17_07	A17_07	1720	MORNINGSIDE AVE	Lead	Lead	PEX	Not Replaced	2018-12-19		Yes		90.4	2019-03-07	2019-03-19												
5058626	A12_02_A	A12_02_A	122	PROSPECT ST	Lead	Lead	PEX	Copper	2018-12-19	2018-12-19	No		9.5	2018-12-19	2019-01-07												
5058960	A12_02_A	A12_02_A	32	NORTON ST	Lead	Lead	PEX	Copper	2018-12-19	2018-12-19	No		9.6	2018-12-21	2019-01-07												
5023554	A17_07	A17_07	1850	MORNINGSIDE AVE	Lead	Lead	PEX	Copper	2018-12-19	2018-12-19	No		1.73	2019-01-13	2019-03-28												
5058967	A12_02_A	A12_02_A	35	NORTON ST	Lead	Copper	PEX	Not Replaced	2018-12-19		No		3.2	2018-12-19	2019-01-07												
5070640	A16_06	A16_06	402	ALPINE AVE	Lead	Lead	Copper	Copper	2018-12-19	2018-12-19	No		4	2018-12-20	2019-01-07												
5070706	A16_06	A16_06	26	JACKSONIA ST	Lead	Lead	Copper	Copper	2018-12-21	2018-12-21	No		250	2018-12-27	2019-03-28												
5024322	A17_07	A17_07	1640	DUFFIELD ST	Lead	Lead	PEX	Copper	2018-12-21	2018-12-21	No		1	2019-04-18	2019-04-24												
5070674	A16_06	A16_06	300	JACKSONIA ST	Lead	Lead	Copper	Copper	2018-12-21	2018-12-21	No		4.3	2018-12-26	2019-01-07												
5024323	A17_07	A17_07	1636	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-21		No		4	2018-12-22	2019-01-07												
5041613	Ops	BLG_01	618	WORTH ST	Lead	Lead	PEX	Copper	2018-12-22	2019-05-30	Yes	Emergency	26.4	2018-12-25	2019-01-07	9.17	2019-05-31	2019-06-25									
5024324	A17_07	A17_07	1634	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	2018-12-22		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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
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		Copper	Copper	2019-01-24	2019-01-24	No		5.9	2019-01-25	2019-02-04												
5070887	CEP	CEP	1511	COMPROMISE ST	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		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		1	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												
5078108	CEP	CEP	3443	MCCLEURE AVE	Lead	Copper	PEX	Not Replaced	2019-02-26		No		1	2019-02-27	2019-03-04												
5071376	CEP	CEP	2116	KOERNER AVE	Lead	Lead	PEX	Copper	2019-02-28	2019-02-28	No		1.29	2019-03-04	2019-03-19												
5121991	Ops		101	HOWARD STREET	Lead	Copper	PEX	Not Replaced	2019-03-04		No	Emergency	1	2019-03-07	2019-03-26												
5010540	Ops	Urgent LSLR	5412	ELMER ST	Lead	Lead	PEX	Copper	2019-03-06	2019-03-07	No	Emergency	3.31	2019-03-08	2019-03-26												
5056430	Ops	Urgent LSLR	442	WINTON ST	Lead	Lead	PEX	Copper	2019-03-12	2019-03-14	No	Emergency	1.5	2019-03-15	2019-03-26												
5024933	Ops		5716	CALLOWHILL ST	Lead	Copper	PEX	Not Replaced	2019-03-12		No	Emergency	1.82	2019-03-14	2019-03-26												
5074934	B02_01_A	B02_01_A	314	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-18	2019-03-18	No		69.1	2019-03-20	2019-03-26	1	2019-06-14	2019-06-25									
5074586	B02_01_A	B02_01_A	135	HEMPHILL ST	Lead	Lead	PEX	Copper	2019-03-18	2019-03-18	No		3.92	2019-03-20	2019-03-26												
5075195	B02_01_A	B02_01_A	3700	RUGGLES ST	Lead	Copper	PEX	Not Replaced	2019-03-18		No		10.6	2019-03-19	2019-03-26												
5060830	Ops		409.5	SWEETBRIAR ST	Lead	Copper	PEX	Not Replaced	2019-03-19		No	Emergency	1.66	2019-05-08	2019-05-21												
5068180	Ops		16	PROVINCE ST	Lead	Copper	PEX	Not Replaced	2019-03-19		No	Emergency	20	2019-03-19	2019-04-01												
5075071	B02_01_A	B02_01_A	331	DUNLAP ST	Lead	Copper	PEX	Not Replaced	2019-03-19		No		7.39	2019-03-20	2019-04-01												
5075054	B02_01_A	B02_01_A	116	DUNLAP ST	Lead	Copper	PEX	Not Replaced	2019-03-19		No		1	2019-03-21	2019-04-01												
5074926	B02_01_A	B02_01_A	122	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-19	2019-03-19	No		2.64	2019-03-21	2019-04-01												
5074569	B02_01_A	B02_01_A	44	HEMPHILL ST	Lead	Lead	PEX	Copper	2019-03-19	2019-03-19	No		1	2019-03-21	2019-04-01												
5074588	B02_01_A	B02_01_A	45	HEMPHILL ST	Lead	Copper	PEX	Not Replaced	2019-03-19		No		48.7	2019-03-20	2019-04-01	16.7	2019-07-14	2019-07-23	1	2019-10-13	2019-10-21						
5074935	B02_01_A	B02_01_A	331	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-19	2019-03-19	No		6.84	2019-03-21	2019-04-01												
5017270	Ops		4412	WOOLSLAYER WAY	Lead	Copper	PEX	Not Replaced	2019-03-20		No	Emergency	1.29	2019-03-21	2019-04-01												
5074927	B02_01_A	B02_01_A	124	RICHEY AVE	Lead	Lead	PEX	Copper	2019-03-20	2019-03-20	No		1	2019-05-18	2019-05-29												
5074581	B02_01_A	B02_01_A	41	DEFOE ST	Lead	Copper	PEX	Not Replaced	2019-03-20		No		1.69	2019-04-15	2019-04-24												
5074968	B02_01_A	B02_01_A	3720	RUGGLES ST	Lead	Lead	PEX	Copper	2019-03-20	2019-03-20	No		3.76	2019-04-02	2019-04-16												
5075043	B02_01_A	B02_01_A	3700	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-03-20	2019-03-20	No		3.78	2019-03-26	2019-04-01												
5075076	B02_01_A	B02_01_A	129	DUNLAP ST	Lead	Lead	PEX	Copper	2019-03-20	2019-04-10	Yes		611	2019-03-21	2019-04-01	2.89	2019-04-11	2019-04-24									
5024169	B01_07	B01_07	6917	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-20	2019-03-20	No		1	2019-03-29	2019-04-10												
5075075	B02_01_A	B02_01_A	131	DUNLAP ST	Lead	Lead	PEX	Copper	2019-03-20	2019-03-20	No		1.08	2019-03-22	2019-04-01												
5024182	B01_07	B01_07	6924	STANDISH ST	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No		2.71	2019-05-13	2019-05-21												
5024134	B01_07	B01_07	6909	BISHOP ST	Lead	Copper	PEX	Not Replaced	2019-03-21		No		5.18	2019-03-22	2019-04-01												
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 Water	Urgent LSLR	2	KLOPPER STREET	Lead	Lead	PEX	Copper	2019-03-21	2019-03-21	No	Emergency	1	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	1	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	1	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																		

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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
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		1	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		1	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		1	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		1	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	1	2019-09-22	2019-09-30						
5057266	B06_03_A	B06_03_A	411	ALLEN ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		1	2019-05-09	2019-06-25												
5021996	B01_07	B01_07	1407	JANCEY ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		3.53	2019-04-23	2019-04-30												
5057478	B06_03_A	B06_03_A	744	LILLIAN ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		175	2019-04-22	2019-04-30	1	2019-05-19	2019-05-29									
5033781	B04_09_B	B04_09_B	7214	TIOGA ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		8	2019-05-04	2019-05-15												
5074473	B02_01_A	B02_01_A	3882	EAST ST	Lead	Lead	PEX	Copper	2019-04-22	2019-04-22	No		1	2019-04-22	2019-04-30	1	2019-04-23	2019-04-30									
5057486	B06_03_A	B06_03_A	808	LILLIAN ST	Lead	Copper	PEX	Not Replaced	2019-04-22		No		1.69	2019-06-16	2019-07-08												
5022226	B01_07	B01_07	1101	CHISLETT ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		2.84	2019-05-01	2019-05-21												
5057479	B06_03_A	B06_03_A	746	LILLIAN ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		3.43	2020-06-24	2020-06-29												
5023729	B01_07	B01_07	7232	WITHERSPOON ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		3.03	2019-05-01	2019-05-15												
5075296	B02_01_A	B02_01_A	11	RIVERVIEW AVE	Lead	PEX	PEX	Not Replaced	2019-04-23		No		4.29	2019-04-29	2019-05-15												
5022222	B01_07	B01_07	1111	CHISLETT ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		1.51	2019-04-24	2019-04-30												
5023709	B01_07	B01_07	6911	MANISTEE ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		6.1	2019-04-28	2019-05-07												
5057112	B06_03_A	B06_03_A	743	LILLIAN ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		1.67	2019-04-24	2019-05-07												
5074892	B02_01_A	B02_01_A	3813	EAST ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-25	No		2.25	2019-06-17	2019-07-08												
5057489	B06_03_A	B06_03_A	816	LILLIAN ST	Lead	Lead	PEX	Copper	2019-04-23	2019-04-23	No		15.1	2019-04-24	2019-05-07												
5050150	Ops	Urgent LSLR	4224	SALINE ST	Lead	Lead	PEX	Copper	2019-04-24	2019-05-03	No	Emergency	1	2019-04-26	2019-05-07	2.64	2019-05-05	2019-05-15									
5050151	Ops	Urgent LSLR	4226	SALINE ST	Lead	Lead	PEX	Copper	2019-04-24	2019-05-03	No	Emergency	7.45	2019-05-05	2019-05-15	1	2019-06-19	2019-07-08									
5023716	B01_07	B01_07	19																								

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5022210	B01_07	B01_07	1141	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-01	2019-05-01	No		8.58	2019-05-04	2019-05-15												
5021984	B01_07	B01_07	1223	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-05-01		No		8.16	2019-05-07	2019-05-15												
5022024	B01_07	B01_07	1226	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-01	2019-05-01	No		4.12	2019-06-26	2019-07-08												
5022212	B01_07	B01_07	1137	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-01	2019-05-01	No		1	2019-05-03	2019-05-15												
5057201	B06_03_A	B06_03_A	853	LOYAL WAY	Lead	Lead	PEX	Copper	2019-05-02	2019-05-02	No		2.02	2019-05-18	2019-06-11												
5021993	B01_07	B01_07	1263	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-02	2019-05-02	No		1.36	2019-05-03	2019-05-15												
5007964	Ops		3352	SPRING WAY	Lead	Copper	PEX	Not Replaced	2019-05-02		No	Emergency	1.53	2019-05-07	2019-05-15												
5021985	B01_07	B01_07	1225	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-02	2019-05-02	No		2.01	2019-05-07	2019-05-21												
5075197	B02_01_A	B02_01_A	428	DUNLAP ST	Lead	Lead	PEX	Copper	2019-05-02	2019-05-02	No		2.03	2019-06-06	2019-06-25												
5022202	B01_07	B01_07	1161	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-02	2019-05-02	No		1.07	2019-05-03	2019-05-15												
5057138	B06_03_A	B06_03_A	815	INDUSTRY ST	Lead	Copper	PEX	Not Replaced	2019-05-02		No		3.4	2019-05-09	2019-05-21												
5022028	B01_07	B01_07	1208	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-05-02		No		1	2019-05-03	2019-05-15												
5024395	B01_07	B01_07	1652	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-03	2019-05-03	No		4.93	2019-06-23	2019-07-08												
5074925	B02_01_A	B02_01_A	120	RICHEY AVE	Lead	Copper	PEX	Not Replaced	2019-05-03		No		1.33	2019-05-04	2019-05-21												
5018505	Ops		173	46TH ST	Lead	Copper	PEX	Not Replaced	2019-05-06		No	Emergency	1	2019-06-06	2019-06-25												
5022015	B01_07	B01_07	1252	JANCEY ST	Lead	Lead	PEX	Not Replaced	2019-05-06		Yes		16	2019-07-01	2019-07-15												
5024159	B01_07	B01_07	1914	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		3.56	2019-05-07	2019-05-15												
5022031	B01_07	B01_07	1202	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		1	2019-05-10	2019-05-21												
5029895	B04_09_A	B04_09_A	6725	ROWAN ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		14.4	2019-05-06	2019-05-21												
5057015	B06_03_A	B06_03_A	324	MILLBRIDGE ST	Lead	Copper	PEX	Not Replaced	2019-05-06		No		1	2020-06-10	2020-06-22												
5074832	B02_01_A	B02_01_A	3751	BAYTREE ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		2.54	2019-05-07	2019-05-15												
5022201	B01_07	B01_07	1163	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		4.86	2019-05-10	2019-05-21												
5024158	B01_07	B01_07	1916	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		5.06	2019-05-10	2019-05-21												
5021981	B01_07	B01_07	1215	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		110	2019-05-07	2019-05-15												
5057154	B06_03_A	B06_03_A	842	INDUSTRY ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		3.49	2019-05-07	2019-05-21												
5029905	B04_09_A	B04_09_A	6638	ROWAN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-05-06	2019-05-06	No		1	2019-05-07	2019-05-21												
5030009	B04_09_A	B04_09_A	6908	CHAUCER ST	Lead	Lead	PEX	Copper	2019-05-06	2019-05-06	No		1	2019-06-23	2019-07-15												
5024160	B01_07	B01_07	1912	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-07	2019-05-07	No		2.16	2019-10-06	2019-10-15												
5022240	B01_07	B01_07	1198	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-07	2019-05-07	No		3.61	2019-05-11	2019-05-21												
5021978	B01_07	B01_07	1207	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-07	2019-05-07	No		20.4	2019-06-24	2019-07-15	1	2019-08-12	2019-09-03									
5076067	B02_01_A	B02_01_A	3943	EVERGREEN RD	Lead	Copper	PEX	Not Replaced	2019-05-07		No		4.16	2019-05-15	2019-05-29												
5022032	B01_07	B01_07	1185	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-07	2019-05-07	No		3.6	2019-06-10	2019-06-25												
5057253	B06_03_A	B06_03_A	846	LOYAL WAY	Lead	Lead	PEX	Copper	2019-05-07	2019-05-07	No		1	2019-06-12	2019-06-25												
5021980	B01_07	B01_07	1211	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-07	2019-05-07	No		1.24	2019-05-12	2019-05-29												
5074912	B02_01_A	B02_01_A	3740	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-05-08	2019-05-08	No		5.74	2019-05-10	2019-05-21												
5022036	B01_07	B01_07	1203	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-08	2019-05-08	No		2.39	2019-05-09	2019-05-21												
5074759	B02_01_A	B02_01_A	3845	EVERGREEN RD	Lead	Lead	PEX	Copper	2019-05-08	2019-05-08	No		1.32	2019-05-11	2019-05-29												

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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 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
5022175	B01_07	B01_07	1106	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-15	2019-05-15	No		1	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		1	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		1	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		1	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	Copper	Copper	2019-05-17	2019-05-20	No	Emergency	45.3	2019-05-22	2019-06-11	1	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		1	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		1	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	2019-05-20	2019-05-20	No		3.41	2019-05-25	2019-06-25												
5022044	B01_07	B01_07	1215	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		28.3	2019-05-21	2019-05-29	2.29	2019-09-09	2019-09-24									
5022280	B01_07	B01_07	1018	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		5.6	2019-05-31	2019-06-25												
5056546	B06_03_A	B06_03_A	72	MILLBRIDGE ST	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		6.53	2019-05-22	2019-06-11												
5022180	B01_07	B01_07	1124	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		1	2019-07-15	2019-07-23												
5133099	B01_07	B01_07	1423	CHISLETT	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		1.42	2019-05-23	2019-05-29												
5075095	B02_01_A	B02_01_A	3654	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-05-20		No		1.16	2019-07-18	2019-08-05												
5022277	B01_07	B01_07	1024	JANCEY ST	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		5.26	2019-05-25	2019-06-04												
5074641	B02_01_A	B02_01_A	3709	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		1	2019-05-21	2019-05-29												
5057437	B06_03_A	B06_03_A	955	INDUSTRY ST	Lead	Lead	PEX	Copper	2019-05-20	2019-05-20	No		3.78	2019-05-21	2019-05-29												
5029973	B04_09_A	B04_09_A	6932	MOUNT VERNON ST	Lead	Copper	PEX	Not Replaced	2019-05-20		No		5.89	2019-05-23	2019-06-11												
5074608	B02_01_A	B02_01_A	3725	PERRYSVILLE AVE	Lead	Copper	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 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
5024464	B01_07	B01_07	1610	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-29	2019-05-29	No		8.67	2019-05-30	2019-06-11												
5056690	B06_03_A	B06_03_A	740	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-05-29	2019-05-29	No		1	2019-06-01	2019-06-25												
5072757	B08_06_A	B08_06_A	339	LAFAYETTE AVE	Lead	Copper	PEX	Not Replaced	2019-05-29		No		1	2019-05-30	2019-06-25												
5030571	B04_09_A	B04_09_A	828	INWOOD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-05-29	2019-05-29	No		1	2019-07-26	2019-08-18												
5030560	B04_09_A	B04_09_A	826	INWOOD ST	Lead	Lead	PEX	Copper	2019-05-29	2019-05-29	No		36.4	2019-05-30	2019-06-11	6.55	2019-09-07	2019-09-24									
5056669	B06_03_A	B06_03_A	739	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-05-29	2019-05-29	No		5.08	2019-05-30	2019-06-25												
5056680	B06_03_A	B06_03_A	712	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-05-30	2019-05-31	No		1	2019-07-17	2019-07-29												
5024461	B01_07	B01_07	1616	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-30	2019-05-30	No		2.43	2019-06-01	2019-06-25												
5024469	B01_07	B01_07	1450	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-30	2019-05-30	No		4.8	2019-05-31	2019-06-25												
5055210	B06_03_A	B06_03_A	1018	E WARRINGTON AVE	Lead	Lead	PEX	Copper	2019-05-30	2019-05-30	No		12.3	2019-05-31	2019-06-25												
5072684	B08_06_A	B08_06_A	233	LAFAYETTE AVE	Lead	Lead	PEX	Copper	2019-05-30	2019-05-30	No		2.49	2019-07-17	2019-07-23												
5057185	B06_03_A	B06_03_A	852	PROCTOR WAY	Lead	Lead	PEX	Copper	2019-05-30	2019-05-30	No		10.6	2019-06-04	2019-06-25												
5025106	B01_07	B01_07	828	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-05-30		No		1	2019-06-01	2019-06-25												
5072760	B08_06_A	B08_06_A	325	LAFAYETTE AVE	Lead	Lead	PEX	Copper	2019-05-30	2019-05-30	No		3.85	2019-05-31	2019-06-25												
5042118	Ops		614	KIRTLAND ST	Lead	Copper	PEX	Not Replaced	2019-05-31		No	Emergency	5.05	2019-06-10	2019-06-25												
5025515	B01_07	B01_07	831	CHISLETT ST	Lead	Copper	PEX	Not Replaced	2019-05-31		No		1.37	2019-06-03	2019-06-25												
5022291	B01_07	B01_07	5311	WELLESLEY AVE	Lead	Lead	PEX	Copper	2019-05-31	2019-05-31	No		1	2019-07-27	2019-08-05												
5024931	CEP	CEP	1410	MELLON ST	Lead	Lead	PEX	Copper	2019-05-31	2019-05-31	No		8.75	2019-06-08	2019-06-25												
5056675	B06_03_A	B06_03_A	723	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-05-31	2019-05-31	No		3.52	2019-06-10	2019-06-25												
5024465	B01_07	B01_07	1608	CHISLETT ST	Lead	Lead	PEX	Copper	2019-05-31	2019-05-31	No		4.45	2019-06-12	2019-06-25												
5072685	B08_06_A	B08_06_A	229	LAFAYETTE AVE	Lead	Copper	PEX	Not Replaced	2019-05-31		No		1	2019-08-01	2019-08-26												
5030374	B04_09_A	B04_09_A	6958	MONTICELLO ST	Lead	Copper	PEX	Not Replaced	2019-05-31		No		4.61	2019-06-06	2019-06-25												
5070912	Ops	Urgent LSLR	153	HENDERSON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-02	2019-06-06	No	Emergency	1	2019-07-24	2019-08-05												
5072680	B08_06_A	B08_06_A	301	LAFAYETTE AVE	Lead	Lead	PEX	Copper	2019-06-03	2019-06-03	No		73.3	2019-06-13	2019-06-25	1.88	2019-07-18	2019-07-29									
5025103	B01_07	B01_07	852	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-03	2019-06-03	No		16.9	2019-06-05	2019-06-25	3.19	2019-10-24	2019-11-18									
5009036	CEP	CEP	3627	CHARLOTTE ST	Lead	Lead	PEX	Copper	2019-06-03	2019-06-03	No		1	2019-06-04	2019-06-25												
5056901	B06_03_A	B06_03_A	941	E WARRINGTON AVE	Lead	Copper	PEX	Not Replaced	2019-06-04		No		1	2019-06-07	2019-06-25												
5056682	B06_03_A	B06_03_A	718	EXCELSIOR ST	Lead	Lead	PEX	Copper	2019-06-04	2019-06-04	No		2.9	2019-06-04	2019-06-25												
5006999	CEP	CEP	816	CLARISSA ST	Lead	Lead	PEX	Copper	2019-06-04	2019-06-04	No		1.03	2019-06-05	2019-06-25												
5071446	B08_06_A	B08_06_A	2028	LETSCHÉ ST	Lead	Copper	PEX	Not Replaced	2019-06-04		No		4.92	2019-06-08	2019-06-25												
5025100	B01_07	B01_07	845	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-04	2019-06-04	No		4.69	2019-06-24	2019-07-08												
5030627	B04_09_A	B04_09_A	906	GERRITT ST	Lead	Copper	PEX	Not Replaced	2019-06-04		No		1	2019-06-05	2019-06-25												
5023976	B01_07	B01_07	1719	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-06-04		No		9.35	2019-06-05	2019-06-25												
5022303	B01_07	B01_07	905	CHISLETT ST	Lead	Lead	PEX	Copper	2019-06-04	2019-06-04	No		1	2019-06-10	2019-06-25												
5056322	CEP	CEP	431	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-04	2019-06-04	No		5.11	2019-06-05	2019-06-25												
5022302	B01_07	B01_07	903	CHISLETT ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-04	2019-06-04	No		2.69	2019-06-05	2019-06-25												
5072681	B08_06_A	B08_06_A	253	LAFAYETTE AVE	Lead	Lead	PEX	Copper	2019-06-04	2019-06-04	No		3.15	2019-06-05	2019-06-25												

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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
5056648	B06_03_A	B06_03_A	722	EUREKA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-12	2019-06-12	No		1	2019-07-05	2019-07-23												
5030630	B04_09_A	B04_09_A	6965	FRANKSTOWN AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-12	2019-06-12	No		4.86	2019-06-13	2019-07-01												
5030783	B04_09_A	B04_09_A	6934	KELLY ST	Lead	Lead	PEX	Copper	2019-06-12	2019-06-12	No		14.5	2019-06-15	2019-07-01												
5057388	B06_03_A	B06_03_A	931	CLIMAX ST	Lead	Lead	PEX	Copper	2019-06-12	2019-06-12	No		5.59	2019-06-14	2019-07-08												
5057387	B06_03_A	B06_03_A	939	CLIMAX ST	Lead	Lead	PEX	Copper	2019-06-12	2019-06-12	No		1.2	2019-06-16	2019-07-08												
5071533	B08_06_A	B08_06_A	2022	OSGOOD ST	Lead	Lead	PEX	Copper	2019-06-12	2019-06-12	No		2.93	2019-06-12	2019-07-01												
5071491	B08_06_A	B08_06_A	2010	MOUNTFORD AVE	Lead	Lead	PEX	Copper	2019-06-12	2019-06-12	No		1.18	2019-06-13	2019-07-01												
5022319	B01_07	B01_07	1035	CHISLETT ST	Lead	Copper	PEX	Not Replaced	2019-06-13		No		3.75	2019-06-15	2019-07-01												
5072676	B08_06_A	B08_06_A	246	LAFAYETTE AVE	Lead	Lead	PEX	Copper	2019-06-13	2019-06-13	No		1	2019-06-15	2019-07-01												
5056646	B06_03_A	B06_03_A	716	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-13	2019-06-13	No		1	2019-06-16	2019-07-01												
5056647	B06_03_A	B06_03_A	720	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-13	2019-06-13	No		1.81	2019-06-16	2019-07-01												
5055861	B06_03_A	B06_03_A	802	EUREKA ST	Lead	Copper	PEX	Not Replaced	2019-06-13		No		3.02	2019-06-16	2019-07-08												
5056837	B06_03_A	B06_03_A	909	E WARRINGTON AVE	Lead	Lead	PEX	Copper	2019-06-13	2019-06-13	No		29.6	2019-06-15	2019-07-08												
5030623	B04_09_A	B04_09_A	6951.5	FRANKSTOWN AVE	Lead	Copper	PEX	Not Replaced	2019-06-13		No		48.5	2019-06-13	2019-07-01												
5030622	B04_09_A	B04_09_A	6951	FRANKSTOWN AVE	Lead	Copper	PEX	Not Replaced	2019-06-13		No		5.7	2019-06-14	2019-07-01												
5024445	B01_07	B01_07	1700	CHISLETT ST	Lead	Lead	PEX	Copper	2019-06-14	2019-06-14	No		17.1	2019-06-15	2019-07-01												
5048681	CEP	CEP	223	MANSION ST	Lead	Copper	PEX	Not Replaced	2019-06-14		No		3.6	2019-06-16	2019-07-01												
5055733	B06_03_A	B06_03_A	613	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-17	2019-06-17	No		3.64	2019-06-17	2019-07-08												
5055852	B06_03_A	B06_03_A	917	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-17	2019-06-17	No		20.9	2019-06-18	2019-07-08	1	2019-11-20	2019-11-26									
5070154	B08_06_A	B08_06_A	1800	BELLEAU ST	Lead	Lead	PEX	Copper	2019-06-17	2019-06-17	No		1.44	2019-06-19	2019-07-08												
5070186	B08_06_A	B08_06_A	1624	MEADVILLE ST	Lead	Lead	PEX	Copper	2019-06-17	2019-06-17	No		1.63	2019-08-07	2019-08-12												
5024478	B01_07	B01_07	1619	VILLANOVA RD	Lead	Lead	PEX	Copper	2019-06-17	2019-06-17	No		11.1	2019-06-19	2019-07-08												
5067877	CEP	CEP	1216	SPRING GARDEN AVE	Lead	Copper	PEX	Not Replaced	2019-06-17		No		1	2019-06-18	2019-07-08												
5070768	B08_06_A	B08_06_A	1416	BOYLE ST	Lead	Copper	PEX	Not Replaced	2019-06-17		No		1.33	2019-06-18	2019-07-08												
5032248	B04_09_B	B04_09_B	7030	FRANKSTOWN AVE	Lead	Lead	PEX	Copper	2019-06-17	2019-06-17	No		15.4	2019-08-07	2019-08-12												
5023575	B01_07	B01_07	1841	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		2.58	2019-07-06	2019-07-15												
5024473	B01_07	B01_07	1601	VILLANOVA RD	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		3.12	2019-06-24	2019-07-08												
5022266	B01_07	B01_07	1001	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-06-18		No		1.12	2019-08-09	2019-08-26												
5056600	B06_03_A	B06_03_A	620	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		1.32	2019-08-09	2019-09-03												
5055789	B06_03_A	B06_03_A	909	MCLAIN ST	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		1.73	2019-06-20	2019-07-08												
5033182	B04_09_B	B04_09_B	7037	FRANKSTOWN AVE	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		34	2019-06-19	2019-07-08	4.25	2019-09-14	2019-09-24									
5068717	CEP	CEP	1214	HASLAGE AVE	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		3.21	2019-09-09	2019-09-24												
5024480	B01_07	B01_07	1629	VILLANOVA RD	Lead	Lead	PEX	Copper	2019-06-18	2019-06-18	No		37.3	2019-06-19	2019-07-08												
5000631	Ops	Urgent LSLR	1814	TUSTIN ST	Lead	Lead	PEX	Copper	2019-06-19	2019-06-20	No	Emergency	1.98	2019-06-21	2019-07-08												
5022326	B01_07	B01_07	1022	CHISLETT ST	Lead	Lead	PEX	Copper	2019-06-19	2019-06-19	No		2.18	2019-08-14	2019-08-26												
5030789	B04_09_A	B04_09_A	6918	KELLY ST	Lead	Lead	PEX	Copper	2019-06-19	2019-06-19	No		2.56	2019-07-02	2019-07-15												
5032244	B04_09_B	B04_09_B	7029	FRANKSTOWN AVE	Lead	Lead	PEX	Copper	2019-06-19	2019-06-19	No		5.98	2019-06-20	2019-07-08												
5070171	B08_06_A	B08_06_A	1816	MEADVILLE ST	Lead	Copper	PEX	Not Replaced	2019-06-19		No		1.78	2019-08-28	2019-09-09												
5121487	CEP	CEP	41	MARYLAND AVENUE	Lead	Lead	PEX	Copper	2019-06-19	2019-06-19	No		1	2019-07-05	2019-07-15												
5023572	B01_07	B01_07	1847	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		1.36	2019-08-20	2019-09-09												
5030705	B04_09_A	B04_09_A	6838	KELLY ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		4.23	2019-06-20	2019-07-08												
5022197	B01_07	B01_07	1175	CHISLETT ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		4.57	2019-06-21	2019-07-08												
5032245	B04_09_B	B04_09_B	7035	FRANKSTOWN AVE	Lead	PEX	PEX	Not Replaced	2019-06-20		No		2.74	2019-06-21	2019-07-15												
5055725	B06_03_A	B06_03_A	606	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		1	2019-06-21	2019-07-08												
5023592	B01_07	B01_07	1880	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		1	2019-06-22	2019-07-08												
5070829	B08_06_A	B08_06_A	1412	SANDUSKY ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		1.87	2019-06-25	2019-07-08												
5023719	B01_07	B01_07	7210	WITHERSPOON ST	Lead	Copper	PEX	Not Replaced	2019-06-20		No		2.87	2019-06-22	2019-07-08												
5022149	B01_07	B01_07	1173	JANCEY ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-06-20	2019-06-20	No		1.01	2019-07-22	2019-07-29												
5055726	B06_03_A	B06_03_A	608	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		48.3	2019-06-20	2019-07-08	2.1	2019-09-11	2019-09-24									
5023590	B01_07	B01_07	1876	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		1.24	2019-06-21	2019-07-08												
5027523	CEP	CEP	617	COLLINS AVE	Lead	Lead	PEX	Copper	2019-06-20	2019-06-20	No		3.31	2019-06-24	2019-07-08												
5023961	B01_07	B01_07	1803	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-21	2019-06-21	No		3.14	2019-06-26	2019-07-15												
5023591	B01_07	B01_07	1878	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-21	2019-06-21	No		1.4	2019-06-22	2019-07-08												
5055208	B06_03_A	B06_03_A	1014	E WARRINGTON AVE	Lead	Lead	PEX	Copper	2019-06-21	2019-06-21	No		1.34	2019-06-21	2019-07-08												
5024392	B01_07	B01_07	1642	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-21	2019-06-21	No		4.19	2019-08-27	2019-09-16												
5056599	B06_03_A	B06_03_A	618	EUREKA ST	Lead	Lead	PEX	Copper	2019-06-21	2019-06-21	No		2.81	2019-06-24	2019-07-08												
5024393	B01_07	B01_07	1644	JANCEY ST	Lead	Copper	PEX	Not Replaced	2019-06-21		No		1.5	2019-06-23	2019-07-08												
5071532	B08_06_A	B08_06_A	2025	OSGOOD ST	Lead	Lead	PEX	Copper	2019-06-21	2019-06-24	No		1.82	2019-06-27	2019-07-08												
5023569	B01_07	B01_07	1853	JANCEY ST	Lead	Lead	PEX	Copper	2019-06-21	2019-06-21	No		1	2019-06-22	2019-07-08												
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												

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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
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		2019-08-12												
5025784	CEP	CEP	901	MELLON ST	Lead	Lead	Copper	Copper	2019-06-27	2019-06-27	No		1	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	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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	2019-07-08	2019-07-08	No		4.41	2019-07-12	2019-07-23												
5063390	CEP	CEP	1023	RUE GRANDE VUE ST	Lead	Lead	PEX	Copper	2019-07-08	2019-07-08	No		9.35	2019-07-16	2019-07-23												
5056649	B06_03_A	B06_03_A	728	EUREKA ST	Lead	Lead	PEX	Copper	2019-07-08	2019-07-08	No		3.89	2019-07-08	2019-07-23												
5032909	B04_09_B	B04_09_B	7218	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-07-09	2019-07-09	No		14.7	2019-07-10	2019-07-29												
5072436	B08_06_B	B08_06_B	434	E BURGESS ST	Lead	Lead	PEX	Copper	2019-07-09	2019-07-09	No		6.13	2019-09-04	2019-09-09												
5033022	B04_09_B	B04_09_B	7119	MONTICELLO ST	Lead	Lead	PEX	Copper	2019-07-09	2019-07-09	No		1	2019-07-10	2019-07-15												
5042627	B07_05_A	B07_05_A	6349	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-09	2019-07-09	No		7.14	2019-07-10	2019-07-15												
5072409	B08_06_B	B08_06_B	429	E BURGESS ST	Lead	Lead	PEX	Copper	2019-07-09	2019-07-09	No		3.63	2019-07-14	2019-08-05												
5063645	CEP	CEP	901	WILHELM ST	Lead	Copper	PEX	Not Replaced	2019-07-09		No		1.23	2019-08-24	2019-09-03												
5042711	B07_05_A	B07_05_A	6348	CROMBIE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-07-09	2019-07-09	No		10.1	2019-07-18	2019-07-29												
5057355	B06_03_A	B06_03_A	61	E AMANDA AVE	Lead	Copper	PEX	Not Replaced	2019-07-09		No		22.1	2019-07-12	2019-07-23	1	2019-10-26	2019-11-04									
5056535	B06_03_A	B06_03_A	610	EDGEMONT ST	Lead	Lead	PEX	Copper	2019-07-10	2019-07-10	No		26.6	2019-07-10	2019-07-23	1	2019-10-19	2019-11-04									
5072308	B08_06_B	B08_06_B	125	E MCINTYRE AVE	Lead	Copper	PEX	Not Replaced	2019-07-10		No		4.91	2019-07-12	2019-07-29												
5033031	B04_09_B	B04_09_B	7153	MONTICELLO ST	Lead	Copper	PEX	Not Replaced	2019-07-10		No		1	2019-07-12	2019-07-23												
5032924	B04_09_B	B04_09_B	7319	MOUNT VERNON ST	Lead	Lead	PEX	Copper	2019-07-10	2019-07-10	No		185	2019-07-11	2019-07-23	7.27	2019-11-01	2019-11-11									
5072413	B08_06_B	B08_06_B	415	E BURGESS ST	Lead	Lead	PEX	Copper	2019-07-10	2019-07-10	No		1	2019-10-08	2019-10-15												
5057348	B06_03_A	B06_03_A	75	E AMANDA AVE	Lead	Lead	PEX	Copper	2019-07-10	2019-07-10	No		3.37	2019-07-14	2019-07-23												
5057341	B06_03_A	B06_03_A	1509	ARLINGTON AVE	Lead	Lead	PEX	Copper	2019-07-10	2019-07-10	No		1.7	2019-07-21	2019-07-29												
5038485	B07_05_A	B07_05_A	6329	CROMBIE ST	Lead	Lead	PEX	Copper	2019-07-10	2019-07-10	No		32.5	2019-07-11	2019-07-23	11.1	2019-10-26	2019-11-04									
5056752	B06_03_A	B06_03_A	839	CERES WAY	Lead	Lead	PEX	Copper	2019-07-11	2019-07-11	No		1.55	2019-07-14	2019-07-23												
5072726	B08_06_B	B08_06_B	2328	MAPLE AVE	Lead	Lead	PEX	Copper	2019-07-11	2019-07-11	No		2.35	2019-07-15	2019-07-23												
5057364	B06_03_A	B06_03_A	947	FREELAND ST	Lead	Lead	PEX	Copper	2019-07-11	2019-07-11	No		3.72	2019-08-05	2019-08-12												
5072420	B08_06_B	B08_06_B	313	E MCINTYRE AVE	Lead	Lead	PEX	Copper	2019-07-11	2019-07-11	No		59.3	2019-07-12	2019-07-23	2.26	2019-08-08	2019-08-26									
5072415	B08_06_B	B08_06_B	401	E BURGESS ST	Lead	Copper	PEX	Not Replaced	2019-07-11		No		1	2019-07-17	2019-07-23												
5033289	B04_09_B	B04_09_B	7209	MONTICELLO ST	Lead	Lead	PEX	Copper	2019-07-11	2019-07-11	No		1.79	2019-07-13	2019-07-23												
5057400	B06_03_A	B06_03_A	1339	ARLINGTON AVE	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
5038488	B07_05_A	B07_05_A	6321	CROMBIE ST	Lead	Copper	PEX	Not Replaced	2019-07-17		No		1	2019-07-18	2019-07-29												
5072343	B08_06_B	B08_06_B	2445	HAZELTON ST	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		1	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	1	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	1	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		1	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	1	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		1	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		PEX	Copper	2019-07-19	2019-07-19	No		1	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		1	2019-07-31	2019-08-26												
5068896	Ops	Urgent LSLR	1148	ADMIRAL ST	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		1	2019-11-13	2019-11-26												
5032215	B04_09_B	B04_09_B	7025	FIELDRING 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		1	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		1	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	PERRYVILLE 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		1	2019-07-26	2019-08-05												
5057149	B06_03_A	B06_03_A	1312	ARLINGTON AVE	Lead																						

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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
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		1	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		1	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		1	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	MCINTYRE AVE	Lead	Copper	PEX	Not Replaced	2019-08-02		No		1	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		1	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	1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	2019-08-09	2019-08-18												

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	2019-09-16	2019-09-24												
5052299	CEP	CEP	2300	ECCLES ST	Lead	Lead	PEX	Copper	2019-08-20	2019-08-20	No		1	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	1	2020-03-16	2020-03-30									
5039299	B07_05_A	B07_05_A	6404	FORWARD AVE	Lead	Lead	PEX	Copper	2019-08-21	2019-08-21	No		3.														

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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
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	1	2020-02-10	2020-02-17									
5038996	B07_05_A	B07_05_A	6420	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		1	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		1	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		1	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	1	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	MONTICELLO ST	Lead	Lead	PEX	Copper	2019-09-03	2019-09-03	No		14.9	2019-09-04	2019-09-16	1	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	1	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		1	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</																				

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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
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		PEX	Copper	2019-09-12	2019-09-12	No		1.05	2019-09-14	2019-09-24	1	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		1	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		1	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		1	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	1	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		1	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		1	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		1	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		1	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																	

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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
5039448	B07_05_A	B07_05_A	6314	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		4.59	2019-09-29	2019-10-08												
5039207	B07_05_A	B07_05_A	6300	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		7.35	2019-10-01	2019-10-08												
5039178	B07_05_A	B07_05_A	6313	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		8.78	2019-10-16	2019-11-04												
5038471	B07_05_A	B07_05_A	2267	SHADY AVE	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		1	2019-09-28	2019-10-08												
5039176	B07_05_A	B07_05_A	6305	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		1.83	2019-09-27	2019-10-08												
5064366	B08_06_B	B08_06_B	1223	SUCCESS ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		9.72	2019-09-27	2019-10-08												
5059429	B05_02_A	B05_02_A	8	DE WITT ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		1.7	2019-11-11	2019-11-18												
5059081	B05_02_A	B05_02_A	327	SOUTHERN AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-09-26	2019-09-26	No		2.63	2019-09-29	2019-10-08												
5039196	B07_05_A	B07_05_A	6344	ALDERSON ST	Lead	Lead	PEX	Copper	2019-09-26	2019-09-26	No		1.04	2019-11-12	2019-11-18												
5039502	B07_05_A	B07_05_A	6309	MONITOR ST	Lead	Lead	PEX	Copper	2019-09-27	2019-09-27	No		2.45	2019-09-30	2019-10-08												
5038440	B07_05_A	B07_05_A	2270	SHADY AVE	Lead	Lead	PEX	Copper	2019-09-27	2019-09-27	No		3.12	2019-09-27	2019-10-08												
5050183	B07_05_B	B07_05_B	729	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-09-27	2019-09-27	No		8.49	2019-10-01	2019-10-08												
5050182	B07_05_B	B07_05_B	727	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-09-27	2019-09-27	No		3.55	2019-10-05	2019-10-15												
5065350	B08_06_B	B08_06_B	1118	SUCCESS ST	Lead	Lead	PEX	Copper	2019-09-30	2019-09-30	No		3.73	2019-10-02	2019-10-08												
5071648	B08_06_B	B08_06_B	845	MAGINN ST	Lead	Lead	PEX	Copper	2019-09-30	2019-09-30	No		3.28	2019-10-02	2019-10-08												
5071659	B08_06_B	B08_06_B	863	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-09-30	2019-09-30	No		1	2019-10-02	2019-10-08												
5065347	B08_06_B	B08_06_B	1206	SUCCESS ST	Lead	Copper	PEX	Not Replaced	2019-09-30		No		4.53	2019-10-02	2019-10-08												
5039445	B07_05_A	B07_05_A	6308	MONITOR ST	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		3.46	2019-10-07	2019-10-21												
5071662	B08_06_B	B08_06_B	867	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		2.79	2019-10-02	2019-10-08												
5059470	B05_02_A	B05_02_A	5	DE WITT ST	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		8.69	2019-10-02	2019-10-08												
5064368	B08_06_B	B08_06_B	1120	MARVISTA ST	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		4.38	2020-11-24	2020-12-08												
5071646	B08_06_B	B08_06_B	849	MAGINN ST	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		2.95	2019-10-04	2019-10-15												
5069738	B08_06_B	B08_06_B	1911	B ST	Lead	Copper	PEX	Not Replaced	2019-10-01		No		1	2019-11-20	2019-11-26												
5050185	B07_05_B	B07_05_B	723	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		6	2019-12-07	2020-01-10												
5039548	B07_05_A	B07_05_A	2701	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-01	2019-10-01	No		2.13	2019-10-02	2019-10-08												
5038468	B07_05_A	B07_05_A	2275	SHADY AVE	Lead	Copper	PEX	Not Replaced	2019-10-01		No		1.61	2019-10-04	2019-10-15												
5039457	B07_05_A	B07_05_A	6346	MONITOR ST	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		13.1	2019-10-06	2019-10-15	10.6	2020-01-28	2020-02-03	1.61	2020-04-04	2020-04-13						
5033765	B04_09_B	B04_09_B	7232	HAMILTON AVE	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		1	2019-11-20	2019-11-26												
5039303	B07_05_A	B07_05_A	6423	FORWARD AVE	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		1.15	2019-10-03	2019-10-08												
5071205	B08_06_B	B08_06_B	2133	HOLYOKE ST	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		7.77	2019-10-06	2019-10-15												
5071706	B08_06_B	B08_06_B	2536	IRWIN AVE	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		4.69	2019-10-02	2019-10-15												
5039542	B07_05_A	B07_05_A	2737	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-02	2019-10-03	No		28.5	2019-10-04	2019-10-15	1	2020-02-12	2020-02-24									
5059042	B05_02_A	B05_02_A	64	SOUTHERN AVE	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		5.7	2019-10-03	2019-10-08												
5080474	CEP_02	CEP_02	1254	GOE AVE	Lead	Lead	PEX	Copper	2019-10-02	2019-10-01	No		1	2019-11-19	2019-11-26												
5071681	B08_06_B	B08_06_B	633	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		1	2019-10-19	2019-11-11												
5050188	B07_05_B	B07_05_B	715	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-02	2019-10-02	No		5.9	2019-10-05	2019-10-15												
5058615	B05_02_A	B05_02_A	50	SOUTHERN																							

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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
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		1	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		1	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		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		1	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		No		1	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	1	2020-02-02	2020-02-24									
5050172	B07_05_B	B07_05_B	755	MONTCLAIR ST	Lead	Copper	PEX	Not Replaced	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		No		1	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		1	2019-10-19	2019-10-29												
5051933	CEP	CEP	2510	BURHAM ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-14	2019-10-14	No		3.28	2019-10-24	2019-11-04												
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		Yes		1	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		1	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		1	2019-10-31	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		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		No		1	2019-10-19	2019-10-29												
5071902	B02_01_B	B02_01_B	2641	NORWOOD AVE	Lead	Copper	PEX	Not Replaced	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</																			

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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
5073938	B02_01_B	B02_01_B	353	MARSHALL AVE	Lead	Copper	PEX	Not Replaced	2019-10-23		No		21.6	2019-10-30	2019-11-11												
5073937	B02_01_B	B02_01_B	351	MARSHALL AVE	Lead		PEX	Copper	2019-10-23	2019-10-23	No		2000	2019-10-27	2019-11-11	1.5	2019-11-08	2019-11-18									
5008643	CEP_02	CEP_02	3429	BETHOVEN ST	Lead	Lead	PEX	Copper	2019-10-23	2019-10-23	No		30.1	2019-10-24	2019-11-11	25.3	2020-02-04	2020-02-17	1.26	2020-04-29	2020-05-04						
5059549	B05_02_A	B05_02_A	34	RUTH ST	Lead	Lead	PEX	Copper	2019-10-23	2019-10-23	No		7	2019-12-10	2020-01-10												
5040033	B07_05_A	B07_05_A	4307	LUDWICK ST	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		1	2019-10-27	2019-11-04												
5060767	B05_02_B	B05_02_B	506	AUGUSTA ST	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		1.58	2019-10-28	2019-11-04												
5040149	B07_05_A	B07_05_A	3117	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		7.33	2019-10-28	2019-11-11												
5046860	B07_05_B	B07_05_B	648	MONTCLAIR ST	Lead	Copper	PEX	Not Replaced	2019-10-24		No		7.81	2019-10-28	2019-11-04												
5059552	B05_02_A	B05_02_A	42	RUTH ST	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		6.14	2019-10-25	2019-11-04												
5046424	B07_05_B	B07_05_B	911	DEELY ST	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		3.1	2019-10-26	2019-11-04												
5073933	B02_01_B	B02_01_B	337	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		8.74	2019-10-26	2019-11-04												
5046861	B07_05_B	B07_05_B	646	MONTCLAIR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-24	2019-10-24	No		4.1	2019-10-28	2019-11-04												
5059102	B05_02_A	B05_02_A	61	GREENBUSH ST	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		2.61	2019-10-25	2019-11-04												
5060768	B05_02_B	B05_02_B	504	AUGUSTA ST	Lead	Copper	PEX	Not Replaced	2019-10-24		No		1	2019-10-26	2019-11-11												
5075328	B02_01_B	B02_01_B	163	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-24	2019-10-24	No		6.18	2019-10-28	2019-11-04												
5073909	B02_01_B	B02_01_B	2717	NORWOOD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-25	2019-10-25	No		1	2019-10-25	2019-11-04												
5040104	B07_05_A	B07_05_A	3156	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-10-25		No		1	2019-10-27	2019-11-04												
5060799	B05_02_B	B05_02_B	445	AUGUSTA ST	Lead	Lead	PEX	Copper	2019-10-25	2019-10-25	No		7.17	2019-10-26	2019-11-04												
5039148	B07_05_A	B07_05_A	6337	BURCHFIELD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-25	2019-10-25	No		282	2019-10-26	2019-11-04												
5040108	B07_05_A	B07_05_A	3140	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-10-25		No		1	2019-10-27	2019-11-04												
5073441	B02_01_B	B02_01_B	137	WATSON BLVD	Lead	Lead	PEX	Copper	2019-10-25	2019-10-25	No		1.59	2020-06-12	2020-06-22												
5061724	B05_02_A	B05_02_A	212	JASPER ST	Lead	Lead	PEX	Copper	2019-10-25	2019-10-25	No		30.8	2019-10-26	2019-11-04												
5046859	B07_05_B	B07_05_B	652	MONTCLAIR ST	Lead	Lead	PEX	Copper	2019-10-25	2019-10-25	No		6.88	2019-10-26	2019-11-04												
5046826	B07_05_B	B07_05_B	629	MONTCLAIR ST	Lead	Copper	PEX	Not Replaced	2019-10-26		No		8.14	2019-10-28	2019-11-26												
5060763	B05_02_B	B05_02_B	522	AUGUSTA ST	Lead	Copper	PEX	Not Replaced	2019-10-28		No		1	2019-11-08	2019-11-18												
5060797	B05_02_B	B05_02_B	435	AUGUSTA ST	Lead	Copper	PEX	Not Replaced	2019-10-28		No		1	2019-10-29	2019-11-04												
5045604	B07_05_B	B07_05_B	865	DEELY ST	Lead	Lead	PEX	Copper	2019-10-28	2019-10-28	No		1	2019-11-06	2019-12-31												
5039689	B07_05_A	B07_05_A	6414	LANDVIEW RD	Lead	Lead	PEX	Copper	2019-10-28	2019-10-28	No		1.45	2019-10-29	2019-11-04												
5071866	B02_01_B	B02_01_B	2648	NORWOOD ST	Lead	Lead	PEX	Copper	2019-10-28	2019-10-28	No		1	2019-10-30	2019-11-04												
5014193	CEP_02	CEP_02	375	W PENN PL	Lead	Lead	PEX	Copper	2019-10-28	2019-10-28	No		5.39	2019-10-29	2019-11-04												
5073908	B02_01_B	B02_01_B	2721	NORWOOD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-10-28	2019-10-28	No		22.4	2019-11-01	2019-11-11												
5073403	B02_01_B	B02_01_B	3309	DELAWARE ST	Lead	Lead	PEX	Copper	2019-10-28	2019-10-28	No		2.92	2019-11-16	2019-11-26												
5039165	B07_05_A	B07_05_A	6352	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-10-29	2019-10-29	No		15.9	2019-10-30	2019-11-04												
5060794	B05_02_B	B05_02_B	427	AUGUSTA ST	Lead	Lead	PEX	Copper	2019-10-29	2019-10-29	No		1.7	2019-11-04	2019-11-11												
5060511	B05_02_B	B05_02_B	353	AUGUSTA ST	Lead	Lead	PEX	Copper	2019-10-29	2019-10-29	No		1	2019-10-30	2019-11-11												
5042770	B07_05_A	B07_05_A	125	WESTLAND DR	Lead	Lead	PEX	Copper	2019-10-29	2019-10-29	No		2.63	2019-11-03	2019-11-11												
5039164	B07_05_A	B07_05_A	6354	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2019-10-29	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 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
5073555	B02_01_B	B02_01_B	3218	ORLEANS ST	Lead	Copper	PEX	Not Replaced	2019-11-05		No		1.3	2019-11-08	2019-11-18												
5014146	CEP_02	CEP_02	351	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2019-11-05	2019-11-05	No		2.08	2019-11-11	2019-11-18												
5060559	B05_02_B	B05_02_B	329	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	2019-11-05		Yes		1	2019-11-07	2019-11-18												
5015232	CEP_02	CEP_02	522	OSCEOLA ST	Lead	Lead	PEX	Copper	2019-11-06	2019-11-06	No		1	2019-11-07	2019-11-18												
5061382	B05_02_A	B05_02_A	515	BOGGS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-11-06	2019-11-06	No		1	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	1	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	1	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	1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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	B																									

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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
5018500	Ops	Urgent LSLR	183	46TH ST	Lead	Lead	PEX	Copper	2019-11-20	2019-11-21	No	Emergency	3.83	2019-11-24	2019-12-03												
5058601	A02_02	CEP	219	NATCHEZ ST	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		75.6	2019-11-22	2019-12-03												
5050111	B07_05_B	B07_05_B	3452	BEECHWOOD BLVD	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		6.64	2019-11-21	2019-12-03												
5039384	B07_05_A	B07_05_A	3039	SHADY AVE	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		1.1	2019-11-21	2019-12-03												
5073401	B02_01_B	B02_01_B	3319	PORTOLA ST	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		46	2019-11-25	2020-01-07	1	2020-02-17	2020-02-24									
5060289	B05_02_B	B05_02_B	228	EDITH ST	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		1	2020-01-23	2020-02-11												
5060568	B05_02_B	B05_02_B	207	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2019-11-20	2019-11-20	No		511	2019-11-21	2020-01-07	1.6	2020-02-13	2020-02-24									
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		1	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	BEEHNER 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		1	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		1	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		1	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	1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	2019-11-27	2020-01-07												
5073407	B02_01_B	B02_01_B	3232	PERRYVILLE 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	2019-1																		

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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
5017440	CEP_02	CEP_02	4037	CABINET ST	Lead	Lead	PEX	Copper	2019-12-04	2019-12-04	No		1	2020-01-23	2020-02-24												
5073506	B02_01_B	B02_01_B	3121	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	2019-12-04		No		1	2020-01-23	2020-02-03												
5060279	B05_02_B	B05_02_B	202	EDITH ST	Lead	Lead	PEX	Copper	2019-12-04	2019-12-04	No		2.69	2020-02-01	2020-02-17												
5060283	B05_02_B	B05_02_B	242	EDITH ST	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		7.24	2020-01-31	2020-02-11												
5050274	B07_05_B	B07_05_B	731	HAZELWOOD AVE	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		5	2019-12-09	2020-01-14												
5050044	B07_05_B	B07_05_B	4205	WINDSOR ST	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		1	2019-12-07	2020-01-10												
5049943	B07_05_B	B07_05_B	726	MELBOURNE ST	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		1	2019-12-06	2020-01-10												
5049847	B07_05_B	B07_05_B	4124	SALINE ST	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		1	2020-01-06	2020-01-10												
5073698	B02_01_B	B02_01_B	2927	NORWOOD AVE	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		8	2019-12-07	2020-01-10												
5060110	B05_02_B	B05_02_B	312	FINGAL ST	Lead	Lead	PEX	Copper	2019-12-05	2019-12-05	No		212	2020-01-21	2020-02-03	1	2020-02-02	2020-02-17									
5060134	B05_02_B	B05_02_B	319	FINGAL ST	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		9	2019-12-08	2020-01-14												
5050290	B07_05_B	B07_05_B	760	HAZELWOOD AVE	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		1	2019-12-08	2020-01-14												
5039995	B07_05_B	B07_05_B	4315	SALINE ST	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		1	2019-12-11	2020-01-10												
5073648	B02_01_B	B02_01_B	157	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		1	2019-12-09	2020-01-07												
5049916	B07_05_B	B07_05_B	787	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		1.21	2019-12-10	2020-01-08												
5049828	B07_05_B	B07_05_B	3552	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-12-06		No		1	2019-12-11	2020-01-10												
5073650	B02_01_B	B02_01_B	205	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		3	2019-12-11	2020-01-10												
5050046	B07_05_B	B07_05_B	4211	WINDSOR ST	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		6	2019-12-07	2020-01-07												
5060133	B05_02_B	B05_02_B	323	FINGAL ST	Lead	Copper	PEX	Not Replaced	2019-12-06		No		2	2019-12-07	2020-01-10												
5073729	B02_01_B	B02_01_B	3021	VIOLA ST	Lead	Lead	PEX	Copper	2019-12-06	2019-12-06	No		25	2019-12-10	2020-01-14	1	2020-03-08	2020-03-16									
5073528	B02_01_B	B02_01_B	3106	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-12-09	2019-12-09	No		1	2020-01-13	2020-01-22												
5073694	B02_01_B	B02_01_B	3001	MOUNT ALLISTER RD	Lead	Lead	PEX	Copper	2019-12-09	2019-12-09	No		1	2020-01-29	2020-02-17												
5017063	Ops	Urgent LSLR	4210	POST ST	Lead	Lead	PEX	Copper	2019-12-10	2019-12-13	No	Emergency	1	2019-12-16	2020-01-10												
5050139	B07_05_B	B07_05_B	3522	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	2019-12-10		No		2	2019-12-11	2020-01-14												
5060108	B05_02_B	B05_02_B	322	FINGAL ST	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		13	2019-12-14	2020-01-10												
5046382	B07_05_B	B07_05_B	717	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		1	2019-12-11	2020-01-14												
5073644	B02_01_B	B02_01_B	141	MARSHALL AVE	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		2	2019-12-11	2020-01-10												
5059532	B05_02_A	B05_02_A	301	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2019-12-10		No		1.59	2020-01-20	2020-01-29												
5060455	B05_02_B	B05_02_B	250	EDITH ST	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		1	2019-12-11	2020-01-10												
5073678	B02_01_B	B02_01_B	2932	NORWOOD AVE	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		6	2019-12-10	2020-01-10												
5040001	B07_05_B	B07_05_B	4349	SALINE ST	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		1.39	2020-01-10	2020-01-22												
5040000	B07_05_B	B07_05_B	4345	SALINE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-12-10	2019-12-10	No		12	2019-12-11	2020-01-10	1	2020-03-14	2020-03-25									
5073952	B02_01_B	B02_01_B	307	HAWKINS AVE	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		5	2019-12-12	2020-01-10												
5049760	B07_05_B	B07_05_B	4042	MURRAY AVE	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		2	2019-12-11	2020-01-14												
5060485	B05_02_B	B05_02_B	249	EDITH ST	Lead	Lead	PEX	Copper	2019-12-10	2019-12-10	No		1	2020-05-16	2020-05-27												
5055026	Ops	B06_03_B	1907	ST PAUL ST	Lead	Copper	PEX	Not Replaced	2019-12-11		No	Emergency	1	2019-12-18	2020-01-08												
5045728	B07_05_B	B07_05_B	848	LILAC ST	Lead	Lead	PEX	Copper	2019-12-11	2019-12-11	No		1.27	2020-03-0													

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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
5073661	B02_01_B	B02_01_B	141	OAK PARK RD	Lead	Lead	PEX	Copper	2019-12-17	2019-12-17	No		1	2020-01-02	2020-01-08												
5045051	B07_05_B	B07_05_B	821	FLEMINGTON ST	Lead	Lead	PEX	Copper	2019-12-17	2019-12-17	No		1.71	2020-02-14	2020-02-24												
5073703	B02_01_B	B02_01_B	224	MARSHALL AVE	Lead	Copper	PEX	Not Replaced	2019-12-17		No		1	2019-12-19	2020-01-10												
5049887	B07_05_B	B07_05_B	752	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-17	2019-12-17	No		3	2019-12-20	2020-01-10												
5059140	B05_02_A	B05_02_A	126	BOGGS AVE	Lead	Copper	PEX	Not Replaced	2019-12-17		No		1.16	2020-01-10	2020-01-22												
5060361	B05_02_B	B05_02_B	345	FINGAL ST	Lead	Lead	PEX	Copper	2019-12-17	2019-12-17	No		1	2019-12-19	2020-01-10												
5050300	B07_05_B	B07_05_B	782	HAZELWOOD AVE	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		1	2019-12-19	2020-01-08												
5060350	B05_02_B	B05_02_B	356	FINGAL ST	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		4.99	2020-02-04	2020-02-17												
5059096	B05_02_A	B05_02_A	206	BOGGS AVE	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		4	2019-12-20	2020-01-10												
5060843	B05_02_B	B05_02_B	441	SWEETBRIAR ST	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		1	2019-12-25	2020-01-08												
5045055	B07_05_B	B07_05_B	813	FLEMINGTON ST	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		1	2019-12-23	2020-01-10												
5073773	B02_01_B	B02_01_B	41	E MARSHALL AVE	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		188	2019-12-19	2020-01-10	10.5	2020-01-23	2020-02-03	14.1	2020-04-06	2020-04-13	2.99	2020-10-06	2020-10-12			
5049897	B07_05_B	B07_05_B	721	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-18	2019-12-18	No		1.45	2020-02-03	2020-02-11												
5060831	B05_02_B	B05_02_B	409	SWEETBRIAR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-12-18	2019-12-18	No		4.33	2020-02-07	2020-02-17												
5059149	B05_02_A	B05_02_A	151	BOGGS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-12-18	2019-12-18	No		1	2019-12-20	2020-01-08												
5049852	B07_05_B	B07_05_B	4106	SALINE ST	Lead	Lead	PEX	Copper	2019-12-19	2019-12-19	No		4.5	2019-12-23	2020-01-08												
5073482	B02_01_B	B02_01_B	3076	MARSHALL RD	Lead	Lead	PEX	Copper	2019-12-19	2019-12-19	No		1	2020-01-14	2020-01-29												
5060286	B05_02_B	B05_02_B	234	EDITH ST	Lead	Lead	PEX	Copper	2019-12-19	2019-12-19	No		6	2019-12-20	2020-01-10												
5045049	B07_05_B	B07_05_B	831	FLEMINGTON ST	Lead	Lead	PEX	Copper	2019-12-19	2019-12-19	No		31.9	2020-02-14	2020-03-09	8.62	2020-04-07	2020-04-13									
5073775	B02_01_B	B02_01_B	2916	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-12-19	2019-12-19	No		1.74	2020-01-31	2020-03-02												
5060854	B05_02_B	B05_02_B	266	PLYMOUTH ST	Lead	Copper	PEX	Not Replaced	2019-12-19		No		1	2019-12-20	2020-01-10												
5046805	B07_05_B	B07_05_B	616	LORETTA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-12-19	2019-12-19	No		202	2019-12-20	2020-01-08	1	2019-12-21	2020-01-10									
5045053	B07_05_B	B07_05_B	817	FLEMINGTON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-12-20	2019-12-20	No		1.07	2020-05-04	2020-05-11												
5050277	B07_05_B	B07_05_B	725	HAZELWOOD AVE	Lead	Lead	PEX	Copper	2019-12-20	2019-12-20	No		3.85	2019-12-21	2020-01-08												
5073483	B02_01_B	B02_01_B	3080	MARSHALL RD	Lead	Lead	PEX	Copper	2019-12-20	2019-12-20	No		1	2020-09-24	2020-10-05												
5060366	B05_02_B	B05_02_B	369	FINGAL ST	Lead	Lead	PEX	Copper	2019-12-20	2019-12-20	No		4	2019-12-21	2020-01-10												
5050149	B07_05_B	B07_05_B	4220	SALINE ST	Lead	Lead	PEX	Copper	2019-12-20	2019-12-20	No		1	2019-12-23	2020-01-10												
5046808	B07_05_B	B07_05_B	628	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-20	2019-12-20	No		1	2020-01-09	2020-01-22												
5046813	B07_05_B	B07_05_B	650	LORETTA ST	Lead	Lead	PEX	Copper	2019-12-21	2019-12-21	No		30	2019-12-22	2020-01-07												
5022517	Ops	Urgent LSLR	5336	BUTLER ST	Lead	Lead	PEX	Copper	2019-12-23	2020-01-08	No	Emergency	1	2020-01-10	2020-01-22												
5073982	B02_01_B	B02_01_B	118	E KENNEDY AVE	Lead	Lead	PEX	Copper	2019-12-23	2019-12-23	No		1	2020-02-11	2020-03-02												
5050256	B07_05_B	B07_05_B	787	HAZELWOOD AVE	Lead	Copper	PEX	Not Replaced	2019-12-23		No		1	2019-12-27	2020-01-08												
5073664	B02_01_B	B02_01_B	2945	OAK PARK RD	Lead	Lead	PEX	Copper	2019-12-23	2019-12-23	No		1.18	2019-12-28	2020-01-08												
5073632	B02_01_B	B02_01_B	2945	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2019-12-23	2019-12-23	No		7	2019-12-24	2020-01-07												
5045064	B07_05_B	B07_05_B	812	MONTEIRO ST	Lead	Lead	PEX	Copper	2019-12-23	2019-12-23	No		5.57	2019-12-27	2020-01-08												
5050260	B07_05_B	B07_05_B	773	HAZELWOOD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2019-12-24	2019-12-24	No		1	2019-12-24	2020-01-08												
5055181	B0																										

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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	
5074028	B02_01_B	B02_01_B	2656	VETERAN ST	Lead	Lead	PEX	Copper	2020-01-07	2020-01-07	No		1	2020-02-20	2020-03-02													
5055048	B06_03_B	B06_03_B	1926	HURON ST	Lead	Copper	PEX	Not Replaced	2020-01-07		No		1	2020-01-07	2020-01-22													
5074079	B02_01_B	B02_01_B	2809	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2020-01-07	2020-01-07	No		7	2020-01-08	2020-01-10													
5073781	B02_01_B	B02_01_B	2846	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	2020-01-07	2020-01-07	No		23.2	2020-01-09	2020-01-22													
5060864	B05_02_B	B05_02_B	242	PLYMOUTH ST	Lead	Lead	PEX	Copper	2020-01-08	2020-01-08	No		3.13	2020-01-10	2020-01-22													
5061015	B05_02_B	B05_02_B	219	HALLOCK ST	Lead	Lead	PEX	Copper	2020-01-08	2020-01-08	No		1	2020-01-27	2020-02-03													
5060227	B05_02_B	B05_02_B	261	SEWARD ST	Lead	Lead	PEX	Copper	2020-01-08	2020-01-08	No		1	2020-01-10	2020-01-29													
5055044	B06_03_B	B06_03_B	1934	HURON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-01-08	2020-01-08	No		7.97	2020-01-12	2020-01-22													
5045715	B07_05_B	B07_05_B	816	LILAC ST	Lead	Lead	PEX	Copper	2020-01-08	2020-01-08	No		1	2020-01-09	2020-02-03													
5076352	B13_01_A	B13_01_A	2711	PITLER ST	Lead	Copper	PEX	Not Replaced	2020-01-08		No		14.5	2020-01-09	2020-01-22	3.65	2020-04-10	2020-04-20	3.65	2020-04-10	2020-04-20							
5049992	B07_05_B	B07_05_B	998	GREENFIELD AVE	Lead	Copper	PEX	Not Replaced	2020-01-08		No		1.4	2020-02-27	2020-03-02													
5060583	B05_02_B	B05_02_B	211	PLYMOUTH ST	Lead	Lead	PEX	Copper	2020-01-08	2020-01-08	No		1.01	2020-01-09	2020-01-22													
5055459	B06_03_B	B06_03_B	2603	S 18TH STREET EXT	Lead	Copper	PEX	Not Replaced	2020-01-09		No		4.42	2020-01-13	2020-01-22													
5076872	B13_01_A	B13_01_A	1307	SUPERIOR AVE	Lead	Lead	PEX	Copper	2020-01-09	2020-01-09	No		7.88	2020-02-26	2020-03-09													
5060089	B05_02_B	B05_02_B	1814	GREENLEAF ST	Lead	Lead	PEX	Copper	2020-01-09	2020-01-09	No		1	2020-02-26	2020-03-02													
5049553	B07_05_B	B07_05_B	964	LILAC ST	Lead	Lead	PEX	Copper	2020-01-09	2020-01-09	No		1	2020-01-10	2020-01-29													
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		1	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		1	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		1	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		1	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		1	2020-01-13	2020-02-03	1	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		1	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		1	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		1	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		1	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													

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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
5059802	B05_02_B	B05_02_B	458	HALLOCK ST	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No			1	2020-01-24	2020-02-03											
5003744	B14_03_A	B14_03_A	357	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No		19.3	2020-01-24	2020-02-03	1	2020-01-28	2020-02-03									
5055191	B06_03_B	B06_03_B	1009	ST MARTIN ST	Lead	Copper	PEX	Not Replaced	2020-01-23		No		1.09	2020-01-24	2020-02-17												
5079412	B13_01_A	B13_01_A	3109	SHADELAND AVE	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No		1.93	2020-01-24	2020-02-03												
5076488	B13_01_A	B13_01_A	3019	SHADELAND AVE	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No		1	2020-01-24	2020-02-03												
5004581	B14_03_B	B14_03_B	3436	DAWSON ST	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No		10.9	2020-01-25	2020-02-03												
5055200	B06_03_B	B06_03_B	1029	E WARRINGTON AVE	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No		1	2020-02-26	2020-03-02												
5004580	B14_03_B	B14_03_B	3438	DAWSON ST	Lead	Copper	PEX	Not Replaced	2020-01-23		No		9.38	2020-01-24	2020-02-03												
5003734	B14_03_A	B14_03_A	335	COLTART AVE	Lead	Copper	PEX	Not Replaced	2020-01-23		No		1	2020-01-26	2020-02-03												
5060606	B05_02_B	B05_02_B	182	ONEIDA ST	Lead	Lead	PEX	Copper	2020-01-23	2020-01-23	No		11.6	2020-01-26	2020-02-03	1.71	2020-04-24	2020-05-04									
5060918	B05_02_B	B05_02_B	305	ONEIDA ST	Lead Tailpiece	Lead	Copper Tailpiece	Copper	2020-01-23	2020-01-23	No		1	2020-01-24	2020-02-03												
5047310	Ops	Urgent LSLR	35	PRESCOTT ST	Lead	Lead	PEX	Copper	2020-01-25	2020-01-31	No	Emergency	1	2020-02-01	2020-02-17												
5055088	B06_03_B	B06_03_B	58	ROSCOE ST	Lead	Copper	PEX	Not Replaced	2020-01-27		No		1.59	2020-01-28	2020-02-17												
5060898	B05_02_B	B05_02_B	312	ONEIDA ST	Lead Tailpiece	Lead	Copper Tailpiece	Copper	2020-01-27	2020-01-27	No		1	2020-01-30	2020-02-11												
5076981	B13_01_B	B13_01_B	2617	STAYTON ST	Lead	Copper	PEX	Not Replaced	2020-01-27		No		1	2020-03-29	2020-04-06												
5055417	B06_03_B	B06_03_B	2666	S 18TH STREET EXT	Lead	Lead	PEX	Copper	2020-01-27	2020-01-28	No		1	2020-01-29	2020-02-03												
5003743	B14_03_A	B14_03_A	353	COLTART AVE	Lead	Lead	PEX	Copper	2020-01-27	2020-01-27	No		7.58	2020-01-28	2020-02-03												
5078655	B13_01_A	B13_01_A	1372	OAKHILL ST	Lead	Copper	Copper	Not Replaced	2020-01-27		No		14.5	2020-01-28	2020-02-03	1	2020-10-26	2020-11-16									
5078654	B13_01_A	B13_01_A	1368	OAKHILL ST	Lead	Copper	PEX	Not Replaced	2020-01-27		No		5.04	2020-01-28	2020-02-03												
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												
5055528	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		1	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		1	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		1	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		1	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		1	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		No		1	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	1	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-												

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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 Recf from Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recf from Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recf from Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recf from Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recf from Lab5
5076604	B13_01_B	B13_01_B	2935	BREKER ST	Lead	Lead	PEX	Copper	2020-02-05	2020-02-05	No		1.27	2020-03-23	2020-03-30												
5076951	B13_01_B	B13_01_B	1205	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-05	2020-02-05	No		6.05	2020-02-18	2020-02-24												
5060261	B05_02_B	B05_02_B	1619	RUTLEDGE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-05	2020-02-05	No		1.6	2020-02-09	2020-02-24												
5076697	B13_01_B	B13_01_B	1202	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-05	2020-02-05	No		262	2020-02-05	2020-02-17												
5003672	B14_03_A	B14_03_A	3415	LOUISA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-05	2020-02-05	No		1	2020-02-29	2020-03-09												
5076669	B13_01_B	B13_01_B	2903	STAYTON ST	Lead	Copper	PEX	Not Replaced	2020-02-05		No		1	2020-02-05	2020-02-17												
5060941	B05_02_B	B05_02_B	228	MERIDAN ST	Lead	Copper	PEX	Not Replaced	2020-02-05		No		3.05	2020-02-07	2020-02-17												
5076615	B13_01_B	B13_01_B	2821	BREKER ST	Lead	PEX	PEX	Not Replaced	2020-02-05		No		1.38	2020-03-23	2020-03-30												
5059672	B05_02_B	B05_02_B	1314	VIRGINIA AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-05	2020-02-05	No		5.06	2020-02-10	2020-02-17												
5002833	Ops	Urgent LSLR	203	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-08	No	Emergency	1.21	2020-03-29	2020-04-06												
5060517	B05_02_B	B05_02_B	335	AUGUSTA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-06	2020-02-06	No		1.53	2020-02-08	2020-02-17												
5003428	B14_03_A	B14_03_A	327	ATWOOD ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		7.87	2020-02-07	2020-02-17												
5004055	B14_03_B	B14_03_B	11	OAKLAND SQ	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		3.53	2020-02-08	2020-02-17	1	2020-02-10	2020-02-17	22.4	2020-02-11	2020-02-17						
5079502	B13_01_B	B13_01_B	3045	WADLOW ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		1	2020-02-11	2020-02-17												
5003999	B14_03_B	B14_03_B	412	ATWOOD ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		1.55	2020-02-08	2020-02-17												
5076922	B13_01_B	B13_01_B	1242	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		409	2020-02-10	2020-02-24	1	2020-03-19	2020-03-30									
5059748	B05_02_B	B05_02_B	312	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		16.2	2020-02-12	2020-02-17	1	2020-05-06	2020-05-11									
5055428	B06_03_B	B06_03_B	216	WACHTER ST	Lead	Copper	PEX	Not Replaced	2020-02-06		No		1	2020-02-07	2020-02-17												
5076607	B13_01_B	B13_01_B	2921	BREKER ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		1.44	2020-02-10	2020-02-17												
5060691	B05_02_B	B05_02_B	131	COHASSET ST	Lead	Lead	PEX	Copper	2020-02-06	2020-02-06	No		1	2020-02-07	2020-02-17												
5059670	B05_02_B	B05_02_B	1318	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-02-07	2020-02-07	No		4.45	2020-02-10	2020-02-24												
5003673	B14_03_A	B14_03_A	255	HALKET PL	Lead	Lead	PEX	Copper	2020-02-08	2020-02-08	No		2.79	2020-02-09	2020-03-02												
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		1	2020-04-06	2020-04-20	1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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		1	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																	

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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
5076661	B13_01_B	B13_01_B	2931	STAYTON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-19	2020-02-19	No		1	2020-02-21	2020-03-02												
5003281	B14_03_A	B14_03_A	242	MEYRAN AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-19	2020-02-19	No		2.97	2020-04-15	2020-04-27												
5003827	B14_03_A	B14_03_A	341	SEMPLE ST	Lead	Lead	PEX	Copper	2020-02-19	2020-02-19	No		21.8	2020-02-19	2020-03-09												
5003829	B14_03_A	B14_03_A	337	SEMPLE ST	Lead	Lead	PEX	Copper	2020-02-19	2020-02-19	No		11.3	2020-02-20	2020-03-02	1.13	2020-05-18	2020-06-01									
5059750	B05_02_B	B05_02_B	317	MERIDAN ST	Lead	Lead	PEX	Copper	2020-02-19	2020-02-19	No		1	2020-02-21	2020-03-02												
5004513	B14_03_B	B14_03_B	23	WELLSFORD ST	Lead Tailpiece	Lead	PEX	Copper	2020-02-19	2020-02-19	No		1	2020-02-21	2020-03-02												
5003699	B14_03_A	B14_03_A	311	HALKET ST	Lead	Copper	PEX	Not Replaced	2020-02-19		No		5.77	2020-02-20	2020-03-02												
5076620	B13_01_B	B13_01_B	2811	BREKER ST	Lead	Lead	PEX	Copper	2020-02-19	2020-02-19	No		1	2020-02-20	2020-03-02												
5048096	CEP_02	CEP_02	301	JOHNSTON AVE	Lead	Lead	PEX	Copper	2020-02-19	2020-02-20	No		3.65	2020-06-27	2020-07-06	3.65	2020-06-27	2020-07-06									
5059726	B05_02_B	B05_02_B	1323	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-02-19	2020-02-19	No		10.2	2020-02-22	2020-03-09	1	2020-05-19	2020-05-27									
5059665	B05_02_B	B05_02_B	1406	VIRGINIA AVE	Lead	Copper	PEX	Not Replaced	2020-02-19		No		1	2020-02-24	2020-03-09												
5003304	B14_03_A	B14_03_A	251	MEYRAN AVE	Lead	Lead	PEX	Copper	2020-02-20	2020-02-20	No		1.12	2020-08-27	2020-09-09	1.26	2020-08-27	2020-09-09									
5076625	B13_01_B	B13_01_B	2824	BREKER ST	Lead	Lead	PEX	Not Replaced	2020-02-20		Yes		1	2020-04-16	2020-04-27												
5003306	B14_03_A	B14_03_A	255	MEYRAN AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-20	2020-02-20	No		10.8	2020-02-21	2020-03-02												
5060703	B05_02_B	B05_02_B	135	ONEIDA ST	Lead	Lead	PEX	Copper	2020-02-20	2020-02-20	No		2.3	2020-03-16	2020-03-25												
5055235	B06_03_B	B06_03_B	20	REGINA ST	Lead	Lead	PEX	Copper	2020-02-20	2020-02-20	No		1	2020-03-03	2020-03-09												
5076963	B13_01_B	B13_01_B	1233	WOODLAND AVE	Lead	Lead	PEX	Copper	2020-02-20	2020-02-20	No		1	2020-02-21	2020-03-09												
5059733	B05_02_B	B05_02_B	1407	VIRGINIA AVE	Lead	Lead	PEX	Copper	2020-02-20	2020-02-20	No		1	2020-02-23	2020-03-02												
5027586	CEP_02	CEP_02	5510	BROAD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-02-20	2020-02-20	No		1	2020-02-20	2020-03-02												
5060727	B05_02_B	B05_02_B	130	ONEIDA ST	Lead	Copper	PEX	Not Replaced	2020-02-20		No		1	2020-02-21	2020-03-02												
5078346	B13_01_A	B13_01_A	3275	BAINTON ST	Lead	Copper	PEX	Not Replaced	2020-02-20		No		1	2020-02-24	2020-03-02												
5079574	B13_01_C	B13_01_C	1061	SMITHTON AVE	Lead	Copper	PEX	Not Replaced	2020-02-21		No		1.42	2020-02-22	2020-03-02												
5076623	B13_01_B	B13_01_B	2818	BREKER ST	Lead	Lead	PEX	Copper	2020-02-21	2020-02-21	No		1	2020-02-22	2020-03-02												
5055175	B06_03_B	B06_03_B	1845	ARLINGTON AVE	Lead	Copper	PEX	Not Replaced	2020-02-21		No		2.55	2020-02-26	2020-03-02												
5079329	B13_01_C	B13_01_C	852	GRAND AVE	Lead	Lead	PEX	Copper	2020-02-21	2020-02-21	No		5.98	2020-02-22	2020-03-02												
5002837	B18_06	B18_06	211	DUNSEITH ST	Lead	Copper	PEX	Not Replaced	2020-02-21		No		1	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		1	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	1	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		1	2020-03-21	2020-03-30												
5002844	B18_06	B18_06	225	DUNSEITH ST	Lead	Copper	PEX	Not Replaced	2020-02-24		No		1	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																			

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5002816	B18_06	B18_06	238	ROBINSON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-03	2020-03-03	No		1.95	2020-04-20	2020-04-27												
5068878	B15_01_A	B15_01_A	51	NOSTER ST	Lead	Lead	PEX	Copper	2020-03-03	2020-03-03	No		1	2020-03-05	2020-03-09												
5007272	CEP_02	CEP_02	735	SHAWNEE ST	Lead	Copper	PEX	Not Replaced	2020-03-03		No		1	2020-03-05	2020-03-09												
5008823	B17_07_A	B17_07_A	3626	SMALLMAN ST	Lead	Copper	PEX	Not Replaced	2020-03-04		No		1.22	2020-03-07	2020-03-16												
5003832	B14_03_A	B14_03_A	352	MEYRAN AVE	Lead	Lead	PEX	Copper	2020-03-04	2020-03-04	No		3.18	2020-03-05	2020-03-09												
5009088	B17_07_A	B17_07_A	255	37TH ST	Lead	Lead	PEX	Copper	2020-03-04	2020-03-04	No		6.89	2020-03-05	2020-03-09												
5003808	B14_03_A	B14_03_A	360	SEMPLE ST	Lead	Lead	PEX	Copper	2020-03-04	2020-03-04	No		1	2020-05-06	2020-05-11												
5067801	B15_01_A	B15_01_A	1303	ITEN ST	Lead	Lead	PEX	Copper	2020-03-04	2020-03-04	No		1	2020-05-08	2020-05-18												
5068877	B15_01_A	B15_01_A	49	NOSTER ST	Lead	Lead	PEX	Copper	2020-03-04	2020-03-04	No		2.88	2020-05-01	2020-05-18												
5008830	B17_07_A	B17_07_A	3610	SMALLMAN ST	Lead	Copper	PEX	Not Replaced	2020-03-04		No		1	2020-04-27	2020-05-04												
5068876	B15_01_A	B15_01_A	47	NOSTER ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-04	2020-03-04	No		1	2020-03-05	2020-03-09												
5002836	B18_06	B18_06	209	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-03-04	2020-03-04	No		1.9	2020-03-05	2020-03-16												
5067601	B15_01_A	B15_01_A	56	ROSTOCK ST	Lead	Copper	PEX	Not Replaced	2020-03-04		No		1.05	2020-03-05	2020-03-09												
5027184	CEP_02	CEP_02	6107	STANTON AVE	Lead	Copper	PEX	Not Replaced	2020-03-04		No		3.64	2020-03-10	2020-03-16												
5079319	B13_01_C	B13_01_C	850	ROTHPLETZ ST	Lead	Copper	PEX	Not Replaced	2020-03-04		No		1	2020-03-11	2020-04-13												
5079318	B13_01_C	B13_01_C	852	ROTHPLETZ ST	Lead	Copper	PEX	Not Replaced	2020-03-04		No		22.5	2020-04-22	2020-04-27												
5002809	B18_06	B18_06	252	ROBINSON ST	Lead	Copper	PEX	Not Replaced	2020-03-04		No		1	2020-03-06	2020-03-16												
5031563	Ops	Urgent LSLR	1539	BROADHEAD ST	Lead	Lead	PEX	Copper	2020-03-05	2020-03-09	No	Emergency	1	2020-03-13	2020-03-25												
5003252	B14_03_A	B14_03_A	317	SEMPLE ST	Lead	Lead	PEX	Copper	2020-03-05	2020-03-05	No		1	2020-03-06	2020-03-30												
5009242	B17_07_A	B17_07_A	3511	LEECH ST	Lead	Lead	PEX	Copper	2020-03-05	2020-03-05	No		1	2020-05-01	2020-05-11												
5068897	B15_01_A	B15_01_A	1146	ADMIRAL ST	Lead	Lead	PEX	Copper	2020-03-05	2020-03-05	No		1.12	2020-03-07	2020-03-16												
5002811	B18_06	B18_06	248	ROBINSON ST	Lead	Copper	PEX	Not Replaced	2020-03-05		No		1	2020-03-05	2020-03-16												
5002262	B18_06	B18_06	149	MOULTRIE ST	Lead	Lead	PEX	Copper	2020-03-05	2020-03-05	No		43.3	2020-05-01	2020-05-11												
5002814	B18_06	B18_06	242	ROBINSON ST	Lead	Lead	PEX	Copper	2020-03-05	2020-03-05	No		27.6	2020-03-06	2020-03-16	1	2020-07-21	2020-07-28									
5067590	B15_01_A	B15_01_A	34	ROSTOCK ST	Lead	Lead	PEX	Copper	2020-03-06	2020-03-06	No		2.37	2020-03-07	2020-03-16												
5004005	B14_03_B	B14_03_B	426	ATWOOD ST	Lead	Copper	PEX	Not Replaced	2020-03-06		No		1	2020-03-06	2020-03-16												
5068543	B15_01_A	B15_01_A	1183	DAMAS ST	Lead	Lead	PEX	Copper	2020-03-06	2020-03-06	No		13.6	2020-03-09	2020-03-16	5.61	2020-06-22	2020-06-29									
5002862	B18_06	B18_06	263	DUNSEITH ST	Lead	Lead	PEX	Copper	2020-03-06	2020-03-06	No		2.81	2020-03-12	2020-03-16												
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		No		96	2020-03-12	2020-03-25	80.1	2020-03-28	2020-04-06	2.44	2020-04-14	2020-04-20	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		1	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		1	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		1	2020-03-10	2020-03-16												
5073290	B15_01_B	B15_01_B	1924	BADER ST	Lead	Lead																					

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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 Recf from Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recf from Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recf from Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recf from Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recf from Lab5
5003256	B14_03_A	B14_03_A	329	SEMPLE ST	Lead	Copper	PEX	Not Replaced	2020-03-16		No		1	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		1	2020-03-20	2020-03-30												
5009539	B17_07_B	B17_07_B	3909	MINTWOOD ST	Lead	Copper	PEX	Not Replaced	2020-03-17		No		1	2020-03-18	2020-03-30												
5022437	B20_07	B20_07	5309	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-18		No		1	2020-03-20	2020-03-30												
5073052	B15_01_B	B15_01_B	2218	ROCKLEDGE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-18	2020-03-18	No		1	2020-04-03	2020-04-13												
5073075	B15_01_B	B15_01_B	1414	HETZEL ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-18	2020-03-18	No		1.65	2020-03-20	2020-03-30												
5009289	B17_07_A	B17_07_A	3515	PENN AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-18	2020-03-18	No		1.57	2020-03-20	2020-03-30												
5022444	B20_07	B20_07	5327	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-19		No		1.65	2020-03-21	2020-03-30												
5023018	B20_07	B20_07	5623	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-19		No		1	2020-03-20	2020-03-30												
5022497	B20_07	B20_07	5437	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	2020-03-19		No		42	2020-03-20	2020-03-30												
5009616	B17_07_B	B17_07_B	3904	MINTWOOD ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-03-19	2020-03-19	No		1	2020-03-20	2020-03-30												
5052776	Urgent LSLR	Urgent LSLR	109	S 7TH ST	Lead	Lead	PEX	Copper	2020-04-03	2020-04-03	No	Emergency	88.9	2020-04-17	2020-04-27												
5062786	Ops	Urgent LSLR	35	WABASH ST	Lead	Lead	PEX	Copper	2020-04-14	2020-04-16	No	Emergency	1.07	2020-04-19	2020-04-27												
5055811	Ops	Urgent LSLR	734	MCLAIN ST	Copper	Lead	PEX	Copper	2020-04-28	2020-04-30	Yes	Emergency	1	2020-05-11	2020-05-18												
5020297	B20_07	B20_07	5113	KEYSTONE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-05-14	2020-05-14	No		1	2020-07-29	2020-08-05												
5020363	B20_07	B20_07	5122	KEYSTONE ST	Lead	Copper	PEX	Not Replaced	2020-05-14		No		1	2020-05-16	2020-05-27												
5020364	B20_07	B20_07	5126	KEYSTONE ST	Lead	Copper	PEX	Not Replaced	2020-05-15		No		1	2020-05-20	2020-06-01												
5020381	B20_07	B20_07	5164	KEYSTONE ST	Lead	Copper	PEX	Not Replaced	2020-05-18		No		1	2020-05-19	2020-05-27												
5009554	B17_07_B	B17_07_B	318	39TH ST	Lead	Copper	PEX	Not Replaced	2020-05-18		No		1	2020-06-23	2020-06-29												
5073255	B15_01_B	B15_01_B	1929	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2020-05-18	2020-05-18	No		1	2020-06-24	2020-06-29												
5009650	B17_07_B	B17_07_B	3931	HOWLEY ST	Lead	Copper	PEX	Not Replaced	2020-05-18		No		7.9	2020-05-20	2020-05-27												
5003146	B18_06	B18_06	171	ROBINSON ST	Lead	Copper	PEX	Not Replaced	2020-05-18		No		4.03	2020-05-19	2020-05-27												
5009731	B17_07_B	B17_07_B	3932	HOWLEY ST	Lead	Copper	PEX	Not Replaced	2020-05-18		No		1.11	2020-05-19	2020-05-27												
5009543	B17_07_B	B17_07_B	321	39TH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-05-18	2020-05-18	No		1	2020-06-21	2020-06-29												
5009713	B17_07_B	B17_07_B	3906	HOWLEY ST	Lead	Lead	PEX	Copper	2020-05-19	2020-05-19	No		1.31	2020-05-26	2020-06-01												
5009577	B17_07_B	B17_07_B	3723	MINTWOOD ST	Lead	Lead	PEX	Copper	2020-05-19	2020-05-19	No		1	2020-05-23	2020-06-01												
5009575	B17_07_B	B17_07_B	3717	MINTWOOD ST	Lead	Copper	PEX	Not Replaced	2020-05-19		No		1	2020-05-23	2020-06-01												
5003134	B18_06	B18_06	170	ROBINSON ST	Lead	Lead	PEX	Copper	2020-05-19	2020-05-19	No		1.39	2020-07-16	2020-07-28												
5020347	B20_07	B20_07	5155	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-05-19	2020-05-19	No		5.41	2020-05-20	2020-06-01												
5027237	CEP_02	CEP_02	5458	KINCAID ST	Lead	Lead	PEX	Copper	2020-05-19	2020-05-19	No		4.23	2020-05-20	2020-06-15												
5009711	B17_07_B	B17_07_B	3904	HOWLEY ST	Lead	Lead	PEX	Copper	2020-05-19	2020-05-19	No		1	2020-05-21	2020-06-01												
5073259	B15_01_B	B15_01_B	1945	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2020-05-20	2020-05-20	No		1.71	2020-05-25	2020-06-01												
5072862	B15_01_B	B15_01_B	1202	ROMANHOFF ST	Lead	Lead	PEX	Copper	2020-05-20	2020-05-20	No		1.62	2020-05-21	2020-06-01												
5020359	B20_07	B20_07	5116	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-05-20	2020-05-20	No		1	2020-06-22	2020-06-29												
5009667	B17_07_B	B17_07_B	333	39TH ST	Lead	Lead	PEX	Copper	2020-05-21	2020-05-21	No		1	2020-05-22	2020-06-01												
5009401	B17_07_B	B17_07_B	311	37TH ST	Lead	Lead	PEX	Copper	2020-05-21	2020-05-21	No		1	2020-05-22	2020-06-01												
5013201	CEP_02	CEP_02	115	MOREWOOD AVE	Lead	Lead	PEX	Copper	2020-05-21	2020-05-21	No		5.81	2020-05-23	2020-06-15												
5003120	B18_06	B18_06	142	ROBINSON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-05-21	2020-05-21	No		1.18	2020-05-23	2020-06-01												
5020306	B20_07	B20_07	5123	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-05-21	2020-05-21	No		4.05	2020-05-22	2020-06-01												
5073106	B15_01_B	B15_01_B	2112	HARBOR ST	Lead	Lead	PEX	Copper	2020-05-21	2020-05-21	No		1.73	2020-05-28	2020-06-08												
5009660	B17_07_B	B17_07_B	3911	HOWLEY ST	Lead	Lead	PEX	Copper	2020-05-21	2020-05-21	No		5.56	2020-05-22	2020-06-01												
5045254	Urgent Water	Urgent Water	3861	ALEXIS ST	Lead	Lead Tailpiece	PEX	Copper	2020-05-22	2020-05-22	No	Emergency	3.63	2020-07-07	2020-07-20												
5073101	B15_01_B	B15_01_B	2136	HARBOR ST	Lead	Lead	PEX	Copper	2020-05-26	2020-05-26	No		81.9	2020-05-28	2020-06-08	2.48	2020-06-12	2020-06-22									
5020374	B20_07	B20_07	5150	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-05-26	2020-05-26	No		5.96	2020-05-27	2020-06-08												
5027431	Urgent LSLR	Urgent LSLR	418	BORLAND ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-05-26	2020-05-26	No	Emergency	1	2020-06-23	2020-06-29												
5004480	B14_03_B	B14_03_B	3405	WARD ST	Lead	Lead	PEX	Copper	2020-05-26	2020-05-26	No		1.24	2020-05-30	2020-06-08												
5009015	B17_07_A	B17_07_A	162	39TH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-05-26	2020-05-26	No		2.56	2020-05-28	2020-06-08												
5009654	B17_07_B	B17_07_B	3923	HOWLEY ST	Lead	Lead	PEX	Copper	2020-05-26	2020-05-26	No		1.49	2020-05-27	2020-06-08												
5020314	B20_07	B20_07	5137	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-05-27	2020-05-27	No		1.15	2020-09-16	2020-09-21												
5009530	B17_07_B	B17_07_B	3923	MINTWOOD ST	Lead	Lead	PEX	Copper	2020-05-27	2020-05-27	No		1	2020-08-10	2020-08-17												
5020576	B20_07	B20_07	5191	STANTON AVE	Lead	Lead	Copper	Copper	2020-05-28	2020-05-28	No		1	2020-05-28	2020-06-08												
5073053	B15_01_B	B15_01_B	2210	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2020-05-28	2020-05-28	No		5.81	2020-05-29	2020-06-08												
5133682	B15_01_B	B15_01_B	2231	HARBOR	Lead	Lead	PEX	Copper	2020-05-28	2020-05-28	No		1.97	2020-06-04	2020-06-15												
5020309	B20_07	B20_07	5129	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-05-28	2020-05-28	No		1	2020-05-29	2020-06-08	1	2020-06-01	2020-06-08									
5009599	B17_07_B	B17_07_B	3810	MINTWOOD ST	Lead	Copper	PEX	Not Replaced	2020-05-28		No		11.8	2020-06-02	2020-06-08	1.04	2021-01-26	2021-02-08									
5073073	B15_01_B	B15_01_B	2100	ROCKLEDGE ST	Lead	Lead	PEX	Copper	2020-05-29	2020-05-29	No		4.61	2020-09-26	2020-10-05												
5009211	B17_07_A	B17_07_A	300	39TH ST FRNT	Lead	Lead	PEX	Copper	2020-05-29	2020-05-29	No		1	2020-06-03	2020-06-15												
5002889	B18_06	B18_06	3221	TERRACE ST	Lead	Lead	PEX	Copper	2020-05-29	2020-05-29	No		1.03	2020-05-29	2020-06-08												
5009213	B17_07_A	B17_07_A	296	39TH ST	Lead	Lead	PEX	Copper	2020-05-29	2020-05-29	No		2.14	2020-05-31	2020-06-08												
5073158	B15_01_A	B15_01_A	1030	BUENTE ST	Lead	Copper	PEX	Not Replaced	2020-06-01		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 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
5068764	B15_01_A	B15_01_A	1713	HUNNELL ST	Lead	Lead	PEX	Copper	2020-06-04	2020-06-04	No		294	2020-06-08	2020-06-15												
5024862	Ops	Urgent LSLR	5521	BRYANT ST	Lead	Lead	PEX	Copper	2020-06-05	2020-06-17	No	Emergency	1.97	2020-06-18	2020-06-22												
5072821	B15_01_B	B15_01_B	1006	SOUTH SIDE AVE	Lead	Lead	PEX	Copper	2020-06-05	2020-06-05	No		16.5	2020-06-24	2020-07-06												
5005202	CEP_02	CEP_02	3740	CHILDS ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-05	2020-06-05	No		3.62	2020-07-27	2020-08-05												
5002344	B18_06	B18_06	3114	TERRACE ST	Lead	Lead	PEX	Copper	2020-06-05	2020-06-05	No		2.3	2020-06-07	2020-06-15												
5069498	Ops	Urgent LSLR	1912	LOWRIE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-06-06	2020-06-09	No	Emergency	1	2020-08-19	2020-09-09												
5067713	B15_01_A	B15_01_A	1166	ITEN ST	Lead	Lead	PEX	Copper	2020-06-07	2020-06-07	No		1.74	2020-08-16	2020-08-24												
5067794	B15_01_A	B15_01_A	1227	ITEN ST	Lead	Copper	PEX	Not Replaced	2020-06-07		No		1.01	2020-08-10	2020-08-17												
5067791	B15_01_A	B15_01_A	1219	ITEN ST	Lead	Copper	PEX	Not Replaced	2020-06-07		No		1.77	2020-06-10	2020-06-15												
5019712	B20_07	B20_07	5209	DRESDEN WAY	Lead	Lead	PEX	Copper	2020-06-08	2020-06-08	No		1	2020-07-09	2020-07-20												
5019799	B20_07	B20_07	5206	DRESDEN WAY	Lead	Copper	PEX	Not Replaced	2020-06-08		No		1	2020-06-09	2020-06-15												
5009746	B17_07_B	B17_07_B	3927	LIBERTY AVE	Lead	Lead	PEX	Copper	2020-06-08	2020-06-08	No		2.58	2020-06-08	2020-06-15												
5009680	B17_07_B	B17_07_B	3811	HOWLEY ST	Lead	Lead	PEX	Copper	2020-06-08	2020-06-08	No		1	2020-06-09	2020-06-22												
5009466	B17_07_A	B17_07_A	3801	PENN AVE	Lead	PEX	PEX	Not Replaced	2020-06-09		No		2.31	2020-06-10	2020-06-15												
5020060	B20_07	B20_07	5210	KEYSTONE ST	Lead	Copper	PEX	Not Replaced	2020-06-09		No		2.41	2020-06-10	2020-06-22												
5068504	B15_01_A	B15_01_A	18	WOESSNER AVE	Lead	Lead	PEX	Copper	2020-06-09	2020-06-09	No		1.12	2020-07-28	2020-08-05												
5013612	B21_07	B21_07	228	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-09	2020-06-09	No		9.75	2020-06-11	2020-06-22												
5019818	B20_07	B20_07	5237	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-06-09	2020-06-09	No		1.85	2020-06-15	2020-06-22												
5002790	B18_06	B18_06	3159	ELLERS ST	Lead	Lead	PEX	Copper	2020-06-09	2020-06-09	No		1	2020-06-28	2020-07-06	1	2020-06-28	2020-07-06									
5009780	B17_07_B	B17_07_B	3938	LIBERTY AVE	Lead	Lead	PEX	Copper	2020-06-09	2020-06-09	No		29.3	2020-06-10	2020-06-22	5.74	2020-09-09	2020-09-21									
5019809	B20_07	B20_07	5220	DRESDEN WAY	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1	2020-06-11	2020-06-22												
5024616	B19_09	B19_09	5416	BROAD ST	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		2.94	2020-06-12	2020-06-22												
5037859	CEP_02	CEP_02	5874	HOBART ST	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1	2020-06-11	2020-06-22												
5009747	B17_07_B	B17_07_B	3925	LIBERTY AVE	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1.87	2020-06-18	2020-07-13												
5072928	B15_01_B	B15_01_B	920	MINA ST	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1.67	2020-06-11	2020-08-24												
5013614	B21_07	B21_07	232	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-06-10	2020-06-11	No		2.18	2020-06-15	2020-06-22	7.17	2020-06-15	2020-06-22									
5019948	B20_07	B20_07	115	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1	2020-06-11	2020-06-22												
5002198	B18_06	B18_06	3153	ELLERS ST	Lead	Copper	PEX	Not Replaced	2020-06-10		No		2.22	2020-06-13	2020-06-22												
5019803	B20_07	B20_07	5212	DRESDEN WAY	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1	2020-06-11	2020-06-22												
5068513	B15_01_A	B15_01_A	36	WOESSNER ST	Lead	Lead	PEX	Copper	2020-06-10	2020-06-10	No		1	2020-06-15	2020-06-22												
5009188	B17_07_A	B17_07_A	238	39TH ST	Lead	Copper	PEX	Not Replaced	2020-06-10		No		1.34	2020-09-21	2020-09-28												
5009555	B17_07_B	B17_07_B	316	39TH ST	Lead	Lead	PEX	Copper	2020-06-11	2020-06-11	No		1.79	2020-06-13	2020-06-22												
5003276	B14_03_A	B14_03_A	254	MEYRAN AVE	Lead	Copper	PEX	Not Replaced	2020-06-11		No		1	2020-09-22	2020-09-28												
5022740	B20_07	B20_07	6058	SAWYER ST	Lead	Lead	PEX	Copper	2020-06-11	2020-06-11	No		1	2020-06-11	2020-06-29												
5019950	B20_07	B20_07	119	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-06-11	2020-06-11	No		6.67	2020-06-13	2020-06-22												
5019951	B20_07	B20_07	121	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-06-11	2020-06-11	No		1	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		1	2020-06-14	2020-06-29												
5022742	B20_07	B20_07	6046	SAWYER ST	Lead	Copper	PEX	Not Replaced	2020-06-11		No		1	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		1	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		1	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		1	2020-06-15	2020-06-22												
5019914	B20_07	B20_07	5205	KEYSTONE ST	Lead	Copper	PEX	Not Replaced	2020-06-12		No		1	2020-06-14	2020-06-22												
5013617	B21_07	B21_07	244	S WINEBIDDLE ST	Lead	Copper	PEX	Not Replaced	2020-06-12		No		1	2020-09-22	2020-10-05	1	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		1	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		1	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	1	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		1	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		1	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		1	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	1	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		1	2020-06-23	2020-06-29												
5072936	B15_01_B	B15_01_B	900	MINA ST	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	20												

[illegible]

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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
5035354	Urgent LSLR	Urgent LSLR	5521	DUNMOYLE AVE	Lead	PEX	PEX	Not Replaced	2020-07-10		No	Emergency	1	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		1	2020-07-14	2020-08-05	1	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		1	2020-07-14	2020-07-28												
5019749	B20_07	B20_07	5231	BUTLER ST	Lead	Copper	PEX	Not Replaced	2020-07-14		No		1	2020-07-16	2020-08-05												
5013304	B21_07	B21_07	116	EDMOND ST	Lead	Copper	PEX	Not Replaced	2020-07-14		No		1	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		1	2020-07-15	2020-07-28												
5024689	B19_09	B19_09	5445	ROSETTA ST	Lead	Lead	PEX	Copper	2020-07-14	2020-07-14	No		7.24	2020-07-18	2020-07-28												
5014849	B21_07	B21_07	424	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-14	2020-07-14	No		5.39	2020-07-15	2020-07-20												
5013570	B21_07	B21_07	263	GROSS ST	Lead	Lead	PEX	Copper	2020-07-14	2020-07-14	No		2.71	2020-07-15	2020-07-20	1.81	2020-07-15	2020-08-10	2.08	2020-07-15	2020-07-28	1	2020-07-17	2020-07-28			
5063195	Ops	Urgent LSLR	1032	VALONIA ST	Lead	Lead	PEX	Copper	2020-07-15	2020-07-16	No	Emergency	1.67	2020-07-17	2020-07-28												
5017794	B21_07	B21_07	220	PEARL ST	Lead	Lead	PEX	Copper	2020-07-15	2020-07-15	No		1.37	2020-07-18	2020-07-28												
5024687	B19_09	B19_09	5441	ROSETTA ST	Lead	Lead	PEX	Copper	2020-07-15	2020-07-15	No		1	2020-08-28	2020-09-09												
5020295	B20_07	B20_07	5109	KEYSTONE	Copper	Lead	PEX	Copper	2020-07-15	2020-07-15	No		1	2020-09-04	2020-09-21												
5013407	B21_07	B21_07	4743	FRIENDSHIP AVE	Lead	Lead	PEX	Copper	2020-07-16	2020-07-16	No		1	2020-07-17	2020-07-28												
5014147	B21_07	B21_07	349	S WINEBIDDLE ST	Lead	Lead	PEX	Copper	2020-07-16	2020-07-16	No		1.9	2020-10-12	2020-10-19												
5013340	B21_07	B21_07	233	PEARL ST	Lead	Lead	PEX	Copper	2020-07-16	2020-07-16	No		7.84	2020-07-19	2020-07-28												
5024578	B19_09	B19_09	5411	COLUMBO ST	Lead	Lead	PEX	Copper	2020-07-16	2020-07-16	No		2.83	2020-07-17	2020-07-28												
5027241	B19_09	B19_09	209	N FAIRMOUNT ST	Lead	Lead	PEX	Copper	2020-07-16	2020-07-16	No		36.4	2020-07-18	2020-07-28	3.01	2020-10-10	2020-10-19									
5035851	CEP_02	CEP_02	5544	WILKINS AVE	Lead	Lead	PEX	Copper	2020-07-16	2020-07-13	No		3.75	2020-08-21	2020-08-31												
5032145	SDWMR_2020B	SDWMR_2020B	7363	STRANAHAN ST	Copper	Lead	PEX	Copper	2020-07-16	2020-07-16	No		10.6	2020-09-24	2020-10-05												
5057358	SDWMR_2020A	SDWMR_2020A	952	LOYAL WAY	Copper	Lead	PEX	Copper	2020-07-16	2020-07-16	No		1.19	2020-07-20	2020-07-28												
5064626	SDWMR_2020B	SDWMR_2020B	1920	SEDGWICK ST	Lead	Lead	PEX	Copper	2020-07-17	2020-07-17	No		5.52	2020-07-17	2020-07-28												
5017793	B21_07	B21_07	218	PEARL ST	Lead	Lead	PEX	Copper	2020-07-17	2020-07-17	No		1.45	2020-07-19	2020-07-28	5	2020-07-20	2020-07-28									
5013470	B21_07	B21_07	255	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-07-20	2020-07-20	No		15	2020-07-22	2020-07-28	1	2020-10-28	2020-11-09									
5064459	SDWMR_2020B	SDWMR_2020B	1122	MORRISON ST	Lead	Lead	PEX	Copper	2020-07-20	2020-07-20	No		1	2021-03-18	2021-03-29												
5020362	B20_07	B20_07	5120	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-07-20	2020-07-20	No		1.11	2020-07-24	2020-08-05												
5064462	SDWMR_2020B	SDWMR_2020B	1116	MORRISON ST	Lead	Lead	PEX	Copper	2020-07-20	2020-07-20	No		1	2020-07-20	2020-07-28												
5064464	SDWMR_2020B	SDWMR_2020B	1110	MORRISON ST	Lead	Lead	PEX	Copper	2020-07-20	2020-07-20	No		55.1	2020-07-20	2020-07-28												
5013656	B21_07	B21_07	226	S EVALINE ST	Lead	Copper	PEX	Not Replaced	2020-07-20		No		7.48	2020-07-21	2020-07-28												
5026612	B19_09	B19_09	5431	COLUMBO ST	Lead	Lead	PEX	Copper	2020-07-20	2020-07-20	No		1.1	2020-07-22	2020-07-28												

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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
5023087	B20_07	B20_07	249	57TH ST	Lead	Lead	PEX	Copper	2020-07-30	2020-07-30	No		1.37	2020-09-11	2020-10-05												
5055379	SDWMR_2020A	SDWMR_2020A	35	MOUNT OLIVER ST	Lead	Copper	PEX	Not Replaced	2020-07-30		No		1	2020-07-31	2020-08-10												
5026746	B19_09	B19_09	525	N NEGLEY AVE	Lead	Lead	PEX	Copper	2020-07-30	2020-07-30	No		1	2020-09-21	2020-10-05												
5026564	SDWMR_2020B	SDWMR_2020B	830	COLLINS AVE	Copper	Lead	PEX	Copper	2020-07-31	2020-07-31	No		1	2020-08-03	2020-08-10												
5032149	SDWMR_2020B	SDWMR_2020B	7403	STRANAHAN ST	Copper	Lead	PEX	Copper	2020-08-01	2020-08-01	No		4.37	2020-08-01	2020-08-10												
5029272	SDWMR_2020B	SDWMR_2020B	6555	ROWAN ST	Lead	Lead	PEX	Copper	2020-08-03	2020-08-03	No		7.69	2020-08-04	2020-08-10												
5013452	B21_07	B21_07	226	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-03	2020-08-04	No		14.7	2020-10-27	2020-11-09	17.4	2020-12-11	2020-12-29									
5026582	SDWMR_2020B	SDWMR_2020B	6135	JACKSON ST	Lead	Lead	PEX	Copper	2020-08-03	2020-08-03	No		1	2020-08-05	2020-08-10	1	2020-08-05	2020-08-10									
5026583	SDWMR_2020B	SDWMR_2020B	6129	JACKSON ST	Lead	Lead	PEX	Copper	2020-08-03	2020-08-03	No		5.25	2020-08-05	2020-08-10												
5013530	B21_07	B21_07	227	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-03	2020-08-03	No		7.52	2020-08-04	2020-08-10												
5053225	Ops	Urgent LSLR	102	S 11TH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-08-04	2020-08-13	No	Emergency	1.15	2020-08-14	2020-08-24												
5031356	Urgent LSLR	Urgent LSLR	1384	PAULSON AVE	Lead	Lead	PEX	Copper	2020-08-04	2020-08-04	No	Emergency	11	2020-08-05	2020-08-10	5.7	2020-11-12	2020-11-23									
5013464	B21_07	B21_07	250	S MATHILDA ST	Lead	Copper	PEX	Not Replaced	2020-08-04		No		4.46	2020-08-06	2020-08-17												
5013312	B21_07	B21_07	113	PEARL ST	Lead	Lead	PEX	Copper	2020-08-04	2020-08-04	No		2.35	2020-08-10	2020-08-24												
5055131	SDWMR_2020A	SDWMR_2020A	1618	ST PATRICK ST	Lead	Lead	PEX	Copper	2020-08-04	2020-08-04	No		2.2	2020-12-29	2021-01-19												
5027595	B19_09	B19_09	126	N FAIRMOUNT ST	Lead	Copper	PEX	Not Replaced	2020-08-04		No		6.08	2020-08-06	2020-08-10												
5013508	B21_07	B21_07	226	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-04	2020-08-04	No		28.7	2020-08-05	2020-08-10												
5029267	SDWMR_2020B	SDWMR_2020B	6569	ROWAN ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-08-05	2020-08-05	No		4.58	2020-08-07	2020-08-18												
5013311	B21_07	B21_07	111	PEARL ST	Lead	Copper	PEX	Not Replaced	2020-08-05		No		1	2020-08-05	2020-08-24												
5013475	B21_07	B21_07	245	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-05	2020-08-05	No		1	2020-08-20	2020-08-24												
5055133	SDWMR_2020A	SDWMR_2020A	1648	ST PATRICK ST	Lead	Copper	PEX	Not Replaced	2020-08-05		No		3.5	2020-08-06	2020-08-18												
5013313	B21_07	B21_07	115	PEARL ST	Lead	Lead	PEX	Copper	2020-08-05	2020-08-05	No		1	2020-09-19	2020-09-28												
5019767	B20_07	B20_07	5232	HARRISON ST	Lead	PEX	PEX	Not Replaced	2020-08-05		No		1	2020-08-16	2020-08-24												
5022701	B20_07	B20_07	209	57TH ST REAR	Lead	Lead	PEX	Copper	2020-08-05	2020-08-05	No		1	2020-08-06	2020-08-24												
5055161	SDWMR_2020A	SDWMR_2020A	1802	ST PATRICK ST	Lead	Copper	PEX	Not Replaced	2020-08-05		No		31.6	2020-08-07	2020-08-18	1.67	2020-11-16	2020-11-23									
5013765	B21_07	B21_07	201	S EVALINE ST	Lead	Lead	PEX	Copper	2020-08-06	2020-08-06	No		2.81	2020-08-13	2020-08-31												
5022709	B20_07	B20_07	207	57TH ST REAR	Lead	Lead	PEX	Copper	2020-08-06	2020-08-06	No		1	2020-08-07	2020-08-17												
5013514	B21_07	B21_07	214	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-06	2020-08-06	No		3.05	2020-08-08	2020-08-17												
5027178	SDWMR_2020B	SDWMR_2020B	817	COLLINS AVE	Lead	Lead	PEX	Copper	2020-08-07	2020-08-07	No		1	2020-08-08	2020-08-18												
5013539	B21_07	B21_07	201	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-07	2020-08-07	No		1.1	2020-08-08	2020-08-17	2.23	2020-08-10	2020-08-17									
5022568	B20_07	B20_07	5415	BERLIN WAY	Lead	Galvanized Iron	PEX	Copper	2020-08-08	2020-08-08	No		1	2020-12-07	2020-12-14												
5066086	B22_01	B22_01	1221	ARCH ST	Lead	Copper	PEX	Not Replaced	2020-08-10		No		1	2020-08-10	2020-08-24												
5065843	B22_01	B22_01	1208	MONTEREY ST	Lead	Lead	PEX	Copper	2020-08-10	2020-08-10	No		2.84	2020-08-12	2020-08-17												
5013485	B21_07	B21_07	217	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-10	2020-08-10	No		5.73	2020-08-16	2020-08-24												
5013509	B21_07	B21_07	224	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-10	2020-08-10	No		5.38	2020-08-13	2020-08-24												
5066082	B22_01	B22_01	1217	ARCH ST	Lead	Lead	PEX	Copper	2020-08-10	2020-08-10	No		1	2020-08-11	2020-08-17												
5011096	Ops	Urgent LSLR																									

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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
5066120	B22_01	B22_01	1302	ARCH ST	Lead	Lead	PEX	Copper	2020-08-19	2020-08-19	No		3.01	2020-08-21	2020-08-31												
5065957	B22_01	B22_01	1211	PALO ALTO ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-08-19	2020-08-19	No		4.68	2020-08-22	2020-08-31												
5013757	B21_07	B21_07	5154	CORAL ST	Lead	Lead	PEX	Copper	2020-08-19	2020-08-19	No		133	2020-08-20	2020-08-24	55.1	2020-08-20	2020-08-24	24.6	2020-08-20	2020-08-24	2.1	2020-10-09	2020-10-19			
5022711	B20_07	B20_07	201	57TH ST REAR	Lead	Lead	PEX	Copper	2020-08-19	2020-08-19	No		1	2020-08-21	2020-08-31												
5055163	SDWMR_2020A	SDWMR_2020A	1826	ST PATRICK ST	Lead	Lead	PEX	Copper	2020-08-20	2020-08-21	No		4.85	2020-08-24	2020-09-01												
5065888	B22_01	B22_01	1223	BUENA VISTA ST	Lead	Copper	PEX	Not Replaced	2020-08-20		No		1	2020-08-21	2020-08-31												
5013487	B21_07	B21_07	213	S MATHILDA ST	Lead	Copper	PEX	Not Replaced	2020-08-20		No		8.42	2020-08-21	2020-08-31												
5022692	B20_07	B20_07	201	57TH ST	Lead	Lead	PEX	Copper	2020-08-20	2020-08-20	No		34.1	2020-08-21	2020-08-31												
5055489	SDWMR_2020A	SDWMR_2020A	2435	GABLE ST	Copper	Lead	PEX	Copper	2020-08-20	2020-08-20	No		1	2020-08-23	2020-09-09												
5066075	B22_01	B22_01	1207	ARCH ST	Lead	Lead	PEX	Copper	2020-08-20	2020-08-20	No		3.05	2020-08-23	2020-08-31												
5066088	B22_01	B22_01	1225	ARCH ST	Lead	Copper	PEX	Not Replaced	2020-08-20		No		1.33	2020-08-25	2020-08-31												
5013502	B21_07	B21_07	238	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-21	2020-08-21	No		11.2	2020-08-22	2020-09-09	1.05	2020-12-06	2020-12-21									
5013922	B21_07	B21_07	5416	CORAL ST	Lead	Lead	PEX	Copper	2020-08-21	2020-08-21	No		4.26	2020-08-25	2020-09-21												
5019777	B20_07	B20_07	106	53RD ST	Lead	Copper	PEX	Not Replaced	2020-08-24		No		2.63	2020-09-24	2020-10-05												
5020361	B20_07	B20_07	5118	KEYSTONE ST	Lead	Lead	PEX	Copper	2020-08-24	2020-08-24	No		1.21	2020-08-31	2020-09-09												
5013327	B21_07	B21_07	201	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-24	2020-08-24	No		7.9	2020-08-25	2020-08-31												
5066238	B22_01	B22_01	117	HEMLOCK ST	Lead	Lead	PEX	Copper	2020-08-24	2020-08-24	No		1.19	2020-08-26	2020-08-31												
5067007	CEP_02	CEP_02	935	ITEN ST	Lead	Lead	PEX	Copper	2020-08-24	2020-08-24	No		1	2020-08-25	2020-09-09												
5066241	B22_01	B22_01	1321	SANDUSKY ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-08-24	2020-08-24	No		1	2020-08-24	2020-08-31												
5065887	B22_01	B22_01	1221	BUENA VISTA ST	Lead	Copper	PEX	Not Replaced	2020-08-24		No		1	2020-09-01	2020-09-09												
5055290	SDWMR_2020A	SDWMR_2020A	29	ST THOMAS ST	Lead	Copper	PEX	Not Replaced	2020-08-24		No		9.67	2020-08-28	2020-09-09												
5065878	B22_01	B22_01	1228	BUENA VISTA ST	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		1.11	2020-08-26	2020-08-31												
5013890	B21_07	B21_07	5415	CORAL ST	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		1.16	2020-08-26	2020-08-31												
5066235	B22_01	B22_01	113	HEMLOCK ST	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		1.43	2020-11-25	2020-12-08												
5020039	B20_07	B20_07	5240	KEYSTONE ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-08-25	2020-08-25	No		1	2020-08-26	2020-08-31												
5013536	B21_07	B21_07	209	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		5.55	2020-08-26	2020-09-09												
5013489	B21_07	B21_07	203	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		9.71	2020-08-31	2020-09-09												
5013918	B21_07	B21_07	5407	CORAL ST	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		2.45	2020-08-27	2020-09-09												
5065880	B22_01	B22_01	1224	BUENA VISTA ST	Lead	Lead	PEX	Copper	2020-08-25	2020-08-25	No		1	2020-08-26	2020-09-09												
5013498	B21_07	B21_07	246	S MILLVALE AVE	Lead	Lead	PEX	Copper	2020-08-26	2020-08-26	No		19.2	2020-08-26	2020-09-09	6.52	2020-08-27	2020-09-09									
5013442	B21_07	B21_07	206	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-26	2020-08-26	No		16.6	2020-08-27	2020-09-09	2.74	2020-11-28	2020-12-08									
5019727	B20_07	B20_07	5152	BUTLER ST	Lead	Lead	PEX	Copper	2020-08-26	2020-08-26	No		1	2020-10-25	2020-11-09	1	2020-10-28	2020-11-09									
5019755	B20_07	B20_07	39	MCCANDLESS AVE	Lead	Lead	PEX	Copper	2020-08-26	2020-08-26	No		21	2020-08-27	2020-09-09	1	2020-11-30	2020-12-08									
5013443	B21_07	B21_07	208	S MATHILDA ST	Lead	Lead	PEX	Copper	2020-08-26	2020-08-26	No		1.21	2020-10-01	2020-10-12												
5065799	B22_01	B22_01	1213	RESACA PL	Lead	Copper	PEX	Not Replaced	2020-08-26		No		1	2020-08-30	2020-09-09												
5065796	B22_01	B22_01	1207	RESACA PL	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-08-27	2020-08-27	No		3.35	2020-08-29	2020-09-09										</		

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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
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		1	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	1	2020-12-14	2021-01-06									
5000520	B16_06	B16_06	113	GIST ST	Lead	Copper	PEX	Not Replaced	2020-09-11		No		1	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		1	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		1	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		1	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		1	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		1	2020-09-15	2020-09-21												
5077731	SDWMR_2019	SDWMR_2019	3616	MASSACHUSETTS AVE	Lead	Copper	PEX	Not Replaced	2020-09-14		No		1	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		1	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	2020-09-15	No		1	2020-11-24	2020-12-08												
5066137	B22_01	B22_01	1205	REDDOUR ST	Lead	Lead	PEX	Copper	2020-09-15	2020-09-15	No		1	2020-09-16	2020-09-28												
5066042	B22_01	B22_01	1218	SHERMAN AVE	Lead	Copper	PEX	Not Replaced	2020-09-16		No		1.96	2020-09-18	2020-09-28												
5000658	B16_06	B16_06	36	GIST ST	Lead	Lead	PEX	Copper	2020-09-16	2020-09-16	No		3.57	2020-09-16	2020-09-21												
5055615	CEP_03	CEP_03	447	KATHLEEN ST	Lead	Lead	PEX	Copper	2020-09-16	2020-09-17	No		1.16	2020-09-18	2020-09-28												
5013758	B21_07	B21_07	5152	CORAL ST	Lead	Copper	PEX	Not Replaced	2020-09-16		No		2.69	2020-09-18	2020-09-28												
5000660	B16_06	B16_06	40	GIST ST	Lead	Lead	PEX	Copper	2020-09-17	2020-09-17	No		3.27	2020-09-19	2020-10-05												
5066055	B22_01	B22_01	1116	SHERMAN AVE	Lead	Lead	PEX	Copper	2020-09-17	2020-09-17	No		3.75	2020-09-18	2020-09-28												
5024633	CEP_03	CEP_03	217	N GRAHAM ST	Lead	Lead	PEX	Copper	2020-09-17	2020-09-17	No		1	2020-09-18	2020-10-05												
5027122	CEP_03	CEP_03	6302	STANTON AVE	Lead	Lead	PEX	Copper	2020-09-17	2020-09-17	No		1	2020-09-21	2020-09-28												
5023019	B20_07	B20_07	5618	CARNEGIE ST	Lead	Lead	PEX	Copper	2020-09-17	2020-09-18	No		1	2020-09-19	2020-09-28												
5058368	CEP_03	CEP_03	445	BIGHAM ST	Lead	Lead	PEX	Copper	2020-09-17	2020-09-18	No		1.84	2020-09-22	2020-09-28												
5065972	B22_01	B22_01	1236	FILSON ST	Lead	Copper	PEX	Not Replaced	2020-09-17		No		4.99	2020-09-18	2020-09-28												
5065973	B22_01	B22_01	1238	FILSON ST	Lead	Lead	PEX	Copper	2020-09-17	2020-09-17	No		1	2020-11-17	2020-11-23												
5054992	SDWMR_2020A	SDWMR_2020A	4	CROSSMAN ST	Copper	Lead	PEX	Copper	2020-09-18	2020-09-18	No		1	2020-09-21	2020-09-29												
5063331	CEP_02	CEP_02	905	ELKTON ST	Lead	Lead	PEX	Copper	2020-09-18	2020-09-18	No		1.22	2020-09-22	2020-09-28												
5013644	B																										

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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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5065714	B22_01	B22_01	913	W NORTH AVE	Lead	Lead	PEX	Copper	2020-10-05	2020-10-05	No		1	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		1	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		1	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		1	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		1	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		1	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	1	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		1	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	2020-11-09												
5066054	B22_01	B22_01	1200	SHERMAN AVE	Lead	Copper	PEX	Not Replaced	2020-10-12		No		1	2020-10-24	2020-11-09												
5026534	SDWMR_2020B	SDWMR_2020B	839	N SHERIDAN AVE	Copper	Lead	PEX	Copper	2020-10-12	2020-10-12	No		3.03	2020-10-13	2020-10-20												
5000530	B16_06	B16_06	120	MILTENBERGER ST	Lead	Lead	PEX	Copper	2020-10-12	2020-10-12	No		1	2020-10-22	2020-11-16												
5046072	CEP_03	CEP_03	4200	LYDIA ST	Lead	Lead	PEX	Copper	2020-10-12	2020-10-12	No		2.57	2020-10-15	2020-11-02												
5066065	B22_01	B22_01	210	W NORTH AVE	Lead	Lead	PEX	Copper	2020-10-12	2020-10-12	No		1.98	2020-10-14	2020-10-19												
5042041	CEP_03	CEP_03	6674	WOODWELL ST	Lead	Copper	PEX	Not Replaced	2020-10-12		No		2.29	2020-10-14	2020-11-02												
5018984	CEP_02	CEP_02	5133	HILLCREST ST	Lead	Copper	PEX	Not Replaced	2020-10-13		No		1	2020-11-30	2020-12-08												
5046550	CEP_03	CEP_03	4317	LYDIA ST	Lead	Lead	PEX	Copper	2020-10-13	2020-10-13	No		536	2020-10-16	2020-11-02	35.9	2020-11-02	2020-11-16									
5000664	B16_06	B16_06	1841	BLVD OF THE ALLIES	Lead	Lead	PEX	Copper	2020-10-13	2020-10-13	No		4.01	2020-10-15	2020-11-02												
5066366	B22_01	B22_01	500	W NORTH AVE	Lead	Copper	PEX	Not Replaced	2020-10-14		No		1	2020-10-15	2020-11-02												
5066379	B22_01	B22_01	400	W NORTH AVE	Lead	Copper	PEX	Not Replaced	2020-10-14		No		1.41	2020-10-15	2020-11-02												
5010243	CEP_03	CEP_03	4724	WALLINGFORD ST	Lead	Lead	PEX	Copper	2020-10-14	2020-10-14	No		5.54	2020-10-18	2020-11-02												
5046132	CEP_03	CEP_03	4215	SHIELDS ST	Lead	Lead	PEX	Copper	2020-10-14	2020-10-14	No		8.77	2020-10-15	2020-11-02												
5065844	B22_01	B22_01	1209	DAY ST	Lead	Lead	PEX	Copper	2020-10-14	2020-10-14	No		18	2020-10-15	2020-11-02												
5002388	B16_06	B16_06	1	SENECA ST	Lead	Copper	PEX	Not Replaced	2020-10-15		No		1	2020-10-16	2020-11-02												
5050060	SDWMR_2020A	SDWMR_2020A	4318	MURRAY AVE	Lead	Lead	PEX	Copper	2020-10-15	2020-10-15	No		7.73	2020-10-16	2020-11-03												
5078070	SDWMR_2019	SDWMR_2019	3428	SIPE ST	Lead	Copper	PEX	Not Replaced	2020-10-15		No		13.7	2020-10-16	2020-11-03												
5000663	B16_06	B16_06	1843	BLVD OF THE ALLIES	Lead	Lead	PEX	Copper	2020-10-15	2020-10-15	No		2.38	2020-10-18	2020-11-02												
5028491	CEP_03	CEP_03	6350	STANTON AVE	Lead	Lead	PEX	Copper	2020-10-16	2020-10-16	No		3.86	2020-10-17	2020-11-02												
5026551	SDWMR_2020B	SDWMR_2020B	6106	JACKSON ST	Lead	Lead	PEX	Copper	2020-10-16	2020-10-16	No		2.13	2020-10-17	2020-11-03												
5050327	SDWMR_2020A	SDWMR_2020A	4348	MURRAY AVE	Lead	Lead	PEX	Copper	2020-10-16	2020-10-16	No		1	2020-10-20	2020-11-03												
5065910	B22_01	B22_01	402	N TAYLOR AVE	Lead	Lead	PEX	Copper	2020-10-19	2020-10-19	No		51	2020-10-21	2020-11-09	34.7	2020-11-19	2020-11-30	1.16	2021-05-03	2021-05-17						
5078064	SDWMR_2019	SDWMR_2019	3451	SIPE ST	Lead	Lead	PEX	Copper	2020-10-19	2020-10-19	No		1.09	2020-10-21	2020-11-03												
5026587	SDWMR_2020B	SDWMR_2020B	6105	JACKSON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-10-20	2020-10-20	No		20000	2020-12-29	2021-01-25	1	2021-05-04	2021-06-08									
5032129	SDWMR_2020B	SDWMR_2020B	1410	OBERLIN ST	Lead	Copper	PEX	Not Replaced	2020-10-20		No		1	2020-10-28	2020-11-09												
5026529	SDWMR_2020B	SDWMR_2020B	6048	JACKSON ST	Lead	Lead	PEX	Copper	2020-10-20	2020-10-20	No		1.22	2020-12-08	2020-12-21												
5000754	CEP_03	CEP_03	2004	FORBES AVE	Copper	Lead	PEX	Copper	2020-10-21	2020-10-21	No		1	2020-12-28	2021-01-11												
5026585	SDWMR_2020B	SDWMR_2020B	6119	JACKSON ST	Lead	Lead	PEX	Copper	2020-10-21	2020-10-21	No		1	2020-10-22	2020-11-09												
5078065	SDWMR_2019	SDWMR_2019	3443	SIPE ST	Lead	Lead	PEX	Copper	2020-10-21	2020-10-21	No		1.77	2020-10-22	2020-11-09												
5007664	Ops	Urgent LSLR	4301	ANDOVER TER	Lead	Lead	PEX	Copper	2020-10-22	2020-10-28	No	Emergency	283	2020-10-31	2020-11-16	9.57	2020-11-16	2020-11-23									
5078087	B22_01	B22_01	124	HEMLOCK ST	Lead	Lead	PEX	Copper	2020-10-22	2020-10-22	No		1	2020-10-27	2020-11-09												
5048540	CEP_03	CEP_03	5217	2ND AVE	Lead	Lead	PEX	Copper	2020-10-22	2020-10-22	No		1	2020-11-04	2020-11-16												
5026528	SDWMR_2020B	SDWMR_2020B	6055	JACKSON ST	Lead	Lead	PEX	Copper	2020-10-22	2020-10-22	No		1.64	2020-10-25	2020-11-09												
5050335	SDWMR_2020A	SDWMR_2020A	4370	MURRAY AVE	Lead	Lead	PEX	Copper	2020-10-22	2020-10-22	No		1	2021-01-04	2021-01-19												
5050336	SDWMR_2020A	SDWMR_2020A	4372	MURRAY AVE	Lead	Lead	PEX	Copper	2020-10-22	2020-10-22	No		1	2020-10-26	2020-11-09												
5050337	SDWMR_2020A	SDWMR_2020A	4374	MURRAY AVE	Copper	Lead	PEX	Copper	2020-10-2																		

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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 Recf from Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recf from Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recf from Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recf from Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recf from Lab5
5017632	Ewing St Relay	Ewing St Relay	4036	LIBERTY AVE	Lead	Lead	Copper	Not Replaced	2020-11-09		Yes		3.72	2021-01-08	2021-01-25												
5031864	SDWMR_ 2020B	SDWMR_ 2020B	1549	OAKDENE ST	Lead	Lead	PEX	Copper	2020-11-10	2020-11-10	No		1	2020-11-11	2020-11-23												
5031875	SDWMR_ 2020B	SDWMR_ 2020B	1531	OBERLIN ST	Lead	Lead	PEX	Copper	2020-11-10	2020-11-10	No		9.57	2020-11-11	2020-11-23												
5052542	CEP_03	CEP_03	3016	HARCUM WAY	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-11-10	2020-11-10	No		1	2021-01-14	2021-01-25												
5026588	SDWMR_ 2020B	SDWMR_ 2020B	6101	JACKSON ST	Lead	Lead	PEX	Copper	2020-11-10	2020-11-10	No		1.62	2020-11-17	2020-11-23												
5079909	Urgent Water	Urgent Water	3971	BRIGHTON RD	Copper	Lead	PEX	Copper	2020-11-16	2020-11-16	No	Emergency	1	2020-11-19	2020-11-23												
5015544	SDWMR_ 2019	SDWMR_ 2019	5964	BAUM BLVD	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-11-17	2020-11-17	No		1.46	2020-11-18	2020-11-23												
5049766	SDWMR_ 2020A	SDWMR_ 2020A	4118	MURRAY AVE	Copper	Lead	PEX	Copper	2020-11-17	2020-11-17	No		3.89	2020-11-18	2020-11-30												
5031360	CEP_03	CEP_03	1376	PAULSON AVE	Lead	Lead	PEX	Copper	2020-11-17	2020-11-17	No		1.17	2020-11-23	2020-12-08												
5015542	SDWMR_ 2019	SDWMR_ 2019	5960	BAUM BLVD	Lead	Lead	PEX	Copper	2020-11-18	2020-11-18	No		42.2	2020-11-20	2020-12-08	1	2021-03-26										
5041865	Urgent Water	Urgent Water	515	SELKIRK WAY	Lead	Copper	PEX	Not Replaced	2020-11-18		No	Emergency	5.99	2020-11-22	2020-12-08												
5018907	CEP_03	CEP_03	5131	HILLCREST ST	Lead	Lead	PEX	Copper	2020-11-18	2020-11-18	No		1.85	2020-11-23	2020-12-08												
5041001	CEP_03	CEP_03	7113	MEADE ST	Lead	Lead	PEX	Copper	2020-11-18	2020-11-18	No		6.09	2020-11-19	2020-11-23												
5031924	SDWMR_ 2020B	SDWMR_ 2020B	7220	MINGO ST	Lead	Lead	PEX	Copper	2020-11-19	2020-11-19	No		4.25	2020-11-20	2020-11-30												
5049770	SDWMR_ 2020A	SDWMR_ 2020A	4141	MURRAY AVE	Lead	Copper	PEX	Not Replaced	2020-11-19		No		1	2020-11-22	2020-12-08												
5019416	CEP_03	CEP_03	5217	KINCAID ST	Lead	Lead	PEX	Copper	2020-11-19	2020-11-19	No		1	2020-11-20	2020-11-30												
5049741	SDWMR_ 2020A	SDWMR_ 2020A	4136	MURRAY AVE	Lead	Lead	PEX	Copper	2020-11-19	2020-11-19	No		10.9	2020-11-24	2020-12-08												
5049780	SDWMR_ 2020A	SDWMR_ 2020A	4109	MURRAY AVE	Lead	Lead	PEX	Copper	2020-11-19	2020-11-19	No		1	2021-01-06	2021-01-19												
5019664	CEP_03	CEP_03	5349	WATERFORD ST	Lead	Lead	PEX	Copper	2020-11-20	2020-11-20	No		5.87	2020-11-23	2020-12-14												
5049738	SDWMR_ 2020A	SDWMR_ 2020A	4142	MURRAY AVE	Lead	Lead	PEX	Copper	2020-11-20	2020-11-20	No		1	2020-11-23	2020-12-08												
5049737	SDWMR_ 2020A	SDWMR_ 2020A	4144	MURRAY AVE	Lead	Lead	PEX	Copper	2020-11-21	2020-11-21	No		1	2020-11-21	2020-12-15	1.1	2020-11-22	2020-11-30									
5014362	CEP_03	CEP_03	320	S AIKEN AVE	Lead	Lead	PEX	Copper	2020-11-23	2020-11-23	No		3.53	2020-11-25	2020-12-08	13.5	2020-11-30	2020-12-29	1.16	2021-05-30	2021-06-21						
5049772	SDWMR_ 2020A	SDWMR_ 2020A	4137	MURRAY AVE	Unknown	Lead	PEX	Copper	2020-11-24	2020-11-24	No		1	2020-11-25	2020-12-08												
5049771	SDWMR_ 2020A	SDWMR_ 2020A	4139	MURRAY AVE	Lead	Lead	PEX	Copper	2020-11-24	2020-11-24	No		6.92	2020-11-25	2020-12-08												
5080518	CEP_03	CEP_03	3805	WILKSBORO ST	Lead	Lead	PEX	Copper	2020-11-25	2020-11-25	No		19.9	2020-11-26	2020-12-08												
5080534	CEP_03	CEP_03	3829	OSWEGO ST	Lead	Lead	PEX	Copper	2020-11-27	2020-11-27	No		1	2020-11-29	2020-12-29												
5063484	CEP_03	CEP_03	1115	FREDONIA ST	Lead	Lead	PEX	Copper	2020-11-27	2020-11-27	No		9.75	2020-12-01	2020-12-14												
5020838	CEP_03	CEP_03	4369	STANTON AVE	Lead	Lead	PEX	Copper	2020-12-02	2020-12-02	No		4.41	2020-12-02	2020-12-29												
5074180	CEP_03	CEP_03	2706	SPRING GARDEN AVE	Lead	Lead	PEX	Copper	2020-12-02	2020-12-02	No		1	2020-12-03	2020-12-29												
5049744	SDWMR_ 2020A	SDWMR_ 2020A	4124	MURRAY AVE	Unknown	Lead	PEX	Copper	2020-12-02	2020-12-02	No		1.86	2020-12-03	2020-12-29												
5010781	Ops	Urgent LSLR	5021	CASTLEMAN ST	Lead	Lead	PEX	Copper	2020-12-04	2020-12-05	No	Emergency	1	2020-12-11	2021-01-06												
5022924	CEP_03	CEP_03	1501	SIMONA DR	Lead	Lead	PEX	Copper	2020-12-04	2020-12-04	No		3.22	2020-12-08	2020-12-29												
5007922	B17_07_A	B17_07_A	3337	PENN AVE	Lead	Copper	PEX	Not Replaced	2020-12-07		No		1	2020-12-14	2020-12-29												
5040516	CEP_03	CEP_03	7114	JONATHAN PL	Lead	Lead	PEX	Copper	2020-12-07	2020-12-07	No		8.74	2021-02-01	2021-02-08												
5007488	Ops	Urgent LSLR	825	CHEROKEE ST	Lead	Lead	PEX	Copper	2020-12-08	2020-12-10	No	Emergency	2.06	2021-01-24													
5077793	Urgent LSLR	Urgent LSLR	1508	DAVIS AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-12-08	2020-12-08	No	Emergency	7.25	2020-12-09	2020-12-29												
5049773	SDWMR_ 2020A	SDWMR_ 2020A	4135	MURRAY AVE	Lead	Lead	PEX	Copper	2020-12-10	2020-12-10	No		9.28	2021-05-10	2021-05-25												
5020737	CEP_03	CEP_03	5557	CAMELIA ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-12-11	2020-12-11	No		4	2020-12-12	2020-12-29												
5054484	Ops	Urgent LSLR	1816	SARAH ST	Lead	Lead	PEX	Copper	2020-12-11	2020-12-11	No	Emergency	6.2	2021-01-26													
5133078	CEP_03	CEP_03	509	N BEATTY ST	Lead	Lead	PEX	Copper	2020-12-14	2020-12-14	No		2.52	2020-12-15	2021-01-06												
5027050	CEP_03	CEP_03	6114	SAINT MARIE ST	Lead	Copper	PEX	Not Replaced	2020-12-15		No		3.01	2020-12-18	2021-01-11												
5051486	CEP_03	CEP_03	24	KOSCIUSKO WAY	Lead	Lead	PEX	Copper	2020-12-15	2020-12-15	No		5.24	2020-12-18	2021-01-11												
5031961	SDWMR_ 2020B	SDWMR_ 2020B	7215	TILDEN ST	Lead	Lead	PEX	Copper	2020-12-15	2020-12-15	No		1	2020-12-20	2021-01-11												
5031963	SDWMR_ 2020B	SDWMR_ 2020B	7227	TILDEN ST	Lead	Lead	PEX	Copper	2020-12-15	2020-12-15	No		1	2020-12-24	2021-01-11												
5026038	SDWMR_ 2020B	SDWMR_ 2020B	1106	N SHERIDAN AVE	Lead	Lead	PEX	Copper	2020-12-16	2020-12-16	No		4.93	2020-12-17	2021-01-11												
5014745	CEP_03	CEP_03	4918	SCIOTA ST	Lead	Lead	PEX	Copper	2020-12-16	2020-12-16	No		1.35	2021-02-22	2021-03-03												
5040425	CEP_03	CEP_03	6840	MCPHERSON BLVD	Lead	Lead	PEX	Copper	2020-12-18	2020-12-18	No		1	2020-12-19	2021-01-11												
5063250	CEP_03	CEP_03	512	LORENZ AVE	Lead	Copper	PEX	Not Replaced	2020-12-21		No		9.19	2020-12-21	2021-01-19												
5069823	CEP_03	CEP_03	43	OVERLOOK ST	Lead	Copper	PEX	Not Replaced	2020-12-28		No		1	2021-01-02	2021-01-19												
5078056	CEP_03	CEP_03	3432	FLEMING AVE	Lead	Copper	PEX	Not Replaced	2020-12-29		No		1.03	2021-01-03	2021-01-19												
5030916	CEP_03	CEP_03	6925	WILTSIE ST	Lead	Copper	PEX	Not Replaced	2020-12-29		No		1.37	2021-01-04	2021-01-25												
5052180	CEP_03	CEP_03	2852	BERG ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2020-12-30	2020-12-30	No		6.44	2021-01-01	2021-01-19												
5017037	Ops	Urgent LSLR	4215	POST ST	Lead	Lead	PEX	Copper	2021-01-09	2021-01-20	No	Emergency	2.01	2021-01-24													
5039047	SDWMR_ 2020A	SDWMR_ 2020A	5820	MORROWFIELD AVE	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-01-19	2021-01-19	No		1	2021-03-17	2021-03-22												
5039096	SDWMR_ 2020A	SDWMR_ 2020A	5832	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-19	2021-01-19	No		2.04	2021-01-29													
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	SDWMR_ 2020A	SDWMR_ 2020A	5850	MORROWFIELD AVE	Lead	Lead	PEX	Copper	2021-01-20	2021-01-20	No		45.7	2021-01-21		1	2021-04-29	2021-05-10									
5040051	SDWMR_ 2020A	SDWMR_ 2020A	3310	SHADY AVENUE EXT	Lead	Lead	PEX	Copper	2021-01-20	2021-01-20	No		1	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												
5014760	Ops	Urgent LSLR	4911	SCIOTA ST	Lead	Lead	PEX	Copper	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 Recfom Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recfom Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recfom Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recfom Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recfom Lab5
5047839	SDWMR_2019	SDWMR_2019	7	TECUMSEH ST	Lead	Lead	PEX	Copper	2021-02-08	2021-02-08	No		3.46	2021-04-14	2021-05-03												
5047840	SDWMR_2019	SDWMR_2019	44205	TECUMSEH	Lead	Lead	PEX	Copper	2021-02-08	2021-02-08	No		1	2021-02-11	2021-03-03												
5031798	SDWMR_2020B	SDWMR_2020B	7225	LEMINGTON AVE	Copper	Lead	PEX	Copper	2021-02-08	2021-02-08	No		4.66	2021-02-09	2021-02-23												
5031819	SDWMR_2020B	SDWMR_2020B	7218	LEMINGTON AVE	Lead	Lead	PEX	Copper	2021-02-08	2021-02-08	No		1	2021-03-29	2021-04-26												
5039091	SDWMR_2020A	SDWMR_2020A	5819	MORROWFIELD AVE	Copper	Lead	PEX	Copper	2021-02-08	2021-02-08	No		1.73	2021-02-09	2021-02-16												
5047944	SDWMR_2019	SDWMR_2019	9	TECUMSEH ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-02-08	2021-02-08	No		1	2021-03-28													
5031851	SDWMR_2020B	SDWMR_2020B	7291	LEMINGTON AVE	Lead	Lead	PEX	Copper	2021-02-09	2021-02-09	No		1.31	2021-02-12	2021-02-23												
5039117	SDWMR_2020A	SDWMR_2020A	5886	BURCHFIELD AVE	Lead	Lead	PEX	Copper	2021-02-10	2021-02-10	No		1	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	SDWMR_2019	SDWMR_2019	5141	LANGHORN ST	Lead	Copper	PEX	Not Replaced	2021-02-11		No		1.12	2021-03-10	2021-04-05												
5048370	SDWMR_2019	SDWMR_2019	5125	LANGHORN ST	Lead	Lead	PEX	Copper	2021-02-12	2021-02-12	No		5.23	2021-02-13	2021-02-23												
5048379	SDWMR_2019	SDWMR_2019	5107	LANGHORN ST	Lead	Lead	PEX	Copper	2021-02-16	2021-02-16	No		1	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	SDWMR_2019	SDWMR_2019	5113	LANGHORN ST	Lead	Lead	PEX	Copper	2021-02-18	2021-02-18	No		1.75	2021-02-22	2021-03-03												
5048335	SDWMR_2019	SDWMR_2019	99	COURTLAND ST	Lead	Copper	PEX	Not Replaced	2021-02-19		No		1	2021-04-10	2021-04-26												
5048332	SDWMR_2019	SDWMR_2019	102	COURTLAND ST	Lead	Lead	PEX	Copper	2021-02-22	2021-02-22	No		1.15	2021-02-27	2021-03-15												
5048333	SDWMR_2019	SDWMR_2019	101	COURTLAND ST	Lead	Lead	PEX	Copper	2021-02-22	2021-02-22	No		1	2021-03-01	2021-03-15												
5048429	SDWMR_2019	SDWMR_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	SDWMR_2020A	SDWMR_2020A	2832	MURRAY AVE	Lead	Lead	PEX	Copper	2021-02-24	2021-02-24	No		15.1	2021-03-17	2021-03-29												
5048329	SDWMR_2019	SDWMR_2019	5152	BLAIR ST	Lead	Lead	PEX	Copper	2021-02-24	2021-02-24	No		8.94	2021-02-27	2021-03-15												
5048284	SDWMR_2019	SDWMR_2019	5153	BLAIR ST	PEX	Lead	PEX	Copper	2021-02-24	2021-02-24	No		1	2021-02-27	2021-03-15												
5031456	SDWMR_2020B	SDWMR_2020B	7126	LEMINGTON AVE	Lead	Copper	PEX	Not Replaced	2021-02-24		No		1	2021-06-17	2021-07-06												
5039551	SDWMR_2020A	SDWMR_2020A	6427	MONITOR ST	Lead	Lead	PEX	Copper	2021-02-25	2021-02-25	No		1.45	2021-02-28	2021-03-15												
5039074	SDWMR_2020A	SDWMR_2020A	5824	BURCHFIELD AVE	Lead	Copper	PEX	Not Replaced	2021-02-25		No		1	2021-02-27	2021-03-15												
5039580	SDWMR_2020A	SDWMR_2020A	6458	MONITOR ST	Copper	Lead	PEX	Copper	2021-02-26	2021-02-26	No		1	2021-02-26	2021-03-15												
5039579	SDWMR_2020A	SDWMR_2020A	6464	MONITOR ST	Lead	Lead	PEX	Copper	2021-02-26	2021-02-26	No		1.97	2021-02-27	2021-03-15												
5039584	SDWMR_2020A	SDWMR_2020A	6440	MONITOR ST	Lead	Lead	PEX	Copper	2021-02-26	2021-02-26	No		15	2021-02-27	2021-03-15	1	2021-06-04	2021-06-14									
5039571	SDWMR_2020A	SDWMR_2020A	6486	MONITOR ST	Lead	Lead	PEX	Copper	2021-03-01	2021-03-01	No		1	2021-03-02	2021-03-15												
5039583	SDWMR_2020A	SDWMR_2020A	6444	MONITOR ST	Lead	Lead	PEX	Copper	2021-03-01	2021-03-01	No		1	2021-03-06	2021-03-22												
5039590	SDWMR_2020A	SDWMR_2020A	6416	MONITOR ST	Lead	Lead	PEX	Copper	2021-03-01	2021-03-01	No		3.18	2021-03-03	2021-03-15												
5048285	SDWMR_2019	SDWMR_2019	5149	BLAIR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-03-01	2021-03-01	No		8.54	2021-03-02	2021-03-15												
5032450	SDWMR_2020B	SDWMR_2020B	7003	UPLAND ST	Lead	Lead	PEX	Copper	2021-03-01	2021-03-01	No		2.91	2021-03-02	2021-03-15												
5032515	SDWMR_2020B	SDWMR_2020B	7018	UPLAND ST	Copper	Lead	PEX	Copper	2021-03-01	2021-03-01	No		5.15	2021-03-03	2021-03-15												
5053458	Ops	Urgent LSLR	95	S 13TH ST	Lead	Lead	PEX	Copper	2021-03-02	2021-03-05	No	Emergency	1	2021-03-27	2021-04-26												
5032517	SDWMR_2020B	SDWMR_2020B	7014	UPLAND ST	Lead	Lead	PEX	Copper	2021-03-02	2021-03-02	No		17	2021-03-04	2021-03-15	1.71	2021-06-20	2021-07-06									
5048321	SDWMR_2019	SDWMR_2019	5136	BLAIR ST	Lead	Lead	PEX	Copper	2021-03-02	2021-03-02	No		1	2021													

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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
5049871	SDWMR_2020A	SDWMR_2020A	1110	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-25	2021-03-25	No		1	2021-04-06	2021-04-19												
5037866	Ops	Private Reimbursement	5905	DOUGLAS ST	Lead	Lead	PEX	Non-Lead	2021-03-29	2021-03-26	No	Emergency	1	2021-07-06	2021-07-19												
5039441	SDWMR_2020A	SDWMR_2020A	6317	EBDY ST	Lead	Lead	PEX	Copper	2021-03-29	2021-03-29	No		1.19	2021-03-30													
5047930	SDWMR_2019	SDWMR_2019	201	W ELIZABETH ST	Lead	Lead	PEX	Copper	2021-03-29	2021-03-29	No		1	2021-04-13	2021-04-26												
5050314	SDWMR_2020A	SDWMR_2020A	1137	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-30	2021-03-30	No		18	2021-05-20	2021-06-02												
5032570	SDWMR_2020B	SDWMR_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	SDWMR_2020B	SDWMR_2020B	7104	MOUNT VERNON ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-03-30	2021-03-30	No		1	2021-03-31	2021-04-19												
5039438	SDWMR_2020A	SDWMR_2020A	6327	EBDY ST	Lead	Lead	PEX	Copper	2021-03-30	2021-03-30	No		1	2021-03-31	2021-04-19												
5047860	SDWMR_2019	SDWMR_2019	5016	BLAIR ST	Lead	Lead Tailpiece	PEX	Copper Tailpiece	2021-03-30	2021-03-30	No		2.59	2021-03-31													
5050253	SDWMR_2020A	SDWMR_2020A	1152	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-03-31	2021-03-31	No		5.09	2021-04-02													
5039389	SDWMR_2020A	SDWMR_2020A	6316	EBDY ST	Lead	Lead	PEX	Copper	2021-04-01	2021-04-01	No		2.02	2021-04-04													
5050033	SDWMR_2020A	SDWMR_2020A	991	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-05	2021-04-05	No		1.09	2021-04-08	2021-04-19												
5039387	SDWMR_2020A	SDWMR_2020A	6310	EBDY ST	Lead	Copper	PEX	Not Replaced	2021-04-05		No		1	2021-04-06													
5032480	SDWMR_2020B	SDWMR_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	SDWMR_2020A	SDWMR_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									
5039394	SDWMR_2020A	SDWMR_2020A	6334	EBDY ST	Lead	Lead	PEX	Copper	2021-04-07	2021-04-07	No		1	2021-06-07	2021-06-21												
5049918	SDWMR_2020A	SDWMR_2020A	1012	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-08	2021-04-08	No		9.6	2021-04-09	2021-04-19												
5050000	SDWMR_2020A	SDWMR_2020A	974	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-08	2021-04-08	No		1	2021-04-09	2021-04-19												
5039393	SDWMR_2020A	SDWMR_2020A	6326	EBDY ST	Lead	Copper	PEX	Not Replaced	2021-04-08		No		1.46	2021-04-09	2021-04-19												
5050013	SDWMR_2020A	SDWMR_2020A	940	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-09	2021-04-09	No		96.4	2021-04-10	2021-04-26												
5049511	SDWMR_2020A	SDWMR_2020A	939	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-09	2021-04-09	No		2.63	2021-04-27	2021-05-03												
5049510	SDWMR_2020A	SDWMR_2020A	941	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-12	2021-04-12	No		1	2021-04-13	2021-04-26												
5049516	SDWMR_2020A	SDWMR_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	SDWMR_2020A	SDWMR_2020A	930	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-13	2021-04-13	No		1	2021-04-22	2021-05-03												
5050016	SDWMR_2020A	SDWMR_2020A	934	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-16	2021-04-16	No		1.14	2021-04-21	2021-05-03												
5045652	SDWMR_2020A	SDWMR_2020A	909	GREENFIELD AVE	Lead	Copper	PEX	Not Replaced	2021-04-16		No		1	2021-04-17	2021-04-26												
5045649	SDWMR_2020A	SDWMR_2020A	912	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-16	2021-04-16	No		1.4	2021-04-17	2021-04-26												
5045688	SDWMR_2020A	SDWMR_2020A	731	MCCASLIN ST	Copper	Lead	PEX	Copper	2021-04-16	2021-04-16	No		2.19	2021-04-22	2021-05-03												
5049504	SDWMR_2020A	SDWMR_2020A	916	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-20	2021-04-20	No		1	2021-04-21	2021-05-03												
5045645	SDWMR_2020A	SDWMR_2020A	840	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-23	2021-04-23	No		1	2021-06-29	2021-07-12												
5045691	SDWMR_2020A	SDWMR_2020A	725	MCCASLIN ST	Copper	Lead	PEX	Copper	2021-04-23	2021-04-23	No		1.85	2021-04-26	2021-05-03												
5049521	SDWMR_2020A	SDWMR_2020A	915	GREENFIELD AVE	Copper	Lead	PEX	Copper	2021-04-23	2021-04-23	No		8.66	2021-04-28	2021-05-25												
5050015	SDWMR_2020A	SDWMR_2020A	936	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-04-26	2021-04-26	No		1	2021-06-07	2021-06-21												
5007626	Ops	Urgent LSLR	3204	IOWA ST	Lead	Lead	PEX	Copper	2021-05-03	2021-05-21	No	Emergency	4.36	2021-05-24	2021-06-14												
5045663	SDWMR_2020A	SDWMR_2020A	829	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-05-03	2021-05-03	No		1	2021-07-09	2021-07-26												
5045662	SDWMR_2020A	SDWMR_2020A	831	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-05-03	2021-05-03	No		1	2021-05-06	2021-05-17												
5045673	SDWMR_2020A	SDWMR_2020A	803	GREENFIELD AVE	Lead	Lead	PEX	Copper	2021-05-03	2021-05-03	No		1	2021-05-05	2021-05-25												
5014430	Ops	Private Reimbursement	345	ROUP AVE	Lead	Lead	PEX	Copper	2021-05-04	2021-04-27	No	Emergency	3.21	2021-05-08	2021-06-07												
5045639	SDWMR_2020A	SDWMR_2020A	820	GREENFIELD																							

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Location Id	Work Order Public	Work Order Private	House	Street	Site Verificati on Public	Site Verificati on Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order Public2	Work Order Private2	Site Verificati on Public2	Site Verificati on Private2	Replaced Material Public2	Replaced Material Private2	Replacement Date Public2	Replacement Date Private2	Is Partial	Emergency	Lab Result_p pb1	Dt Collected1	Dt Result Recf from Lab1	Lab Result_p pb2	Dt Collected2	Dt Result Recf from Lab2	Lab Result_p pb3	Dt Collected3	Dt Result Recf from Lab3	Lab Result_p pb4	Dt Collected4	Dt Result Recf from Lab4	Lab Result_p pb5	Dt Collected5	Dt Result Recf from Lab5
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												
5031892	Ops	BLG_01	1542	OBERLIN 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	1	2020-11-16	2020-11-23												
5031893	Ops	BLG_01	1544	OBERLIN 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												
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											
5058344	Ops	BLG_01	217	MAPLE TER	Lead	Lead	PEX	Not Replaced	2018-02-14		SDWMR_2020A	SDWMR_2020A	PEX	ad Tailpie	PEX	Copper Tailpiece	2021-07-09	2021-07-09	Yes	Emergency	2	2018-02-26	2018-03-07												
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												
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												
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		4	2018-12-03	2018-12-17												
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												
5059744	CEP	CEP	326	MERIDAN ST	Lead	Lead	PEX	Copper	2019-01-04	2019-01-04	SDWMR_2020A	SDWMR_2020A	PEX	Copper	PEX	Not Replaced	2021-05-05		No		6.03	2019-01-07	2019-03-28												
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												
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												
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												
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	1	2020-08-05	2020-08-18												
5032896	B04_09_B	B04_09_B	1408	N HOMEWOOD AVE	Lead	Lead	PEX	Copper	2019-07-25	2019-07-25	SDWMR_2020B	SDWMR_2020B	PEX	Copper	PEX	Not Replaced	2021-03-25		No		1	2019-08-06	2019-08-12												
5032895	B04_09_B	B04_09_B	1406	N HOMEWOOD 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												
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		1	2019-09-18	2019-09-24												
5056977	Ops	Urgent LSLR	608	INDUSTRY ST	Lead	Lead	PEX	Copper	2019-07-31	2019-08-08	SDWMR_2020A	SDWMR_2020A	Copper	Copper	PEX	Not Replaced	2020-07-09		No	Emergency	3.05	2019-08-10	2019-08-18												
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												
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												
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		1	2019-11-17	2019-11-26												
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												
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												
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												
5039119	B07_05_A	B07_05_A	5892	BURCHFIELD AVE	Lead	ad Tailpie	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		1	2021-04-04	2021-04-19												
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		1	2019-12-11	2020-01-14												
5073640	B02_01_B	B02_01_B	129	MARSHALL AVE	Lead	Copper	PEX	Not Replaced	2019-12-16		Ops	Urgent LSLR	Copper	Lead	Not Replaced	Copper		2021-04-30		No		4.59	2019-12-17	2020-01-08											
5055345	B06_03_B	B06_03_B	153	MONASTERY PL	Lead	Copper	PEX	Not Replaced	2020-01-08		SDWMR_2020A	SDWMR_2020A	PEX	Copper	PEX	Not Replaced	2020-10-07		No		30.1	2020-01-11	2020-01-22												
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												
5060808	B05_02_B	B05_02_B	474	WYOLA ST	Lead	Lead	PEX	Copper	2020-02-11	2020-02-11	SDWMR_2020A	SDWMR_2020A	PEX	Copper	PEX	Not Replaced	2021-07-16		No		1	2020-02-13	2020-02-24												
5060807	B05_02_B	B05_02_B	506	WYOLA ST	Lead	Copper	PEX	Not Replaced	2020-02-11		SDWMR_2020A	SDWMR_2020A	PEX	Copper	PEX	Not Replaced	2021-07-28		No		6.86	2020-04-02	2020-04-13												
5028210	B11_07	B11_07	1020	WINTERTON ST							Ops	Urgent LSLR	Lead	Lead	PEX	Copper		2020-07-27	2020-08-10	No		3.63	2020-08-11	2020-08-17											
5048145	Ops		412	E ELIZABETH ST	Lead	Lead	Not Replaced	Not Replaced			CEP_03	CEP_03	Lead	Lead	PEX	Copper		2020-12-08		No	Emergency	1	2021-04-12	2021-04-26											
5058128	B05_02_REMOVE		336	VIRGINIA AVE							Ops	Urgent LSLR	Lead	Lead	PEX	Copper		2021-05-03	2021-05-03	No		1.24	2021-05-06	2021-06-07											
5061496	B05_02_A	B05_02_A	107	WESTWOOD ST							SDWMR_2020A	SDWMR_2020A	Lead	Copper	PEX	Not Replaced	2021-06-09		No		12.8	2021-06-10	2021-06-21												

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_III.1

FR III.1

FR-III.1

Pittsburgh Water & Sewer Authority															
Operataing Expenses by Account															
	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
	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended
Direct Operating Expenses	12/31/2015	12/31/2016	12/31/2017	12/31/2018	3/31/2019	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021	6/30/2021	9/30/2021
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
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
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
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
4020 Pay Adjustments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4025 Bonus	-	3,500	-	5,500	-	-	-	-	-	-	-	-	-	-	20,500
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
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
4040 Other	-	262	16,230	29,800	200	100	100	100	-	-	-	-	-	-	-
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
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
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
4070 Military Leave	1,092	2,982	-	-	-	2,308	2,885	2,885	594	594	594	792	-	-	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
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
4081 Paid Parental Leave	-	-	-	-	-	-	6,204	16,600	4,110	4,776	15,180	17,939	-	-	-
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	-	-	-
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
4095 Severence	102,382	669,892	487,524	152,174	-	-	-	-	-	-	-	3,600	-	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
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
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
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
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
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
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
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
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
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
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
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
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
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
4185 Retirement Benefit	-	-	-	-	-	-	1,962	10,688	12,944	31,306	60,946	95,076	31,632	72,165	112,714
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)
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
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

Pittsburgh Water & Sewer Authority
Operataing Expenses by Account

	12 Months Ended	12 Months Ended	HTY 12 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended
Direct Operating Expenses	12/31/2015	12/31/2016	12/31/2017	12/31/2018	3/31/2019	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021	6/30/2021	9/30/2021
<u>Chemicals</u>															
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
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
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
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
5030 Chlorine Cylinders	-	48,111	-	-	-	-	-	-	-	-	-	-	1,493	1,493	1,493
5035 Chlorine Rail Car	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29,447
5040 Citric Acid	11,773	11,655	1,670	-	-	-	-	-	-	4,910	6,580	9,920	-	3,200	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
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
5060 Lime	209,399	59,069	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
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
5070 Powdered Active Carbon	-	30,926	-	(0)	-	-	-	-	-	-	-	-	-	29,684	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
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
5085 Sodium Carbonate Peroxyhy	-	12,720	12,720	16,960	-	-	-	-	-	-	8,480	16,480	-	-	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
<u>Equipment</u>															
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
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
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
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
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
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
5160 Office Equipment	596	-	3,892	1,306	238	359	359	4,930	325	36,891	36,891	37,070	308	453	5,988
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
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
<u>Materials</u>															
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
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
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
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
5250 Sand	71,012	26,221	47,087	13,072	2,811	4,981	7,572	9,971	-	1,319	2,658	2,658	1,377	2,760	3,450
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
5260 Stone	-	-	-	-	-	-	10,222	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
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

Pittsburgh Water & Sewer Authority
Operataing Expenses by Account

	12 Months Ended	12 Months Ended	HTY 12 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended
Direct Operating Expenses	12/31/2015	12/31/2016	12/31/2017	12/31/2018	3/31/2019	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021	6/30/2021	9/30/2021
<u>Operating Contracts</u>															
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
5310 Boiler Compressr Elevtr	3,602	544	9,504	53,336	18,653	17,963	17,963	17,963	-	-	-	-	-	119	832
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
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
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
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
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
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
5350 Key.Lock Serv	11	-	524	1,363	-	-	-	11	-	-	1,230	1,230	39	39	130
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
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
5375 Radionuclides	-	4,511	-	-	-	-	-	-	-	-	-	-	-	-	-
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
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
<u>Repairs & Maintenance</u>															
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
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
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
5411 Computer Software Support	-	-	-	-	-	-	-	-	-	-	47,500	48,050	11,875	23,750	47,500
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
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
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
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
5422 Fence Installation	-	8,306	1,541	6,292	-	-	-	1,966	-	13,309	13,309	13,309	239,142	239,142	239,142
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
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
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
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
5457 Office Equip Repairs	13,146	4,116	-	-	-	100	100	100	-	-	1,156	1,156	781	781	781
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
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
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
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
5486 Misc Tool Repairs	380	672	500	5,470	71	71	467	467	779	779	779	779	648	834	834
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	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
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
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

Pittsburgh Water & Sewer Authority
Operataing Expenses by Account

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
	Ended	Ended	12 Months	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended	Ended
	12/31/2015	12/31/2016	12/31/2017	12/31/2018	3/31/2019	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021	6/30/2021	9/30/2021
<u>Misc. Operating</u>															
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
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
<u>Inventory - Castings</u>															
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
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
6035 Casting Sewer Inlet	-	8,443	3,273	490	-	-	-	3,220	7,276	8,169	15,068	15,068	-	1,798	12,352
6060 Casting Water Valve Box	-	-	39,613	-	-	-	122	49,426	16,043	42,472	114,844	130,605	12,594	111,130	219,244
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
<u>Inventory - Clarifier</u>															
6115 Clarifier Part Floc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6120 Clarifier Part Screw	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6125 Clarifier Part Sludge	-	-	19,987	-	-	-	-	-	-	-	-	-	-	-	-
Inventory - Clarifier	\$ -	\$ -	\$ 19,987	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<u>Inventory - Equipment</u>															
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
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
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)
<u>Inventory - Hardware</u>															
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
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
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
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
6340 Machinery Misc	-	-	490	-	-	-	-	-	3,180	8,950	8,950	10,015	8,475	8,475	8,475
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
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
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
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
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
<u>Inventory - Heavy Equipment</u>															
6420 Backhoe	1,796	1,242	1,393	1,217	(627)	218	585	3,861	-	-	-	556	-	789	789
Inventory - Heavy Equipment	\$ 1,796	\$ 1,242	\$ 1,393	\$ 1,217	\$ (627)	\$ 218	\$ 585	\$ 3,861	\$ -	\$ -	\$ -	\$ 556	\$ -	\$ 789	\$ 789

Pittsburgh Water & Sewer Authority
Operataing Expenses by Account

	12 Months Ended	12 Months Ended	HTY 12 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended
Direct Operating Expenses	12/31/2015	12/31/2016	12/31/2017	12/31/2018	3/31/2019	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021	6/30/2021	9/30/2021
<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
6506 Batteries	-	-	-	-	-	-	59	210	-	64	64	596	-	-	-
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
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
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
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
6552 Paper Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6555 Pump Oil	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6565 Sewer Matls.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
6580 Vehicle Oil	5,116	-	-	-	-	-	-	-	-	681	681	1,588	-	1,021	1,942
6585 Welding Supplies-Inventory	336	98	15,339	(117)	107	113	507	562	-	-	9	-	-	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
<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
6680 Yard	-	-	-	-	-	-	950	33,567	18,038	69,478	112,291	136,439	36,735	102,070	122,181
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
<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
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
6755 Pipe Plastic	1,177	-	-	-	-	-	-	21	72	2,609	2,796	2,909	54	1,856	1,994
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
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
<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
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
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
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
<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
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
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
7015 Permits	13,641	6,009	7,165	24,134	9,696	50,824	53,894	57,827	48,820	49,920	49,920	757,270	53,450	414,557	441,954
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
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
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
<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
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
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

Pittsburgh Water & Sewer Authority
Operataing Expenses by Account

	12 Months Ended	12 Months Ended	HTY 12 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended	12 Months Ended	3 Months Ended	6 Months Ended	9 Months Ended
Direct Operating Expenses	12/31/2015	12/31/2016	12/31/2017	12/31/2018	3/31/2019	6/30/2019	9/30/2019	12/31/2019	3/31/2020	6/30/2020	9/30/2020	12/31/2020	3/31/2021	6/30/2021	9 Months Ended 9/30/2021
<u>Leases & Rents</u>															
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
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
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
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
<u>Professional Services</u>															
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
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	46,000	48,613	48,613	48,613	48,613	37,500	50,198	50,198
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
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
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
7332 Consulting Engineers	-	-	238,347	147,182	-	15,472	15,472	26,831	10,366	10,366	10,366	69,487	-	-	-
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
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
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
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
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	117,308	117,308	117,308	117,308
7365 Ins.WorkersComp	-	-	-	-	-	-	-	-	444,043	444,043	444,043	480,217	425,469	425,469	425,469
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
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
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
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
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
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
7390 Water Liens	-	-	-	-	-	-	8,000	8,000	30,000	30,000	30,000	30,000	40,000	160,000	260,151
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
<u>Supplies</u>															
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
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
7423 Fuel Kerosene	-	-	-	-	-	-	-	261	1,121	628	628	1,212	644	644	644
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
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
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
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
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
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
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

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
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Appendix J - Future Debt

[illegible]

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
2019 Large Diameter Water Main Improvements (Rising Main 3 & 4)	2019-325-103-0	Controlled Total	Capital Bond	AECOM TECHNICAL SERVICES, INC.	PO39813	CM-CI	CM/CI Services	Approved	09.29.2021
M-29 Outfall Improvements	2018-424-103-0	Controlled By Commitment Item	Capital Bond	Allison Park Contractors, Inc. (Cap)	PO38510	General Contractor	Construction - Repair of existing culvert	Approved	09.27.2021
2018 Sewers Under Structures	2017-424-110-0	Controlled Total	Capital Bond	CITY OF PITTSBURGH FORESTRY DIVISION (Capital)	PO39759	Other Services	Tree Removal - Oakwood Road site	Approved	09.24.2021
2022 Large Diameter Sewer Rehabilitation	2021-424-105-0	Controlled Total	Capital Bond	GPD Group (Capital)	PO39713	Wastewater Collections Systems	GPD-SWR-02 Design Services	Approved	09.17.2021
2020 Small Diameter Sewer Rehabilitation (Defined Sites) Contract 2	2020-424-100-1	Controlled Total	Capital Bond	INSITUFORM TECHNOLOGIES	PO39616	General Contractor	Rehab of Sewer lines	Approved	09.16.2021
2021 Sewer Reconstruction	2021-424-100-0	Controlled Total	Capital Bond	D'Appolonia (Capital)	PO39735	Geotechnical Studies	DAE-GEO-05 Geotechnical Services	Approved	09.16.2021
2021 Sewer Reconstruction	2021-424-100-0	Controlled Total	Capital Bond	D'Appolonia (Capital)	PO39453	Geotechnical Studies	DAE-GEO-04	Approved	09.09.2021
2022 Small Diameter Water Main Replacement	2021-325-104-0	Controlled Total	Capital Bond	GAI CONSULTANTS INC. (Capital)	PO39530	Water Systems	GAI-WTR-05 Design Services	Approved	09.07.2021
2019 Small Diameter Water Main Replacement - Second Ave & Tecumseh St	2019-325-101-1	Controlled Total	Capital Bond	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO39451	CM-CI	HT-CM-42 CM/CI	Approved	09.07.2021
2019 Large Diameter Water Main Improvements (Rising Main 3 & 4)	2019-325-103-0	Controlled Total	Capital Bond	W. A. Petrakis Contracting & Landscaping Co. (Capital)	PO39456	General Contractor	Construction Contract	Approved	08.31.2021
2020 Small Diameter Sewer Rehabilitation - Contract 1	2020-424-100-0	Controlled Total	PennVest Loans	DUQUESNE LIGHT	PO39457	Other Services	Duquesne Light Pole Hold	Approved	08.27.2021
Volunteers Field Ballfield Regrading	2018-GI-104-1	Controlled Total	Capital Bond	MICHAEL BAKER, INC. (Capital)	PO39452	CM-CI	MBI-CM-13 CM/CI	Approved	08.26.2021
Herron Hill Reservoir Improvements: Sodium Hypochlorite Building - General	2019-323-100-1	Controlled Total	Capital Bond	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO39455	CM-CI	HT-CM-41 CM/CI	Approved	08.24.2021
Thomas and McPherson Green Infrastructure	2018-GI-106-0	Controlled Total	Capital Bond	FRANK J ZOTTOLA CONSTRUCTION, INC. (Capital)	PO39254	General Contractor	Construction Contract	Approved	08.19.2021
2020 Large Diameter Main Replacement Program (Four Mile Run Water Main Relocation)	2020-325-109-0	Controlled Total	Capital Bond	PENNDOT-OFFICE OF CONTROLLER OPS (Capital)	PO39266	Other Services	Permit Fee for HOP	Approved	08.19.2021
31st Ward Sewer System - DSIC Wastewater	2017-424-100-0	Controlled Total	DSIC - Wastewater	MS Consultants, Inc. (Capital)	PO39438	Wastewater Collections Systems	MS-SWR-04 Design Services	Approved	08.19.2021
2019 Small Diameter Water Main Replacement - Second Ave & Tecumseh St	2019-325-101-1	Controlled Total	Capital Bond	A. FOLINO CONSTRUCTION, INC. (Capital)	PO39265	General Contractor	Construction Contract	Approved	08.19.2021
2018 Sewers Under Structures	2017-424-110-0	Controlled Total	Capital Bond	A. MERANTE CONTRACTING, INC. (Capital)	PO38844	General Contractor	Construction Services	Approved	08.19.2021
2021 Small Meter Replacement	2021-325-106-0	Controlled Total	Capital Bond	Neptune Technology Group (Capital)	PO39253	Other Services	Neptune Meter Small Meter	Approved	08.19.2021
2021 Small Meter Replacement	2021-325-106-0	Controlled Total	Capital Bond	L/B WATER SERVICE, INC. (Capital)	PO39251	Other Services	Water Small Meters	Approved	08.19.2021
2021 Small Diameter Sewer Rehabilitation - Contract 2	2020-424-106-1	Controlled Total	Capital Bond	INSITUFORM TECHNOLOGIES	PO39313	General Contractor	Construction contract	Approved	08.18.2021
Fleury Way Stormwater Infrastructure Improvements -Capital	2021-424-102-0	Controlled Total	Capital Bond	A. FOLINO CONSTRUCTION, INC. (Capital)	PO39315	General Contractor	Construction Contract	Approved	08.09.2021
2020 Sewers Under Structures - Contract 2	2020-424-104-1	Controlled Total	Capital Bond	G. Stephens, Inc. (Capital)	PO38737	CM-CI	GSi-CM-08 CM/CI	Approved	08.06.2021
2021 Small Diameter Sewer Rehabilitation - Contract 3	2020-424-106-2	Controlled Total	Capital Bond	JET JACK, INC. (Capital)	PO39177	General Contractor	Construction Contract for Jet Jack Inc	Approved	08.03.2021
Fleury Way Stormwater Infrastructure Improvements -Capital	2021-424-102-0	Controlled Total	Capital Bond	MOTT MACDONALD (Capital)	PO39114	CM-CI	MM-CM-34	Approved	07.29.2021
Highland No. 2 Reservoir Liner and Cover Replacement	2019-323-102-0	Controlled Total	Capital Bond	H.R. Gray and Associates, Inc. (Capital)	PO39115	CM-CI	HRG-CM-08 CM/CI	Approved	07.29.2021
2021 Large Diameter Sewer Rehabilitation Project	2020-424-107-0	Controlled Total	Capital Bond	MOTT MACDONALD (Capital)	PO39119	CM-CI	MM-CM-33 CM/CI	Approved	07.29.2021
2020 Small Diameter Sewer Rehabilitation - Contract 1	2020-424-100-0	Controlled Total	PennVest Loans	MOTT MACDONALD (PennVest)	PO39175	CM-CI	MM-CM-17 CM/CI	Approved	07.22.2021



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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$19,333,383	3,343,250	1,655,000	3,853,059	3,853,059	3,353,059	\$16,057,427	

Water Treatment Plant

Aspinwall Utility Water Improvements - Electrical

PROJECT NUMBER: 2017-322-101-5

WARD: Systemwide

PHASE:

Construction

PRIORITY:

Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Electrical work related to installation of heaters and SCADA.

PROJECT JUSTIFICATION:

Electrical systems at the Water Treatment Plant have reached the end of their useful life and need to be replaced.

RISK(S):

Failure of critical electrical systems 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$210,000	210,000	0	0	0	0	\$210,000	

Water Treatment Plant

Aspinwall Utility Water Improvements - General/Mechanical

PROJECT NUMBER: 2017-322-101-4

WARD: Systemwide

PHASE:

Construction

PRIORITY:

Safety, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Pipe demolition, pipe and appurtenance installation for the Water Treatment Plant's potable and non-potable water line system.

PROJECT JUSTIFICATION:

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 in the ability to feed treatment chemicals.

RISK(S):

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$1,068,750	1,068,750	0	0	0	0	\$1,068,750	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$26,561,635	2,337,500	4,250,000	13,732,500	5,482,500	0	\$25,802,500	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$24,847,854	1,228,500	1,228,500	9,850,500	9,850,500	2,457,000	\$24,615,000	

Water Treatment Plant

Aspinwall Water Treatment Plant Security Fence, Lighting, and Surveillance

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE: Not Started
PRIORITY: Safety
PROJECT DESCRIPTION: Install new fencing, lighting, and surveillance around the Water Treatment Plant.
PROJECT JUSTIFICATION: The fencing and security infrastructure around the Water Treatment Plant is in need of upgrades.
RISK(S): Increases the likelihood of security issues.
IMPACT ON OPERATIONS: Increased security around the Water Treatment Plant.
ALTERNATIVES TO THE RECOMMENDED ACTION: Delay the implementation of the security upgrades.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$308,659	308,659	0	0	0	0	\$308,659	

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 108 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$28,132,103	1,986,316	8,406,316	16,606,316	0	0	\$26,998,948	

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):

The existing corrosion control system was not adequate to maintain lead levels below the PA DEP action limit.

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:

Abandon Membrane Filtration Plant and the Highland No. 1 Reservoir and add orthophosphate at the Water Treatment Plant or use another less effective corrosion control method.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$9,346,377	600,404	0	0	0	0	\$600,404	

Water Treatment Plant

Emergency Clarifier Repairs - Clarifiers No. 1, 2 & 4

PROJECT NUMBER: 2017-322-101-6

WARD: Systemwide

PHASE:

Construction

PRIORITY:

Water Quality, Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Replacement of mechanical equipment in Clarifier basin #2, concrete repairs in basins #2 and #4, replacement of sluice gate stem and actuator in basin #1.

PROJECT JUSTIFICATION:

Having two clarifier basins inoperable at the same time would likely result in inadequate turbidity removal which is a critical treatment process.

RISK(S):

The clarifier basins have come to the end of their useful life and are nearly inoperable. Failure of these basins would negatively impact the treatment of water.

IMPACT ON OPERATIONS:

Increased operating efficiency, flexibility, reliability, and life expectancy of equipment.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$778,082	258,662	0	0	0	0	\$258,662	

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): None.
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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,250,000	0	0	199,334	1,618,744	1,431,922	\$3,250,000	

Water Treatment Plant

Instrumentation Upgrade

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

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 (turbidimeters, DO, Conductivity, or the like).

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$1,040,000	1,040,000	0	0	0	0	\$1,040,000	

Water Treatment Plant

Lime Slurry System Improvements

PROJECT NUMBER: 2017-322-101-7

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 (for spillage).

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,294,350	1,412,017	882,333	0	0	0	\$2,294,350	

Water Treatment Plant

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.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$24,266,869	1,318,008	0	1,318,008	2,553,640	18,863,985	\$24,053,641	



Water Pumping and Storage



Water Pumping and Storage

2019 Large Diameter Water Main Improvements - Rising Mains 3 & 4

PROJECT NUMBER: 2019-325-103-0

WARD: Systemwide

PHASE:

Design

PRIORITY:

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

PROJECT DESCRIPTION:

Condition assessment and rehabilitation or replacement of Rising Mains 3 and 4. Replacement or rehabilitation depending upon existing condition of rising mains.

PROJECT JUSTIFICATION:

Rising Mains 3 and 4 feed the Highland 2 Pump Station. The capacity of these rising mains may need to be increased to accommodate additional flow during the bypass of the clearwell. These mains will need to accommodate demand from both Highland No. 1 and Highland No. 2 reservoirs during the bypass of the clearwell as well as to supply a redundant feed to the Highland No. 1 reservoir.

RISK(S):

The consequences of failure for larger mains are much greater than for smaller distribution mains. Consequences 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$28,929,495	11,000,000	11,552,785	6,025,215	0	0	\$28,578,000	

Water Pumping and Storage

Aspinwall Pump Station Improvements

PROJECT NUMBER: 2017-323-104-0

WARD: Systemwide

PHASE:

Design

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$28,720,269	2,135,526	8,490,526	18,090,526	0	0	\$28,716,578	

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 new 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 the Authority'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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$58,107,771	5,000,000	16,661,613	34,338,387	0	0	\$56,000,000	

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 the Authority 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$24,456,425	1,668,553	6,182,033	16,600,073	0	0	\$24,450,659	

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:

The Authority boosts chlorine residual at a majority of its storage facilities. Recent changes to PA DEP 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$9,732,913	2,698,491	3,523,793	3,261,896	0	0	\$9,484,180	

Water Pumping and Storage

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 108 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$57,009,491	200,000	200,000	1,502,024	29,842,950	25,264,517	\$57,009,491	

Water Pumping and Storage

Disinfection By-Products Mitigation

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

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 is exceeding the value of the system. When the system fails, water is sprayed outside the tank facility leading to customer complaints.

RISK(S):

Delaying the replacement of the existing systems will result in increased downtime of the existing systems for repairs. 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 has resulted in loss of water and numerous customer complaints as well as possible failure to meet DEP regulations.

		<u>CASH FLOW SUMMARY</u>						<u>FUNDING SOURCE(S)</u>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,610,000	1,455,000	0	1,155,000	0	0	\$2,610,000	

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 PA DEP'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 the Authority's 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$4,049,999	0	0	465,517	1,792,241	1,792,241	\$4,049,999	

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$10,960,000	0	0	1,259,770	4,850,115	4,850,115	\$10,960,000	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$4,739,281	2,751,211	0	0	0	0	\$2,751,211	

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$1,110,000	0	0	127,586	491,207	491,207	\$1,110,000	

Water Pumping and Storage

Highland No. 2 Reservoir Improvements

PROJECT NUMBER: 2019-323-102-0

WARD: Systemwide

PHASE:

Design

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 PA DEP regulatory requirements for distribution chlorine residual. Existing reservoir outlet structure must be upgraded to accommodate new Highland Reservoir Pump Station.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$27,252,938	17,893,400	8,946,700	0	0	0	\$26,840,100	

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 compliant water supply for the Highland No. 1 Service Area currently flows through the Highland No. 1 Reservoir and the Membrane Filtration Plant. 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), Membrane Filtration Plant, or Bruecken Pump Station would result in the loss of compliant water supply to approximately 40% of the Authority'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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$36,056,903	10,000,000	10,670,664	12,926,750	0	0	\$33,597,414	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$10,396,839	0	0	0	2,143,678	8,253,161	\$10,396,839	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$600,000	0	0	68,966	265,517	265,517	\$600,000	

Water Pumping and Storage

Lanpher Reservoir Improvements

PROJECT NUMBER: 2017-323-105-0

WARD: 25

PHASE:

Design

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 PA DEP 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$16,859,005	1,000,000	3,879,693	7,879,693	0	0	\$12,759,386	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$831,772	171,489	660,233	0	0	0	\$831,722	

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 existign 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$890,100	890,100	0	0	0	0	\$890,100	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$4,195,000	0	0	482,184	1,856,408	1,856,408	\$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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$16,865,000	0	0	1,938,506	7,463,247	7,463,247	\$16,865,000	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$171,489	0	171,489	0	0	0	\$171,489	

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. Additionally, it exposes the Authority's staff and contractors to safety issues.
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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,125,001	0	0	244,253	940,374	940,374	\$2,125,001	



Water Distribution



Water Distribution System

Bus Rapid Transit (BRT) Water Distribution

PROJECT NUMBER: 2020-325-102-0

WARD: 1 & 4

PHASE:

Design

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. However, first a study should be completed to ensure proper size of these mains as they could be oversized.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$11,697,747	9,200,000	2,300,000	0	0	0	\$11,500,000	

Water Distribution System

2023-2025 District Metering

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$9,850,000	0	0	3,190,000	3,280,000	3,380,000	\$9,850,000	
2023 District Metering		0	0	3,190,000	0	0	\$3,190,000	Debt (Revenue Bonds)
2024 District Metering		0	0	0	3,280,000	0	\$3,280,000	
2025 District Metering		0	0	0	0	3,380,000	\$3,380,000	

Water Distribution System

District Water and Pressure Meters

PROJECT NUMBER: 2017-325-114-0

WARD: Systemwide

PHASE:

Construction

PRIORITY:

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

PROJECT DESCRIPTION:

Installation of water meters and pressure monitors in the distribution system to determine water usage and loss, and pressure loss.

PROJECT JUSTIFICATION:

This project will help determine areas of water loss in the water system. This information can then be used to develop an action plan to mitigate water loss.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	DSIC - Water
Total	\$2,004,204	485,135	0	1,455,404	0	0	\$1,940,539	

Water Distribution System

Duck Hollow

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 or replaced. 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,000,270	0	0	3,000,270	0	0	\$3,000,270	

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 lead to 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$830,000	0	0	0	0	830,000	\$830,000	

Water Distribution System

Highland Park MFP Improvements Project

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE:
Not Started

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

PROJECT DESCRIPTION:
Rehabilitation of the backwash recovery system; repairs to deteriorated areas of the reinforced concrete metal floor deck slab that comprises the second floor of the MFP building; repair of the deteriorated concrete floor and containment wall of the acid room; replacement of the pipe insulation in the pump room; and, repainting walls, ceiling, exposed structural steel framing, ferrous metal and pipe insulation on the first floor of the MFP building.

PROJECT JUSTIFICATION:
Repair of the backwash water recovery system will reclaim up to 400,000 GPD of waste discharge to the public sanitary sewer system. Repairs to the composite floor deck and concrete floor in the acid room are required to preclude potential loss of structural integrity if not mitigated. Replacement of damaged or removed pipe insulation is required to mitigate pipe sweating and dripping onto equipment and walkways below.

RISK(S):
Delaying the rehab of the backwash recovery system sends unnecessary wastewater flow to the public sewer system, stressing downstream sewer capacity.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Project Fund)</u>
Total	\$1,957,500	225,000	1,732,500	0	0	0	\$1,957,500	

Water Distribution System

2023-2025 Intermediate 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$38,581,035	0	0	2,847,356	12,768,391	22,965,287	\$38,581,035	
2023 Intermediate Main Replacement		0	0	2,847,356	9,836,322	9,836,322	\$22,520,000	Debt (Revenue Bonds)
2024 Intermediate Main Replacement		0	0	0	2,932,069	10,128,966	\$13,061,035	
2025 Intermediate Main Replacement		0	0	0	0	3,000,000	\$3,000,000	

Water Distribution System

2021-2025 Intermediate Meters

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$409,000	75,000	80,000	82,000	85,000	87,000	\$409,000	
2021 Intermediate Meters		75,000	0	0	0	0	\$75,000	Debt (Revenue Bonds)
2022 Intermediate Meters		0	80,000	0	0	0	\$80,000	
2023 Intermediate Meters		0	0	82,000	0	0	\$82,000	
2024 Intermediate Meters		0	0	0	85,000	0	\$85,000	
2025 Intermediate Meters		0	0	0	0	87,000	\$87,000	

Water Distribution System

2020, 2023-2025 Large Diameter Water Main Replacement

PROJECT NUMBER: 2020-424-103-0 ,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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$41,082,455	5,500,000	0	2,248,276	11,366,207	21,966,552	\$41,081,035	
2020 Large Diameter Main Replacement – Four Mile Run		5,500,000	0	0	0	0	\$5,500,000	Debt (Revenue Bonds)
2023 Large Diameter Main Replacement		0	0	2,248,276	8,655,862	8,655,862	\$19,560,000	
2024 Large Diameter Main Replacement		0	0	0	2,710,345	10,434,828	\$13,145,173	
2025 Large Diameter Main Replacement		0	0	0	0	2,875,862	\$2,875,862	

Water Distribution System

2020-2025 Large Meter Replacement

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$7,061,587	1,512,919	1,709,414	1,546,031	1,585,000	587,000	\$6,940,364	
2020 Large Meter Replacement		335,235	0	0	0	0	\$335,235	DSIC - Water
2021 Large Meter Replacement		1,177,684	639,207	0	0	0	\$1,816,891	
2022 Large Meter Replacement		0	1,070,207	683,052	0	0	\$1,753,259	
2023 Large Meter Replacement		0	0	862,979	500,000	0	\$1,362,979	
2024 Large Meter Replacement		0	0	0	1,085,000	250,000	\$1,335,000	
2025 Large Meter Replacement		0	0	0	0	337,000	\$337,000	

Water Distribution System

2020-2021 Lead Service Identification Program

PROJECT NUMBER: 2020-325-100-0, Unidentified

WARD: Systemwide

PHASE:
Non Construction / 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$5,858,328	1,500,000	1,500,000	2,558,667	0	0	\$5,558,667	
2020 Lead Service Identification Program		1,500,000	0	0	0	0	\$1,500,000	Debt (Revenue Bonds)
2022 Lead Service Identification Program		0	1,500,000	2,558,667	0	0	\$4,058,667	

Water Distribution System

Lead Service Line Replacement

PROJECT NUMBER: 2018-325-100-0/1/2/3/4/5

WARD: Systemwide

PHASE: Construction
PRIORITY: Safety, Regulatory Compliance
PROJECT DESCRIPTION: Replacement of 7% of lead service lines per year.
PROJECT JUSTIFICATION: Due to the exceedance of the action levels from compliance tests for lead and copper, the PA DEP required the Authority to perform additional distribution system water quality monitoring, and the optimization of corrosion control treatment, public education, and lead service line replacement.
RISK(S): Failure to comply will result in regulatory fines and poses a public health risk.
IMPACT ON OPERATIONS: Reduction in service line failure due to replacing with new infrastructure, reducing demands on operations repair crews.
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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$29,931,717	3,111,200	0	0	0	0	\$3,111,200	

Water Distribution System

Low Pressure Area Remediation

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE: Not Started
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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,393,358	1,029,259	1,093,445	170,654	0	0	\$2,293,358	

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,200,000	0	0	0	0	1,200,000	\$1,200,000	

Water Distribution System

2021-2025 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>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$1,760,287	500,000	375,000	375,000	375,000	135,287	\$1,760,287	
2021 Private Lead Service Line Reimbursement		500,000	0	0	0	0	\$500,000	Debt (Revenue Bonds)
2022 Private Lead Service Line Reimbursement		0	375,000	0	0	0	\$375,000	
2023 Private Lead Service Line Reimbursement		0	0	375,000	0	0	\$375,000	
2024 Private Lead Service Line Reimbursement		0	0	0	375,000	0	\$375,000	
2025 Private Lead Service Line Reimbursement		0	0	0	0	135,287	\$135,287	

Water Distribution System

2021-2025 Regulator Valve and Vault Replacement

PROJECT NUMBER: Unidentified

WARD: Systemwide

PHASE:

Not Started

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$13,500,000	2,000,000	1,000,000	3,000,000	4,500,000	3,000,000	\$13,500,000	
2021 Regulator Valve and Vault Replacement		2,000,000	0	0	0	0	\$2,000,000	Debt (Revenue Bonds)
2022 Regulator Valve and Vault Replacement		0	1,000,000	0	0	0	\$1,000,000	
2023 Regulator Valve and Vault Replacement		0	0	3,000,000	0	0	\$3,000,000	
2024 Regulator Valve and Vault Replacement		0	0	0	4,500,000	0	\$4,500,000	
2025 Regulator Valve and Vault Replacement		0	0	0	0	3,000,000	\$3,000,000	

Water Distribution System

2019-2025 Small Diameter Water Main Replacement

PROJECT NUMBER: 2019-325-101-0, 2019-325-102-0/1/2, 2020-325-106-0/1/2,
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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$287,163,430	45,838,708	19,950,643	38,645,977	75,436,736	103,691,564	\$283,563,628	
2019 Small Main Replacement		11,918,082	0	0	0	0	\$11,918,082	PENNVEST
2020 Small Main Replacement		25,120,626	0	0	0	0	\$25,120,626	
2021 Small Main Replacement		7,300,000	10,950,643	0	0	0	\$18,250,643	Debt (Revenue Bonds)
2022 Small Main Replacement		1,500,000	6,000,000	11,500,000	0	0	\$19,000,000	
2023 Small Main Replacement		0	3,000,000	14,000,000	21,000,000	0	\$38,000,000	
2024 Small Main Replacement		0	0	13,145,977	40,489,609	60,734,414	\$114,370,000	
2025 Small Main Replacement		0	0	0	13,947,127	42,957,150	\$56,904,277	

Water Distribution System

2020-2025 Small Meter Replacement

PROJECT NUMBER: 2020-325-107-0

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$7,321,915	1,357,684	1,796,385	1,721,106	1,650,000	500,000	\$7,025,175	
2020 Small Meter Replacement		255,000	0	0	0	0	\$255,000	DSIC - Water
2021 Small Meter Replacement		1,102,684	639,207	0	0	0	\$1,741,891	
2022 Small Meter Replacement		0	1,157,178	683,052	0	0	\$1,840,230	
2023 Small Meter Replacement		0	0	1,038,054	650,000	0	\$1,688,054	
2024 Small Meter Replacement		0	0	0	1,000,000	250,000	\$1,250,000	
2025 Small Meter Replacement		0	0	0	0	250,000	\$255,000	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,200,000	0	0	0	0	1,200,000	\$1,200,000	

Water Distribution System

2020-2021 Unmetered and Flat Rate Properties

PROJECT NUMBER: Unidentified
WARD: Systemwide

PHASE: Not Started
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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$4,307,553	1,548,564	1,744,689	527,947	0	0	\$3,821,199	
2020 Unmetered and Flat Rate Properties		1,441,278	879,992	0	0	0	\$2,321,200	DSIC - Water
2021 Unmetered and Flat Rate Properties		107,286	864,767	527,947	0	0	\$1,500,000	

Water Distribution System

2020-2025 Valve Replacement

PROJECT NUMBER: 2020-325-104-0, 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$21,204,425	1,498,333	1,300,000	2,942,149	6,123,334	7,823,333	\$19,687,149	
2020 Valve Replacement	998,333	0	0	0	0	0	\$998,333	Debt (Revenue Bonds)
2021 Valve Replacement	500,000	300,000	0	0	0	0	\$800,000	
2022 Valve Replacement	0	1,000,000	708,816	0	0	0	\$1,500,000	
2023 Valve Replacement	0	0	2,233,333	1,116,667	0	0	\$3,350,000	
2024 Valve Replacement	0	0	0	5,006,667	2,503,333	0	\$7,510,000	DISC – Water / Debt (Revenue Bonds)
2025 Valve Replacement	0	0	0	0	5,320,000	0	\$5,320,000	

Water Distribution System

2021-2025 Water Relay

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$8,227,500	863,750	1,763,750	1,840,000	1,880,000	1,880,000	\$8,227,500	
2021 Water Relay		863,750	863,750	0	0	0	\$1,727,500	Debt (Revenue Bonds)
2022 Water Relay		0	900,000	900,000	0	0	\$1,800,000	
2023 Water Relay		0	0	940,000	940,000	0	\$1,880,000	
2024 Water Relay		0	0	0	940,000	940,000	\$1,880,000	
2025 Water Relay		0	0	0	0	940,000	\$940,000	



Wastewater System

PGH₂O

Wastewater System

31st Ward Sewer System

PROJECT NUMBER: 2017-424-100-0

WARD: 31

PHASE:

Construction

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds) / DSIC - Sewer
Total	\$8,047,680	2,904,302	348,961	450,000	150,000	2,360,776	\$6,214,039	

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 was 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,500,000	0	0	187,700	1,030,967	281,333	\$1,500,000	

Wastewater System

2020-2025 Large Diameter Sewer Rehabilitation

PROJECT NUMBER: 2020-424-101-0, 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>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$21,249,489	2,211,492	6,391,140	3,517,000	4,437,190	4,692,667	\$21,249,489	
2020 Large Diameter Sewer Rehabilitation		1,187,158	2,443,473	0	0	0	\$3,630,632	Debt (Revenue Bonds)
2021 Large Diameter Sewer Rehabilitation		1,024,333	3,105,667	0	0	0	\$4,130,000	
2022 Large Diameter Sewer Rehabilitation		0	842,000	2,430,000	0	0	\$3,272,000	
2023 Large Diameter Sewer Rehabilitation		0	0	1,087,000	3,293,000	0	\$4,380,000	
2024 Large Diameter Sewer Rehabilitation		0	0	0	1,144,190	3,495,810	\$4,640,000	
2025 Large Diameter Sewer Rehabilitation		0	0	0	0	1,196,857	\$1,196,857	

Wastewater System

M-29 Outfall Improvements

PROJECT NUMBER: 2018-424-103-0

WARD: 15

PHASE:

Design

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,614,643	3,473,539	0	0	0	0	\$3,473,539	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds) / DSIC - Sewer
Total	\$5,235,035	2,000,000	1,500,000	1,096,798	0	0	\$4,596,798	

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,927,040	1,601,450	185,600	0	0	0	\$1,787,050	

Wastewater System

2019 -2025 Sewer Reconstruction

PROJECT NUMBER: 2019-424-102-0, 2020-424-102-0, 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$10,308,170	970,175	999,979	1,841,144	1,880,000	1,880,000	\$7,571,297	
2019 Sewer Reconstruction	51,290	0	0	0	0	0	\$51,290	Debt (Revenue Bonds)
2020 Sewer Reconstruction	918,244	0	0	0	0	0	\$918,244	
2022 Sewer Reconstruction	0	999,979	750,021	0	0	0	\$1,750,000	
2023 Sewer Reconstruction	0	0	1,091,123	805,080	0	0	\$1,896,203	DSIC - Sewer
2024 Sewer Reconstruction	0	0	0	1,074,920	805,080	0	\$1,880,000	Debt (Revenue Bonds)
2025 Sewer Reconstruction	0	0	0	0	1,074,920	0	\$1,074,920	

Wastewater System

2018-2025 Sewers Under Structures

PROJECT NUMBER: 2017-424-110-0, 2020-424-104-0, 2020-424-104-1,
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>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$34,379,243	3,081,151	11,080,611	5,642,667	5,440,122	8,713,821	\$33,958,372	
2018 Sewers Under Structures	1,833,151	3,333,405	519,444	0	0	\$5,686,000		Debt (Revenue Bonds)
2020 Sewers Under Structures	1,248,000	7,555,635	4,159,365	0	0	\$12,963,000		DSIC – Sewer/ Debt (Revenue Bonds)
2022 Sewers Under Structures	0	191,571	766,286	4,445,408	2,431,333	\$7,834,598		
2023 Sewers Under Structures	0	0	197,571	790,286	5,250,488	\$6,238,345		
2024 Sewers Under Structures	0	0	0	204,429	817,714	\$1,022,143		Debt (Revenue Bonds)
2025 Sewers Under Structures	0	0	0	0	214,286	\$214,286		

Wastewater System

2019-2025 Small Diameter Sewer Rehabilitation

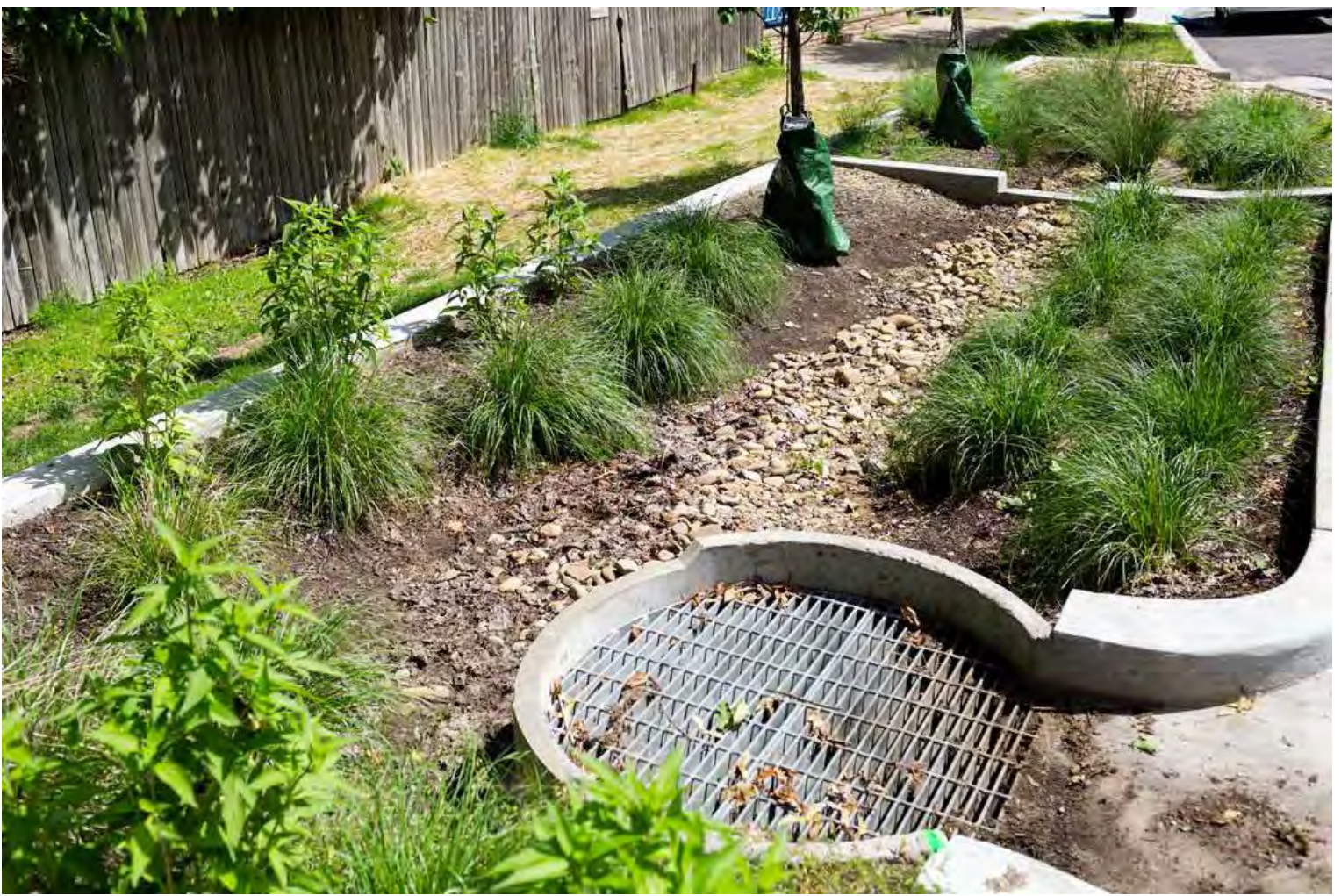
PROJECT NUMBER: 2019-424-100-0 / 2019-424-108-0 / 2020-424-100-0/1/2,
2020-424-106-0/1/2, Unidentified

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>
	<u>Total Budget (Prior Years Included)</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$105,187,934	19,499,567	24,602,865	16,845,092	21,725,979	21,052,095	\$103,725,599	
2019 Small Diameter Rehabilitation		482,961	0	0	0	0	\$482,961	Debt (Revenue Bonds)
2020 Small Diameter Rehabilitation		11,493,705	2,916,832	0	0	0	\$14,410,538	
2021 Small Diameter Rehabilitation		6,582,901	12,081,232	0	0	0	\$18,664,133	
2022 Small Diameter Rehabilitation		940,000	8,150,000	2,750,000	0	0	\$11,840,000	
2023 Small Diameter Rehabilitation		0	1,454,800	12,554,292	6,990,908	0	\$21,000,000	
2024 Small Diameter Rehabilitation		0	0	1,540,800	13,133,472	7,325,728	\$22,000,000	
2025 Small Diameter Rehabilitation		0	0	0	1,601,600	13,726,367	\$15,327,967	

**\$941,800 ALCOSAN GROW grant funding secured.



Stormwater



Stormwater System

Bus Rapid Transit (BRT) 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 in 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$2,255,882	685,000	1,000,000	350,000	0	0	\$2,035,000	

Stormwater System

2020-2025 Catch Basin and Inlet Replacement

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

WARD: Systemwide

PHASE: Procurement / 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	
Total	\$38,887,540	8,137,621	1,987,720	8,317,500	9,964,949	10,479,750	\$38,887,540	
2020 Catch Basin and Inlet Replacement		8,121,621	914,643	0	0	0	\$9,036,264	Debt (Revenue Bonds)
2021 Catch Basin and Inlet Replacement		16,000	1,000,000	200,000	0	0	\$1,216,000	
2022 Catch Basin and Inlet Replacement		0	73,077	8,044,423	962,500	0	\$9,080,000	
2023 Catch Basin and Inlet Replacement		0	0	73,077	8,141,923	985,000	\$9,200,000	
2024 Catch Basin and Inlet Replacement		0	0	0	860,526	8,634,224	\$9,494,750	
2025 Catch Basin and Inlet Replacement		0	0	0	0	860,526	\$860,526	

Stormwater System

Fleury Way Stormwater Infrastructure Improvements

PROJECT NUMBER: Unidentified

WARD: 12

PHASE:

Not Started

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$730,141	730,141	0	0	0	0	\$730,141	

**\$123,000 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$25,400,720	7,000,000	12,800,000	0	0	0	\$19,800,000	

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 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):

Customer 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$768,341	600,000	0	0	0	0	\$600,000	

**\$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 bio-swale and underground detention facilities to capture and detain impervious acres from the adjacent streets and upstream separate storm sewers, which currently discharging 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 in 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$3,654,970	2,008,966	1,339,310	0	0	0	\$3,348,276	

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

Stormwater System

Maryland Avenue Stormwater Infrastructure Improvements

PROJECT NUMBER: 2017-424-101-0

WARD: 7

PHASE:

Design

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 unmitigated, 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Project Fund)</u>
Total	\$4,454,383	2,610,000	330,000	0	0	0	\$2,940,000	

Stormwater System

Nobles Lane Stormsystems Improvements

PROJECT NUMBER: Unidentified

WARD: 29

PHASE:

Not Started

PRIORITY:

Safety, Regulatory Compliance, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

Construction of strategically placed 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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$343,322	343,322	0	0	0	0	\$343,322	

**\$65,551 will be reimbursed as part of a cost share agreement between the PWSA and the City of Pittsburgh.

Stormwater System

Saw Mill Run MS4 Compliance Projects

PROJECT NUMBER: Unidentified

WARD: 32 & 29

PHASE:

Not Started

PRIORITY:

Safety, Regulatory Compliance

PROJECT DESCRIPTION:

Identifying and completing projects related to 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,500,000	0	0	1,000,000	2,500,000	0	\$3,500,000	

Stormwater System

Saw Mill Run PWSA & PennDOT Watershed Improvements

PROJECT NUMBER: Unidentified

WARD: 32

PHASE:

Not Started

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/SSO's.

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$1,000,000	0	200,000	500,000	300,000	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 stormdrain 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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$3,405,242	0	335,365	3,069,877	0	0	\$3,405,242	

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 combined sewer overflows (CSOs) in 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. The project will detain and slowly return the stormwater runoff to the combined sewer system.

PROJECT JUSTIFICATION:

This project will help with complying with the Consent Order Agreement by reducing CSO's.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Project Fund)</u>
Total	\$4,970,325	2,156,746	2,156,746	0	0	0	\$4,313,492	

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

Stormwater System

Thomas and McPherson Stormwater Infrastructure Improvements

PROJECT NUMBER: 2018-GI-106-0

WARD: 7

PHASE:

Design

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$2,671,222	4,319,899	1,387,466	0	0	0	\$5,707,365	

**\$1,517,800 ALCOSAN GROW grant funding secured.

Stormwater System

Tide Gate Installations

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

PRIORITY:

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

PROJECT DESCRIPTION:

Installation of tide gates at 44 combined sewer overflow diversion chamber locations to assist in preventing river water intrusion.

PROJECT JUSTIFICATION:

Will prevent the intrusion of sewage into river water during heavy wet weather events.

RISK(S):

The length of time to install the tide gates could result in sewage overflowing into river water 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$3,000,000	0	0	0	2,000,000	1,000,000	\$3,000,000	

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 tributary to Saw Mill Run. Installation of green infrastrucutre 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$1,641,976	1,000,000	0	0	0	0	\$1,000,000	

Stormwater System

Wightman Park Stormwater Infrastructure Improvements

PROJECT NUMBER: 2017-424-105-0

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 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$3,521,825	1,750,000	0	0	0	0	\$1,750,000	

**\$368,300 ALCOSAN GROW grant funding secured.

Stormwater System

Winchester Drive at Grovemount Stormsystem Improvements

PROJECT NUMBER: Unidentified

WARD: 20

PHASE:

Not Started

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 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 basins 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Revenue Bonds)</u>
Total	\$554,577	554,577	0	0	0	0	\$554,577	

**\$42,193 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:

Design

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 unmitigated, 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Project Fund)
Total	\$2,073,559	1,550,000	185,000	0	0	0	\$1,735,000	

Stormwater System

Woods Run Stream Removal Stormwater Infrastructure Improvements

PROJECT NUMBER: 2017-424-108-0

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 the 36" diameter the PWSA 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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	<u>Debt (Project Fund)</u>
Total	\$2,619,086	1,250,000	0	0	0	0	\$1,250,000	

**\$1,224,300 ALCOSAN GROW grant funding secured.



Other



Other

2021-2025 Park Maintenance / Upgrades

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

PRIORITY:

Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

This project will fund water and sewer infrastrucutre upgrades within City of Pittsburgh parks.

PROJECT JUSTIFICATION:

The water and sewer infrastrucutre within City of Pittsburgh parks is in need of upgrades.

RISK(S):

Deferred maintenance of water and sewer infrastructure could have negative impacts on the functionality of City of Pittsburgh parks.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$4,700,000	700,000	1,000,000	1,000,000	1,000,000	1,000,000	\$4,700,000	

Other

2021-2025 Property Acquisition / Facility Upgrades

PROJECT NUMBER:

Unidentified

WARD:

Systemwide

PHASE:

Not Started

PRIORITY:

Reliability/Operational Flexibility, Operations and Maintenance Efficiency

PROJECT DESCRIPTION:

This project will fund all future property/building acquisitions and facility upgrades.

PROJECT JUSTIFICATION:

The current facilities of the Authority are in need of upgrades. In addition, new properties may be acquired to fill the need of increased staffing and equipment levels.

RISK(S):

Deferred maintenance on current facilities and limited space will impact operations.

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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$2,700,000	700,000	0	1,000,000	1,000,000	0	\$2,700,000	

Other

Reconstruction of the Facade at the Central Warehouse

PROJECT NUMBER: Unidentified
WARD: 9

PHASE: Not Started
PRIORITY: Safety
PROJECT DESCRIPTION: Reconstruction of the facade at the Central Warehouse.
PROJECT JUSTIFICATION: The existing facade is failing and in danger of falling and causing injury to employees or pedestrians.
RISK(S): Employee safety.
IMPACT ON OPERATIONS: Increased system reliability and improved sytem management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		CASH FLOW SUMMARY						FUNDING SOURCE(S)
	Total Budget (Prior Years Included)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total	Debt (Revenue Bonds)
Total	\$70,000	70,000	0	0	0	0	\$70,000	

Other

Roof Replacment Brilliant Yard Warehouse

PROJECT NUMBER: Unidentified
WARD: 12

PHASE: Not Started
PRIORITY: Safety, Operations and Maintenance Efficiency
PROJECT DESCRIPTION: Roof replacment at Brilliant Yard warehouse.
PROJECT JUSTIFICATION: Existing roof leaking and causing structural damage.
RISK(S): Employee safety.
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 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Total</u>	Debt (Revenue Bonds)
Total	\$160,000	160,000	0	0	0	0	\$160,000	

Other

Roof Replacement Herron Hill Pump Station

PROJECT NUMBER: Unidentified
WARD: 5

PHASE: Not Started
PRIORITY: Safety, Operations and Maintenance Efficiency
PROJECT DESCRIPTION: Replace existing roof and gutters at the Herron Hill Pump Station.
PROJECT JUSTIFICATION: Existing roof is leaking and causing structural damage to building.
RISK(S): Employee safety.
IMPACT ON OPERATIONS: Increased system reliability and improved sytem management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		CASH FLOW SUMMARY						FUNDING SOURCE(S)
	Total Budget (Prior Years Included)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total	Debt (Revenue Bonds)
Total	\$90,000	90,000	0	0	0	0	\$90,000	

Other

Surface Restoration (Capital Only)

PROJECT NUMBER: 2020-325-105-0/1
WARD: Systemwide

PHASE: Construction
PRIORITY: Safety, Operations and Maintenance Efficiency
PROJECT DESCRIPTION: Resurfacing of streets as a result of other capital projects.
PROJECT JUSTIFICATION: Adequately restoring street surface conditions is a requirement for all applicable capital projects.
RISK(S): Customers could experience temporary street closures as a result of street resurfacing work.
IMPACT ON OPERATIONS: Increased system reliability and improved system management.
ALTERNATIVES TO THE RECOMMENDED ACTION: There are no practical alternatives to the recommended action.

		CASH FLOW SUMMARY						FUNDING SOURCE(S)
	Total Budget (Prior Years Included)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total	Debt (Revenue Bonds)
Total	\$14,328,141	12,500,000	0	0	0	0	\$12,500,000	

Other

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.

		CASH FLOW SUMMARY						FUNDING SOURCE(S)
	Total Budget (Prior Years Included)	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total	Debt (Revenue Bonds)
Total	\$2,050,000	450,000	100,000	500,000	500,000	500,000	\$2,050,000	