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October 31, 2019

Via Hand Delivery

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-2018-3005037 (water), P-2018-3005039 (wastewater)

Dear Secretary Chiavetta:

Effective April 1, 2018, pursuant to 66 Pa.C.S. §§ 3201-3209, Act 65 of 2017, the Pennsylvania Public Utility Commission (PUC) was granted jurisdiction over the provision of water, wastewater, and stormwater utility services by entities created by Pennsylvania cities of the second class under the Municipal Authorities Act. Consistent with the new law, the Commission approved the initial water and wastewater tariffs of Pittsburgh Water and Sewer Authority (PWSA or the Authority) effective March 1, 2019 as part of PWSA's first base rate filing at Docket Numbers R-2018-3002645 and R-2018-3002647. Also pursuant to the new law, PWSA filed a Compliance Plan on September 28, 2018 and, to comply with the commitments made as part of the approved settlement of its initial rate case, a Compliance Plan Supplement on February 1, 2019. A Joint Petition for Partial Settlement of PWSA's Compliance Plan is currently pending but, as part of that settlement, PWSA agreed to complete and report on critical activities to the PUC and interested parties on a quarterly basis.¹ The enclosed Compliance Plan Progress Report is being filed consistent with this commitment.

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

¹ See Joint Petition for Partial Settlement dated September 13, 2019 at Section III.ZZ.

Service, Lead, Infrastructure/Engineering, Finance and Accounting, and Contractual/Other Issues. Each section addresses the requirements associated with: (1) the Joint Petition for Partial Settlement pending at the above captioned dockets (also referred to as the "Master List of Stipulations"); (2) the Commission approved Settlement of PWSA's initial rate case; (3) the Compliance Plan; and (4) the Compliance Plan Supplement. PWSA intends to use this format to streamline the process of tracking progress toward meeting agreed-to activities thus information PWSA previously provided to the parties pursuant to the rate case settlement have been included in this report.²

Sincerely,



Robert A. Weimar
Executive Director

² The information includes that required by: (1) Paragraph III.A.2 of the Rate Case Joint Petition for Settlement at R-2018-3002645 and R-2018-3002647; 2) the Highland Membrane Filtration Plant quarterly report pursuant to Paragraph III.H.4.i of the Rate Case Joint Petition; and 3) an update on the status of negotiations with the City of Pittsburgh related to the Cooperation Agreement as required by Paragraph III.G.1.a of the Rate Case Joint Petition.

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OCT 31 2019

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Pittsburgh Water and Sewer Authority

Quarterly Compliance Plan Progress Report

Consolidated Docket Numbers:

M-2018-2640802 (water),

M-2018-2640803 (wastewater),

P-2018-3005037 (water)

P-2018-3005039 (wastewater)

October 31, 2019

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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.	2019 and 2020	On Target
Install a new meter test station for testing 5/8" to 2" meters.	April 2019	Complete
Hire a private contractor to test meters that are 3" and above on site or at their facility.		Complete
Record water used for flushing after main breaks by having crews record the time flushed and flow gauges to record water used.	October 2019	On Target
Provide water meters for each DPW division and have them installed on hydrants.	October 2019	On Target
Restructure to support delivery of formal valve operation, flushing, and leak detection programs.	April 2019	Restructuring is in progress; program formalization is underway.
Develop a plan to track age of customer meters and to test and/or replace meters over 20 years old.		On Target
Track the 20 Operating Metrics identified in I&E St. No. 4, p. 5.		See Appendix C.

i) Replace one hundred hydrants per year.

PWSA agreed to replace one hundred hydrants per year in 2019 and 2020. The replacement program is focused on removing older models from service on larger diameter mains and is currently on-schedule for 2019. As of 09/30/2019, PWSA has replaced 60 hydrants. The work associated with this task is being completed using both contractors and in-house staff. In the future, hydrant replacements will be 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) Develop a leak detection program and restructure staff to add more personnel for leak detection

PWSA has hired a manager with considerable utility expertise to oversee its leak detection program. The new manager has initiated weekly meetings with the other operations managers to start formalizing a program, and has initiated cross-training of crews, with the idea being that all crews have some leak detection capability, but that the two designated leak detection crews can focus their efforts on programmatic surveying and more difficult detections. The Authority has also upgraded its leak detection equipment with new correlators and ground microphones to facilitate faster and more accurate leak detection. Please see Appendix C for additional information.

- iii) Record water used for flushing after main breaks

PWSA committed to recording water used for flushing by having crews record the time flushed and using flow gauges to record the water used. PWSA is in the process of shifting a manager to oversee its flushing program, and has developed a system-wide flushing plan, which has already been approved by the Pennsylvania DEP. This program is on track to be in place by October 2019 and will be more fully discussed in subsequent sections.

- iv) Provide water meters for each Department of Public Works (DPW) division and have them installed on hydrants

The goal of this initiative is to record water use for street sweeping and street paving activities, and to help PWSA reduce its unaccounted-for water. PWSA has contacted the City of Pittsburgh's DPW to determine appropriate sites for meters for filling street sweeping vehicles. While meter installation has not yet started, PWSA anticipates that this task is on-schedule for completion by October 2019. However, there will need to be some training and culture change with City staff to get them accustomed to using the metered locations.

- v) 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. 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 have been trained on this new platform and reporting and data analysis will be available for supervisors.

- vi) Develop a plan to track age of customer meters and to test and/or replace meters over 20 years old

According to best available information, PWSA has as many as 50,000 meters that have exceeded the Commission's recommended testing schedule and will need to be tested and/or replaced. Unfortunately, much of the meter data including installation date was lost in a billing system transition, so this number cannot be validated. In its Compliance Plan, PWSA committed to increasing its plumbing staff and changing out 5,000-6,000 meters per year. PWSA currently has open advertisements for plumbers and has coupled its residential meter replacement program with its lead service line replacement program, which has decreased the number of individual appointments that need to be scheduled. Moving forward, PWSA will comply with Chapter 65.8 and begin testing meters at a regular interval, so that no small meter is in service longer than 20 years without testing. The Meter Upgrade Program is a concerted effort of the Customer Service and Operations departments. From January through September 2019, PWSA has upgraded more than 7,000 meters.

PWSA is prioritizing the testing/replacement of large meters and will make its best efforts to complete the testing/replacement of all large meters/measuring chambers and registers within three years. The Authority has identified 806 large-diameter meters that have been in service for longer than eight years, or where the installation

date is unknown, and will comply with Chapter 65.8 to ensure that no large meter is in service for longer than eight years without testing. PWSA entered into a contract in May 2019 to test water meters 3" or greater in-line or at the vendor's testing facility. PWSA has replaced approximately 60 large meters in 2019. With the addition of this vendor, PWSA is able to accommodate all customer-generated meter testing requests.

vii) Track the 20 Operating Metrics identified in I&E St. No. 4, p. 5

PWSA is starting to track the 20 Operating Metrics identified in I&E St. No 4, p. 5. Preliminary results of these operating metrics will be shown in Appendix C as data is available.

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
65.7 Hire a contractor to assist with inspecting, sizing, and installing meters for municipal and unmetered properties.	2024	On Target
65.8 Add additional plumbers to address 50,000 meters that are overdue for testing/change-out.	Immediately	On Target
65.8 Develop a program to test 10-25% of commercial meters annually.	2022	On Target
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
65.11 Develop SOPs, including communications protocols, for periods of mandatory conservation.	2020	On Target
65.17 Implement a flushing program.	2020	On Target
67.1 Develop a SOP to notify the Commission during periods of unscheduled service interruptions.	Within 6 months of Compliance Plan Filing	On-Target
69.16 Update Emergency Response Plan SOPs.	Within 6 months of Compliance Plan Filing	On-Target

i) 65.7 - Inspecting, sizing, and installing meters for municipal and unmetered properties

PWSA has committed to partnering with a contractor to inspect, size, and install meters for municipal and other unmetered accounts (PWSA estimates 200-400 of these accounts in its service area) within the next five years. PWSA developed and released an RFP for these services and has begun inspecting facilities for meter installations. PWSA's Board of Directors approved a consulting contract with the selected vendor (Buchart Horn) on April 26, 2019. These site visits are underway.

PWSA will actively search for additional municipal, flat rate, and other unmetered properties through various GIS and other data sources, which, when found, will be added to the list of properties requiring meters. PWSA anticipates that all unmetered and/or unbilled properties will be identified by June 29, 2020. Once unmetered or unbilled properties have been metered, PWSA will identify these properties in future Compliance Plan Quarterly Reports.

- 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 and plans 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) 65.11 - Develop SOPs, including communications protocols, for periods of mandatory conservation

PWSA has an abundant water supply and therefore has never experienced, and is not likely to experience, a period where there would be inadequate source water to meet demands. However, source contamination or a significant failure in the treatment or delivery system may necessitate periods of mandatory conservation. These are extremely rare events, and PWSA has not yet developed Standard Operating Procedures, including communications protocols, for periods of mandatory conservation. The Authority plans to hire a Health and Safety professional in 2019, who will be tasked with developing and communicating a preliminary SOP by February 28, 2020, which will be incorporated into the Authority's Emergency Response Plan. The SOP will include provisions that, in the event that such conservation measures are required, PWSA will notify customers via traditional lines of communication (telephone calls, social and traditional media, and the website).

- iii) 67.1 - Develop a SOP to notify the Commission during periods of unscheduled service interruptions

PWSA has separate processes to notify the Commission during emergency and non-emergency periods of unscheduled service interruptions. While these processes are in place, PWSA currently lacks a formal, written SOP describing this activity. As described in section 65.11, PWSA is in the process of soliciting applications for a Health and Safety professional, but pending hire, the consultant currently serving in this role is assisting in the development and communication of SOPs, including one to communicate Emergency Service Disruptions to the Commission and others. PWSA anticipates this SOP to be completed by 2019 and included in the Authority's Emergency Response Plan. Further, the Emergency Response Plan will establish the process to notify the Commission of any low-pressure incident or other service disruption for which it notifies the Pennsylvania Department of Environmental Protection, as well as a general revision of communication protocols to include notification to the Commission.

- iv) 69.16 - Update Emergency Response Plan SOPs

PWSA is in the process of updating its Emergency Response Plan and associated SOPs, and many divisions share responsibility for this development. As previously mentioned, the Authority plans to hire an Environmental Health and Safety professional in 2019, who will assist in developing and communicating this SOP. 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 apparently 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. PWSA will also update its internal written Incident Investigation Policies to incorporate telephone reports.

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 Target (Moved to Stage 2)
PWSA Affordability Analysis		A finalized version of the Affordability Analysis will be delivered at the October 15, 2019 LIAAC Meeting
BCS input on PWSA CAP Program	Next base rate case	On Target
Commission development of a "Model Water CAP Design"		On Target
Customer outreach		PWSA participates in upwards of 100 community meetings annually. Also, a canvassing program was proposed to the LIAAC as a potential enhancement to PWSA's assistance programs in the next rate case.
56.94 and 56.336 – Interim personal contact procedures immediately prior to termination	Quarterly Progress Reports	On Target (Moved to Stage 2)

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.
- > Personal contact: The PWSA Personal Contact Interim Process involves additional telephone calls and monitoring/recording of information, good faith discussions of issues in Stage 2 Collaboratives, and progress assessment of issues at 3- and 6-month intervals once Bureau of Consumer Services (BCS) workshops begin.

ii) PWSA Affordability Analysis

PWSA presented a draft affordability analysis at the June 3, 2019 Low Income Assistance Advisory Committee (LIAAC) meeting, with follow-up discussions held in July, August, and September 2019. Data collection information, as agreed to in the rate case, was also provided to the LIAAC. A finalized version of the Affordability Analysis will be delivered at the October 15, 2019 LIAAC meeting.

iii) BCS Input on PWSA CAP Program

PWSA has committed to keeping BCS informed of all scheduled LIAAC meetings where the assistance programs are to be discussed and to inviting Commission staff to participate. The Authority welcomes any feedback from BCS over the course of these meetings. To the extent that PWSA has any draft revisions to its assistance programs that it intends to file in the next base rate case, PWSA will directly submit that information to BCS for review and feedback. The Authority has requested feedback or data from all members of the LIAAC in the October 2019 meeting to ensure that it is incorporated into PWSA's proposal for the next rate case.

iv) Commission Development of a "Model Water CAP Design"

PWSA will take the views of participants in the LIAAC meetings under advisement as it moves forward with its current assistance programs and any potential revisions (which would be included in the next base rate filing). This process is underway.

v) Customer Outreach

PWSA participates in upwards of 100 community meetings annually. Also, a canvassing program was proposed to the LIAAC as a potential enhancement to PWSA's assistance programs in the next rate case. Additionally, PWSA is a member of the Western Pennsylvania Utilities Group and has participated in member utilities' coordinated outreach events where community-based organizations are educated on PWSA's assistance programs.

vi) Interim personal contact procedures

PWSA agreed to deliver the results of the interim personal contact process as part of this quarterly report. These interim results are shown in Table 4.

Table 4: Interim Personal Contact Process Results

Telephone Call Attempts	
Total Call Attempts	233
Call Completion Rate	52%
Live Answer by Customer	65
Message Left by PWSA	55
Voicemail Box Full/No Answer/No Answering Machine	64
Disconnected Number	49
Resulting Cancelations of Termination	
Total Cancelations	49

Cancelation Rate	21%
Paid in Full	45
Payment Arrangement	3
Medical Filed	1
PFA Filed	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
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.
Work with the parties to determine an appropriate informal complaint tracking information review process.		On Target
Track whether customer complaints are related to water, sewer, or stormwater.	Monthly	Complete
Make the changes identified in Paragraphs III.D.1 through III.D.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.		Complete, Bill Design pending
Suspend the use of Jordan Tax Service, Inc.	With the Commission's final order approving the Settlement	Complete
Collect and report on requested billing data (Appendix E).		Q3 data appears in Appendix E of this report.
Fund BDP program using revenues collected from approved rates in the tariff filing.		Complete
Submit a detailed Plan that outlines the program parameters for each of its low-income assistance programs.	Next Base Rate Proceeding	Complete
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 SpyPoint Mobile app.		Project is in the configuration and data conversion stage and is 75% complete.
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- i) Conduct a regular review of informal complaint information to determine complaint trends and whether there is a need to implement additional or new internal training policies

PWSA began conducting regular reviews of informal complaint trends in 2018 and has worked to update its customer service training policies and materials since that time. Identified trends relate to catch-up consumption, high consumption, and meter testing. In some cases, disciplinary action is taken when an employee's work product is continually poor despite repeated training sessions.

- ii) Work with the parties to determine an appropriate informal complaint tracking information review process

PWSA plans to discuss their informal complaint tracking information review process with BCS in person when BCS visits to attend the LIAAC meeting on October 15, 2019.

- iii) Track whether customer complaints are related to water, sewer, or stormwater

PWSA categorizes customer complaints based on water, sewer, and stormwater on an ongoing basis. This information is used for analysis and to identify areas where improvement is needed.

- iv) 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 is in the process of making 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. Once the changes are made, PWSA intends to provide a copy of the changes to the LIAAC.

- v) Suspend the use of Jordan Tax Service, Inc.

The contract between PWSA and Jordan Tax Service, Inc. (JTS) was terminated effective June 30, 2019. PWSA accepted a file of uncollected debts from JTS on June 27, 2019 and is currently updating its billing system with debts collectible under regulation. PWSA also submitted a cover letter of explanation to affected customers to BCS for review. BCS made recommended changes, PWSA incorporated those, and BCS approved the use of said letter. The review of these debts previously placed with JTS for collection is a very tedious, manual process; however, steady progress is being made. All debts less than four years old are on track to be debited to affected customers' accounts on a rolling basis, with an anticipated completion in Q1 of 2020. The BCS-approved cover letter of explanation is mailed simultaneous to the debit of charges less than four years old.

- vi) Collect and report on the requested billing data

PWSA has started to track data associated with the billing metrics identified in the Compliance Plan Supplement. Appendix D contains these billing metrics.

- vii) Fund Bill Discount Program (BDP) program using revenues collected from approved rates in the tariff filing

PWSA is funding the BDP program using revenues collected from the approved rates in the tariff filing, and as such, it is in compliance with this requirement.

- viii) Submit a detailed Plan that outlines the program parameters for each of its low-income assistance programs

PWSA completed and shared a detailed plan outlining its proposed assistance program enhancements and impacts at the September 23, 2019 LIAAC meeting.

- ix) Track the following metrics: Abandon %, ACD handling time, average speed of answer, CSR attendance, Customer satisfaction, service level %

These metrics listed have been tracked on a monthly basis since January 2019. Appendix E shows data by month for July through September 2019.

- x) Expand the use of the SpryPoint Mobile app

PWSA is expanding the use of the SpryPoint Services, Inc.'s SpryMobile platform, which is integrated with PWSA's billing system. This platform has allowed PWSA field crews to record work performed on meters and curb boxes electronically, rather than on paper. PWSA is on track to extend the functionality of this app to water and wastewater services and assets in the treatment, distribution and collection systems by October 2019. The project is in the configuration and data conversion stages, and it is 75% complete.

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
56.11-56.25 and 56.261-56.275 - Complete bill redesign project.	By the end of 2019	On Target
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.)	March 2019	On Target (Moved to Stage 2)

- i) 56.11-56.25 and 56.261-56.275 - Complete bill redesign project

PWSA has drafted numerous revisions of its bill redesign and has provided copies of these drafts to interested parties and BCS for feedback and recommendations. The initial draft bill changes were provided to the interested parties and BCS on March 29, 2019. Thirty days later, PWSA received 29 change requests, agreed to all, and worked with its print and mail vendor to make the changes. The most recent draft bill changes were sent to the interested parties and BCS for review on October 9, 2019.

- ii) 56.81-56.118 and 56.321-56.358 - Meet plain language requirements for shut-off notices

PWSA made initial changes to revise its shut-off language to ensure compliance with the plain language requirements, and BCS has indicated that it will be requesting additional revisions. PWSA is currently awaiting a review of its termination notices that were sent to Pittsburgh UNITED on June 26, 2019. After all revisions, the shut-

off notices should be at an 8th grade reading level. Note that these requirements will now be handled in Stage 2 of the Compliance Plan process, but progress in this area will continue.

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. 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 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 7: Compliance Plan Supplement Requirements – Lead

Task	Timeline (if specified in the Compliance Plan Supplement)	Progress to Date
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, and June 3, 2019, August 12, 2019 and September 24, 2019.
Develop and implement a plan to encourage greater participation in the lead line replacement program.	Plan developed within 90 days of effective date of rates; customer participation reported quarterly	The Community Outreach and Communication Plan was presented to CLRAC for input and is currently being implemented. Updates are provided at each meeting.
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	Complete.
Develop and implement a plan to encourage greater participation in the lead sampling program.	Within 90 days of effective date of rates	The Community Outreach and Communication Plan was presented to CLRAC for input and is currently being implemented. Updates are provided at each meeting.
Make all historical service line records available for public viewing on website.	Within 90 days of effective date of rates	Complete
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.
Analyze the feasibility of including all lead service lines, including private-side-only lead service lines, in PWSA's 2019 lead service line replacement program and 2020 - 2026 small diameter water main replacement program.	Within 90 days of effective date of rates	This information was presented to CLRAC on March 4, 2019.
Continue to provide NSF-certified filters/replacement cartridges free of charge until samples are below 15 ppb lead for two consecutive 6-month periods.	Within 90 days of effective date of rates	The existing program, which was developed in 2018, continues.

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	Letters sent to all CAP customers in February 2019 with update in April and every month hereafter.
Develop and implement a plan for prioritizing lead service line replacements where curb box inspections are completed in designated neighborhoods.	Within 90 days of effective date of rates	The prioritizations were discussed during the March meeting and additional areas for potential available PENNVEST funding were selected during the April meeting.
Maintain the current outreach procedures for obtaining customer consent, and the current post-partial lead service line replacement sampling and filter-provision measures.	Through 2019	These programs are continuing.
Consult with the CLRAC regarding whether and how to seek authorization from the City of Pittsburgh to compel private-side lead service line replacements when a property owner who does not reside at the property declines a free private-side lead service line replacement.	For 2019 program	Discussion was held during the January 8, 2019 and June 3, 2018, August 12 and September 24, 2019 meetings and will continue at future meetings at the June 3, 2019 meeting.
Consult with the CLRAC regarding whether to ask the City of Pittsburgh to establish a process through which partial lead service line replacements conducted by PWSA are documented in the property record for the relevant address.	For 2019 program	Discussion was held during the January 8, 2019 and June 3, 2018 meetings and will continue at future meetings.
Record and make publicly available on its website mapping the locations of all service line replacements conducted by PWSA to date and planned for the work orders.	Update on a monthly basis	Online web mapping has been updated by the first of each month since the beginning of 2019.
Continue replacing private-side lead service lines (assuming customer consent is provided) at no cost to customers when replacing public-side lead service lines.	For 2019 program	Program is continuing.
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	Complete
Continue to provide residents who have had their service lines replaced with water testing kits and NSF-certified filters and six months of replacement cartridges at no cost.	Immediately after replacement	Existing program developed in 2018 continues.

- i) Develop and implement a plan to encourage greater participation in the lead line replacement program

PWSA presented a Community Outreach and Communication Plan to the CLRAC on January 8, 2019. Following incorporation of the CLRAC's input, PWSA began implementing the outreach activities, and reports the efforts undertaken during the prior period at each meeting. PWSA continues to report to the CLRAC on customers' reasons for rejecting service line replacements, as well as the number of customers who consented, failed to respond, or explicitly refused to consent to the replacements.

- ii) Make best efforts to send a letter notifying the resident and property owner of the results of a curb box inspection

This work is complete for the 2018 CBI program.

- iii) Develop and implement a plan to encourage greater participation in the lead sampling program

PWSA continues to implement its outreach plan and provide updates to CLRAC. Suggestions of the CLRAC and PUC have been incorporated in our outreach materials.

- iv) Continue to provide NSF-certified filters/replacement cartridges free of charge to CAP Customers until samples are below 15 ppb lead for two consecutive 6-month periods

This program is underway, and as new customers are enrolled each month, they are added to the filter program.

- v) Develop an outreach program to notify customers of their eligibility for free filters, including at a minimum, a letter or bill insert

PWSA sent a letter to all CAP customers (at that time) on February 1, 2019 and is notifying any new CAP participants on a monthly basis of their eligibility for this program.

- vi) Develop and implement a plan for prioritizing lead service line replacements where curb box inspections are completed in designated neighborhoods

PWSA worked with CLRAC to develop a prioritization strategy and applied it to areas where additional 2019 LSLR work may occur depending on availability of PENNVEST funding. This was completed at the April meeting.

- vii) Maintain the current outreach procedures for obtaining customer consent, and the current post-partial lead service line replacement sampling and filter-provision measures.

PWSA is maintaining its outreach procedures for customer consent and the current post-partial lead service line replacement sampling and filter-provision measures. This task is on-going.

- viii) Consult with the CLRAC regarding whether and how to seek authorization from the City of Pittsburgh to compel private-side lead service line replacements when a property owner who does not reside at the property declines a free private-side lead service line replacement.

This issue was discussed at the January 8 and June 3, 2019 CLRAC meetings, and discussion is ongoing.

- ix) Consult with the CLRAC regarding whether to ask the City of Pittsburgh to establish a process through which partial lead service line replacements conducted by PWSA are documented in the property record for the relevant address

This issue was discussed at the January 8 and June 3, 2019 CLRAC meetings, and discussion is ongoing.

- x) Record and make publicly available on its website mapping the locations of all service line replacements conducted by PWSA to date and planned for the work orders.

PWSA recorded and made publicly available (at the beginning of January 2019) on its website mapping the locations of all service line replacements conducted by PWSA to date and planned for the work orders. PWSA's web map has been and will continue to be updated on a monthly basis by the first of each month.

- xi) Continue replacing private-side lead service lines (assuming customer consent is provided) at no cost to customers when replacing public-side lead service lines.

PWSA will continue replacing private-side lead service lines (assuming customer consent is provided) at no cost to customers when replacing public-side lead service lines.

- xii) 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.

At the first CLRAC meeting, PWSA reported that it was successful in securing an agreement with PENNVEST.

- xiii) Continue to provide residents who have had their service lines replaced with water testing kits and NSF-certified filters and six months of replacement cartridges at no cost

PWSA will continue to provide residents who have had their service lines replaced with water testing kits and NSF-certified filters and six months of replacement cartridges at no cost immediately after replacement.

b. Compliance Plan Requirements

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
Construction Project Tracking and Evaluation	November 12, 2019	PWSA has developed and is in the process of validating a list of proposed metrics
Selection Processes and Existing Contractors	Annually	On Target
Projected Expenditures	Quarterly	On Target
LTIP – Materials, Valves, Prioritization	Quarterly	PWSA is in the process of updating its GIS to facilitate reporting on this data
LTIP – Customer Owned Lead Service Lines		On Target
LTIP – Workforce Development		On Target

LTIP – Construction Coordination with Other Utilities and Municipalities		On Target
LTIP – Distribution System Improvement Charge (DSIC)	Next base rate case	On Target

i) **Construction Project Tracking and Evaluation**

PWSA has a sophisticated performance management system and monitors more than 50 metrics through its Headwaters tracking database, as well as additional capital information through its eBuilder system. PWSA is in the process of expanding the number of metrics tracked in these systems, based on the last rate case settlement, Compliance Plan, and Compliance Plan Settlement. As data for these metrics is available, PWSA will begin to provide periodic updates of construction-related performance metrics related to capital project cost effectiveness. PWSA is preparing to provide I&E with a list of proposed metrics by November 12, 2019 and will track any mutually agreed upon metrics with updates in the Compliance Plan Progress Reports.

ii) **Selection Processes and Existing Contractors**

PWSA will continue to follow the requirements of the Municipal Authorities Act (MAA) regarding competitive bidding, which typically requires that all projects with values above \$20,600 be competitively bid. PWSA has committed to providing a list of each construction contract in the prior year that was awarded without competitive bidding, as well as an analysis of how those contracts compare to the total number of construction contracts awarded. PWSA is currently enhancing and finalizing a company-wide procurement policy. PWSA will provide this information, as well as updated design engineer and company affiliation for each project in future Compliance Plan Progress Reports.

iii) **Projected Expenditures**

PWSA will update its testimony to provide the project operations for open and active projects, as of the date of the supplemental testimony, and will provide updated details about the funding sources that it plans to use in each project in future Compliance Plan Progress Reports.

iv) **LTIP – Materials Report, Valves, Prioritization**

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. Currently, the CMMS implementation is being developed as part of the ERP system.

v) **Customer Owned Lead Service Lines**

At an appropriate time, PWSA will file a Petition to Amend its Long-term Infrastructure Improvement Plan to include estimates on the number of customer-owned (i.e. private side) lead service lines, and the expected expenditures for replacement, to the extent that the Commission has authorized or directed PWSA to replace these facilities. PWSA is on track to file this petition.

vi) **Workforce Development**

PWSA has agreed to update its existing LTIP to include the additional information set forth in PWSA St. C-1R at 70-72, in addition to more current information regarding workforce challenges related to the LTIP schedule and how PWSA will build a workforce to meet the needs of its increased capital spending. This information will include how headcount projections were quantified and an estimate of the number of required contractors.

vii) Construction Coordination with Other Utilities and Municipalities

PWSA has also agreed to update its existing LTIP to include the additional information set forth in PWSA St. C-1R at 72, as well as any other more current information regarding how PWSA will meet the need for increased coordination with local utilities and governments. This will include adopting a plan with the City to ensure that additional engineering staff will improve coordination efforts, or that other necessary actions to improve such efforts are taken.

viii) Distribution System Improvement Charge

In its next base rate case, PWSA is authorized to seek Commission approval of a DSIC, with a to-be-determined cap in excess of 5%, and waivers of Act 11 so as to permit PWSA to use an annual, levelized charge as the basis for the DSIC (subject to subsequent true-up for PWSA's actual experience).

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 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	A draft report is due October 25, 2019 and final report will be submitted by the end of 2019.
Develop and implement district metering program.	2020	On Target
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.
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	On Target
Develop a plan to track cost effectiveness and cost reporting relative to projections.	With future filings	PWSA has begun 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 a Water Distribution System Master Plan, to address master metering, non-revenue water, and include an AWWA Water Audit based on available data.

PWSA's Board of Directors has approved the Water Distribution System Master Plan, with a targeted completion by end of 2019. This plan will include a detailed process to clearly identify needed improvements to the distribution system, provide prioritization and criticality scoring to be used to select distribution mains for renewal, to evaluate and rank candidate large diameter water mains for renewal, present an assessment of expected growth in the system, assess vertical assets, and recommend capital improvement. The Master Plan will address master metering and non-revenue water and will include a draft water audit that follows AWWA guidance using available data. This plan will also recommend locations for implementation of the district metering program, which is discussed in the next section.

- ii) 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

The following existing flow meters are to be rehabilitated and calibrated in 2019/2020:

- System Delivery Flow Meters
 - Bruecken Pump Station Highland Reservoir No. 1 (Rising Mains 1 and 2)
- District Meters
 - Herron Hill Pump Station
 - Herron Hill Tank Pump Station
 - Howard Pump Station
 - Mission Pump Station
 - Saline Pump Station

Additional district meters will be installed as part of the rehabilitation of the booster chlorination facilities in 2020/2021 at the discharge of the tanks and reservoirs. Additional district flow meters identified in the Water Distribution System Master Plan will be installed in 2020.

- iii) 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

PWSA shared the following cost breakdown with all settlement parties on January 23, 2019:

- > Actual and projected operating and capital costs to date incurred and estimated to be incurred as a result of the October 25, 2017 Department of Environmental Protection Administrative Order with regard to the HMFP; and
- > Actual and projected operating and capital costs on a calendar year basis incurred and estimated to be incurred to operate the HMFP.

PWSA will continue to make these cost breakdowns available quarterly, as well as upon completion of repairs to the HMFP. Please see Appendix G for additional information.

- iv) A cost/benefit analysis comparing continuing to operate the HMFP instead of covering and placing a physical barrier around Highland No. 1 Reservoir

PWSA is on schedule to provide a cost/benefit analysis of the relevant legal, technical, and policy considerations, as well as a cost comparison, of operating the HMFP instead of covering and placing a physical barrier around the Highland No. 1 Reservoir in the next base rate case. Note that the HMFP is still not fully operational and operating under DEP consent, so operations and maintenance cost projections cannot be verified until the system is fully on line (anticipated completion date is August 28, 2019).

- v) 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 F.

- vi) Update on Orthophosphate Program

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

The project associated with the construction of the Orthophosphate Addition Facilities is the "Corrosion Control Chemical Storage and Feed Systems" Project, PWSA Project No. 2017-322-107-0. This project was extended in July 2019 to permit the design and construction of modified orthophosphate chemical storage containers at both the Aspinwall Pump Station and Bruecken Pump Station, converting from temporary soft walled poly totes to permanent double-wall storage tanks with exterior fill stations and associated structural improvements (interior and exterior). This modification is typical of the design implemented at the two Highland No. 1 Orthophosphate Storage Sites and will be completed by February 2020. 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 Target
65.4 Update GIS with main installation date and material.	by 2021	On Target
65.4 Update GIS with hydrant and valve status.		On Target
65.4 Organize, store, and input current records backlog into GIS.		On Target
65.6 Install additional monitoring stations for areas of low pressure.	by 2020	On Target, to be addressed by the Water System Master Plan.
65.6 Develop an SOP to address areas of high pressure.	by the end of 2019	On Target, to be addressed by Master Plan.
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	On Target
65.14 Reestablish operability of meters at each source of supply and install an additional meter at Fox Chapel Station.	2019	Complete
65.17 Continue to work on replacing all 4" water mains.		On Target, to be addressed by Master Plan.
65.17 Incorporate the PUC's design requirements, specifications, and standard details into a formalized design manual.	2019 and 2020	On-Target
65.18 Complete the development of a comprehensive flushing program.	Starts in 2018	On-Target
65.18 Review the existing system to ensure ample valves.	Starts in 2018	On-Target, to be addressed by Master Plan.
65.18 Increase the number of valves inspected and operated per year.	2019	On-Target, to be addressed by Master Plan.

i) 65.4 - Records

Section 65.4 of Chapter 65 stipulates that utilities must keep complete maps, plans, or records of their entire distribution systems that show the size, character, and location of each main, street valve, and service line. To address these requirements, PWSA is committed to developing SOPs for records filing, updates, and retrieval; updating its GIS system with main installation dates and materials; updating its GIS system with hydrant and valve status; and organizing, storing, and inputting the current records backlog into GIS. This effort is currently underway.

However, due to the volume of data, PWSA could be delayed on completing the complete update of the GIS. However, all records are available in hard copy in PWSA's offices. Associated metrics are shown in Appendix C.

ii) 65.6 - Pressures

PWSA is aware of locations within its system where pressure falls below 25 psi. In accordance with Part 4 of the PA DEP October 25, 2017 Administrative Order, PWSA has installed 24 pressure monitoring stations, which monitor and record pressures every 15 minutes, and report on low or loss of pressure by text and email alert. 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 PWSA is on-target to meet the projected timeframes.

iii) 65.7 - Secure a contractor to assist with inspection, sizing, and installation of meters and associated equipment for municipal buildings and flat rate customers

PWSA has committed to partnering with a contractor to inspect, size, and install meters for municipal and other unmetered accounts (PWSA estimates 200-400 of these accounts in its service area) within the next five years. PWSA's Board of Directors approved a consulting contract on April 26, 2019, and site inspections have started. So far services for 101 municipal services and 105 flat rate customers have been inspected under this contract. 74 services have been identified as ready-to-meter and Operations has just begun to install meters at these locations, with two in place so far.

iv) 65.14 - Reestablish operability of meters at each source of supply and install an additional meter at Fox Chapel Station

PWSA has rehabilitated and calibrated the existing meter at the Ross Pump Station to meter flow of the raw water intake. A new flow meter has been installed at the Fox Chapel Pump Station.

v) 65.17 – Standards of Design

In accordance with the PUC's standards of design, PWSA is focused on continuing to replace all 4" water mains. In 2019, PWSA will replace 2,982 LF of 4-inch main. In 2020, PWSA plans to replace 26,138 LF of 4-inch main. The 2021 Small Diameter Water Main Replacement Program will focus on the replacement of 4-inch mains located within high priority lead neighborhoods. The length of 4-inch diameter mains previously reported was based on a general query of the GIS. However, upon further inspection, some of these 4-inch mains are actually service mains. PWSA will work to further refine the GIS to ensure all the 4-inch mains reported are actually distribution mains.

PWSA plans to incorporate the PUC's design requirements, specifications, and standard details into a formalized design manual in 2020.

vi) 65.18 – Standards of Construction

As discussed in the Operations section, PWSA developed and implemented a comprehensive flushing program as part of the implementation of orthophosphate and is increasing the number of valves inspected and operated each year. PWSA will also be analyzing the existing system to ensure ample valves through its Master Planning process. The Authority is on target to have these issues addressed within the specified timeframes.

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. 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 11 highlights these additional reporting requirements.

Table 11: Finance, Contractual, and Other Issues Requirements from the Master List of Stipulations

Task	Timeline (if specified in the Master List of Stipulations)	Progress to Date
Residential Fire Protection and Standby Charges	Next Base Rate Case	Residential customers who have been charged private fire protection have been identified and will be credited for those payments.
Ownership of Wastewater Laterals		PWSA is initiating a study on this issue

i) Residential Fire Protection and Standby Charges

PWSA has identified 49 current customers that are being charged a separate private fire protection charge, pursuant to PWSA's tariff. These customer accounts have been reviewed, and four accounts have been identified as residential. These four customers will no longer be assessed the private fire protection charges (charges assessed since April 1, 2018 will be retroactively removed, and customers will receive a credit on their bill or a one-time payment in lieu of credit). PWSA plans to update its tariff language and will report on this issue in subsequent Compliance Plan Progress Reports.

ii) Ownership of Wastewater Laterals

PWSA will conduct a study to investigate the legal, economic, and operational feasibility of owning and/or maintaining (now privately owned) wastewater laterals within public easements. The report will include the cost, feasibility, and appropriateness of alternatives.

b. 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
Renegotiate the Cooperation Agreement with the City of Pittsburgh.	Quarterly Updates, beginning 4/30	Cooperation agreement extension expired on October 3, 2019.
Consider the timeframe for developing a separate rate for public fire hydrant service.	Next Base Rate Case	On Target

Consider assessing the City of Pittsburgh a separate rate for public fire hydrant service.	Next Base Rate Case	On Target
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.	Next Base Rate Case	On Target
Analyze the feasibility of assessing a flat rate to the unmetered customers.	Next Base Rate Case	On Target
Investigate the allocation of flows to ALCOSAN and other municipalities to determine the feasibility of measuring stormwater separately from wastewater.		On Target
Propose a plan or method for developing separate cost of service studies for wastewater and stormwater for the development of stormwater rates.		On Target
Evaluate the potential ways to address PWSA's contract with ALCOSAN, including renegotiation of the contract.		On Target
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 will be eliminated 120 days after the Commission's final order.

i) Renegotiate the Cooperation Agreement with the City of Pittsburgh
PWSA is in the process of renegotiating the Cooperation Agreement with the City of Pittsburgh and began providing quarterly updates to the parties on April 30, 2019. Even though PWSA has given termination notice to the City, the Authority's Board of Directors extended the Cooperation Agreement by two months on April 26, 2019. Prior to agreement on a new Cooperation Agreement, fees for any service provided to or received from the City will be done on an actual cost basis. PWSA's Board of Directors approved the cooperation agreement on June 28, 2019. The extension of the Cooperation Agreement expired on October 3, 2019. PWSA and the City of Pittsburgh continue to review the draft Cooperation Agreement.

- ii) Notify all parties to the Settlement proceeding if the City of Pittsburgh and PWSA reach an agreement for an Amended Cooperation Agreement, and provide each with a copy of the renegotiated Cooperation Agreement

PWSA plans to notify all parties to the Settlement proceeding if the City of Pittsburgh and PWSA reach an agreement for an Amended Cooperation Agreement, and to provide each with a copy of the renegotiated Cooperation Agreement.

- iii) Consider the timeframe for developing a separate rate for public fire hydrant service

PWSA has committed to developing a separate, cost-justified rate for public fire hydrant service, to be presented as part of the next base rate case filing. The billing plan for these hydrants will be part of the Cooperation Agreement. This process is underway, and a formal rate will be proposed in the next base rate case, which will show an allocation of 25% of all public fire hydrant costs to the City. PWSA reserves the right to propose an appropriate phase-in period at that time. Starting in 2020, PWSA will use the PAWC public fire hydrant rate as a proxy until Commission approval of a PWSA public fire hydrant rate.

- iv) Consider assessing the City of Pittsburgh a separate rate for public fire hydrant service

PWSA plans to assess the City of Pittsburgh with a separate rate for public fire hydrant service. Implementation timing and approach regarding this rate will be in the context of, and dependent on, larger negotiations with the City. Starting in 2020, PWSA will use the PAWC public fire hydrant rate as a proxy until Commission approval of a PWSA public fire hydrant rate.

- v) 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 but wants to be sure that any methodology applied is defensible and equitable. Beginning on 1/1/2020, PWSA plans to implement water and wastewater rates for unmetered and/or unbilled properties on a "phased-in" and "stepped" 20-40-60-80-100 percentage basis. "Phasing" means installing meters over time at City locations, and "stepping" means fully billing metered properties over a period of time.

- vi) Analyze the feasibility of assessing a flat rate to the unmetered customers

The Authority has every intention of assessing water consumption and sewer demand charges to unmetered customers. However, the majority of the unmetered customers are non-residential, which complicates development and assessment of a flat rate, because the buildings are not homogeneous and water line size is not necessarily indicative of use. As such, assessing a flat rate will be dependent on the Authority's ability to accurately capture use and avoid assessing an inequitable charge. The Authority plans to conduct its analysis before the next rate case.

- vii) 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.

- viii) Propose a plan or method for developing separate cost of service studies for wastewater and stormwater for the development of stormwater rates

PWSA has initiated the development of separate cost of service studies for wastewater and stormwater, with the goal of proposing stormwater rates. This effort includes further studies of future stormwater Level of Service and other factors that impact the annual operations and capital budgets. The basis of charging customers for stormwater service is being finalized, and will be completed in the first quarter 2020.

- ix) 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.

- x) 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

PWSA has investigated the City of Pittsburgh discount for PAWC water customers, in light of rate changes for both organizations, and in the context of PWSA's negotiations with the City of Pittsburgh. Based on the May 2019 billing data, over 80% of residential customers are receiving a subsidy of \$1 or less, over one-third of the residential customers are receiving no subsidy; and the average subsidy customers are receiving is less than \$.50 per month.

Therefore, the subsidy shall be eliminated no later than December 31, 2019. PAWC will provide notice to customers before the subsidy is eliminated, over the course of two billing cycles.

c. 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	On Target
65.19 Filing of Annual Financial Reports	2019	On Target
69.801 Develop a formal policy to improve diversity in the workforce.	By the end of 2019	On Target
69.16 Update emergency response plan with updated SOPs.	October 31, 2019	Complete
73.3 Annual Depreciation Reports	April 1, 2024	On Target
73.5 Service Life Study Report	April 1, 2022	On Target
73.7 Capital Investment Plan Report	2020	On Target
101.3 Plan Requirements	Various	See completion dates below.
101.4 File a Self-Certification Form	February 28, 2020	On Target
Capital Lease Agreement	2025	On Target
Bulk Water: Sales for Resale	Within 120 days of the Final Commission Order	On Target
Bulk Wastewater Conveyance Agreements	Within 120 days of the Final Commission Order	On Target

i) 65.16 - System of Accounts

Section 65.16 mandates that a public utility, having an annual operating revenue of \$750,000 or more shall keep its accounts in conformity with the most recent Uniform System of Accounts for Class A Water Utilities, as prescribed by the National Association of Regulatory Utility Commissioners (NARUC). PWSA has completed its effort to map its current chart of accounts to the NARUC chart of accounts in order to identify existing gaps. Future reporting will include the date when a Request for Proposals is issued for an Enterprise Resource Planning (ERP) contract, 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 in 2019, and complete installation of an ERP system will occur

by December 2021. PWSA has developed an RFP and is also investigating a cooperative purchasing agreement to procure a new ERP system.

ii) 65.19 - Filing of Annual Financial Reports

PWSA understands the importance of filing annual financial reports and has filed its first with the Commission in 2019.

iii) 69.801 - Develop a formal policy to improve diversity in the workforce

PWSA is in the process of developing a formal policy to improve diversity in the workforce. The Supplier Diversity Program policy has been approved by the Board of Directors and will be integrated into all procurement documentation.

iv) 69.16 - Update emergency response plan with updated SOPs

PWSA has finalized the emergency response plan to better adhere to the National Incident Management System's public information system and including updated standard operating procedures. This effort has been completed with the anticipation that the plan may be updated pursuant to PWSA's Risk and Resilience Assessment.

v) 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.

vi) 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 plans to meet this requirement and file a service life study report by April 1, 2022.

vii) 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 2020 and plans to file every five years thereafter.

viii) 101.3 – Plan Requirements

PWSA is in the process of developing a physical security plan, based on its recently completed security assessment. Similarly, a cyber security assessment was completed in 2018, and PWSA has completed a formal cyber security plan. PWSA is also working to finalize its emergency response plan. This version of the emergency response plan will meet DEP requirements and most of EPA requirements (please note, the ERP will need further updates pending results of Risk and Resilience Assessment). The Business Continuity Plan is complete. Specific estimated completion dates are:

- > Physical security plan: 12/31/2019
- > Cyber security plan: Approved
- > Emergency response plan – 10/31/2019
- > Business continuity plan – 10/31/2019

ix) 101.4 - File a Self-Certification Form

PWSA anticipates filing a self-certification form once it meets the plan requirements. Note that under 101.3 PWSA indicates that it is working to finalize the various plans. PWSA plans to file its self-certification form by February 28, 2020.

x) 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.

xi) Bulk Water: Sales for Resale

Within 120 days of the final Commission Order in the Compliance Plan proceeding, PWSA will file 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. In its next rate case, PWSA will propose a retail rate or rates that will be included in the tariff and charged to new bulk water sales. 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.

xii) Bulk Wastewater Conveyance Agreements

Within 120 days of the final Commission Order in the Compliance Plan proceeding, PWSA will file 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 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.

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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	Complete
Develop a leak detection program and restructure staff to add more personnel for leak detection.	April 2019	Complete
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.
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	Complete
Suspend the use of Jordan Tax Service, Inc.	With the Commission's final order approving the Settlement	Complete
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.
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, and June 3, 2019.
Develop and implement a plan to encourage greater participation in the lead line replacement program.	Plan developed within 90 days of effective date of rates; customer participation reported quarterly	The Community Outreach and Communication Plan was presented to CLRAC for input and is currently being implemented. Updates are provided at each meeting.
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	Complete.
Develop and implement a plan to encourage greater participation in the lead sampling program.	Within 90 days of effective date of rates	The Community Outreach and Communication Plan was presented to CLRAC for input and is currently being implemented. Updates are provided at each meeting.
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.
Analyze the feasibility of including all lead service lines, including private-side-only lead service lines, in PWSA's 2019 lead service line replacement program and 2020 - 2026 small diameter water main replacement program.	Within 90 days of effective date of rates	This information was presented to CLRAC on March 4, 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	Letters sent to all CAP customers in February 2019 with update in April and every month hereafter.
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.		Complete
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	Complete

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

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

Metric	September 2019
Pipeline Materials (% of pipe segments with materials listed in GIS)	Water: 23% (15,345 out of 67,132 water mains have material populated) Sewer: 76% (34,144 out of 45,048 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) *	TBD
Pipeline Pressures (distribution pressure devices recording pressure outside minimum and maximum for more than 10 minutes)	TBD
Installation Year (% of pipe segments with installation year listed in GIS)	Water: 21% (14,228 out of 67,132 water mains have date installed populated) Sewer: 14% (6,305 out of 45,048 sewer mains have a date installed populated)
Pipeline Diameter (% of pipe segments with pipeline diameter listed in GIS)	Water: 100% (67,130 out of 67,132 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: 961.2 miles; Abandoned Water Mains: 149.2 miles mapped in GIS (includes abandoned water mains layer originally exported from CAD prior to GIS conversion) Active Sewer Mains: 1,223.0 miles; Abandoned Sewer Mains: 59.6 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)	569
Leak Repair (number of leaks repaired – service line)	340
Pipeline Damages from Excavation (GIS or CMMS field denoting suspected cause of leak)	TBD
Plant in Service (Asset inventory)	TBD

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Corrosion Protection Programs (pipe segments protected by cathodic protection)	TBD
Lead Levels (Lead and copper action level, current period)	TBD
Miles of Lead Pipeline	TBD
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)	TBD
Sanitary Flow Reduction (Number of reportable SSOs per year)	TBD
Sanitary Flow Reduction (Volume of reportable SSOs per year)	TBD
Miles of Combined Sewer Separation (per year)	TBD
Unaccounted for Water (% of finished water that is unaccounted for)	TBD
Non-revenue Water (% of finished water that is non-revenue)	TBD

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

Appendix D – Low Income Customer Billing Metrics

Billing Metrics	July 2019		October 2019		January 2020
Billed revenue	\$60,228,203		\$68,655,763		
Receipts actually collected	\$57,694,798		\$69,299,530		
Number of accounts in arrears	27,717		25,057		
Dollars of arrears	\$13,390,625		\$14,007,000		
Number of accounts disconnected for nonpayment	711		660		
Number of accounts receiving a notice of disconnection for nonpayment	12,097		12,078		
Number of bill discount participants who entered the bill discount program with unpaid account balances	129		102		
Dollars of unpaid account balances for bill discount program participants at the time those participants entered the bill discount program	\$88,189.63		\$93,933.09		
Number of bill discount participants by agreed-upon poverty ranges	15206	1.15%	15214	17.77%	
	15210	3.72%	15208	26.74%	
	15235	5.59%	15219	28.82%	
	15206	6.01%	15212	37.36%	
	15220	18.73%	15206	40.68%	
	15219	19.69%	15213	46.41%	
	15214	19.69%	15209	46.50%	
	15216	20.43%	15224	54.71%	
	15206	22.49%	15207	55.74%	
	15212	22.67%	15214	56.27%	
	15212	22.67%	15214	57.79%	
	15212	22.67%	15201	59.89%	
	15203	23.42%	15203	63.08%	
	15206	23.42%	15203	64.17%	
	15212	23.42%	15212	67.17%	
	15201	24.39%	15214	71.24%	
	15214	25.80%	15214	74.07%	
	15207	31.81%	15214	75.99%	
	15213	37.56%	15214	76.18%	
	15211	44.77%	15224	76.66%	
	15212	44.81%	15210	79.74%	
	15206	48.03%	15207	80.32%	
	15206	48.38%	15211	85.15%	
	15219	53.22%	15214	89.39%	
	15210	54.71%	15212	90.40%	
			15219	93.29%	

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	15214	55.73%	15214	96.45%
	15211	55.95%	15219	100.68%
	15212	56.27%	15212	101.07%
	15210	58.00%	15224	105.78%
	15212	59.02%	15211	108.27%
	15201	59.75%	15210	115.38%
	15208	60.75%	15212	117.20%
	15204	64.07%	15204	121.44%
	15208	65.90%	15224	122.49%
	15206	66.42%	15211	122.81%
	15206	69.26%	15201	123.54%
	15206	70.82%	15233	128.58%
	15213	72.81%	15214	142.70%
	15224	73.23%		
	15201	73.69%		
	15210	74.07%		
	15206	77.77%		
	15210	77.91%		
	15212	77.91%		
	15220	78.14%		
	15210	78.69%		
	15217	80.47%		
	15211	81.21%		
	15214	83.01%		
	15207	83.38%		
	15217	83.44%		
	15208	83.68%		
	15208	83.77%		
	15220	83.87%		
	15212	84.09%		
	15208	85.00%		
	15219	86.36%		
	15208	89.35%		
	15213	91.24%		
	15212	91.42%		
	15214	94.64%		
	15212	95.02%		
	15219	95.98%		
	15212	96.07%		
	15211	96.31%		
	15106	102.75%		
	15219	103.57%		
	15208	107.41%		

	15204	108.95%	
	15224	109.21%	
	15212	112.69%	
	15219	115.38%	
	15208	115.96%	
	15212	116.97%	
	15219	117.98%	
	15208	120.19%	
	15213	123.90%	
	15206	125.77%	
	15208	127.87%	
	15211	128.58%	
	15201	130.47%	
	15210	130.47%	
	15212	131.77%	
	15211	132.77%	
	15210	133.12%	
	15208	134.31%	
	15210	135.99%	
	15212	136.14%	
	15214	138.85%	
	15212	140.68%	
	15221	142.72%	
	15206	146.13%	
	15201	147.19%	
Average usage	4,000 gallons		1,261 gallons
Average bill including ALCOSAN charges	\$128.28		\$122.63
Number of PWSA customers receiving a PWSA hardship grant	83		37
Average amount of PWSA hardship grants	\$271.38		\$292.78
Average arrearage of PWSA customers receiving a PWSA hardship grant.	\$749.89		\$1,124.33

Appendix E – Call Center Metrics and Customer Service Monthly Reports

Metric	July, 2019	August, 2019	September, 2019
Abandoned Calls (% of total calls)	1.4%	1.9%	1.5%
Automatic Call Distributor (ACD) Handling Time (minutes)	4:18	4:10	4:03
Average Speed of Answer (minutes)	0:46	0:52	0:51
Customer Service Representative Staffing (FTE – Full Time Equivalents)	14 FTEs	11 FTEs	11 FTEs
Customer Satisfaction (customer survey)	98.6%	99.9%	99.9%
Service Level %	87.6%	85.8%	87.0%

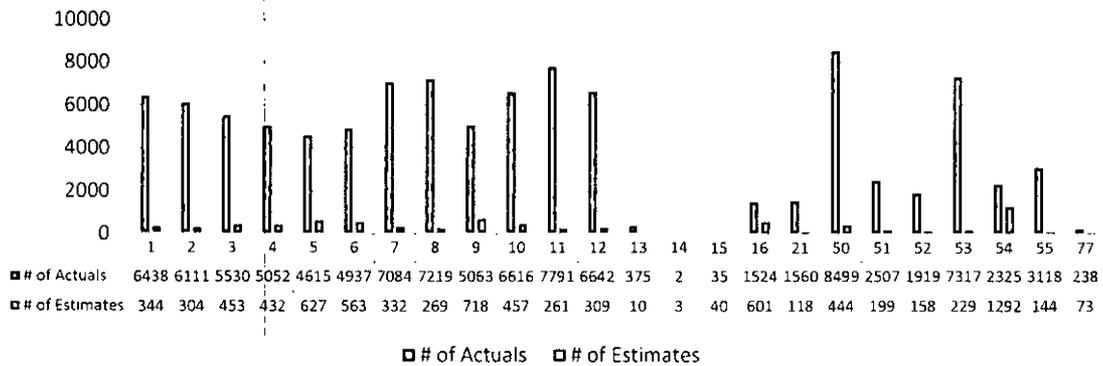
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CUSTOMER SERVICE MONTHLY REPORT

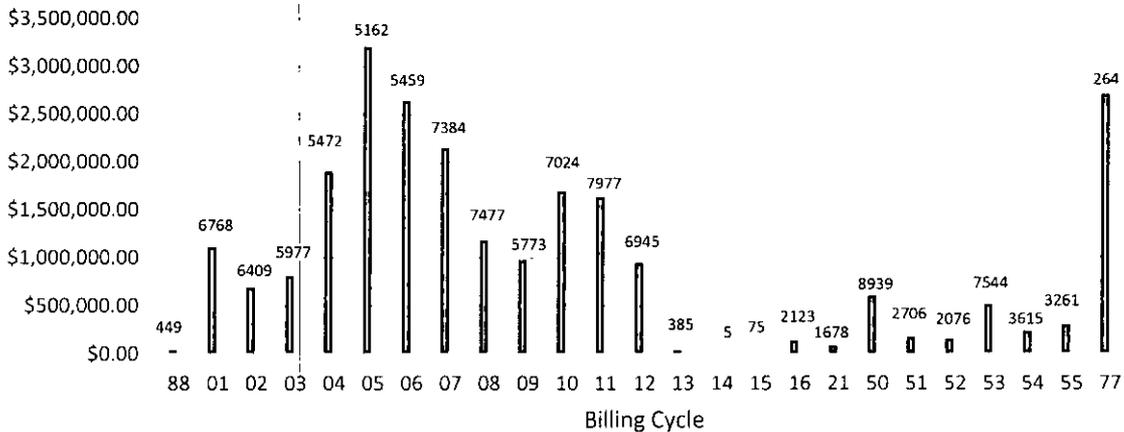
AMI and BILLING – SEPTEMBER 2019

A Non-Access Campaign continued to address the 1,182 aged actual meter readings and 4,183 estimated meter readings. Under the PA PUC Compliance Plan, customers are continuing to be notified via letters and posting notices to make appointments for a meter upgrade. PWSA successfully upgraded 1,186 meters in September 2019! Additionally, 1,195 letters were issued, 233 properties were posted, and 50 accounts were shut for non-access. Billing received 411 final bill requests and processed them within 7 days. Billing totals for the month of September 2019 were 110,947 bills produced in the amount of \$24,063,867.75.

Billed Actual vs. Estimated Readings September 2019



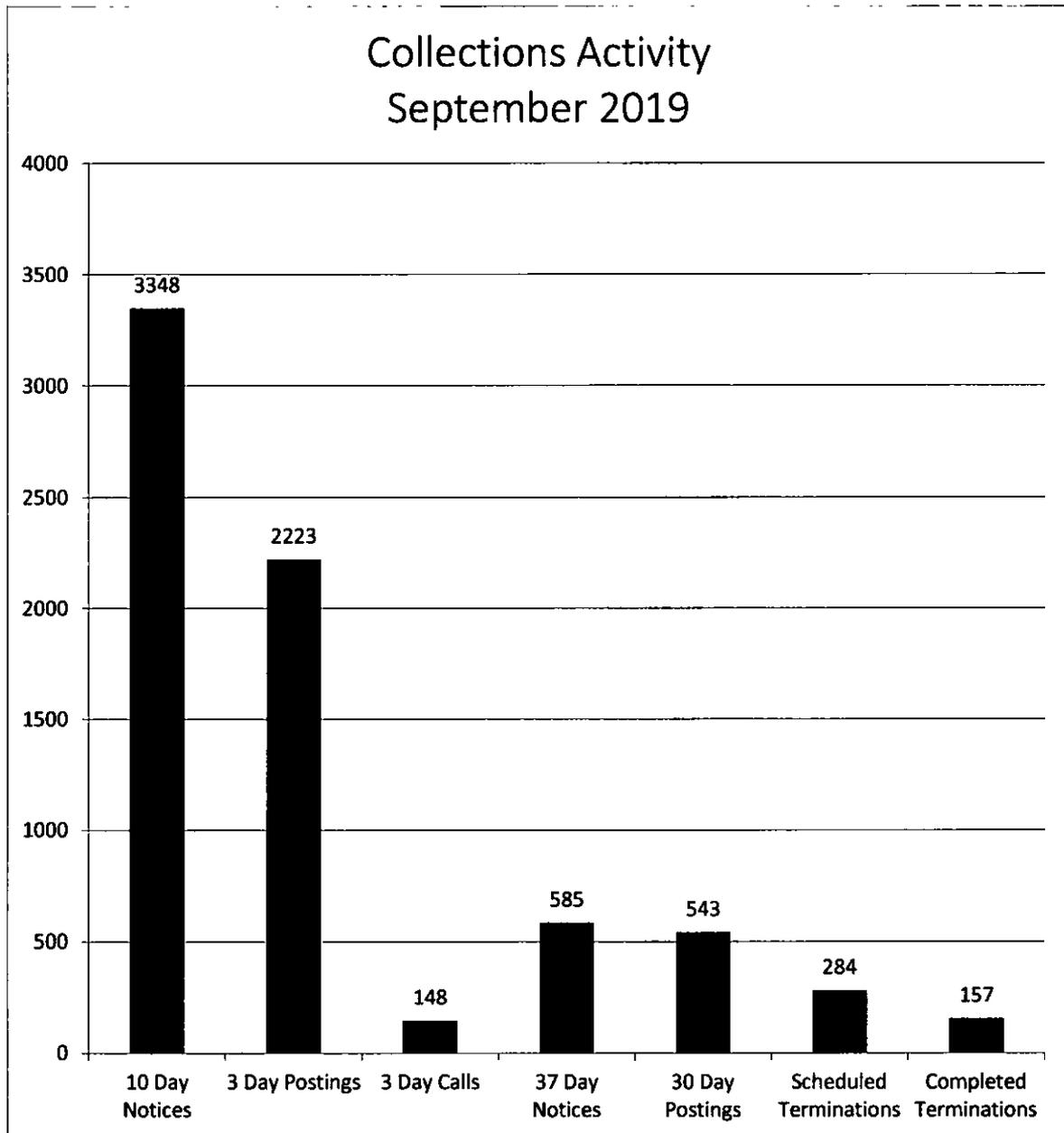
Billed Amounts in September 2019



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – SEPTEMBER 2019

In September 2019, the total Collections were \$20,622,758, which was \$165,279 less than what was billed in August 2019. Out of a total of 780 customer inquiries to info@pgh2o.com, Collections personnel responded to 746, most within 48 hours. Collections personnel also assisted 1,005 walk-in customers in this month.



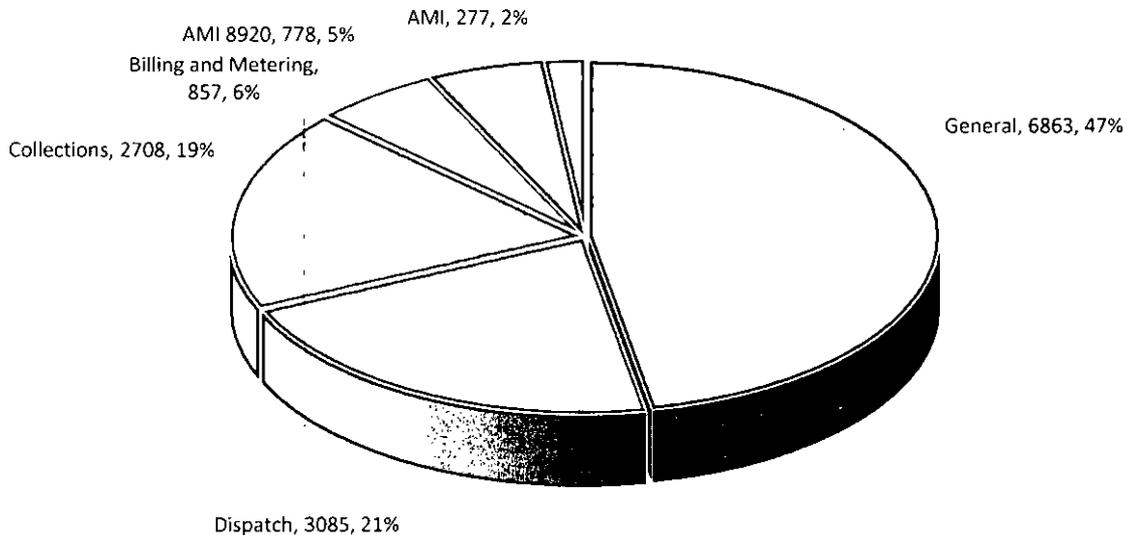
CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – SEPTEMBER 2019

There were 20 business days in the month of September 2019. Customer calls continued to be monitored by the Customer Service Coordinator. Corrective actions continued to be taken to address any employee performance issues. The Customer Service Coordinator overseeing the Contact Center continued to promote a positive work environment through rewards and mentoring. The attendance rate changed to 11 full time employees and 3 part time employees. Of the 14,568 calls handled in the month of September 2019, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. For the month of September, the Contact Center has yielded yet another low call abandonment rate of 1.5% with an overall average speed of answer of 51 seconds.

Queue Group Performance by Queue								
1 - All Queues								
9/1/2019 - 9/30/2019 - 00:00 - 24:00								
Created on 10/2/2019 9:46:46 AM by Fishal Jones								
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	6882	6863	00:01:02	00:04:42	1.7%	82.5%	98.3%
P004	DISPATCH	3142	3085	00:00:15	00:01:46	1.8%	98.5%	98.2%
P002	COLLECTIONS	2742	2708	00:01:07	00:05:13	1.2%	91.0%	98.3%
P005	BILLING AND METERING	866	857	00:00:57	00:04:34	1.0%	94.2%	99.0%
P006	AMI 8920	1483	778	00:00:07	00:03:03	0.4%	95.9%	52.5%
P005	AMI	284	277	00:01:55	00:03:08	2.5%	70.8%	97.5%
Totals		15499	14568	00:00:51	00:04:03	1.5%	67.0%	94.0%

Customers Assisted Via Telephone - 14,568

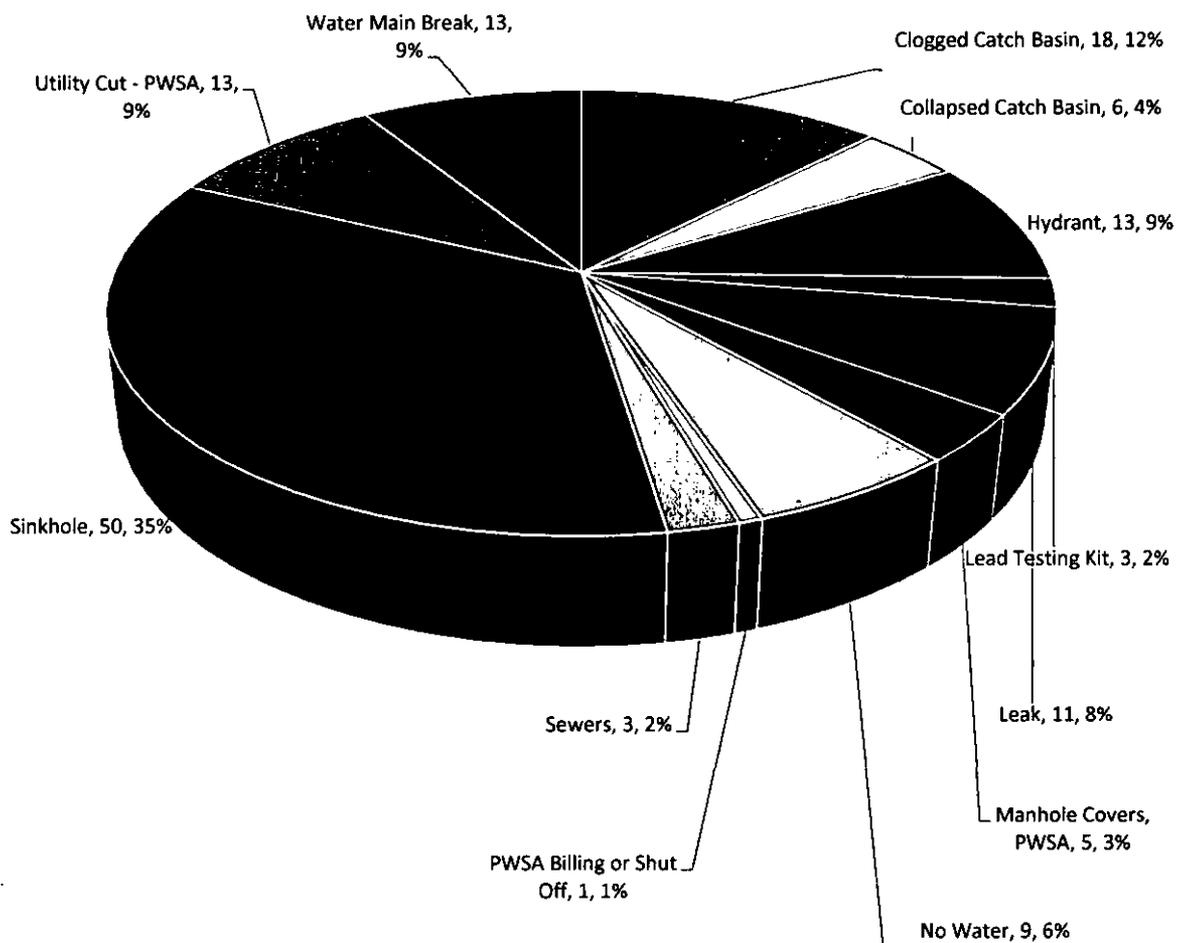


CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – SEPTEMBER 2019

Dispatch responded to 3,085 calls for emergency service in September 2019. In this month, the Dispatchers issued 109 Interruptions of Service and facilitated 154 dig requests to Pennsylvania One Call.

311 Mayor's Service Center Complaints Handled September 2019

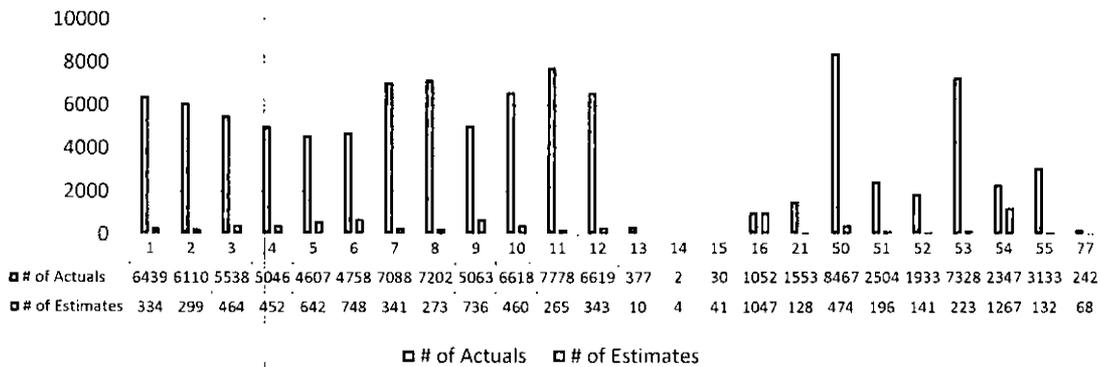


CUSTOMER SERVICE MONTHLY REPORT

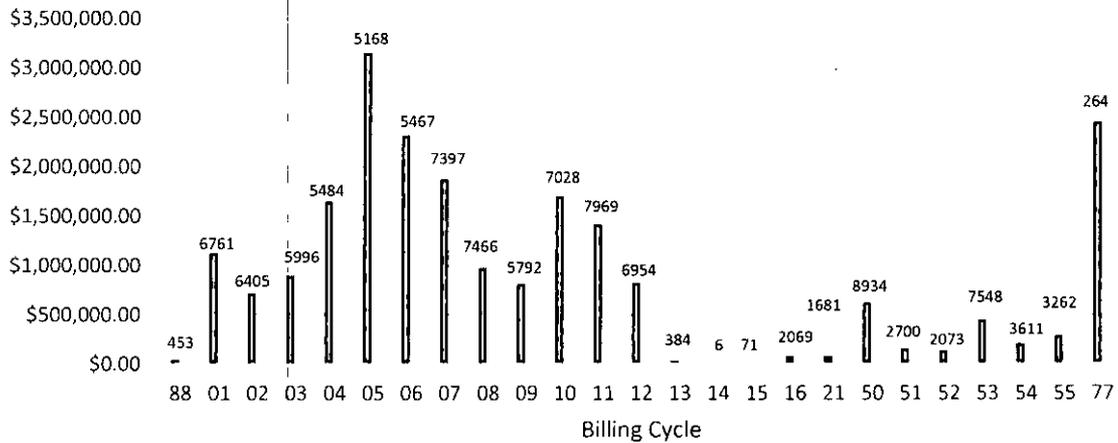
AMI and BILLING – AUGUST 2019

A Non-Access Campaign continued to address the 1,126 aged actual meter readings and 3,584 estimated meter readings. Under the PA PUC Compliance Plan, customers are continuing to be notified via letters and posting notices to make appointments for a meter upgrade. PWSA successfully upgraded 1,355 meters in August 2019. Additionally, 2,529 letters were issued, 266 properties were posted, and 48 accounts were shut for non-access. Billing received 588 final bill requests and processed them within 7 days. Billing totals for the month of August 2019 were 110,943 bills produced in the amount of \$22,114,363.22.

Billed Actual vs. Estimated Readings August 2019



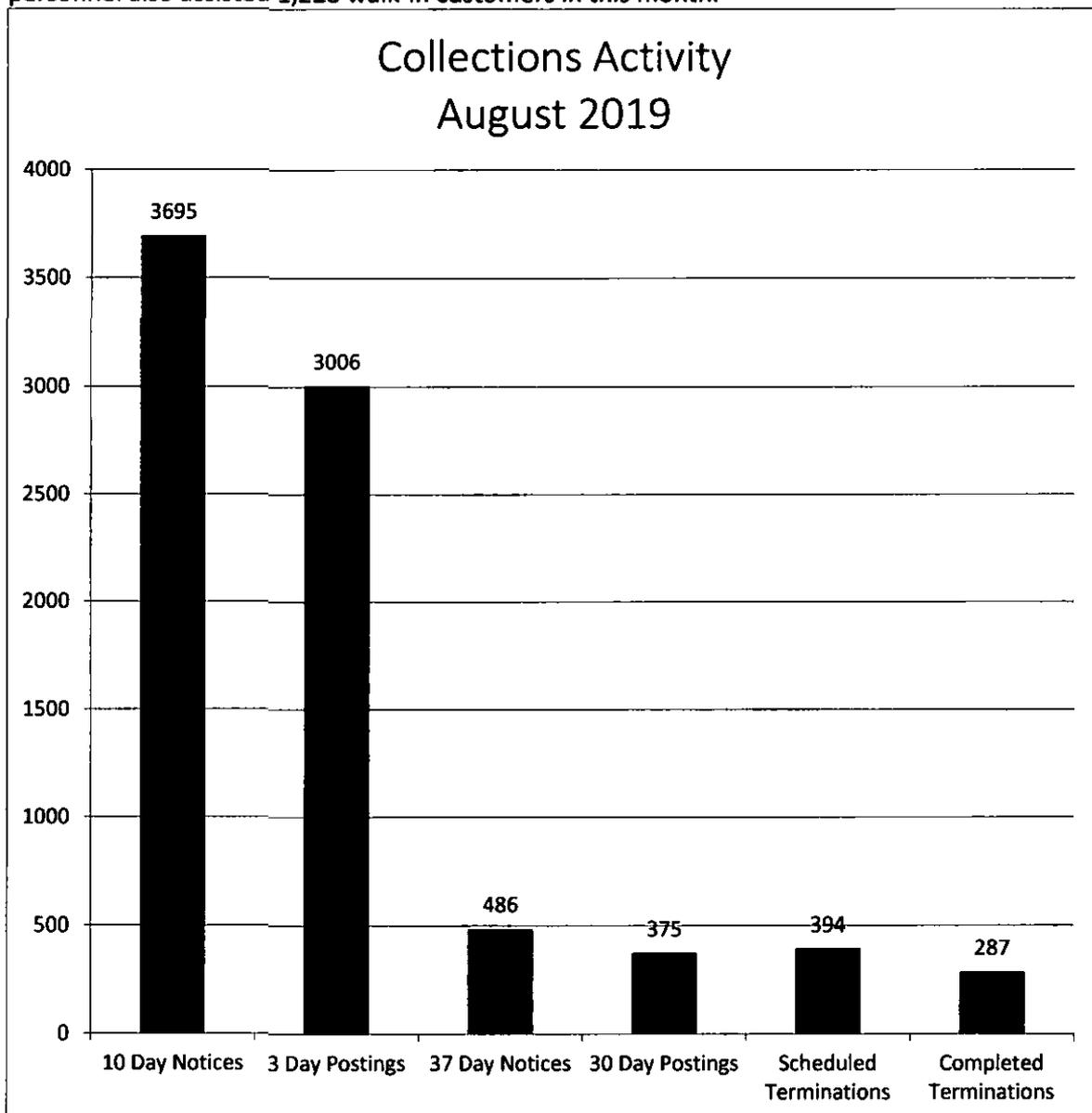
Billed Amounts in August 2019



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – AUGUST 2019

In August 2019, the total Collections were \$22,357,036, which was \$126,327 less than what was billed in July 2019. Following up on failed automated outbound calls for planned and emergency outages in this month, 60 letters were mailed to customers, requesting that they update their contact information with PWSA. Out of a total of 1,124 customer inquiries to info@pgh2o.com, Collections personnel responded to 1,112, most within 48 hours. Collections personnel also assisted 1,223 walk-in customers in this month.



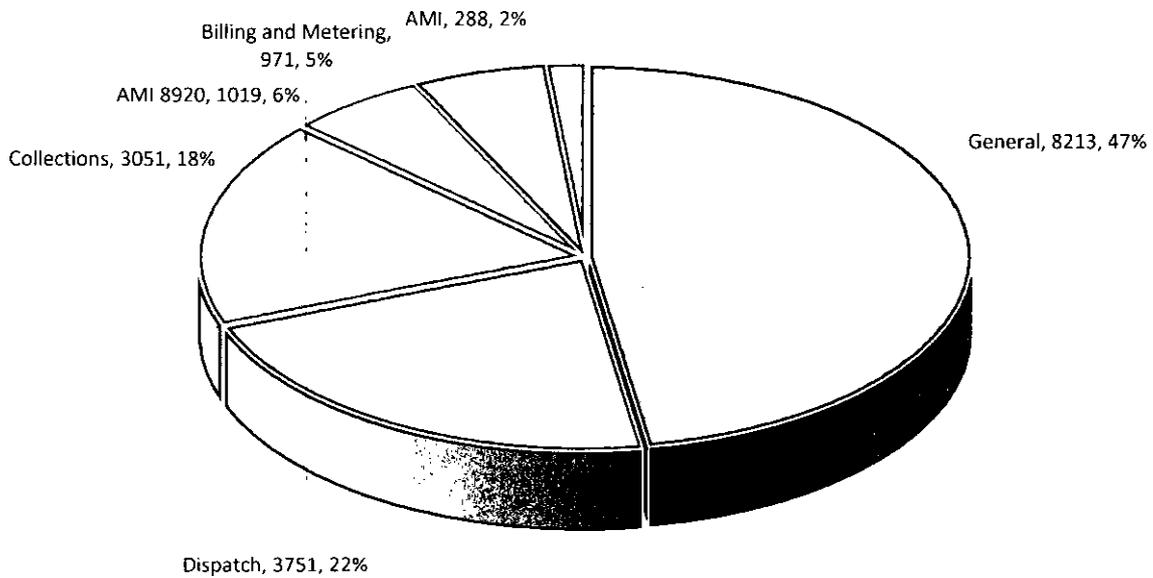
CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – AUGUST 2019

There were 22 business days in the month of August 2019. Customer calls continued to be monitored and assessed by the Customer Service Training Coordinator. Corrective actions continued to be taken to address any employee performance issues. The Customer Service Coordinator overseeing the Contact Center continued to promote a positive work environment through rewards, celebrations, and mentoring. The attendance rate changed to 11 full time employees and 3 part time employees. Of the 17,293 calls handled in the month of August 2019, the Customer Service Representatives were able to report a 99.9% customer satisfaction rate. In this month, the Contact Center achieved yet another low abandonment rate of 1.9%.

Queue Group Performance by Queue								
1 - All Queues								
08/01/2019-08/31/2019- 00:00-24:00								
Created on 09/3/2019 9:38:24 AM by Tishia Jones								
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	8374	8213	00:01:01	00:04:55	1.9%	81.1%	98.1%
P004	Dispatch	3856	3751	00:00:27	00:01:47	2.8%	95.4%	97.2%
P002	Collections	3107	3051	00:01:07	00:03:17	1.8%	79.5%	98.2%
P006	AMI 8920	2097	1019	00:00:07	00:03:10	0.4%	100.0%	48.6%
P003	Billing and Metering	989	971	00:01:04	00:04:42	1.8%	80.3%	99.2%
P005	AMI	294	288	00:01:36	00:03:40	2.0%	74.5%	98.0%
Totals		16719	17293	00:00:52	00:04:10	1.9%	85.8%	92.4%

Customers Assisted Via Telephone - 17,293

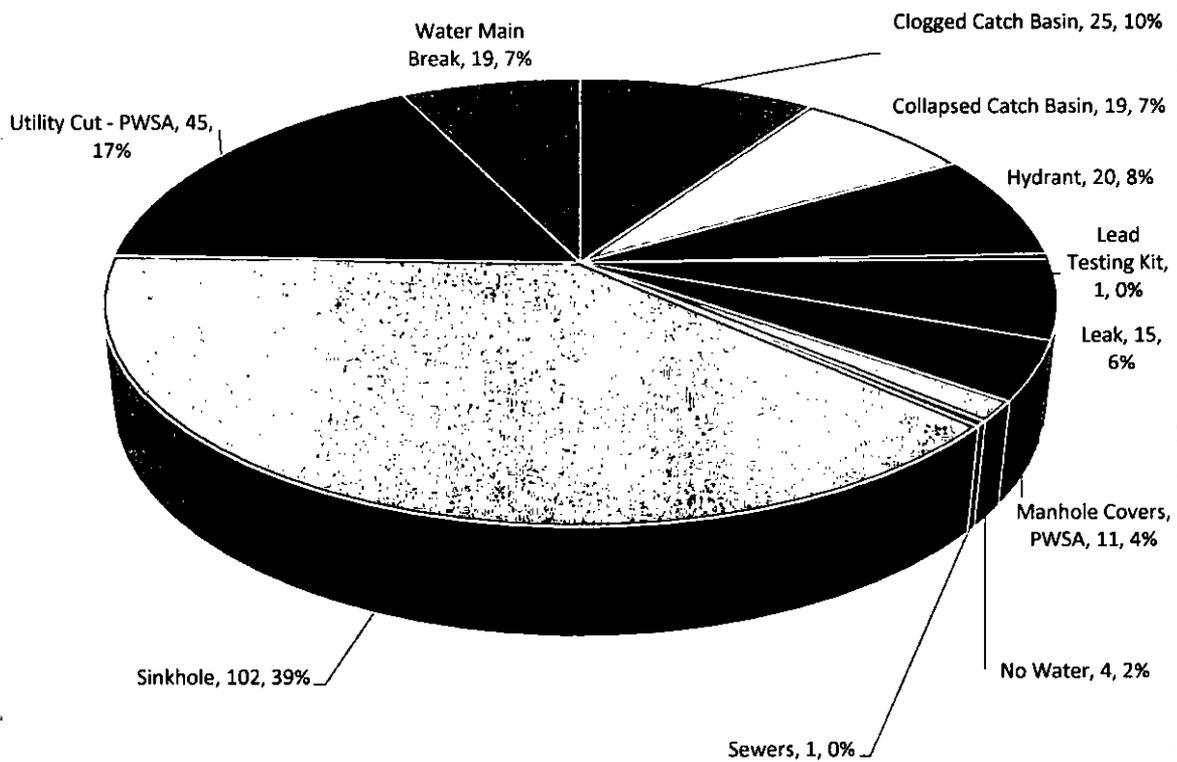


CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – AUGUST 2019

Dispatch responded to 3,751 calls for emergency service in August 2019. In this month, the Dispatchers issued 159 Interruptions of Service and facilitated 131 dig requests to Pennsylvania One Call.

311 Mayor's Service Center Complaints Handled August 2019

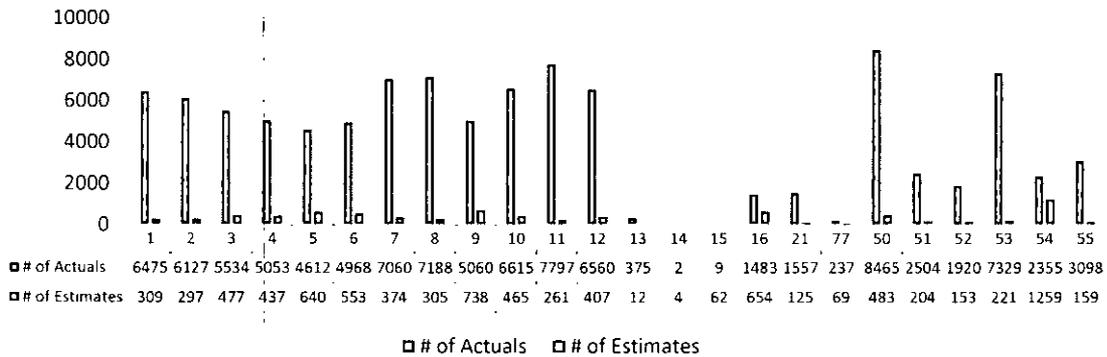


CUSTOMER SERVICE MONTHLY REPORT

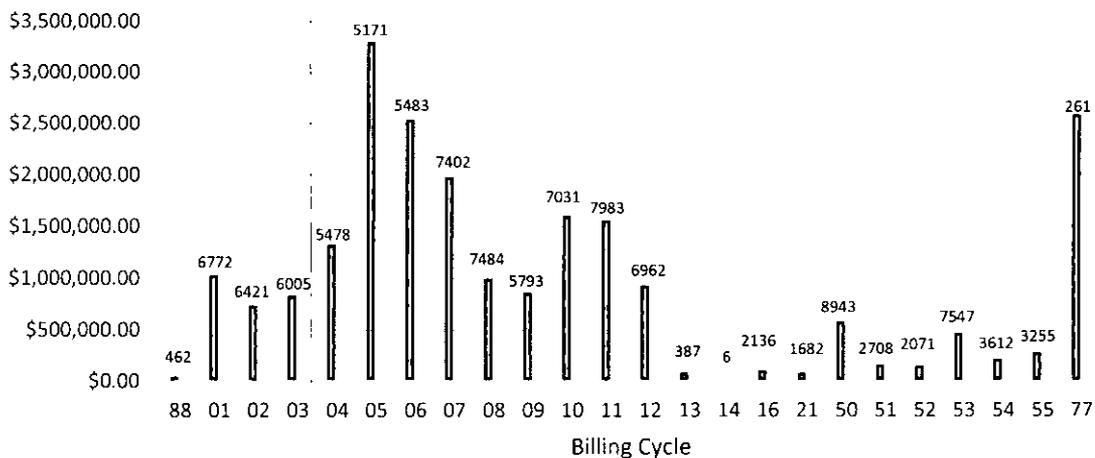
AMI and BILLING – JULY 2019

A Non-Access Campaign continued to address the 1,112 aged actual meter readings and 3,592 estimated meter readings. Under the PA PUC Compliance Plan, customers are continuing to be notified via letters and posting notices to make appointments for a meter upgrade. PWSA successfully upgraded 720 meters in July 2019. Additionally, 1,811 letters were issued, 253 properties were posted, and 20 accounts were shut for non-access. Billing received 533 final bill requests and processed them within 15 days. Billing totals for the month of July 2019 were 111,055 bills produced in the amount of \$22,477,533.62.

Billed Actual vs. Estimated Readings July 2019



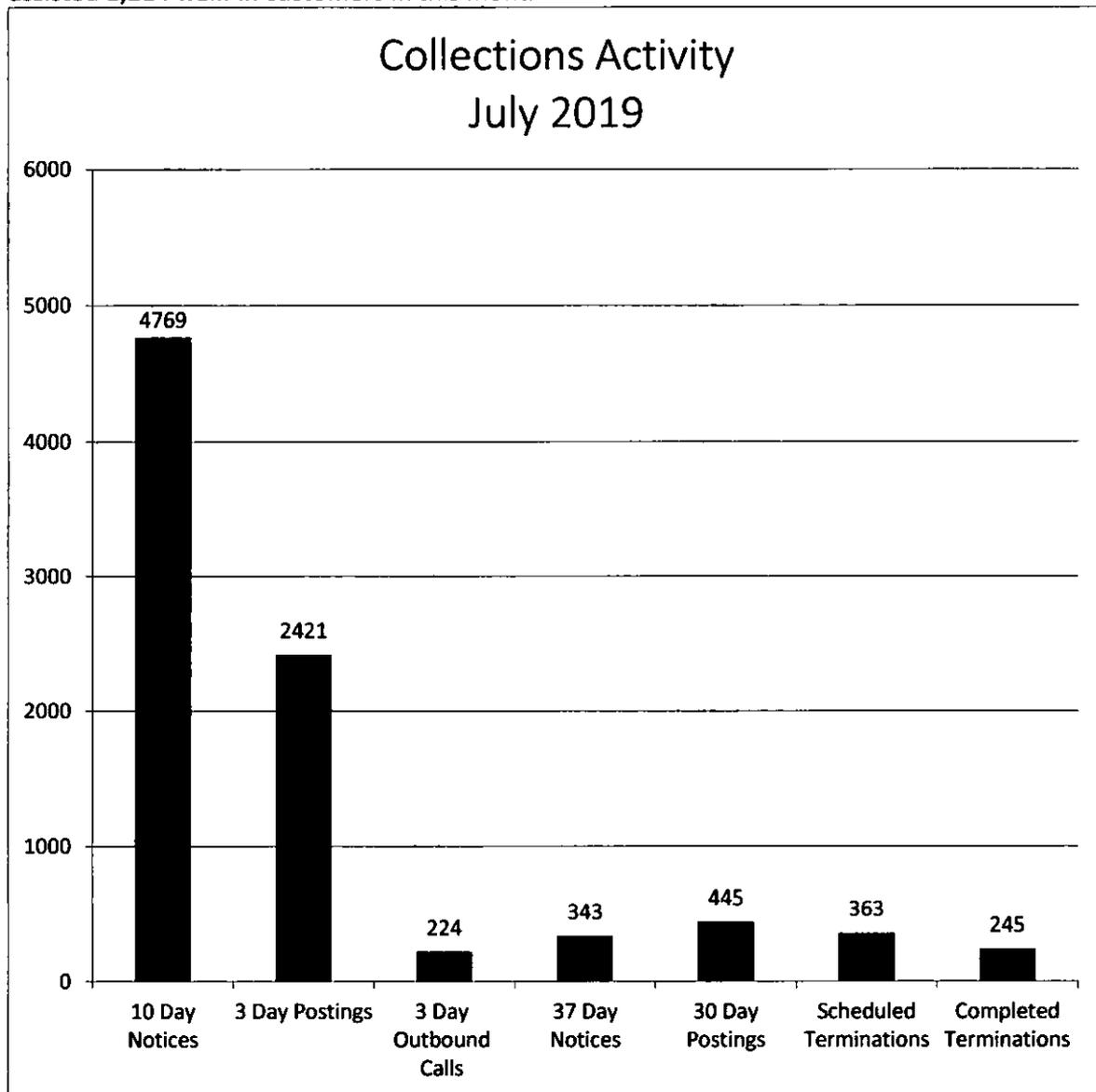
Billed Amounts in July 2019



CUSTOMER SERVICE MONTHLY REPORT

COLLECTIONS – JULY 2019

In July 2019, the total Collections were \$26,319,735, which was \$4.3M more than what was billed in June 2019. This increase in collections made up for the shortfall in the previous month. Following up on failed automated outbound calls for planned and emergency outages in this month, 249 letters were mailed to customers, requesting that they update their contact information with PWSA. Out of a total of 1,218 customer inquiries to info@pgh2o.com, Collections personnel responded to 1,189, most within 48 hours. Collections personnel also assisted 1,214 walk-in customers in this month.



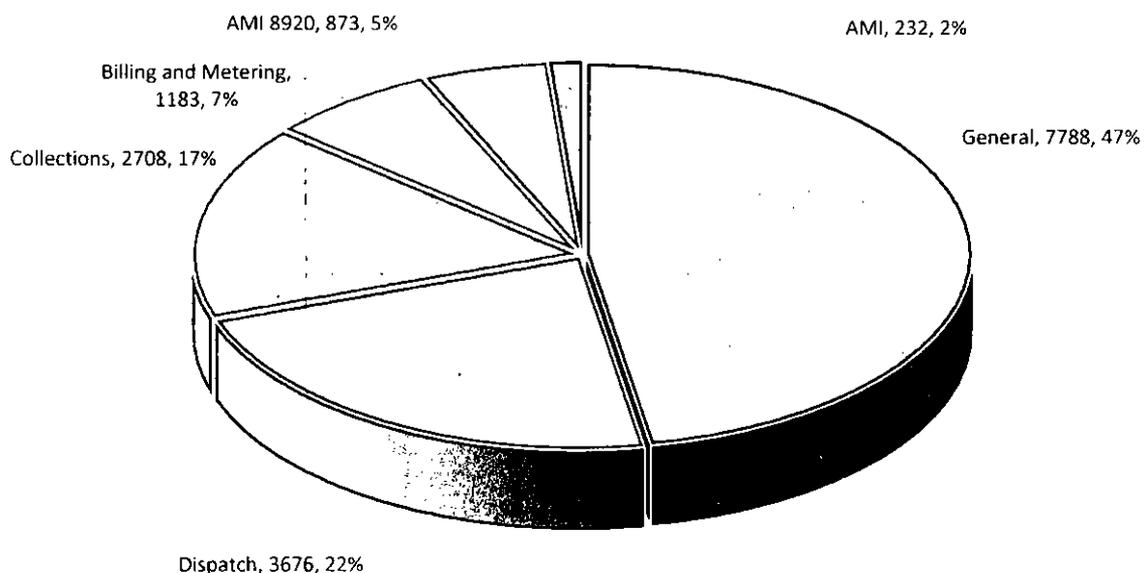
CUSTOMER SERVICE MONTHLY REPORT

CONTACT CENTER – JULY 2019

There were 21 business days in the month of July 2019. Customer calls continued to be monitored and assessed by the Customer Service Training Coordinator. Corrective actions continued to be taken to address any employee performance issues. The Customer Service Coordinator overseeing the Contact Center continued to promote a positive work environment through rewards, celebrations, and mentoring. The attendance rate changed to 14 full time employees and 3 part time employees. Of the 16,460 calls handled in the month of July 2019, the Customer Service Representatives were able to report a 98.6% customer satisfaction rate. **In this month, the Contact Center achieved an all-time low abandonment rate of 1.4%!**

Queue Group Performance by Queue								
1 - All Queues								
7/1/2019 - 7/31/2019 - 00:00 - 24:00								
Created on 8/2/2019 9:12:06 AM by fishalajones.								
ACD queue	ACD queue name	ACD calls offered	ACD calls handled	Average speed of answer (h:mm:ss)	Average ACD handling time (h:mm:ss)	Abandon %	Service level %	Answer %
P001	General	7912	7768	00:00:55	00:04:58	1.6%	83.9%	98.4%
P004	Dispatch	3725	3676	00:00:13	00:01:47	1.4%	98.9%	98.6%
P002	Collections	2755	2708	00:01:12	00:05:00	1.7%	78.9%	95.3%
P003	Billing and Metering	1197	1183	00:00:56	00:05:03	1.2%	84.5%	98.8%
P006	AMI 8920	1355	873	00:00:07	00:03:29	0.2%	100.0%	64.4%
P005	AMI	240	232	00:01:01	00:03:12	3.3%	83.3%	96.7%
Totals		17188	16460	00:00:48	00:04:18	1.4%	87.6%	94.6%

Customers Assisted Via Telephone - 16,460

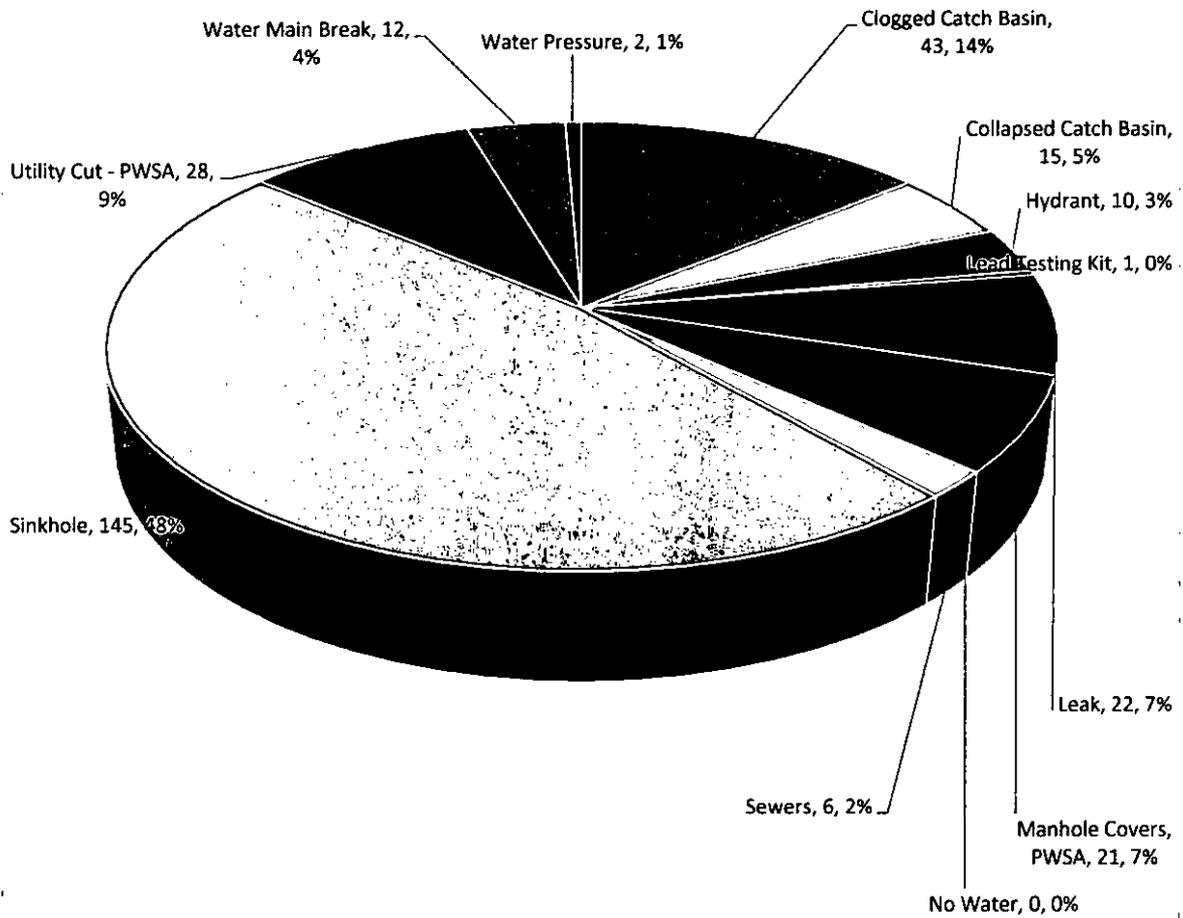


CUSTOMER SERVICE MONTHLY REPORT

DISPATCH – JULY 2019

Dispatch responded to 3,676 calls for emergency service in July 2019. In this month, the Dispatchers issued 129 Interruptions of Service and facilitated 132 dig requests to Pennsylvania One Call.

311 Mayor's Service Center Complaints Handled July 2019



Appendix F – Vacancy Report

910F Exec Director

Title	Last Name	First Name	2019 Vacancy 30-Sep-19
Executive Director	Weimer	Bob	Filled
Safety and Security Manager	Vacant	Vacant	Vacant
Administrative Assistant	Zebre	Megan	Filled
Executive Administration Supervisor	Gibson	Debra	Filled
Totals			

911F Cust Service

Title	Last Name	First Name	2019 Vacancy 30-Sep-19
Director of Administration/Information Technology	Quigley	Julie	Filled
Business Intelligence Analyst	Dappen	Ryan	Filled
AMI and Billing Manager	Willy	Tracy	Filled
Customer Service Manager	Gottshalk	Sharon	Filled
Senior Customer Service Coordinator	Thurston	Crystal	Filled
Customer Service Training Coordinator	Fields	Ramika	Filled
CS/Billing Coordinator	Jones	Tishla	Filled
Collections Coordinator	Tarver	Nicole	Filled
PUC Compliance Manager	Schacht	Brittany	Filled
Customer Service Coordinator	Murphy	Rikki	Filled
RNI Data Analyst	Hicks	Andrew	Filled
Customer Service Training Coordinator	Brown	Reginald	Filled
Compliance Analyst	Viszneki	Sarah	Filled
Compliance Analyst	Schrepfer-Nelson	Melissa	Filled
Billing Coordinator	Henning	Donnette	Filled
CS Administrative Assistant	Wesolowski	Sharon	Filled
Billing Analyst/Corporate Accounts	Barnett	Janice	Filled
Clerical Specialist II	Kemon	Carleen	Filled
Account Clerk	Edwards	Pamela	Filled
Account Clerk	Glover	Kenneth	Filled
Account Clerk	Williams	Andrea	Filled
Account Clerk	Threets	Karly	Filled
Clerical Specialist II - AMI	Folino	Kimberly	Filled
Clerical Specialist II - AMI	Vacant	Vacant	Vacant
Clerical Specialist II	Fortson	Ashley	Filled
Clerical Specialist I	Vacant	Vacant	Vacant
CSR 3	Bendzsuk	Natalie	Filled
CSR 3	Vacant	Vacant	Vacant
CSR 3	Wiegman	Michael	Filled
CSR 3	Vacant	Vacant	Vacant
CSR 2	Faulk	Vanya	Filled
CSR 2	Solomon	Michelle	Filled
CSR 2	Walker	Ruth	Filled
CSR 1	Asturi	Anna	Filled
CSR 1	McNeal	Amber	Filled
CSR 1	Collins	Tyrik	Filled
CSR 1	Butler	Natasha	Filled
CSR 1	Ghaffar	Ruqayya	Filled
CSR 1	Johnson	Traylon	Filled
CSR 1	Hoffman	Diane	Filled
CSR 1	Ray-Jetter	Taylor	Filled
CSR 1	Copney	Rebecca	Filled
CSR 1	Macklin	Lance	Filled
CSR 1	Johnson-Calloway	Renetta	Filled
CSR 1	Evans	Aileen	Filled
CSR 1-AMI	Hayes	Joanne	Filled
CSR 1-PT (1500 Hours)	Galicki	Janine	Filled
CSR 1-PT (1500 Hours)	Welsh	Joyce	Filled
CSR 1-PT (1500 Hours)	Callwood	Destiny	Filled
CSR 1-PT (1500 Hours)	Michelek	Maria	Filled
CSR 1-PT (1500 Hours)	Crafton	Tasha	Filled
Dispatcher	Deasy	Shannon	Filled
Dispatcher	Madero	Mark	Filled
Dispatcher	OHara	John	Filled
Dispatcher	Williams	Tyrone	Filled
Dispatcher	Kenney	Deborah	Filled
Dispatcher	Pail	Melissa	Filled
Dispatcher	Smith	Amber	Filled
Engineering Technician I (A)	Yates	Patrick	Filled
Engineering Technician III	Vacant	Vacant	Vacant
Administrative Assistant II (A)	Reddix	Vanessa	Filled
Lead Program Customer Assistance	Butler	Tasha	Filled
Lead Program Customer Assistance	Martrano	Donna	Filled

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 PA PUBLIC UTILITY COMMISSION
 SECRETARY'S BUREAU

Appendix F – Vacancy Report

Lead Program Customer Assistance	Nunley	Dominique	Filled
Lead Program Customer Assistance	Alton	Bianca	Filled
Lead Program Customer Assistance	Short	Michelle	Filled
Total			

912F MIS

Title	Last Name	First Name	
Senior Manager IT	Jason	Felser	Filled
SQL BI Developer	Sayakanit	Richard	Filled
Network Systems Administrator	Leonard	Lee	Filled
IT Security Analyst	Vacant	Vacant	Vacant
Intern - PT (1000 hrs)	Vacant	Vacant	Vacant
Intern - PT (1000 hrs)	Vacant	Vacant	Vacant
IT Helpdesk Technician II	Balaban	Nicholas	Filled
IT Helpdesk Technician II	Davis	Kameron	Filled
IT Administrative Assistant	Marshall	Rebecca	Filled
Network Systems Administrator	Spara	Paul	Filled
IT Project Manager	Ludinich	Raquel	Filled
IT Network Technician	Vacant	Vacant	Vacant
Totals			

913F Finance

Title	Last Name	First Name	
Director of Finance	Vacant	Vacant	Vacant
Senior Finance Manager	Romano	Rachel	Filled
Deputy Director of Finance/Treasurer	Barca	Edward	Filled
Director of Finance	Presutti	Jennifer	Filled
Sr. Manager, Program Controls	Sciulli	Giuseppe	Filled
Accounting Specialist	Prokop	Justin	Filled
Accounting Specialist	Nagel	John	Filled
Project Systems Coordinator	Vacant	Vacant	Vacant
Project Systems Specialist	Patton	Tiffany	Filled
Project Systems Specialist	Mazza	Felecia	Filled
Archival Data Librarian Intern	Vacant	Vacant	Vacant
Archival Data Librarian Intern	Vacant	Vacant	Vacant
Totals			

914F Procurement

Title	Last Name	First Name	
Procurement Manager	Dickun	Nicole	Filled
Procurement Assistant	Juratovic	Charlene	Filled
Sr. Contract Specialist	Simpson	Thorn	Filled
Sr. Contract Specialist	Kemery	Susan	Filled
Total			

915F HR

Title	Last Name	First Name	
HR Manager	Morgano	Kelly	Filled
HR Assistant Manager	Vacant	Vacant	Vacant
HR Specialist	Salerno	Rose	Filled
HR Assistant	Hamilton	Stacey	Filled
HR Assistant	Lyons	Maureen	Filled
HR Intern	Vacant	Vacant	Vacant
Payroll Administrator	Schanbacher	Michele	Filled
Total			

916F Legal

Title	Last Name	First Name	
Chief Corporate Counsel/Administration	Lestitian	Debbie	Filled
Corporate Counsel	Barkley	Shannon	Filled
Corporate Counsel -PUC	Vacant	Vacant	Vacant

Appendix F – Vacancy Report

Paralegal	Smith	Tracy	Filled
Paralegal	Ishman	Brooklyn	Filled
Paralegal	Mohamad	Vera	Filled
Total			

918F Warehouse

Title	Last Name	First Name	
SR Manager of Lead Projects	Bennett	William	Filled
Inventory Control Specialist 2	Connors	Ruthann	Filled
Inventory Control Specialist 2	Galiotto	Matthew	Filled
Inventory Control Specialist	Walters	Devan	Filled
Inventory Control Specialist	Vacant	Vacant	Vacant
Meter Repair Specialist	Wagner	John	Filled
Total			

921F Public Affairs

Title	Last Name	First Name	
Director of Public Affairs	Pickering	William	Filled
Senior Public Affairs Coordinator	Rampa	Rachel	Filled
Government Affairs Manager	Pawlak	Jacob	Filled
Public Affairs Associate	Nick	Letzkus	Filled
Communications Project Manager	Zito	Rebecca	Filled
Construction Communications Officer	McLaughlin	Mora	Filled
Business and Development Relations Manager	Asciolla	Julianne	Filled
Intern	Vacant	Vacant	Vacant
Administrative Assistant II (B)- SW/GSI Edu/Outreach	Vacant	Vacant	Vacant
Public Affairs Associate	Hetz	Hali	Filled
Education and Outreach	Hinrichs	Elaine	Filled
Total			

930F Engineering

Title	Last Name	First Name	
Director of Engineering	King	Barry	Filled
Deputy Director of Engineering	Mechler	Kate	Filled
Senior Manager Projects/Construction	Warner	Thomas	Filled
Senior Group Manager, Water Programs	Bolenbaugh	Sarah	Filled
Senior Wastewater Manager	Vacant	Vacant	Vacant
Senior Group Manager Stormwater	Dutton	Beth	Filled
Sustainability Manager	Stitt	James	Filled
Associate Project Manager (A)	Ibrahim	Rasheedtunde	Filled
Project Manager (A)	Odille	Lawrence	Filled
Associate Project Manager E&C	Quinn	Ryan	Filled
GIS Project Coordinator	Stoss	Jackson	Filled
Associate Project Manager E&C	Vacant	Vacant	Vacant
GI Program & Policy Manager	Vacant	Vacant	Vacant
Senior Engineering Technician	Czar	Lisa	Filled
Associate Project Manager (D)	Vacant	Vacant	Vacant
Engineer II (A)	Grunauer	Benjamin	Filled
Engineer II (B)	Vacant	Vacant	Vacant
GIS Analyst (B)	Kennedy	Elizabeth	Filled
GIS Analyst (A)	Levendoski	Andrea	Filled
Engineering Technician III (A)	Vacant	Vacant	Vacant
Engineering Technician III	Bishop	Jacob	Filled
Engineering Technician III	Dean	Wendy	Filled
Engineering Technician II	Mitchell	Veronica	Filled
Associate Project Manager E & C	Smuts	Matthew	Filled
Inspector II (A)	Vacant	Vacant	Vacant
Sr. GIS Analyst	Wasiko	Alexandra	Filled
Project Manager (B)	Metzger	Manda	Filled
Project Manager (C)	Simek	Meghan	Filled
Project Manager (D)	Vacant	Vacant	Vacant
Project Manager (E)	Vacant	Vacant	Vacant
Project Manager (F)	Vacant	Vacant	Vacant
Project Manager (G) - Lead	Vacant	Vacant	Vacant
Project Manager (H) - GSI	Vacant	Vacant	Vacant
Sr. Project Manager (Linear)	Vacant	Vacant	Vacant
Sr. Project Manager (Vertical)	Vacant	Vacant	Vacant
Engineer III (A)	Egan	Ruari	Filled

Appendix F – Vacancy Report

Engineer III (B)	Flores	Ana	Filled
Engineering Intern/Co-Op (A)	Vacant	Vacant	Vacant
Lead Program Intern	Vacant	Vacant	Vacant
Associate Project Manager E&C	Lahale	Brent	Filled
Associate Project Manager- Construction (G)	McAllister	Brett	Filled
Associate Project Manager E&C	Cleary	Dan	Filled
Associate Project Manager E&C	McShane	Bradley	Filled
GIS Specialist	Herr	Roy	Filled
GIS Modeler	Vacant	Vacant	Vacant
GIS Analyst- SW	Hicks	Megan	Filled
Doc Management Specialist	Vacant	Vacant	Vacant
Project Manager - Construction (A)	Vacant	Vacant	Vacant
Project Manager- Construction (B)	Vacant	Vacant	Vacant
Inspector III (A)	Sadej	Edward	Filled
Inspector II (B)	Vacant	Vacant	Vacant
Administrative Assistant-E&C	Vacant	Vacant	Vacant
Associate Project Manager (J) GSI	Vacant	Vacant	Vacant
Associate Project Manager (K) - Construction GSI	Vacant	Vacant	Vacant
Inspector III (B)/Enforcement SW/GSI	Shaw	Robin	Filled
Engineering Technician III (C) - Plan Review SW/GSI	Vacant	Vacant	Vacant
Administrative Assistant II (B)- SW/GSI Edu/Outreach Coord	Vacant	Vacant	Vacant
GIS Specialist - GSI	Vacant	Vacant	Vacant
Administrative Assistant-II SW	Vacant	Vacant	Vacant
Inspector II GSI/MS4	Vacant	Vacant	Vacant
Associate Project Manager - Construction GSI	Vacant	Vacant	Vacant
Staff for Other Departments Assisting GSI/SW:			
Communications Assistant (SW/GSI - Edu/Outreach Coord)	Vacant	Vacant	Vacant
Appeals and Credits Specialist (SW/GSI)	Vacant	Vacant	Vacant

Total

931F Environmental Compliance

Title	Last Name	First Name	
Scientist 1	Vacant	Vacant	Vacant
Scientist 1	Votedian	Adam	Filled
Scientist 2	Natoli	Maria	Filled
Scientist 3	Vacant	Vacant	Vacant
Scientist 2	Thiessen	Daniel	Filled
Scientist II - Environ Compliance Coord SW/GSI	Vacant	Vacant	Vacant
Environmental Compliance Coordinator	Vacant	Vacant	Vacant
Water Quality Manager	Wydra	Faith	Filled
Administrative Assistant	Vacant	Vacant	Vacant
Intern (Water Quality)	Vacant	Vacant	Vacant
Intern (Archival Data Librarian)	Malke	Jack	Filled

Total

321F Lab

Title	Last Name	First Name	
Water Quality Data Manager	Czypinski	Michael	Filled
Chemist II - Yr 7	Carroll	John	Filled
Chemist II - Yr 5	Vacant	Vacant	Vacant
Chemist I	Bundrige	Paris	Filled
Chemist I	Gomez	Robert	Filled
Chemist I	Davis	Frank	Filled
Assistant Lab Manager	Vacant	Vacant	Vacant

Total

322F WTP

Title	Last Name	First Name	
Senior Manager, Production	Turko	Jeff	Filled
Maintenance Manager	Vacant	Vacant	Vacant
Operations Superintendent	Vacant	Vacant	Vacant
Acting Senior Group Manager/Production	Watson	George	Filled
Plant Maintenance Foreman	Daniels	Robert	Filled
Plant Maintenance Foreman	Murray	John	Filled
Foreman	Vacant	Vacant	Vacant
Electrician	Moore	Terry	Filled

Appendix F – Vacancy Report

Electrician	Vacant	Vacant	Vacant
Electrician	Jordan	Roger	Filled
Electrician	Phillis	Ryan	Filled
Plumber	Clair	Brendan	Filled
Plumber	Mincin	Josh	Filled
Plumber	Vacant	Vacant	Vacant
Steamfitter	Vacant	Vacant	Vacant
Steamfitter	Vanetten	Paul	Filled
Welder	Demme	David	Filled
Machinist	Kutrufis	Timothy	Filled
Stationary Engineer	Foster	Russell	Filled
Stationary Engineer	Samuel	Ronald	Filled
Stationary Engineer	Snaman	Robert	Filled
Stationary Engineer	Walker	Robert	Filled
Stationary Engineer	Orth	Keith	Filled
Plant Operator - Class A	Bendzduk	Ernest	Filled
Plant Operator - Class A	Keller	William	Filled
Plant Operator - Class A	Valore	Christopher	Filled
Plant Operator	Schnelbach	Matthew	Filled
Plant Operator	Coates	Cody	Filled
Plant Operator - Class A	Vacant	Vacant	Vacant
Plant Operator	Vacant	Vacant	Vacant
Plant Operator	Graham	Karl	Filled
Plant Operator	Kazmierczak	William	Filled
Plant Operator	Lennon	Ryan	Filled
Plant Operator	Sambrook	Joseph	Filled
Plant Operator	Walton	James	Filled
Plant Operator	Zubchevich	Jannon	Filled
Painter	Kainz	Brian	Filled
Equipment Repair Specialist	Durkt	Jeffrey	Filled
Equipment Repair Specialist	Sciullo	Vincenzo	Filled
Equipment Repair Specialist	Kass	Kenneth	Filled
Equipment Repair Specialist	Rava	Michael	Filled
Truck Driver - Hazmat	Filipiak	James	Filled
Laborer	Allaire	Michael	Arbitration
Laborer	Bodell	Justin	Filled
Laborer	Chinko	William	Filled
Laborer	Crumbley	Nathanial	Filled
Laborer	Cummings	Gregory	Filled
Laborer	Graziano	Mark	Filled
Laborer	Allard	Ryan	Filled
Water Production Administrator	Szuch	Diana	Filled
Process Engineer	Vacant	Vacant	Vacant
Data Coordinator	Vacant	Vacant	Vacant
CMMS Manager	Vacant	Vacant	Vacant
Safety Intern	Vacant	Vacant	Vacant
SCADA Technician	Vacant	Vacant	Vacant
SCADA Security/Network Specialist	Vacant	Vacant	Vacant
Maintenance Supervisor	Vacant	Vacant	Vacant
Security Manager	Vacant	Vacant	Vacant
Total			

325F Water Ops

Title	Last Name	First Name	
Chief of Operations	Obermeier	Rick	Filled
Director of Operations	McFaddin	William	Filled
Senior Manager, Field Operations	Tewell	Joe	Filled
Senior Manager, Distribution	Vacant	Vacant	Vacant
Senior Manager, Distribution	Vacant	Vacant	Vacant
Admin Assistant	Vacant	Vacant	Vacant
Underground Asset Manager	McCarthy	John	Filled
Aboveground Asset Manager	Vacant	Vacant	Vacant
Sr. Manager Capital - Projects	Bergia	Randy	Filled
Sr. Manager Capital - Projects/Lead	Smith	Jason	Filled
Sr. Manager Capital - Projects/Lead	Bingham	Paul	Filled
Sr. Manager Capital - Projects/Lead	Verikas	Jason	Filled
Senior Manager, Capital Projects/Lead	Erny	Lucas	Filled
Plumbing Superintendent	Vacant	Vacant	Vacant
Superintendent	Vacant	Vacant	Vacant
Superintendent	Niedzwiecki	Walter	Filled
Superintendent	White	Robert	Filled
Water Repair Fore - Licensed	Conway	Philip	Filled
Water Repair Fore - Licensed	Leckie	John	Filled
Water Repair Fore - Licensed	Majeed	Abdullah	Filled
Water Repair Foreman	Costa	Ronald	Filled

Appendix F – Vacancy Report

Water Repair Foreman	Cummings	Arthur	Filled
Water Repair Foreman	Gigliotti	Michael	Filled
Water Repair Foreman	Saunders	Eugene	Filled
Water Repair Foreman	Bruecken	Christopher	Filled
Sewer Plumbing Foreman	Sciulli	Christopher	Filled
Plumber	Bigley	Sean	Filled
Plumber	Foster	Ryan	Filled
Plumber	Holloway	Howard	Filled
Plumber	Hungerman	Ryan	Filled
Plumber	Cerminara	Ralph	Filled
Plumber	Mann	Robert	Filled
Plumber	Mazzocco	Anthony	Filled
Plumber	Bahneman	Paul	Filled
Plumber	Riccardi	Casey	Filled
Plumber	Tumas	Ryan	Filled
Plumber	Krell	Dylan	Filled
Plumber	Forse	John	Filled
Plumber	Friend	John	Filled
Plumber	McDonagh	James	Filled
Plumber	Allen	Arn	Filled
Heavy Equipment Operator	Aubele	Brian	Filled
Heavy Equipment Operator	Higgins	DeiRon	Filled
Heavy Equipment Operator	Janzer	Joseph	Filled
Heavy Equipment Operator-Lic	Kasel	Joseph	Filled
Heavy Equipment Operator	Wilson	Robert	Filled
Heavy Equipment Operator	Conlin	Thomas	Filled
Heavy Equipment Operator	Germeyer	Mike	Filled
Leak Detection Specialist	Grier	Darryl	Filled
Leak Detection Specialist	Hearn	Deborah	Filled
Leak Detection Specialist	Pressley	Steven	Filled
Leak Detection Specialist	Evans	Kelth	Filled
Leak Detection Specialist	Vacant	Vacant	Vacant
Leak Detection Specialist	Vacant	Vacant	Vacant
Leak Detection Data Foreman	Vacant	Vacant	Vacant
Utility Worker	Latwin	Tim	Filled
Utility Worker	Cimino	Frank	Filled
Utility Worker	ColaPietro	Anthony	Filled
Utility Worker	Bizub	Melissa	Filled
Utility Worker	Forrester	Derek	Filled
Utility Worker	Vacant	Vacant	Vacant
Utility Worker	Kirk	Russell	Filled
Utility Worker	Schempp	William	Filled
Utility Worker	Kocher	Aaron	Filled
Utility Worker	Sites	Brian	Filled
Utility Worker	Stormer Jr	William	Filled
Utility Worker	Thurston	Kenneth	Filled
Utility Worker	Huber	Christopher	Filled
Utility Worker	Biondo	Austin	Filled
Utility Worker	Zelina	Jonathan	Filled
Utility Worker	Wilson	Leslie	Filled
Utility Worker	Bougher	Clint	Filled
Utility Worker	Harman	Dean	Filled
Utility Worker	Gehring	Jason	Filled
Utility Worker	Blumling	Wayne	Filled
Utility Worker	Cusick	Shawn	Filled
Utility Worker	Saltzman	Dustin	Filled
Utility Worker	Whealdon	Timothy	Filled
Utility Worker	Vacant	Vacant	Vacant
Utility Worker	Vacant	Vacant	Vacant
Utility Worker	Vacant	Vacant	Vacant
Utility Worker	Vacant	Vacant	Vacant
Utility Worker Curb Boxes	Vacant	Vacant	Vacant
Utility Worker Curb Boxes	Vacant	Vacant	Vacant
Utility Worker Curb Boxes	Vacant	Vacant	Vacant
Utility Worker Curb Boxes	Vacant	Vacant	Vacant
Equipment Repair Specialist	Chiodo	Joseph	Filled
Valve & Hydrant Specialist-Lic	Ficorilli	Anthony	Filled
Valve & Hydrant Specialist	Pawlos	Anthony	Filled
Valve & Hydrant Specialist	Veneziano	Antonio	Filled
Valve & Hydrant Specialist	Balough	Robert	Filled
Valve & Hydrant Specialist	Carney	Edward	Filled
Valve & Hydrant Specialist	Lijewski	Matthew	Filled
Valve & Hydrant Specialist	OConnor	Curtis	Filled
Valve & Hydrant Specialist	Schacht	Brian	Filled
Valve & Hydrant Specialist	Lane	Derrick	Filled
Valve & Hydrant Specialist	Vacant	Vacant	Vacant
Valve & Hydrant Specialist	Vacant	Vacant	Vacant
Valve & Hydrant Specialist	Vacant	Vacant	Vacant
Valve & Hydrant Operator	Hawranko	James	Filled

Appendix F – Vacancy Report

Valve & Hydrant Operator	Hershberger	Thomas	Filled
Truck Driver - Special/Winch	Casciato	Albert	Filled
Truck Driver - Special/Winch	Tyler	Eugene	Filled
Truck Driver - Special/Winch	Blanchard	Donald	Filled
Truck Driver	Gavita	Michael	Filled
Truck Driver	Harris	Lisa	Filled
Truck Driver	Hayden	Henry	Filled
Truck Driver	Helwich	Raymond	Filled
Truck Driver	Mason	Richard	Filled
Truck Driver	Mercoer	Joseph	Filled
Truck Driver	Schmitt	Charles	Filled
Truck Driver	Munizza	Robert	Filled
Truck Driver	Reiser	Phillip	Filled
Truck Driver	Rochford	Timothy	Filled
Truck Driver	Traficante	Joseph	Filled
Truck Driver	Whigham	Robert	Filled
Truck Driver	Bogdanski	David	Filled
Truck Driver	Macurak	Adam	Filled
General Laborer	McDill	Sager	Filled
General Laborer	Vacant	Vacant	Vacant
Laborer	Dougherty	Anthony	Filled
Laborer	Johnson	Anthony	Filled
Laborer	Kitzinger	Kenneth	Filled
Laborer	Kovacic	Michael	Filled
Laborer	McHenry	Sean	Filled
Laborer	Mundy	Ronald	Filled
Laborer	Crankshaw	Benjamin	Filled
Laborer	Gray	Damon	Filled
Laborer	Darwin	Derek	Filled
Laborer	Tolomeo	Paolo	Filled
Laborer	Duckett	Tab	Filled
Laborer	McCarthy	Timothy	Filled
Laborer	OBrien	Shay	Filled
Laborer	Beasley	Ronney	Filled
Laborer	Manjack	Bradley	Filled
Laborer	Reese	Christian	Filled
Administrative Assistant	Vacant	Vacant	Vacant
Fleet and Contract Administrator	Tracey	James	Filled
Safety Intern	Jacey	Martini	Filled
Vac Truck Driver	Vacant	Vacant	Vacant
Total			

424F Sewer Ops

Title	Last Name	First Name	
Field Services Supt	Leech	Thomas	Filled
Stormwater Supt	Taper	Eric	Filled
Sewer Foreman	Dusch	Michael	Filled
T.V. Truck Specialist	Auge	Jason	Filled
T.V. Truck Specialist	Brown	Teresa	Filled
T.V. Truck Specialist	Juratovic	Dale	Filled
T.V. Truck Specialist	Jackson	Wm.	Filled
T.V. Truck Specialist	Onyshko	Michael	Filled
T.V. Truck Specialist	Stojakovich	Michael	Filled
Inspector II	Baynit	Daniel	Filled
Inspector II	Biedrzycki	George	Filled
Inspector II	Valencic	Edward	Filled
Inspector II	Vacant	Vacant	Vacant
Inspector II	Vacant	Vacant	Vacant
Vector Operator	Jericho	Michael	Filled
Vector Operator	Welsh	Kenneth	Filled
Vector Operator	Sweetie	Gregory	Filled
Vector Operator	Hildebrand	Andrew	Filled
Field Service Technician II	Vacant	Vacant	Vacant
Field Service Technician II	Hamilton	Robert	Filled
Field Service Technician II	Gottschalk	Thomas	Filled
Field Service Technician III	Bailey	William	Filled
Truck Driver	Vacant	Vacant	Vacant
Truck Driver	Vacant	Vacant	Vacant
Laborer	Vacant	Vacant	Vacant
Laborer	Hendrickson	Dale	Filled
Laborer	Randall	Brian	Filled
Laborer	Rumski	Brian	Filled
Laborer	Johnson	Donald	Filled
Laborer	Donnelly	Garrett	Filled
Laborer	Smith	Jennifer	Filled

Appendix F – Vacancy Report

Laborer	Vacant	Vacant	Vacant
Laborer	Vacant	Vacant	Vacant
Laborer	Vacant	Vacant	Vacant
Administrative Assistant Sewer	Scullon	Donna	Filled
Clerk II	Vacant	Vacant	Vacant
Sample Collector	Vacant	Vacant	Vacant
Assistant to storm water Superintendent	Palmieri	Antoinette	Filled
Total			

- Department**
 910 Exec Director
 911 Cust Service
 912 MIS
 913 Finance
 914 Procurement
 915 HR
 916 Legal
 918 Warehouse
 921 Public Affairs
 930 Engineering
 931 Env. Compliance
 321 Lab
 322 WTP
 325 Water Ops
 424 Sewer Ops

Appendix G – Microfiltration Plant

Project Name	Project Number	Project Phase	Project Start (Year)	Capital Project Budget	Capital Budget Savings/Overage	Project Commitment	Amount Paid	Amount Not Yet Invoiced	Amount Remaining	Actual 2017 Expenditures	Actual 2018 Expenditures	Actual 2019 Expenditures (Est. Quarter)	Projected 2019 Expenditures	Projected 2020 Expenditures	Projected 2021 Expenditures	Projected 2022 Expenditures	Projected 2023 Expenditures	Projected 2024 Expenditures				
MIP Transformer Repair and UPS Replacement	2017-222-103-D	Complete	2017	\$ 85,423.00	\$ -	\$ 81,425.00	\$ 85,397.26	\$ 32.24	\$ -	\$ 1,674.00	\$ 87,318.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MIP Assessment and Critical Process Improvements	2017-222-104-D	Construction	2017	\$ 7,817,522.00	\$ 8,459,162	\$ 7,408,787.54	\$ 2,657,422.34	\$ 351,115.20	\$ 140,278.77	\$ 350,928.77	\$ 3,226,952.75	\$ 5,828.53	\$ 66,571.40	\$ 407,164.85	\$ 475,554.78	\$ 400,000.00	\$ 188,722.40	\$ -	\$ -	\$ -	\$ -	\$ -
Highland Park Membrane Filtration Module Replacement Program	2017-222-105-D	Construction	2017	\$ 2,289,715.00	\$ 1,151,304.17	\$ 774,406.81	\$ 585,373.89	\$ 184,079.90	\$ 1,046,328.22	\$ 52,874.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ashfield and MIP Fiberglass Reinforced Plastic Chemical Tanks Inspections and Repair/Replacement	2017-222-102-D	Construction	2017	\$ 284,000.00	\$ 84,245.00	\$ 198,255.00	\$ 17,107.97	\$ 37,447.71	\$ 131,052.71	\$ 18,211.64	\$ 142,841.06	\$ -	\$ 106.78	\$ 142.37	\$ 249.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Highland Park Membrane Filtration Plant UV System	2017-222-106-D	Construction	2017	\$ 4,619,129.08	\$ 1,071.17	\$ 4,616,715.71	\$ 3,176,115.45	\$ 1,242,116.23	\$ 1,243,209.00	\$ -	\$ 641,842.20	\$ 241,115.82	\$ 612,644.56	\$ 3,900,276.88	\$ 2,754,176.28	\$ 1,740,716.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Highland Reservoir #2 Concrete Wall Repairs	2017-222-106-1	Construction	2019	\$ 2,106,551.00	\$ -	\$ 2,106,551.00	\$ 67,492.84	\$ 7,044,010.16	\$ 2,044,060.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Highland Reservoir #1 Guard Railing Rehabilitation (has been cancelled/voided - item will be removed on next quarter's report)	2017-122-100-0	Cancel/Void		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Permits (UV)	Operating	On going	2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Chemicals	Operating	On going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Utilities	Operating	On going	2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Security	Operating	On going	2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Supplies	Operating	On going	2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
PL&S Staff Hours	Operating	On going	2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

RECEIVED
 OCT 31 2019
 PA PUBLIC UTILITY COMMISSION
 SECRETARY'S BUREAU

Appendix H – Lead COA



August 15, 2018

Renee Diehl, Operations Section Chief
Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222-4745

RECEIVED
OCT 31 2019
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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: | Repeat Public Notice and Public Education Tasks |
| Section 3: | Consumer Tap Notices |
| Section 4: | 72-hour Partial Line Replacement Sample Results |
| Section 5: | Partial Lead Service Line Replacements |
| Section 6: | Implementation of Community Environmental Project (CEP) |
| Section 7: | Identification of Lead Service Lines |
| Section 8: | Lead Service Line Replacements |
| Attachment A | Consumer Tap Notices: Certification and Example Letters |
| Attachment B | 72-Hour Post-Construction Sample Results |
| Attachment C | Partial Lead Service Line Replacements |
| Attachment D | Community Environmental Project Affidavit |
| Attachment E | PWSA Lead Service Line Replacements |



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

Regards,

A handwritten signature in black ink, appearing to read 'Robert Weimar', written over a horizontal line.

Robert Weimar, P.E.
Executive Director

Cc: Ron Schwartz, PADEP
Alan Eichler, PADEP



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Lead Program Quarterly Progress Report

Section 1 Implementation of Corrosion Control Treatment Feasibility Study

The Corrosion Control Treatment Feasibility Study was completed and the final report was submitted to the Pennsylvania Department of Environmental Protection (PADEP) on March 30, 2018. On April 27, 2018, the Pittsburgh Water and Sewer Authority (PWSA) received a letter from the PADEP stating that the report was reviewed and the selection of orthophosphate as optimal corrosion control treatment for PWSA was approved.

Under paragraph 3.b.ii of the November 17, 2017 Consent Order & Agreement (COA), PWSA was required to submit an application for a permit to construct the optimal corrosion control treatment facilities within ninety (90) days of the approval of the feasibility study.

PWSA completed design of the corrosion control chemical facilities and submitted a permit application to PADEP on May 10, 2018.

In anticipation of the issuance of a construction permit and the subsequent introduction of orthophosphate into the PWSA system, PWSA's lead program implementation team is undertaking several activities to ensure smooth and efficient transition to addition of orthophosphate. The activities currently underway are:

Deployment of Monitoring Stations

Six Process Research Solutions (PRS) monitoring stations were installed at strategic locations in the system. There are two stations (Howard Street and Herron Hill) already in the distribution system that have been operating since late 2017 in order to characterize the current distribution system water quality, in particular with respect to lead and copper release. The locations of the additional four PRS monitoring stations in the distribution system will be determined with the aid of existing distribution system data, with at least one of the stations located in a water system outside of the City limits (tentatively at Fox Chapel).

Appendix H – Lead COA



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Development of a Flushing Plan

PWSA submitted the Orthophosphate Introduction – Preparatory Flushing Program to PADEP on August 1, 2018.

System Biostability Reporting

PWSA will continue to strive to achieve biological stability in the water distribution system. As stated in the "PWSA Corrosion Control Treatment Feasibility Study", biostability parameters will be monitored in the distribution system. To accomplish this, a distribution system sampling plan is being developed and we anticipate submitting the draft sampling plan by September 7, 2018. In addition, a specific biostability study has been performed and the report on the study results is currently undergoing peer review. We anticipate submitting the report by September 7, 2018. The study will be repeated as orthophosphate is introduced into the water system.

Scale Analysis

PWSA is in the process of collecting more undisturbed harvested pipe from the distribution system for additional analysis of the pipe scale.

Orthophosphate Optimization Study

PWSA continues to conduct the pipe loop experiments to accomplish the following goals:

- Determine if the orthophosphate dosage can be ramped up to 3.5 mg/l (as PO₄) in order to prevent excessive growth of microorganisms in the water while still aiding in lowering lead concentrations.
- Determine the lead release as the high orthophosphate dosage of 3.5 mg/L (as PO₄) is lowered to a maintenance dosage of 1.0 mg/L (as PO₄).
- Continue experiments to determine the effect of two different pH levels. This is done comparing results between filter effluent and plant effluent loops.
- Determine the impact of lowering the pH to approximately 7.7, as the lower pH will improve the effectiveness of disinfection and the literature has indicated that a lower pH may improve the effectiveness of the orthophosphate. Additional experiments will be conducted to test this alternative.

Section 2 Repeat Public Notice and Public Education Tasks

PWSA implemented a public education program for lead in drinking water in accordance with 25 Pa. Code § 109.1104. No Certification is necessary at this time, since PWSA did not exceed



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the lead action level for the June 2018 compliance testing. Although the Lead and Copper Rule (LCR) public notice requirements for action level exceedances do not currently apply, PWSA is continuing selected public education and public outreach activities on lead.

Bill Inserts with the required language under 25 Pa. Code § 109.1104 are continuing to be included in all monthly bills (began in October 2016) until 2 consecutive rounds of testing under the action level are achieved. These mailings will continue until the December 2018 testing is certified as being under the action level.

PWSA recently launched an upgraded lead webpage at the same URL address (www.pgh2o.com/lead-facts), which contains information for our customers regarding lead in the water and lead service lines.

PWSA submitted a press release to newspapers, television and radio stations on July 25, 2018 with notification of the lead compliance testing results.

Section 3 Consumer Tap Notices

For each 6-month monitoring period, PWSA's accredited contract lab 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 an accredited contract lab. Every customer who is served by water at sites that were sampled is mailed a letter (See Attachment A) within 5 business days of PWSA receiving the results. Also included in Attachment A is a copy of the signed Consumer Tap Notice for Lead Results Certification Form.

As of **February 1, 2018**, our contracted accredited lab informs PWSA via email and phone call within 1 hour of determining if a result exceeds 15 parts per billion (ppb) total lead. PWSA informs PADEP and Allegheny County Health Department (ACHD) within 1 hour of being notified by the lab of an exceedance. PWSA also 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. Finally, PWSA continues to provide the results via US mail (see Attachment A) within 5 business days of PWSA receiving the results.



Pittsburgh
Water & Sewer
Authority

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Section 4 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.*

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.

For all samples that exceed the lead action limit of 15 ppb, the customer is contacted via phone in addition to receiving a letter with their sample results. If the customer's phone number(s) on file are not valid, a letter is sent via US mail to request the resident to call PWSA regarding their lead sample. Residents are reminded to continue to use the NSF-certified water filter cartridge and are asked to collect another sample three months after the initial sample. Additional water pitcher filter cartridges are provided at the time of delivery of the 3-month sample kit.

If any post-construction sample comes back over 100 ppb, 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 to ensure that the flushing is effective in reducing the 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 to return their sample kit.

Post-construction sample results are provided in Attachment B.

Section 5 Partial Lead Service Line Replacements

Under paragraph 3.a 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. A complete list of lead service line replacements where a 45-day notice was not provided is included in Attachment C. 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. All lead service line replacements, including partial replacements, are provided with information to flush the service

Appendix H – Lead COA



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line, a water pitcher and replacement filter cartridges, a post-construction water sample kit, and health information regarding lead service line replacement.

Section 6 Implementation of Community Environmental Project (CEP)

Paragraphs 4.b. through 4.f. of the COA provide that PWSA may submit a proposal for a CEP to assist low income homeowners in their replacement of privately owned lead service lines on their property.

In a letter dated May 15, 2018, the PWSA submitted a copy of the contract with Dollar Energy Fund, Inc. (DEF) along with the CEP application process for PADEP approval. In a letter dated June 15, 2018, the PWSA submitted a letter to PADEP with revisions to the CEP application process requested by PADEP, specifically identifying that verification of income must be through submission of federal income tax returns. Both the contract and amended application process were approved in a letter from PADEP dated June 25, 2018.

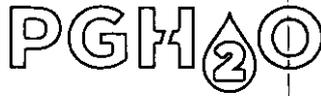
The first step in the approved application process is to identify customers who have previously expressed an interest in the CEP to DEF or the PWSA. These individuals will be sent a letter asking them to contact DEF to start the application process. On August 7, 2018, Dollar Energy mailed the first set of 200 letters.

Paragraph 4.f. of the COA requires an affidavit of the official responsible for overseeing the CEP every ninety (90) days, beginning upon the approval by the PADEP of the PWSA's proposed CEP (February 15, 2018). As of the date of this quarterly report no funds have been allocated under the CEP; an affidavit stating this is included in Attachment D.

The PWSA is currently preparing the bid document to select a contractor to perform replacement of privately owned lead service lines under the CEP and anticipates this contract will be out for public bid August 2018.

Section 7 Identification of Lead Service Lines

On January 2, 2018, PWSA submitted a preliminary data summary of the lead service line inventory. This letter report provided a summary of lead service lines identified via historical records, curb box inspections, and site verification through excavation.



Pittsburgh
Water & Sewer
Authority

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Using the data provided in the January 2, 2018 letter (71,746 historic records identifying 18,779 lead service lines, 5,419 curb box inspections, 755 site investigations (excavations), 797 lead service line replacements (since February 1, 2016)) PWSA developed an updated lead service line inventory assessment based on statistical method procedures similar to what was submitted to PA DEP in September 2016. A materials evaluation using this updated inventory assessment was submitted to PADEP on March 31, 2018. This report estimated that 17 percent of the total 71,755 (or 12,218) PWSA-owned service lines are lead.

The historical record digitization project continues to identify privately-owned lead service lines. The 2017 Curb Box Inspection Contract inspected 5,419 curb boxes and identified 830 lead service lines on the public side. The 2018 Curb Box Inspection Contract was awarded and work commenced the week of February 12, 2018. This contract includes the inspection of 15,500 curb boxes, and to date 4,086 inspections have been completed and 427 public lead lines identified. Only curb boxes where either there is no historical record or the historical record indicates the presence of lead on the public side will be inspected.

Section 8 Lead Service Line Replacements

PWSA began recording lead service line replacements in February 2016. A table of all lead service line replacements is included in Attachment E. From February 2016 through August 7, 2018, 1,744 public lead service lines have been replaced, with 1,662 public lead service line replacements occurring from July 1, 2016 through August 7, 2018. This table also shows if the private side was replaced by PWSA or a PWSA Contractor. Where information is available, the table notes if the homeowner replaced their private lead service line. Approximately 686 private service lines have been replaced; of those, 627 have been replaced by PWSA.

This year, PWSA is offering full service line replacement on both the remaining 2017 lead service line replacement (LSLR) contracts (which are complete as of the date of this report) and new 2018 LSLR contracts. 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 to replace the private side of the service line if lead or galvanized iron has been confirmed.

In 2018, private side replacement will be completed at no expense to the homeowner in the following instances:

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PWSA Operations Urgent Replacement

Emergency LSLR contracts will address replacement of private lead service lines when PWSA operations crews replace a public lead service line as a result of line breaks or leaks. This is to prevent partial lead service line replacement caused by urgent replacement, and will be completed at no cost to the customer (in 2018). This contract will also cover replacement of the private side service lines at locations where partial replacements occurred as part of water relays or operations replacement between July 1, 2016 and December 31, 2018.

Contracts for Emergency LSLR are being prepared and are expected to go out to bid in August 2018. Customers will be given the option but are not required to replace their private lead or galvanized iron service lines. When possible, PWSA Operations will provide temporary water service from the new public side line until the private service line can be replaced to avoid a partial lead service line replacement. PWSA provides PADEP a weekly update of all emergency partial lead service line replacements.

Lead Service Line Replacement Contracts

Properties chosen for the 2018 lead service line replacement contracts are based on the areas inspected under the 2017 curb box inspection contract. In locations where there is lead on the public side, PWSA will coordinate with customers that have a private side lead service line to replace the full-service line during construction. This is at no cost to the customer. Work orders associated with these contracts are set up on a neighborhood basis. Each work order has been prioritized by prevalence of children and incidences of high blood levels in the area based on data provided to PWSA by the ACHD. The 2018 contracts for full LSLR have been awarded, and construction began June 2018. If the homeowner does not sign an agreement to allow PWSA to replace their private side service line, they will be subject to partial lead service line replacement. The potential health risks of partial LSLR will be communicated to the homeowner by PWSA if a partial line replacement occurs. All properties will be provided with a 45-day notice of line replacement.

PADEP Community Environmental Project (CEP)

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 option will be identified by customer requests that qualify, and will be administered by a third party (DEF). Contracts for this project will be ready for bid in August 2018. PWSA anticipates that up to 200 private service lines will be replaced under this contract.

ATTACHMENT A
CONSUMER TAP NOTICES: CERTIFICATION AND EXAMPLE LETTERS

Appendix H – Lead COA



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

Consumer Tap Notice for Lead Results Certification Form

Name of PWS: Pittsburgh Water & Sewer Authority PWSID Number: 5020038

Monitoring period to which the notice applies (e.g., June – Sept. 2010): January-June 2018

Date(s) results were received from laboratory: 1/10/18 - 2/12/18, 4/24/18 - 5/25/18, 6/7/18 - 6/11/18, 7/9/18

Date(s) Notices were provided to consumers: 1/12/18 - 2/12/18, 4/26/18 - 5/28/18, 6/8/18 - 6/13/18, 7/9/18

The water system named above hereby certifies that its lead consumer notice has been provided to each person it serves at the specific sampling site from which the sample was tested. The water system also certifies that these results and the following information were provided to such persons within 30 days of receiving the test results from the laboratory:

- 1) Individual tap results from the lead tap water monitoring carried out under the requirements of §109.1103
- 2) An explanation of the health effects of lead.
- 3) Steps that consumers can take to reduce exposure to lead in drinking water.
- 4) The maximum contaminant level goals and action levels for lead, and the definitions of these two terms from §141.153(c).
- 5) Water system contact information.

Notices were distributed using the delivery methods indicated below. **Check all that apply.**

Mail or other direct delivery. Specify other direct delivery methods: Mailed

Electronic mail.

Posting the notice on the Internet at www. _____

Posting the notice in public places (attach a list of locations).

Delivery of multiple copies to single bill addresses serving several person such as: apartments, business, and large private employers.

Other methods. Specify: _____

Certified by: Signature: Robert A. Weimar

Print Name: Robert A. Weimar

Title: Executive Director

Phone # 412-255-8960 Date: 8/8/18

Complete this form, **attach a copy of the notice(s)** and submit this form to your local DEP office.

(See a list of DEP's regional office on the back of this form).



Pittsburgh
Water & Sewer
Authority

March 26, 2018

«Name»
«Address»
Pittsburgh, PA «Zip»

Kit ID#: «Kit_ID»

RE: 2018 Lead Customer Notification

Dear «Name»,

The Pittsburgh Water and Sewer Authority appreciates your participation in the lead tap monitoring program. A lead level of «**Lead_Result_ppb**» parts per billion (ppb) was reported for the sample collected on «**Date_Collected_by_Customer**» at your home. **Your result was at or above the lead action level of 15 ppb.** This level was measured in your water after a non-use period of at least 6-hours. This sample represents the worst-case result that can be expected from your home. Since the result from your home was at or over the action level for lead, we are recommending that you take additional actions listed below to minimize your exposure to lead.

What does this mean?

The lead action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow (listed below). Because the ingestion of lead may pose serious health risks, the U.S. Environmental Protection Agency (EPA) set a Maximum Contaminant Level Goal (MCLG) of zero for lead. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGS allow for a margin of safety.

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.”

What are the sources of lead?

Although most lead exposure occurs when people eat paint chips and inhale lead-contaminated dust, or ingest lead-contaminated residential soil, drinking water is one possible source of lead exposure.

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PWSA has tested and has not detected lead in water leaving the water treatment plant. Lead enters drinking water mainly through corrosion in:

- Lead full or partial service lines (that connect some properties to the water mains)
- Interior lead pipe(s) in the home.
- Interior galvanized pipe (especially if there was, or is, a full or partial lead service line) in the home.
- Interior copper pipe with lead soldered joints (installed prior to 1988) in the home.
- Interior plumbing fixtures (purchased or installed prior to January 2014 before the effective date of new definition of "lead-free") in the home.

Not all PWSA customers have lead service lines, and not all customers with lead service lines have tested above the "action" level. Homes built before 1986 are more likely to have lead pipes, fixtures, solder, and flux that have lead in it. Newer homes may also be at risk. The federal Safe Drinking Water Act establishes the definition of "lead-free" as no more than 0.25% lead (as a weighted average) for pipes, fittings & fixtures and 0.2% lead for solder and flux. Many manufactures use third-party certification programs to certify that their plumbing products meet the definition of "lead-free." Products manufactured prior to January 2014 may contain higher amounts of lead.

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

If you have specific health concerns, consult your health care provider. EPA suggests that you may want to ask your health care provider about testing children to determine levels of lead in their blood.

- **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 for cooking or drinking. Homes with longer lead water service lines 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 service line without wasting water.
- **Use cold water for cooking and preparing baby formula.** Do not cook with or drink water from the hot water tap. Do not use water from the hot water tap to make baby formula. Lead dissolves more easily in hot water.
- **Do not boil water to remove lead.** Boiling water will not reduce lead.
- **Look for alternative sources or treatment of water.** You may want to consider purchasing bottled water or a water filter. The NSF Consumer Affairs Office has developed a NSF Water Fact Kit for a consumer that includes specific information about lead in drinking water at: www.nsf.org/consumer/newsroom/kit_water.asp. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010 or www.nsf.org. Water treatment device information can be found at www.nsf.org/consumer/drinking_water/dw_treatment.asp?program=Waterre.



- **Identify if your plumbing fixtures contain lead.** There are lead check swabs that can detect lead on plumbing surfaces such as solder and pipes. These swabs can be purchased at plumbing and home improvement stores. Consider having lead-containing pipes and fixtures replaced, or use the precautions listed above.
- **Contact PWSA if you decide to replace your lead service line for information about coordinating efforts.**

What is being done?

PWSA adds anti-corrosion chemicals at the treatment plant to help to address this problem. A study is underway to determine if the current application is the most effective for reducing lead corrosion. PWSA will also continue to:

- Test tap water for lead.
- Educate customers about lead through distribution of public education brochures and posters through the City of Pittsburgh, regularly updating our website at www.pgh2o.com/lead-facts, and social media outreach.
- Replace any lead service lines it owns.
- Work with customers who want to replace lead service lines that they own. Since corrosion happens in service lines and interior plumbing that contain lead, water providers cannot take care of the entire problem.

Where can I get more information?

For more information, visit the PWSA website at www.pgh2o.com/lead-facts or call 412-782-7554; there are also a number of other on-line sites that provide valuable information about lead and drinking water. If you do not have access to a computer, visit your local library branch and they will help you connect for free. PWSA can also provide paper copies of information. The following are some suggested sites:

- Visit the Allegheny County Health Department's website at www.achd.net/lead,
- Visit EPA's website at: www.epa.gov/lead,
- Visit DEP's website at: www.dep.pa.gov/Citizens/My-Water/PublicDrinkingWater/Pages/Lead-in-Drinking-Water.aspx
- Visit the Centers for Disease Control's website at: www.cdc.gov/nceh/lead/tips/water.html
- Call the National Lead Information Center at 800-424-LEAD, or
- Contact your health care provider.

Sincerely,

Michael Czypinski

Michael Czypinski
Water Quality Data Manager



Pittsburgh
Water & Sewer
Authority

March 20, 2018

«Name»
«Address»
Pittsburgh, PA «Zip»

Kit ID#: «Kit_ID»

RE: 2018 Lead Customer Notification

Dear «Name»,

The Pittsburgh Water and Sewer Authority (PWSA) appreciates your participation in the lead tap monitoring program. A lead level of parts per billion «Lead_Result_ppb» (ppb) was reported for the sample collected on «Date_Collected_by_Customer» at your home. **Your result is below the lead EPA action level of 15 ppb.**

What does this mean?

The lead action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow (listed below). Because the ingestion of lead may pose serious health risks, the U.S. Environmental Protection Agency (EPA) set a Maximum Contaminant Level Goal (MCLG) of zero for lead. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGS allow for a margin of safety.

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."

What are the sources of lead?

Although most lead exposure occurs when people eat paint chips and inhale lead-contaminated dust, or ingest lead-contaminated residential soil, drinking water is one possible source of lead exposure.

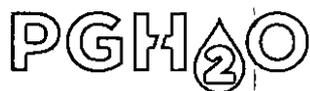
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Appendix H – Lead COA



PWSA has tested and has not detected lead in water leaving the water treatment plant. Lead enters drinking water mainly through corrosion in:

- Lead full or partial service lines (that connect some properties to the water mains)
- Interior lead pipe(s) in the home.
- Interior galvanized pipe (especially if there was, or is, a full or partial lead service line) in the home.
- Interior copper pipe with lead soldered joints (installed prior to 1988) in the home.
- Interior plumbing fixtures (purchased or installed prior to January 2014 before the effective date of new definition of "lead-free") in the home.

Not all PWSA customers have lead service lines, and not all customers with lead service lines have tested above the "action" level. Homes built before 1986 are more likely to have lead pipes, fixtures, solder, and flux that have lead in it. Newer homes may also be at risk. The federal Safe Drinking Water Act establishes the definition of "lead-free" as no more than 0.25% lead (as a weighted average) for pipes, fittings & fixtures and 0.2% lead for solder and flux. Many manufactures use third-party certification programs to certify that their plumbing products meet the definition of "lead-free." Products manufactured prior to January 2014 may contain higher amounts of lead.

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

If you have specific health concerns, consult your health care provider. EPA suggests that you may want to ask your health care provider about testing children to determine levels of lead in their blood.

- **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 for cooking or drinking. Homes with longer lead water service lines 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 service line without wasting water.
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Appendix H – Lead COA



- **Contact PWSA if you decide to replace your lead service line for information about coordinating efforts.**

What is being done?

PWSA adds anti-corrosion chemicals at the treatment plant to help to address this problem. A study is underway to determine if the current application is the most effective for reducing lead corrosion. PWSA will also continue to:

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- Contact your health care provider.

Sincerely,

Michael Czypinski

Michael Czypinski
Water Quality Data Manager



Pittsburgh
Water & Sewer
Authority

March 20, 2018

«Name»

«Address»

Pittsburgh, PA «Zip»

Kit ID#: «Kit_ID»

RE: 2018 Lead Customer Notification

Dear «Name»,

The Pittsburgh Water and Sewer Authority (PWSA) appreciates your participation in the lead tap monitoring program. A lead level of **ND (Non-Detected)** parts per billion (ppb) was reported for the sample collected on «Date_Collected_by_Customer» at your home. **Your result is below the lead EPA action level of 15 ppb.**

What does this mean?

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Sincerely,

Michael Czepinski

Michael Czepinski
Water Quality Data Manager

Appendix H – Lead COA

ATTACHMENT B
72-HOUR POST-CONSTRUCTION SAMPLE RESULTS

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Water Sampling Results After Lead Line Replacement (Post Construction Lead Sample Results)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Partial	Coordination (Customer Replaced Private)	Lab Result 1 (ppb)	Date Collected 1	Lab Result 2 (ppb)	Date Collected 2	Lab Result 3 (ppb)	Date Collected 3	Lab Result 4 (ppb)	Date Collected 4	Lab Result 5 (ppb)	Date Collected 5
SD03065	206	CHESTERFIELD RD	Lead	Lead	PEX	Not Replaced	7/21/2016	--	Yes	--	2	1/25/2017	--	--	--	--	--	--	--	--
SD29480	639b	STANTON AVE	Lead	Lead	PEX	Not Replaced	8/8/2016	--	Yes	--	2	11/13/2017	--	--	--	--	--	--	--	--
SD44460	1272	LANCASTER AVE	Lead	Lead	PEX	Not Replaced	8/25/2016	--	Yes	--	2	5/2/2017	--	--	--	--	--	--	--	--
SD27394	5438	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	9/15/2016	--	Yes	--	2	7/6/2017	--	--	--	--	--	--	--	--
SD66064	217	W NORTH AVE	Lead	Lead	PEX	Not Replaced	9/23/2016	--	Yes	--	2	7/7/2017	--	--	--	--	--	--	--	--
SD36901	1544	SHADY AVE	Lead	Lead	PEX	Not Replaced	10/4/2016	--	Yes	--	2	8/2/2017	--	--	--	--	--	--	--	--
SD79437	3034	SHADLAND AVE	Lead	Lead	PEX	Not Replaced	11/4/2016	--	Yes	--	2	7/13/2017	--	--	--	--	--	--	--	--
SD55124	53	RUTH ST	Lead	Lead	PEX	Copper	5/11/2017	5/11/2018	Yes	--	2	5/14/2018	--	--	--	--	--	--	--	--
SD50961	2311	SARAH ST	Lead	Lead	PEX	Not Replaced	5/11/2017	--	Yes	--	2	11/4/2018	--	--	--	--	--	--	--	--
SD18484	4521	BUTLER ST	Lead	Lead	PEX	Not Replaced	5/22/2017	--	Yes	--	2	6/23/2017	2	6/24/2017	2.5	6/25/2017	--	--	--	--
SD65834	1216	MONTEARY ST	Lead	Lead	PEX	Not Replaced	6/22/2017	--	Yes	--	2	10/25/2017	--	--	--	--	--	--	--	--
SD31912	6939	CHAUCER ST	Lead	Lead	PEX	Not Replaced	8/23/2017	--	Yes	--	2	9/25/2017	--	--	--	--	--	--	--	--
SD38429	5936	PHILLIPS AVE	Lead	Lead	PEX	Copper	8/30/2017	4/26/2018	Yes	--	2	4/3/2018	--	--	--	--	--	--	--	--
SD38753	2304	ELDRIDGE ST	Lead	Lead	PEX	PEX	9/6/2017	9/6/2017	No	--	2	11/31/2017	--	--	--	--	--	--	--	--
SD12202	351	DEANSTON AVE	Copper	Lead	PEX	Not Replaced	9/7/2017	--	No	No	2	9/26/2017	--	--	--	--	--	--	--	--
SD38933	2331	PITTSBURGH ST	Lead	Lead	PEX	PEX	10/5/2017	10/5/2017	No	--	2	10/11/2017	--	--	--	--	--	--	--	--
SD22195	1200	JANNEY ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Yes	--	2	11/9/2017	--	--	--	--	--	--	--	--
SD46076	4122	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Yes	--	2	1/23/2018	--	--	--	--	--	--	--	--
SD18368	164	45TH ST	Lead	Lead	PEX	Not Replaced	11/30/2017	--	Yes	--	2	5/2/2018	--	--	--	--	--	--	--	--
SD11967	3407	WALNUT ST	Lead	Lead	PEX	Not Replaced	12/1/2017	--	Yes	--	2	11/22/2017	--	--	--	--	--	--	--	--
SD16844	348	45TH ST	Lead	Lead	PEX	Not Replaced	1/4/2018	--	Yes	--	2	1/6/2018	--	--	--	--	--	--	--	--
SD127143	305	COLTON ST	Lead	Lead	Copper	Not Replaced	1/25/2018	--	Yes	--	2	2/2/2018	--	--	--	--	--	--	--	--
SD58344	217	MAPLE	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Yes	--	2	2/7/2018	2	3/18/2018	--	--	--	--	--	--
SD58658	158	WICKHAM AVE	Lead	Lead	PEX	Not Replaced	2/18/2018	--	Yes	--	2	3/7/2018	--	--	--	--	--	--	--	--
SD28115	1212	N SHRIDAN AVE	Lead	Lead	Copper	Not Replaced	4/2/2018	--	Yes	--	2	4/3/2018	--	--	--	--	--	--	--	--
SD74435	111	BONVUE ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	No	--	2	4/14/2018	--	--	--	--	--	--	--	--
SD74704	115	WALDORF ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	No	--	2	4/11/2018	--	--	--	--	--	--	--	--
SD74697	229	WALDORF ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	No	--	2	4/14/2018	--	--	--	--	--	--	--	--
SD58801	468	BELONDA ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	No	--	2	4/11/2018	--	--	--	--	--	--	--	--
SD74733	211	BONVUE ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	No	--	2	5/1/2018	--	--	--	--	--	--	--	--
SD74685	204	WALDORF ST	Lead	Lead	PEX	Copper	4/11/2018	4/11/2018	No	--	2	4/14/2018	--	--	--	--	--	--	--	--
SD59536	131	BARBARA ST	Lead	Lead	PEX	Copper	4/13/2018	4/13/2018	No	--	2	4/19/2018	--	--	--	--	--	--	--	--
SD74708	120	BONVUE ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	No	--	2	4/19/2018	--	--	--	--	--	--	--	--
SD38832	123	WILBIRI ST	Lead	Lead	PEX	Copper	4/19/2018	4/19/2018	No	--	2	6/20/2018	--	--	--	--	--	--	--	--
SD75527	114	MONTANA ST	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	No	--	2	4/26/2018	--	--	--	--	--	--	--	--
SD74380	38	WALDORF ST	Lead	Lead	PEX	Copper	4/26/2018	4/26/2018	No	--	2	4/27/2018	--	--	--	--	--	--	--	--
SD74378	42	WALDORF ST	Lead	Lead	PEX	Copper	4/26/2018	4/26/2018	No	--	2	4/27/2018	--	--	--	--	--	--	--	--
SD38415	5907	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	No	--	2	6/28/2018	--	--	--	--	--	--	--	--
SD38423	5924	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	No	--	2	4/28/2018	--	--	--	--	--	--	--	--
SD38427	5920	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	No	--	2	4/30/2018	--	--	--	--	--	--	--	--
SD75706	10	RADIUM ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	No	--	2	5/2/2018	--	--	--	--	--	--	--	--
SD74381	16	WALDORF ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	No	--	2	5/3/2018	--	--	--	--	--	--	--	--
SD74702	205	WALDORF ST	Lead	Lead	PEX	Copper	5/1/2018	5/1/2018	No	--	2	5/10/2018	--	--	--	--	--	--	--	--
SD38326	5832	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	No	--	2	6/2/2018	--	--	--	--	--	--	--	--
SD38327	5834	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	No	--	2	5/8/2018	--	--	--	--	--	--	--	--
SD75711	28	RADIUM ST	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	No	--	2	5/5/2018	--	--	--	--	--	--	--	--
SD38322	5816	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/8/2018	5/8/2018	No	--	2	5/11/2018	--	--	--	--	--	--	--	--
SD38408	5933	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/9/2018	5/9/2018	No	--	2	5/11/2018	--	--	--	--	--	--	--	--
SD66863	3352	WEBSTER AVE	Lead	Lead	PEX	Copper	5/16/2018	5/16/2018	No	--	2	5/30/2018	--	--	--	--	--	--	--	--
SD57721	404	KINGSBOND ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	No	--	2	5/24/2018	--	--	--	--	--	--	--	--
SD57693	411	EDGEWOOD ST	Lead	Lead	PEX	Copper	5/28/2018	5/28/2018	No	--	2	5/30/2018	--	--	--	--	--	--	--	--
SD38313	3813	NICHOLS ST	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	No	--	2	5/31/2018	--	--	--	--	--	--	--	--
SD74372	100	WALDORF ST	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	No	--	2.1	4/26/2018	--	--	--	--	--	--	--	--
SD74382	34	WALDORF ST	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	No	--	2.2	4/27/2018	--	--	--	--	--	--	--	--
SD38427	5928	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/9/2018	5/9/2018	No	--	2.2	5/12/2018	--	--	--	--	--	--	--	--
SD35476	340	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	10/30/2017	--	Yes	--	2.3	10/31/2017	3	11/2/2017	2	11/4/2017	2	11/29/2017	--	--
SD37482	5532	BARTLETT ST	Lead	Lead	PEX	Not Replaced	11/22/2017	--	Yes	--	2.3	12/25/2017	--	--	--	--	--	--	--	--
SD75727	4052	GRUELA ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	No	--	2.3	5/9/2018	--	--	--	--	--	--	--	--
SD58500	307	BELONDA ST	Lead	Lead	PEX	Copper	4/2/2018	4/2/2018	No	Yes	2.4	4/1/2018	--	--	--	--	--	--	--	--
SD19695	5159	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/3/2016	--	Yes	--	2.5	7/5/2017	--	--	--	--	--	--	--	--
SD19696	5161.1/2	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Yes	--	2.6	7/1/2017	--	--	--	--	--	--	--	--
SD42353	1750	BEECHWOOD BLVD	Lead	Lead	PEX	Not Replaced	5/9/2017	--	Yes	--	2.6	1/1/2018	--	--	--	--	--	--	--	--
SD58521	313	HATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/17/2017	--	Yes	--	2.7	5/17/2017	--	--	--	--	--	--	--	--
SD38859	2340	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	9/12/2017	--	No	Yes	2.9	4/12/2018	--	--	--	--	--	--	--	--
SD38428	5932	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/2/2018	5/2/2018	No	--	2.9	5/7/2018	--	--	--	--	--	--	--	--
SD61585	122	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	6/18/2018	--	Yes	--	3	7/11/2018	--	--	--	--	--	--	--	--
SD43425	146	S 12TH ST	Lead	Lead	PEX	Not Replaced	10/3/2018	--	Yes	--	3.1	10/16/2018	--	--	--	--	--	--	--	--
SD39600	6733	FRANKSTOWN AVE	Lead	Lead	PEX	Not Replaced	1/9/2017	--	Yes	--	3.1	11/17/2017	--	--	--	--	--	--	--	--
SD58596	43	HATCHEZ ST	Lead	Lead	PEX	Copper	5/16/2017	5/1/2018	Yes	--	3.2	5/3/2018	--	--	--	--	--	--	--	--
SD39068	5858	BURCHFIELD AVE	Lead	Lead	PEX	Not Replaced	11/9/2016	--	Yes	--	3.3	11/15/2017	--	--	--	--	--	--	--	--
SD122102	123	BECKER ST	Lead	Lead	PEX	Not Replaced	1/15/2018	--	No	Yes	3.3	1/15/2018	--	--	--	--	--	--	--	--
SD38860	2342	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	9/18/2017	--	No	Yes	3.7	10/5/2017	--	--	--	--	--	--	--	--
SD71031	323	JACSONIA ST	Lead	Lead	PEX	Not Replaced	12/28/2017	--	Yes	--	3.7	1/1/2018	--	--	--	--	--	--	--	--
SD46133	4213	SHELOS ST	Lead	Lead	PEX	Not Replaced	9/7/2017	--	Yes	--	3.8	7/8/2017	--	--	--	--	--	--	--	--
SD20293	5323	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/8/2016	--	Yes	--	3.9	7/9/2017	--	--	--	--	--	--	--	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Water Sampling Results After Lead Line Replacement (Post-Construction Lead Sample Results)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Partial	Combination (Customer Replaced Private)	Lab Result 1 (ppb)	Date Collected 1	Lab Result 2 (ppb)	Date Collected 2	Lab Result 3 (ppb)	Date Collected 3	Lab Result 4 (ppb)	Date Collected 4	Lab Result 5 (ppb)	Date Collected 5
5022815	5108	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/25/2016	--	Yes	--	4	7/27/2017								
5019697	5163	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	6/4/2016	--	Yes	--	4	7/3/2017								
5006309	3332	MORRIS PL	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	No	--	4	5/22/2018								
5054442	429	EDGEWORTH ST	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	No	--	4	5/29/2018								
5054483	434	KINGSBORD ST	Lead	Lead	PEX	Not Replaced	5/31/2018	--	Yes	--	4	6/27/2018								
5038307	5831	NICHOLSON ST	Lead	Lead	PEX	Copper	6/4/2018	6/4/2018	No	--	4	6/7/2018								
5007025	3426	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	No	--	4	6/11/2018								
5081623	20	SOFFEL ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	No	--	4	6/12/2018								
5075650	4139	FRANKLIN RD	Lead	Lead	PEX	Copper	6/5/2018 18:38	6/5/2018 18:38	No	--	4	6/11/2018								
5074188	4008	FRANKLIN RD	Lead	Lead	PEX	Copper	6/8/2018 21:31	6/8/2018 21:31	No	--	4	6/11/2018								
5061667	656	BOGGS AVE	Lead	Lead	PEX	Copper	6/11/2018	6/11/2018	No	--	4	6/11/2018	318	6/13/2018						
5038457	5806	NICHOLSON ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	No	--	4	6/12/2018								
5061626	709	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	No	--	4	6/13/2018								
5038459	5910	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/12/2018	No	--	4	6/14/2018								
5007046	818	ADLAIDE ST	Lead	Lead	Copper	Copper	6/15/2018	6/15/2018	No	--	4	6/19/2018								
5038458	732	BETH WALKER RD	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	No	--	4	6/19/2018								
5051196	612	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	No	--	4	6/19/2018								
5054157	57	HARWOOD ST	Lead	Lead	PEX	Copper	6/19/2018 16:16	6/19/2018 16:15	No	--	4	6/22/2018								
5049624	4150	WINDSOR ST	Lead	Lead	Copper	Copper	6/21/2018 21:11	6/21/2018 21:11	No	--	4	6/27/2018								
5075558	15	PIERVIEW AVE	Lead	Lead	PEX	Copper	6/22/2018 20:33	6/22/2018 20:34	No	--	4	6/28/2018	4	6/31/2018						
5075505	12	PIERVIEW AVE	Lead	Lead	PEX	Copper	6/23/2018 18:25	6/23/2018 18:41	No	--	4	6/28/2018								
5075411	105	HARWOOD ST	Lead	Lead	PEX	Copper	6/25/2018 16:18	6/25/2018 17:19	No	--	4	6/28/2018								
5075502	23	PIERVIEW AVE	Lead	Lead	PEX	Copper	6/27/2018 20:38	6/27/2018 20:38	No	--	4	7/9/2018								
5042182	8531	DITHAMBERLAND	Lead	Lead	PEX	Copper	6/28/2018 18:03	6/28/2018 17:26	No	--	4	7/12/2018								
5054225	201	DUNMONT ST	Lead	Lead	PEX	Copper	6/28/2018 14:01	6/29/2018 14:01	No	--	4	7/12/2018								
5049684	829	LEAC ST	Lead	Lead	PEX	Copper	7/8/2018 13:28	7/11/2018 15:30	No	--	4	7/14/2018								
5049725	4153	WINDSOR ST	Lead	Lead	PEX	Copper	7/23/2018 13:19	7/23/2018 13:19	No	--	4	7/25/2018								
5054663	406	BELOUDA ST	Lead	Lead	PEX	Copper	1/25/2017	4/19/2018	Yes	--	4.2	13/1/2017	2	5/1/2018						
5070707	5134	DUNCAN ST	Lead	Lead	Non-Lead	Not Replaced	11/14/2016	--	Yes	--	4.3	7/24/2017								
5050504	48	S 22ND ST	Lead	Lead	PEX	Not Replaced	12/12/2016	--	Yes	--	4.4	7/12/2017								
5058501	305	BELOUDA ST	Lead	Lead	PEX	Copper	4/2/2018	4/3/2018	No	--	4.4	4/4/2018								
5047723	255	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	12/19/2017	--	Yes	--	4.5	12/21/2017								
5006878	3374	WEBSTER AVE	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	No	--	4.8	5/29/2018								
5020461	5154	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	6/2/2016	--	Yes	--	4.8	6/30/2017								
5059557	48	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	5/17/2018	Yes	--	4.8	5/20/2018	10	6/27/2018						
5074418	28	BONHUE ST	Lead	Lead	PEX	Copper	4/18/2018	4/18/2018	No	--	4.8	4/17/2018								
5038413	5915	PHILIPS AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	No	--	4.8	5/19/2018								
5048812	187	BELOUDA ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	No	--	4.9	4/20/2018								
5048257	5126	CHAPLAIN WAY	Lead	Lead	PEX	Not Replaced	2/78/2018	--	Yes	--	5	3/24/2018								
5057712	413	KINGSBORD ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	No	--	5	6/14/2018								
5006876	3374	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	No	--	5	6/9/2018								
5038444	2384	SHADY AVE	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	No	--	5	6/22/2018								
5041982	6637	DITHAMBERLAND	Lead	Lead	PEX	Copper	7/20/2018 14:54	7/20/2018 14:44	No	--	5	7/11/2018								
5022990	5434	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	9/15/2016	--	Yes	--	5.1	7/7/2017								
5021976	1201	JANNEY ST	Lead	Lead	PEX	Not Replaced	3/18/2017	--	Yes	--	5.1	12/9/2017								
5058815	381	BELOUDA ST	Lead	Lead	PEX	Copper	4/13/2018	4/13/2018	No	--	5.1	4/13/2018								
5058488	222	HATCHLIZ ST	Lead	Lead	PEX	Not Replaced	5/16/2017	--	Yes	--	5.3	5/16/2017								
5006170	625	MELWOOD AVE	Lead	Lead	PEX	Not Replaced	8/4/2016	--	Yes	--	5.4	7/6/2017								
5006890	3369	WEBSTER AVE	Lead	Lead	PEX	Copper	9/27/2017	3/24/2018	Yes	--	5.4	9/28/2017	7.3	10/4/2017	2	10/19/2017				
5044428	1827	CHILLETI ST	Lead	Lead	PEX	Not Replaced	3/14/2018	--	Yes	--	5.4	3/15/2018								
5058491	312	BELOUDA ST	Lead	Lead & Galvanized	PEX	Copper	4/10/2018	4/10/2018	No	--	5.6	6/10/2018								
5070381	512	ARMANDALE ST	Lead	Lead	PEX	Not Replaced	8/2/2016	--	Yes	--	5.6	7/13/2017								
5059563	117	TUSCULA ST	Lead	Lead	PEX	Copper	5/23/2017	5/15/2018	Yes	--	5.6	5/27/2017	5.6	5/16/2018						
5033824	7230	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/25/2017	--	Yes	--	5.7	3/20/2018								
5057728	418	KINGSBORD ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	No	--	6	5/30/2018								
5004159	56	HARWOOD ST	Lead	Lead	PEX	Copper	6/18/2018 17:10	6/18/2018 17:11	No	--	6	6/20/2018								
5075503	20	PIERVIEW AVE	Lead	Lead	PEX	Copper	6/26/2018 21:01	6/26/2018 21:02	No	--	6	6/29/2018								
5020213	5109	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/25/2016	--	Yes	--	6.3	7/9/2017								
5074735	203	BONHUE ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	No	--	6.4	4/9/2018								
5019696	5124	CORAL ST	Lead	Lead	PEX	Not Replaced	2/13/2016	--	Yes	--	6.4	3/28/2018								
5071030	325	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	3/8/2018	--	Yes	--	6.8	3/7/2018								
5074694	233	WALDORF ST	Lead	Lead	Copper	Copper	4/18/2018	4/18/2018	No	--	6.9	4/25/2018								
5065024	1404	LIVERPOOL ST	Lead	Lead	PEX	Not Replaced	3/28/2017	--	Yes	--	7	7/19/2017								
5002046	278	LOMBARD ST	Lead	Lead	PEX	Not Replaced	2/78/2017	--	Yes	--	7	13/18/2017								
5006744	3483	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/8/2018	6/8/2018	No	--	7	6/10/2018								
5038447	5921	NICHOLSON ST	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	No	--	7	6/21/2018								
5007050	826	ADLAIDE ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	No	--	7	6/20/2018								
5036183	6517	DITHAMBERLAND	Lead	Lead	PEX	Copper	6/25/2018 15:15	6/25/2018 15:16	No	--	7	6/26/2018								
5075483	203	PIERVIEW AVE	Lead	Lead	PEX	Copper	7/19/2018 17:48	7/19/2018 17:48	No	--	7	7/19/2018								
5003468	337	S BOLDUET ST	Lead	Lead	Non-Lead	Not Replaced	10/11/2017	--	Yes	--	7.1	11/17/2017								
5070810	1417	SANDUSKY ST	Lead	Lead	PEX	Not Replaced	13/14/2017	--	Yes	--	7.5	12/18/2017								
5006851	332	WEBSTER AVE	Lead	Lead	PEX	Copper	5/11/2018	5/11/2018	No	--	7.8	5/14/2018								
5012454	927	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Yes	--	8	7/10/2017	8.9	7/25/2017						
5061202	283	BOGGS AVE	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	No	--	8	6/13/2018								
5038448	5917	NICHOLSON ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	No	--	8	6/21/2018								

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S041969	6663	DRTHUMBERLAND	Lead	Lead	PEX	Copper	7/7/2018 16 29	7/24/2018 15 07	No	--	8	7/26/2018								
S061046	154	OLYMPIA ST	Lead	Lead	PEX	Not Replaced	11/9/2016	--	Yes	--	8.5	7/17/2017								
S051624	7	HOLT ST	Lead	Lead	PEX	Not Replaced	9/1/2016	--	Yes	--	8.6	7/9/2017								
S047658	234	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	10/19/2016	--	Yes	--	8.6	7/7/2017								
S012191	330	HALLMAN ST	Lead	Lead	PEX	Not Replaced	9/15/2017	--	Yes	--	8.8	8/22/2017								
S074409	105	WALDOFF ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	No	--	8.8	4/6/2018								
S037581	3508	BEACON ST	Lead	Lead	PEX	Not Replaced	9/7/2016	--	Yes	--	9.2	8/14/2017								
S022995	5430	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/13/2016	--	Yes	--	9.2	8/22/2017								
S030883	8939	CHURCHLAND ST	Lead	Lead	PEX	Not Replaced	12/2/2017	--	Yes	--	9.3	12/11/2017								
S020086	5309	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/5/2016	--	Yes	--	9.5	7/11/2017								
S015201	915	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Yes	--	9.7	7/13/2017								
S061499	108	RUTH ST	Lead	Lead	PEX	Copper	5/17/2016	5/8/2018	Yes	--	9.8	5/17/2017	2	5/21/2018						
S058515	331	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/19/2017	--	Yes	Yes	9.8	5/20/2017								
S040825	7000	MEADE PL	Lead	Lead	PEX	Not Replaced	2/15/2017	--	Yes	--	10	8/10/2017								
S059647	100	RUTH ST	Lead	Lead	PEX	Copper	5/17/2017	5/9/2018	Yes	--	10	5/23/2017	2	5/29/2018						
S042371	6511	DARLINGTON RD	Lead	Lead	PEX	Not Replaced	5/24/2017	--	Yes	--	10	5/26/2017								
S042383	6338	DARLINGTON RD	Lead	Lead	PEX	Not Replaced	5/24/2017	--	Yes	--	10	6/23/2017								
S042312	6622	DRTHUMBERLAND	Lead	Lead	PEX	Copper	7/9/2018 13 56	7/9/2018 13 36	No	--	10	7/12/2018	28	6/16/2018						
S012500	911	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Yes	--	11	7/9/2017								
S058930	234	PROSPECT ST	Lead	Lead	PEX	Not Replaced	5/30/2017	--	Yes	--	11	6/4/2017								
S074695	241	WALDOFF ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	No	--	11	5/7/2018								
S074377	44	WALDOFF ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	No	--	11	4/28/2018								
S007360	758	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	No	--	11	6/14/2018								
S061205	605	SOJTHERN AVE	Lead	Lead	PEX	Not Replaced	6/25/2018	--	Yes	--	11	6/30/2018								
S031892	1542	DEERLIN ST	Lead	Lead	PEX	Not Replaced	12/1/2016	--	Yes	--	11	7/7/2017								
S051711	2512	STELLA ST	Lead	Lead	PEX	Not Replaced	12/28/2016	--	Yes	--	12	7/7/2017								
S003596	2701	5TH AVE	Lead	Lead	PEX	Not Replaced	7/13/2017	--	No	Yes	12	7/14/2017								
S045332	4102	LYDIA ST	Lead	Lead	PEX	Not Replaced	12/7/2017	--	Yes	--	12	1/13/2018								
S010057	5438	CLAYBOURNE ST	Lead	Lead	PEX	Not Replaced	2/26/2018	--	Yes	--	12	3/19/2018	23	3/31/2018						
S058807	479	BELONDA ST	Lead	Lead	PEX	Copper	4/24/2018	4/24/2018	No	--	12	4/24/2018								
S061777	816	ROGGS AVE	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	No	--	12	6/25/2018								
S003468	372	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2017	--	Yes	--	13	11/6/2017								
S038821	2324	PITTSBURGH ST	Lead	Lead	PEX	Copper	6/25/2018	6/25/2018	No	--	13	6/26/2018								
S038289	2302	PITTSBURGH ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	No	--	13	6/26/2018								
S017464	428	FISK ST	Lead	Lead	PEX	Not Replaced	7/17/2016	--	Yes	--	14	7/11/2017								
S048522	5266	2ND AVE	Lead	Lead	PEX	Not Replaced	7/26/2016	--	Yes	--	14	7/12/2017								
S077101	2510	MAPLE AVE	Lead	Lead	PEX	Not Replaced	9/16/2016	--	Yes	--	14	11/16/2017								
S032416	7053	CHAUCER ST	Lead	Lead	PEX	Not Replaced	10/21/2016	--	Yes	--	14	7/6/2017								
S007363	764	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	No	--	14	6/14/2018								
S061735	1	LELIA ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	No	--	14	6/15/2018								
S004773	514	CARD ST	Lead	Lead	PEX	Not Replaced	2/27/2017	--	Yes	--	15	7/7/2017								
S028089	1225	WINTERTON ST	Lead	Lead	PEX	Not Replaced	9/5/2017	--	Yes	--	15	9/15/2017								
S052645	3227	JOSEPHINE ST	Lead	Lead	PEX	Not Replaced	10/4/2017	--	Yes	--	15	10/8/2017	2	11/6/2017						
S031398	1130	OLIVANT ST	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Yes	--	15	3/12/2018								
S038269	2311	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	No	--	15	5/26/2018	4	5/28/2018						
S031893	1544	DEERLIN ST	Lead	Lead	PEX	Not Replaced	11/2/2016	--	Yes	--	16	10/11/2017								
S058811	189	BELONDA ST	Lead	Lead	PEX	Copper	4/12/2018	4/12/2018	No	--	16	4/12/2018								
S038332	5854	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	No	--	16	5/8/2018								
S041967	6657	DRTHUMBERLAND	Lead	Lead	PEX	Copper	7/29/2018 18 26	7/29/2018 17 40	No	--	16	7/21/2018								
S028213	1012	WINTERTON ST	Lead	Lead	PEX	Not Replaced	7/18/2016	--	Yes	--	17	7/25/2017								
S016126	4213	SHARROD ST	Lead	Lead	PEX	Not Replaced	10/28/2017	--	No	Yes	17	10/31/2017	21	11/21/2017						
S049678	4138	WINDSOR ST	Lead	Lead	PEX	Copper	7/18/2018 18 31	7/18/2018 18 31	No	--	17	7/27/2018								
S044053	578	BRIAR CLIFF RD	Lead	Lead	PEX	Not Replaced	4/10/2018	--	Yes	--	18	4/11/2018								
S056448	438	EDGEWORTH ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	No	--	18	5/23/2018								
S049562	967	LILAC ST	Lead	Lead	PEX	Copper	7/13/2018 20 46	7/13/2018 20 46	No	--	18	7/18/2018								
S042217	6555	DRTHUMBERLAND	Lead	Lead	PEX	Copper	7/18/2018 15 58	7/18/2018 17 24	No	--	18	7/23/2018								
S028106	6739	STAMTON AVE	Lead	Lead	PEX	Not Replaced	3/14/2017	--	Yes	--	19	7/28/2017								
S056111	77	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	5/10/2018	Yes	--	19	5/20/2017	9.5	10/26/2017	2	5/20/2018				
S018128	140	4TH ST	Lead	Lead	PEX	Not Replaced	7/14/2017	--	Yes	--	19	8/3/2017	3.9	10/10/2017						
S004432	3316	HARDIE WAY	Lead	Lead	PEX	Not Replaced	9/20/2017	--	Yes	--	19	8/26/2017								
S038119	7220	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	11/2/2017	--	Yes	--	19	11/3/2017								
S058864	516	NATCHEZ ST	Lead	Lead	PEX	Copper	6/7/2018	6/7/2018	No	--	19	6/9/2018								
S038868	2350	ELDRIDGE ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	No	--	19	6/21/2018								
S037870	5919	DOUGLAS ST	Lead	Lead	PEX	Not Replaced	2/23/2018	--	Yes	--	20	2/26/2018								
S022912	8	MAUCH ST	Lead	Lead	PEX	Not Replaced	3/7/2018	--	Yes	--	20	3/10/2018								
S078151	3406	CASS AVE	Lead	Lead	Non-PEX	Not Replaced	10/2/2017	--	Yes	--	21	11/7/2017	12	12/4/2017						
S020234	1133	CARNegie ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Yes	--	22	7/9/2017	19	8/3/2017						
S070337	5125	CARNegie ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Yes	--	22	7/27/2017	10	8/3/2017						
S004354	3317	MAGARA ST	Lead	Lead	PEX	Not Replaced	6/22/2017	--	Yes	--	22	11/1/2017	9.1	12/1/2017						
S019680	5205	PENN AVE	Lead	Lead	PEX	Not Replaced	9/26/2017	--	Yes	--	22	9/27/2017	11	10/26/2017						
S049657	909	KENNESEC ST	Lead	Lead	PEX	Not Replaced	4/25/2018	--	Yes	--	22	5/1/2018								
S042175	7419	BEN HUR ST	Lead	Lead	PEX	Not Replaced	5/24/2018	--	Yes	--	22	5/30/2018								
S042211	6626	DRTHUMBERLAND	Lead	Lead	PEX	Copper	7/10/2018 19 45	7/10/2018 19 36	No	--	22	7/12/2018								
S038231	6357	ALDERSON ST	Lead	Lead	PEX	Not Replaced	5/25/2017	--	Yes	--	23	5/25/2017	13	6/8/2017						
S059025	257	PROSPECT ST	Lead	Lead	PEX	Not Replaced	6/1/2017	--	Yes	--	23	7/23/2017								

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Water Sampling Results After Lead Line Replacement (Post-Construction Lead Sample Results)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Partial	Coordination (Customer Replaced Private)	Lab Result 1 (ppb)	Date Collected 1	Lab Result 2 (ppb)	Date Collected 2	Lab Result 3 (ppb)	Date Collected 3	Lab Result 4 (ppb)	Date Collected 4	Lab Result 5 (ppb)	Date Collected 5
5013222	258	S WINNERDOLLE ST	Lead	Lead	PEX	Not Replaced	4/18/2018	--	Yes	--	23	4/23/2018	--	--	--	--	--	--	--	--
5034882	2339	ELDRIDGE ST	Lead	Lead	PEX	Copper	8/13/2017	5/11/2018	Yes	--	24	10/1/2017	31	5/29/2018	--	--	--	--	--	--
5006896	3349	WERSTER AVE	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	No	--	24	5/30/2018	--	--	--	--	--	--	--	--
5061560	652	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	No	--	24	6/27/2018	--	--	--	--	--	--	--	--
5048576	839	LKAC ST	Lead	Lead	PEX	Copper	6/28/2018 14:53	6/28/2018 16:53	No	--	24	6/29/2018	--	--	--	--	--	--	--	--
5056147	125	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	1/24/2018	--	Yes	--	28	1/27/2018	--	--	--	--	--	--	--	--
5038412	5819	PHILIPS AVE	Lead	Lead	PEX	Not Replaced	5/29/2018	--	Yes	--	29	6/19/2018	--	--	--	--	--	--	--	--
5041483	7220	MEADE ST	Lead	Lead	PEX	Not Replaced	6/19/2018	--	Yes	--	27	7/9/2017	13	7/29/2017	--	--	--	--	--	--
5058658	64	RUTH ST	Lead	Lead	PEX	Copper	5/11/2017	5/9/2018	Yes	--	27	5/28/2017	13	6/4/2017	2	5/10/2018	--	--	--	--
5037031	5535	BARTLETT ST	Lead	Lead	PEX	Not Replaced	5/31/2017	--	Yes	--	27	10/30/2017	2	11/19/2017	--	--	--	--	--	--
5059900	110	WILBERT ST	Lead	Lead	PEX	Not Replaced	6/24/2017	--	Yes	--	28	6/28/2017	8.9	10/4/2017	--	--	--	--	--	--
5048708	1225	HASLAGE AVE	Lead	Lead	PEX	Not Replaced	2/19/2018	--	Yes	--	28	2/29/2018	--	--	--	--	--	--	--	--
5038266	2319	ELDRIDGE ST	PEX	Lead	PEX	Copper	9/11/2017	5/18/2018	No	--	29	9/20/2017	22	10/24/2017	--	--	--	--	--	--
5002842	223	DUNSEITH ST	Lead	Lead	PEX	Not Replaced	2/13/2018	--	Yes	--	30	3/13/2018	4	6/20/2018	--	--	--	--	--	--
5011433	248	SPAWR ST	Lead	Lead	PEX	Not Replaced	4/20/2018	--	Yes	--	30	4/24/2018	--	--	--	--	--	--	--	--
5057221	416	EDWARDS RD	Lead	Lead	PEX	Not Replaced	5/4/2018	--	Yes	--	30	6/2/2018	--	--	--	--	--	--	--	--
5049892	1041	WOLFER ST	Lead	Lead	PEX	Not Replaced	5/31/2018	--	Yes	--	31	7/28/2018	--	--	--	--	--	--	--	--
5033349	7325	RACE ST	Lead	Lead	PEX	Not Replaced	7/18/2017	--	Yes	--	31	7/15/2017	24	7/26/2017	4	3/8/2018	--	--	--	--
5026178	709	N ELLIOT AVE	Lead	Lead	PEX	Not Replaced	7/24/2017	--	Yes	--	33	7/28/2017	17	8/20/2017	6	10/30/2017	--	--	--	--
5048830	438	HATCHEZ ST	Lead	Lead	PEX	Copper	5/23/2017	4/26/2018	Yes	--	34	5/24/2017	--	--	--	--	--	--	--	--
5038880	2343	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	No	Yes	35	10/19/2017	8.8	11/4/2017	--	--	--	--	--	--
5038486	6860	BURCHFIELD AVE	Lead	Lead	Copper	Not Replaced	13/7/2017	--	Yes	--	35	12/11/2017	32	7/12/2018	--	--	--	--	--	--
5060561	319	SWEETBARBAR ST	Lead	Lead	PEX	Not Replaced	11/8/2018	--	Yes	--	36	7/7/2017	18	2/1/2018	--	--	--	--	--	--
5056110	79	RUTH ST	Lead	Lead	PEX	Copper	9/15/2017	5/10/2018	Yes	--	36	5/16/2017	42	6/7/2017	4.1	5/14/2018	--	--	--	--
5037923	5407	GLAUBER RD	Lead	Lead	PEX	Not Replaced	5/23/2017	--	Yes	Yes	36	5/25/2017	15	9/12/2017	8.9	2/7/2018	--	--	--	--
5022553	5418	WOLFER ST	Lead	Lead	PEX	Not Replaced	10/22/2017	--	Yes	--	36	10/25/2017	--	--	--	--	--	--	--	--
5061510	132	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	5/8/2018	Yes	--	37	5/9/2017	--	--	--	--	--	--	--	--
5122444	9	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	11/13/2018	--	Yes	--	38	7/13/2017	8.5	3/20/2018	--	--	--	--	--	--
5018503	8316	WALDWIN ST	Lead	Lead	PEX	Not Replaced	4/4/2017	--	Yes	--	40	8/9/2017	--	--	--	--	--	--	--	--
5070809	3415	SANDUSKY ST	Lead	Lead	PEX	Not Replaced	12/4/2017	--	Yes	--	40	12/16/2017	--	--	--	--	--	--	--	--
5038451	5905	NICHOLSON ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	No	--	42	6/15/2018	--	--	--	--	--	--	--	--
5061126	617	CHESSE ST	Lead	Lead	PEX	Not Replaced	12/26/2018	--	Yes	--	44	7/7/2017	14	7/28/2017	--	--	--	--	--	--
5038271	2307	ELDRIDGE ST	Lead	Lead	PEX	Copper	9/4/2017	5/15/2018	Yes	--	51	9/20/2017	26	10/20/2017	--	--	--	--	--	--
5061522	148	RUTH ST	Lead	Lead	PEX	Not Replaced	5/18/2017	--	Yes	--	53	7/19/2017	25	8/17/2017	--	--	--	--	--	--
5038329	5842	PHILIPS AVE	Lead	Lead	PEX	Copper	8/24/2017	5/3/2018	Yes	--	53	8/25/2017	--	--	--	--	--	--	--	--
5039111	2842	SHADY AVE	Lead	Lead	PEX	Not Replaced	10/18/2017	--	Yes	--	56	10/19/2017	48	11/7/2017	--	--	--	--	--	--
5071007	1415	BURENA VISTA ST	Lead	Lead	PEX	Not Replaced	9/7/2018	--	Yes	--	56	7/9/2017	--	--	--	--	--	--	--	--
5068599	223	HATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/18/2017	--	Yes	--	62	6/7/2017	21	8/8/2017	29	2/28/2018	--	--	--	--
5006965	765	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	No	--	62	6/15/2018	--	--	--	--	--	--	--	--
5055674	53	CRANGHOLD ST	Lead	Lead	PEX	Not Replaced	10/4/2018	--	Yes	--	69	7/9/2017	--	--	--	--	--	--	--	--
5067335	910	PERALTA ST	Lead	Lead	PEX	Not Replaced	12/20/2017	--	Yes	--	69	12/20/2017	4	7/6/2018	--	--	--	--	--	--
5059565	718	TUSCOLOA ST	Lead	Lead	PEX	Copper	5/25/2017	5/17/2018	Yes	--	71	5/27/2017	2	5/21/2018	2	5/21/2018	--	--	--	--
5038284	2309	SHERBROOK ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	No	--	72	8/2/2018	--	--	--	--	--	--	--	--
5017527	4042	CABINET ST	Lead	Lead	PEX	Not Replaced	1/17/2018	--	Yes	--	76	1/23/2018	6	6/19/2018	--	--	--	--	--	--
5028199	1326	WINTERTON ST	Lead	Lead	PEX	Not Replaced	13/7/2017	--	Yes	--	84	12/19/2017	4.2	4/25/2018	--	--	--	--	--	--
5077766	1433	ORCHILEE ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Yes	--	81	7/19/2017	17	3/26/2018	--	--	--	--	--	--
5055831	452	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	2/1/2017	--	Yes	--	96	8/19/2017	--	--	--	--	--	--	--	--
5004358	3303	NIAGARA ST	Lead	Lead	PEX	Not Replaced	8/12/2016	--	Yes	--	98	7/7/2017	--	--	--	--	--	--	--	--
5042003	6611	ROGEEVILLE ST	Lead	Lead	PEX	Copper	12/23/2018 18:48	7/23/2018 17:51	No	--	99	7/23/2018	--	--	--	--	--	--	--	--
5061137	238	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	5/8/2018	Yes	--	100	5/22/2017	--	--	--	--	--	--	--	--
5059560	54	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	5/15/2018	Yes	--	110	5/15/2017	3	3/23/2018	--	--	--	--	--	--
5058994	300	PROSPECT ST	Lead	Lead	PEX	Copper	6/21/2017	5/2/2018	Yes	--	130	7/18/2017	--	--	--	--	--	--	--	--
5058480	4	LOWEN ST	Lead	Lead	PEX	Copper	4/20/2018	4/20/2018	No	--	220	4/23/2018	2	5/7/2018	--	--	--	--	--	--
5001227	1421	PENN AVE	Lead	Lead	PEX	Not Replaced	6/6/2017	--	Yes	--	230	6/9/2017	6.7	1/7/2018	--	--	--	--	--	--
5060537	320	SWEETBARBAR ST	Lead	Lead	PEX	Not Replaced	6/29/2017	--	Yes	--	230	8/30/2017	2.4	1/7/2018	--	--	--	--	--	--
5012400	5726	MOWE ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Yes	--	240	10/9/2017	4.1	10/18/2017	--	--	--	--	--	--
5074709	202	BONVILLE ST	Lead	Lead	PEX	Not Replaced	3/29/2018	--	Yes	--	480	3/29/2018	3.7	4/15/2018	--	--	--	--	--	--
5060696	730	CONASSSET ST	Lead	Lead	PEX	Not Replaced	1/29/2018	--	Yes	--	770	1/28/2018	2.5	2/2/2018	--	--	--	--	--	--
5064530	1811	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	1/26/2018	--	Yes	--	780	2/26/2018	3	2/8/2018	--	--	--	--	--	--
5006873	3376	WERSTER AVE	Lead	Lead	PEX	Copper	9/28/2017	6/8/2018	Yes	--	810	9/26/2017	1500	9/20/2017	86	9/29/2017	80	10/18/2017	9.8	1/28/2018
5075704	6	NAOLIM ST	Lead	Lead	PEX	Copper	5/1/2018	5/1/2018	No	--	830	5/2/2018	--	--	--	--	--	--	--	--
5036470	5825	BETHLEHEM RD	Lead	Lead	PEX	Not Replaced	1/12/2018	--	Yes	--	1000	1/12/2018	17	2/13/2018	--	--	--	--	--	--
5058288	226	PROSPECT ST	Lead	Lead	PEX	Not Replaced	5/26/2017	--	Yes	--	1400	5/30/2017	8.0	6/6/2017	96	7/10/2017	47	2/3/2018	--	--
5018177	368	44TH ST	Lead	Lead	PEX	Not Replaced	12/7/2017	--	Yes	--	1700	12/7/2017	4.9	12/12/2017	--	--	--	--	--	--
5025170	5575	HAMPTON ST	Lead	Lead	PEX	Not Replaced	8/12/2017	--	Yes	--	2200	9/13/2017	17	9/29/2017	9	1/24/2018	--	--	--	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
 Partial Replacements not Notified in Accordance with 25 Pa. Code § 109.1107(d)(4)(i)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5047746	244	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	7/1/2016	--	Ops	Yes	
5020086	5309	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/5/2016	--	Upper Lawrenceville Relay	Yes	
5020839	4363	STANTON AVE	Lead	Lead	PEX	Not Replaced	7/6/2016	--	Ops	Yes	
5020093	5323	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/8/2016	--	Upper Lawrenceville Relay	Yes	
5078778	3522	SIMEN AVE	Lead	Lead	PEX	Not Replaced	7/11/2016	--	Ops	Yes	
5017464	428	FISK ST	Lead	Lead	PEX	Not Replaced	7/12/2016	--	Ops	Yes	
5020623	5329	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	
5020622	5331	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	
5020621	5333	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	
5020620	5335	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	
5025811	921	N SAINT CLAIR ST	Lead	Lead	PEX	Not Replaced	7/12/2016	--	Ops	Yes	
5069027	2100	STRAUBS LN	Lead	Lead	PEX	Not Replaced	7/13/2016	--	Ops	Yes	
5048231	5120	LYTLE ST	Lead	Lead	PEX	Not Replaced	7/14/2016	--	Ops	Yes	
5028213	1012	WINTERTON ST	Lead	Lead	PEX	Not Replaced	7/18/2016	--	Ops	Yes	
5046129	4221	SHIELDS ST	Lead	Lead	PEX	Not Replaced	7/19/2016	--	Ops	Yes	
5048521	5264	2ND AVE	Lead	Lead	PEX	Not Replaced	7/21/2016	--	Ops	Yes	
5003065	206	CHESTERFIELD RD	Lead	Lead	PEX	Not Replaced	7/21/2016	--	Ops	Yes	
5020285	5108	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/25/2016	--	Upper Lawrenceville Relay	Yes	
5020213	5109	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/25/2016	--	Upper Lawrenceville Relay	Yes	
5048522	5266	2ND AVE	Lead	Lead	PEX	Not Replaced	7/26/2016	--	Ops	Yes	
5020233	5131 1/2	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Upper Lawrenceville Relay	Yes	
5020234	5133	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Upper Lawrenceville Relay	Yes	

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
 Partial Replacements not Notified in Accordance with 25 Pa. Code § 109.1107(d)(4)(i)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5020237	5135	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Upper Lawrenceville Relay	Yes	
5038973	2309	TILBURY AVE	Lead	Lead	PEX	Not Replaced	7/29/2016	--	Ops	Yes	
5020268	5148	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/1/2016	--	Upper Lawrenceville Relay	Yes	
5020267	5150	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/1/2016	--	Upper Lawrenceville Relay	Yes	
5024629	5415	BROAD ST	Lead	Lead	PEX	Not Replaced	8/2/2016	--	Ops	Yes	
5020263	5154	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/2/2016	--	Upper Lawrenceville Relay	Yes	
5020261	5156	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/2/2016	--	Upper Lawrenceville Relay	Yes	
5070381	512	ARMANDALE ST	Lead	Lead	PEX	Not Replaced	8/3/2016	--	Ops	Yes	
5020257	5157	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/3/2016	--	Upper Lawrenceville Relay	Yes	
5019695	5159	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/3/2016	--	Upper Lawrenceville Relay	Yes	
5019696	5161 1/2	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Upper Lawrenceville Relay	Yes	
5019697	5163	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Upper Lawrenceville Relay	Yes	
5019691	5168	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Upper Lawrenceville Relay	Yes	
5006770	525	MELWOOD AVE	Lead	Lead	PEX	Not Replaced	8/4/2016	--	Ops	Yes	
5019700	5165	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/5/2016	--	Upper Lawrenceville Relay	Yes	
5051908	2300	PRIMROSE ST	Lead	Lead	PEX	Not Replaced	8/5/2016	--	Ops	Yes	
5075090	17	DUNLAP ST	Lead	Lead	PEX	Not Replaced	8/8/2016	--	Ops	Yes	
5028480	6395	STANTON AVE	Lead	Lead	PEX	Not Replaced	8/8/2016	--	Ops	Yes	
5004258	3103	NIAGARA ST	Lead	Lead	PEX	Not Replaced	8/12/2016	--	Ops	Yes	
5052433	2810	SALISBURY ST	Lead	Lead	PEX	Not Replaced	8/16/2016	--	Ops	Yes	
5041493	7220	MEADE ST	Lead	Lead	PEX	Not Replaced	8/19/2016	--	Ops	Yes	
5044460	1222	LANCASTER AVE	Lead	Lead	PEX	Not Replaced	8/25/2016	--	Ops	Yes	

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
 Partial Replacements not Notified in Accordance with 25 Pa. Code § 109.1107(d)(4)(i)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5059590	125	TUSCOLA ST	Lead	Lead	PEX	Copper	8/30/2016	5/16/2018	Ops	Yes	
5051624	7	HOLT ST	Lead	Lead	PEX	Not Replaced	9/1/2016	--	Ops	Yes	
5071007	1415	BUENA VISTA ST	Lead	Lead	PEX	Not Replaced	9/2/2016	--	Ops	Yes	
5020612	5406	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/6/2016	--	Upper Lawrenceville Relay	Yes	
5037581	5508	BEACON ST	Lead	Lead	PEX	Not Replaced	9/7/2016	--	Ops	Yes	
0	5418	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/7/2016	--	Upper Lawrenceville Relay	Yes	
5072382	2329	HAZELTON ST	Lead	Lead	PEX	Not Replaced	9/8/2016	--	Ops	Yes	
5072381	2331	HAZELTON ST	Lead	Lead	PEX	Not Replaced	9/9/2016	--	Ops	Yes	
5022986	5429	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/13/2016	--	Upper Lawrenceville Relay	Yes	
5022995	5430	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/13/2016	--	Upper Lawrenceville Relay	Yes	
5034962	719	SALINE ST	Lead	Lead	PEX	Not Replaced	9/13/2016	--	Ops	Yes	
5055786	67	HANOVER ST	Lead	Lead	PEX	Not Replaced	9/14/2016	--	Ops	Yes	
5022988	5431	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/14/2016	--	Upper Lawrenceville Relay	Yes	
5040277	201	ELYSIAN ST	Lead	Lead	PEX	Not Replaced	9/15/2016	--	Ops	Yes	
5012500	911	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	Yes	
5012501	915	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	Yes	
5012454	927	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	Yes	
5022990	5434	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	9/15/2016	--	Upper Lawrenceville Relay	Yes	
5022994	5438	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	9/15/2016	--	Upper Lawrenceville Relay	Yes	
5048269	208	W ELIZABETH ST	Lead	Lead	PEX	Not Replaced	9/15/2016	--	Ops	Yes	
5072101	2510	MAPLE AVE	Lead	Lead	PEX	Not Replaced	9/16/2016	--	Ops	Yes	
5066064	212	W NORTH AVE	Lead	Lead	PEX	Not Replaced	9/25/2016	--	Ops	Yes	

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5008514	3326	MELWOOD AVE	Lead	Lead	PEX	Not Replaced	10/3/2016	--	Ops	Yes	
5055674	53	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	10/4/2016	--	Ops	Yes	
5006919	3352	MCNEIL PL	Lead	Lead	PEX	Copper	10/4/2016	5/17/2018	Ops	Yes	
5036901	1544	SHADY AVE	Lead	Lead	PEX	Not Replaced	10/4/2016	--	Ops	Yes	
5003277	250	MEYRAN AVE	Lead	Lead	PEX	Not Replaced	10/5/2016	--	Ops	Yes	
5079249	1032	GRAND AVE	Lead	Lead	PEX	Not Replaced	10/14/2016	--	Ops	Yes	
5048385	419	W ELIZABETH ST	Lead	Lead	PEX	Not Replaced	10/17/2016	--	Ops	Yes	
5043576	219	CARNEGIE PL	Lead	Lead	PEX	Not Replaced	10/18/2016	--	Ops	Yes	
5041028	413	GETTYSBURG ST	Lead	Lead	PEX	Not Replaced	10/18/2016	--	Ops	Yes	
5047658	234	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	10/19/2016	--	Ops	Yes	
5047747	242	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	10/19/2016	--	Ops	Yes	
5051587	38	HOLT ST	Lead	Lead	PEX	Not Replaced	10/20/2016	--	Ops	Yes	
5122045	10	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/20/2016	--	Spring Street Relay	Yes	
5122047	12	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/20/2016	--	Spring Street Relay	Yes	
5122043	8	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/20/2016	--	Spring Street Relay	Yes	
5032416	7055	CHAUCER ST	Lead	Lead	PEX	Not Replaced	10/21/2016	--	Ops	Yes	
5032417	7057	CHAUCER ST	Lead	Lead	PEX	Not Replaced	10/21/2016	--	Ops	Yes	
5052038	2310	PATTERSON ST	Lead	Lead	PEX	Not Replaced	10/25/2016	--	Ops	Yes	
0	5243B	DUNCAN ST	Lead	Lead	Non-Lead	Not Replaced	10/26/2016	--	Upper Lawrenceville Relay	Yes	
5122046	11	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/27/2016	--	Spring Street Relay	Yes	
5014735	4826	SCIOTA ST	Lead	Lead	PEX	Not Replaced	10/28/2016	--	Ops	Yes	
5080719	1710	MARMADUKE ST	Lead	Lead	PEX	Not Replaced	10/31/2016	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5054245	146	S 17TH ST	Lead	Lead	PEX	Not Replaced	10/31/2016	--	Ops	Yes	
5031892	1542	OBERLIN ST	Lead	Lead	PEX	Not Replaced	11/1/2016	--	Ops	Yes	
5122044	9	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2016	--	Spring Street Relay	Yes	
5031893	1544	OBERLIN ST	Lead	Lead	PEX	Not Replaced	11/2/2016	--	Ops	Yes	
5079437	3034	SHADELAND AVE	Lead	Lead	PEX	Not Replaced	11/4/2016	--	Ops	Yes	
5060561	319	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	11/8/2016	--	Ops	Yes	
5039068	5858	BURCHFIELD AVE	Lead	Lead	PEX	Not Replaced	11/9/2016	--	Ops	Yes	
5061046	154	OLYMPIA ST	Lead	Lead	PEX	Not Replaced	11/9/2016	--	Ops	Yes	
5020507	5114	DUNCAN ST	Lead	Lead	Non-Lead	Not Replaced	11/14/2016	--	Upper Lawrenceville Relay	Yes	
5069372	2035	LAUTNER ST	Lead	Lead	PEX	Not Replaced	11/15/2016	--	Ops	Yes	
5061127	615	CHESS ST	Lead	Lead	PEX	Not Replaced	11/25/2016	--	Ops	Yes	
5061126	617	CHESS ST	Lead	Lead	PEX	Not Replaced	11/25/2016	--	Ops	Yes	
5072487	524	W BURGESS ST	Lead	Copper & Lead	PEX	Not Replaced	11/30/2016	--	Ops	Yes	
5056776	840	EXCELSIOR ST	Lead	Lead	PEX	Not Replaced	12/9/2016	--	Ops	Yes	
5050504	48	S 22ND ST	Lead	Lead	PEX	Not Replaced	12/12/2016	--	Ops	Yes	
5051711	2612	STELLA ST	Lead	Lead	PEX	Not Replaced	12/28/2016	--	Ops	Yes	
5077031	2613	BRIGHTON RD	Lead	Lead	PEX	Not Replaced	1/4/2017	--	Ops	Yes	
5052114	2702	BURHAM ST	Lead	Lead	PEX	Not Replaced	1/4/2017	--	Ops	Yes	
5029221	6517	DEARY ST	Lead	Lead	PEX	Not Replaced	1/5/2017	--	Ops	Yes	
5077296	1122	MARSHALL AVE	Lead	Lead	PEX	Not Replaced	1/6/2017	--	Ops	Yes	
5038945	2305	SHADY AVE	Lead	Lead	PEX	Not Replaced	1/20/2017	--	Ops	Yes	
5020446	606	S2ND ST	Lead	Lead	Non-Lead	Not Replaced	1/23/2017	--	Upper Lawrenceville Relay	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5058461	406	BELONDA ST	Lead	Lead	PEX	Copper	1/25/2017	4/19/2018	Ops/A02_02	Yes	
5065024	1404	LIVERPOOL ST	Lead	Lead	PEX	Not Replaced	1/26/2017	--	Ops	Yes	
5065023	1406	LIVERPOOL ST	Lead	Lead	PEX	Not Replaced	1/26/2017	--	Ops	Yes	
5054370	1707	JANE ST	Lead	Lead	PEX	Not Replaced	1/30/2017	--	Ops	Yes	
5055631	452	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	2/1/2017	--	Ops	Yes	
5060572	162	PLYMOUTH ST	Lead	Lead	PEX	Not Replaced	2/6/2017	--	Ops	Yes	
5060573	164	PLYMOUTH ST	Lead	Lead	PEX	Not Replaced	2/6/2017	--	Ops	Yes	
5036115	1444	SEVERN ST	Lead	Lead	PEX	Not Replaced	2/14/2017	--	Ops	Yes	
5040825	7000	MEADE PL	Lead	Lead	PEX	Not Replaced	2/15/2017	--	Ops	Yes	
5061458	283	PAUL ST	Lead	Lead	PEX	Not Replaced	2/15/2017	--	Ops	Yes	
5056847	905	EXCELSIOR ST	Lead	Lead	PEX	Not Replaced	2/17/2017	--	Ops	Yes	
5018462	4520	PLUMMER ST	Lead	Lead	PEX	Not Replaced	2/19/2017	--	Ops	Yes	
5080914	3707	ATKINS ST	Lead	Lead	PEX	Not Replaced	2/22/2017	--	Ops	Yes	
5050988	2337	CAREY WAY	Lead	Lead	PEX	Not Replaced	2/22/2017	--	Ops	Yes	
5067337	908	PERALTA ST	Lead	Lead	PEX	Not Replaced	2/22/2017	--	Ops	Yes	
5004773	514	CATO ST	Lead	Lead	PEX	Not Replaced	2/27/2017	--	Ops	Yes	
5002046	278	LOMBARD ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Ops	Yes	
5077766	1433	ORCHLEE ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Ops	Yes	
5068581	1815	RIALTO ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Ops	Yes	
5080479	1232	GOE AVE	Lead	Lead	PEX	Not Replaced	3/1/2017	--	Ops	Yes	
5017869	4617	CARROLL ST	Lead	Lead	PEX	Not Replaced	3/3/2017	--	Ops	Yes	
5008244	3015	PULAWSKI WAY	Lead	Lead	PEX	Not Replaced	3/3/2017	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5046133	4213	SHIELDS ST	Lead	Lead	PEX	Not Replaced	3/3/2017	--	Ops	Yes	
5043692	7421	BEN HUR ST	Lead	Lead	PEX	Not Replaced	3/4/2017	--	Ops	Yes	
5038527	6317	WALDRON ST	Lead	Lead	PEX	Not Replaced	3/8/2017	--	Ops	Yes	
5056478	101	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	3/9/2017	--	Ops/A01_03	Yes	
5029066	403 and 403.5	LARIMER AVE	Lead	Lead	Non-Lead	Not Replaced	3/9/2017	--	Larimer Ave Relay	Yes	
5043537	106	CARNEGIE PL	Lead	Lead	PEX	Not Replaced	3/11/2017	--	Ops	Yes	
5035480	1210	S NEGLEY AVE	Lead	Lead	PEX	Not Replaced	3/14/2017	--	Ops	Yes	
5028108	6739	STANTON AVE	Lead	Lead	PEX	Not Replaced	3/14/2017	--	Ops	Yes	
5073633	2941	PERRYSVILLE AVE	Lead	Lead	PEX	Not Replaced	3/15/2017	--	Ops	Yes	
5009447	3636	MINTWOOD ST	Lead	Lead	PEX	Not Replaced	3/21/2017	--	Ops	Yes	
5078162	3460	GASS AVE	Lead	Lead	PEX	Not Replaced	3/30/2017	--	Ops	Yes	
5044454	1118	LANCASTER AVE	Lead	Lead	PEX	Not Replaced	4/4/2017	--	Ops	Yes	
5038503	6316	WALDRON ST	Lead	Lead	PEX	Not Replaced	4/4/2017	--	Ops	Yes	
5076532	2925	SHADELAND AVE	Lead	Lead	PEX	Not Replaced	4/25/2017	--	Ops	Yes	
5001210	1125	PENN AVE	Lead	Lead	Non-Lead	Not Replaced	4/27/2017	--	Mullberry Way Relay	Yes	
5056479	97	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	5/1/2017	--	Ops	Yes	
5046500	4315	GLADSTONE ST	Lead	Lead	PEX	Not Replaced	5/4/2017	--	Ops	Yes	
5059117	17	GREENBUSH ST	Lead	Lead	PEX	Not Replaced	5/5/2017	--	Ops	Yes	
5032977	1400	N HOMEWOOD AVE	Lead	Lead	PEX	Not Replaced	5/5/2017	--	Ops	Yes	
5020316	5138	NATRONA WAY	Lead	Lead	PEX	Not Replaced	5/8/2017	--	Ops	Yes	
5042353	1750	BEECHWOOD BLVD	Lead	Lead	PEX	Not Replaced	5/9/2017	--	Ops	Yes	
5050961	2331	SARAH ST	Lead	Lead	PEX	Not Replaced	5/11/2017	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5005633	2916	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	5/12/2017	--	Ops	Yes	
5057012	314	MILLBRIDGE ST	Lead	Lead	PEX	Not Replaced	5/15/2017	--	Ops	Yes	
5037952	5407	GUARINO RD	Lead	Lead	PEX	Not Replaced	5/22/2017	--	Ops	Yes	Yes
5060815	402	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	6/2/2017	--	Ops	Yes	
5001227	1421	PENN AVE	Lead	Lead	PEX	Not Replaced	6/6/2017	--	Ops	Yes	
5054021	79	S 16TH ST	Lead	Lead	PEX	Not Replaced	6/15/2017	--	Ops	Yes	
5050232	32	EXETER ST	Lead	Lead	PEX	Not Replaced	6/19/2017	--	Ops	Yes	
5058934	300	PROSPECT ST	Lead	Lead	PEX	Copper	6/21/2017	5/2/2018	Ops/A02_02	Yes	
5018484	4521	BUTLER ST	Lead	Lead	PEX	Not Replaced	6/22/2017	--	Ops	Yes	
5065834	1226	MONTEREY ST	Lead	Lead	PEX	Not Replaced	6/22/2017	--	Ops	Yes	
5059261	235	DILWORTH ST	Lead	Lead	PEX	Not Replaced	7/10/2017	--	Ops	Yes	
5033349	7225	RACE ST	Lead	Lead	Plastic	Not Replaced	7/12/2017	--	Ops	Yes	
5018128	140	47TH ST	Lead	Lead	PEX	Not Replaced	7/14/2017	--	Ops	Yes	
5067719	1038	GOEHRING ST	Lead	Lead	PEX	Not Replaced	7/19/2017	--	Ops	Yes	
5081126	1128	HARVARD CIR	Lead	Lead	PEX	Not Replaced	7/19/2017	--	Ops	Yes	
5026918	709	N EUCLID AVE	Lead	Lead	Plastic	Not Replaced	7/24/2017	--	Ops	Yes	
5070737	215	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	7/27/2017	--	Ops	Yes	
5033361	7218	RACE ST	Lead	Lead	PEX	Not Replaced	7/27/2017	--	Ops	Yes	
5122671	920	HANSEN STREET	Lead	Lead	PEX	Not Replaced	8/7/2017	--	Ops	Yes	
5024563	414	N GRAHAM ST	Lead	Lead	PEX	Not Replaced	8/7/2017	--	Ops	Yes	
5007681	4415	SCHENLEY FARMS TER	Lead	Lead	PEX	Not Replaced	8/9/2017	--	Ops	Yes	
5068993	1418	CLAIM ST	Lead	Lead	PEX	Not Replaced	8/11/2017	--	Ops	Yes	

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5004354	3317	NIAGARA ST	Lead	Lead	PEX	Not Replaced	8/22/2017	--	Ops	Yes	
5031912	6939	CHAUCER ST	Lead	Lead	PEX	Not Replaced	8/23/2017	--	Ops	Yes	
5058900	110	WILBERT ST	Lead	Lead	PEX	Not Replaced	8/24/2017	--	Ops	Yes	
5060537	320	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	8/29/2017	--	Ops	Yes	
5045767	850	KENNEBEC ST	Lead	Lead	PEX	Not Replaced	8/30/2017	--	Ops	Yes	
5028089	1225	WINTERTON ST	Lead	Lead	PEX	Not Replaced	9/5/2017	--	Ops	Yes	
5080554	3719	MILLERTON AVE	Lead	Lead	PEX	Not Replaced	9/6/2017	--	Ops	Yes	
5048737	314	JOHNSTON AVE	Lead	Lead	PEX	Not Replaced	9/7/2017	--	Ops	Yes	
5025170	5575	HAMPTON ST	Lead	Lead	PEX	Not Replaced	9/12/2017	--	Ops	Yes	
5063711	815	MARENA ST	Lead	Lead	PEX	Not Replaced	9/12/2017	--	Ops	Yes	
5067576	1518	COMPROMISE ST	Lead	Lead	PEX	Not Replaced	9/14/2017	--	Ops	Yes	
5007358	748	BRYN MAWR RD	Lead	Lead	PEX	Copper	9/15/2017	6/19/2018	Ops	Yes	
5012191	330	HAILMAN ST	Lead	Lead	PEX	Not Replaced	9/15/2017	--	Ops	Yes	
5048772	425	MANSION ST	Lead	Lead	PEX	Not Replaced	9/16/2017	--	Ops	Yes	
5004432	3316	HARDIE WAY	Lead	Lead	PEX	Not Replaced	9/20/2017	--	Ops	Yes	
5048649	231	WINSTON ST	Lead	Lead	PEX	Not Replaced	9/25/2017	--	Ops	Yes	
5019680	5205	PENN AVE	Lead	Lead	PEX	Not Replaced	9/26/2017	--	Ops	Yes	
5019681	5207	PENN AVE	Lead	Lead	PEX	Not Replaced	9/26/2017	--	Ops	Yes	
5038336	5870	PHILLIPS AVE	Lead	Lead	PEX	Copper	9/27/2017	5/3/2018	Ops/A05_05	Yes	
5078151	3406	GASS AVE	Lead	Lead	PEX	Not Replaced	10/2/2017	--	Ops	Yes	
5075068	326	DUNLAP ST	Lead	Lead	PEX	Not Replaced	10/3/2017	--	Ops	Yes	
0	5730	HOWE ST	Lead	Lead	PEX	Not Replaced	10/4/2017	--	Ops	Yes	

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5052645	3227	JOSEPHINE ST	Lead	Lead	PEX	Not Replaced	10/4/2017	--	Ops	Yes	
5015932	166	42ND ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Ops	Yes	
5039537	2783	BEECHWOOD BLVD	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Ops	Yes	
5012400	5726	HOWE ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Ops	Yes	
5073253	1919	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	10/12/2017	--	Ops	Yes	
5055168	1913	ARLINGTON AVE	Lead	Lead	PEX	Not Replaced	10/13/2017	--	Ops	Yes	
5032578	7123	MOUNT VERNON ST	Lead	Lead	PEX	Not Replaced	10/13/2017	--	Ops	Yes	
5046586	356	BIGELOW ST	Lead	Lead	PEX	Not Replaced	10/14/2017	--	Ops	Yes	
5039111	2842	SHADY AVE	Lead	Lead	PEX	Not Replaced	10/16/2017	--	Ops	Yes	
5034123	7330	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/18/2017	--	Susquehanna Street Relay	Yes	
5054339	1710	SARAH ST	Lead	Lead	PEX	Not Replaced	10/19/2017	--	Ops	Yes	Yes
5022553	5419	BUTLER ST	Lead	Lead	PEX	Not Replaced	10/22/2017	--	Ops	Yes	
5054546	1915	JANE ST	Lead	Lead	PEX	Not Replaced	10/25/2017	--	Ops	Yes	
5033824	7230	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/25/2017	--	Susquehanna Street Relay	Yes	
5033808	7235	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/25/2017	--	Susquehanna Street Relay	Yes	
5033826	7238	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/26/2017	--	Susquehanna Street Relay	Yes	
5033827	7238 1/2	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/26/2017	--	Susquehanna Street Relay	Yes	
5043806	405	E END AVE	Lead	Lead	PEX	Not Replaced	10/30/2017	--	Ops	Yes	
5043807	407	E END AVE	Lead	Lead	PEX	Not Replaced	10/30/2017	--	Ops	Yes	
5003476	340	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	10/30/2017	--	Bouquet St Relay	Yes	
5003569	337	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	10/31/2017	--	Bouquet St Relay	Yes	
5033822	7226	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/31/2017	--	Susquehanna Street Relay	Yes	

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5003468	322	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2017	--	Bouquet St Relay	Yes	
5033813	7215	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2017	--	Susquehanna Street Relay	Yes	
5003570	335	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	11/2/2017	--	Bouquet St Relay	Yes	
5033819	7220	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	11/2/2017	--	Susquehanna Street Relay	Yes	
5033163	7122	IDLEWILD ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	
5022195	1200	JANCEY ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	
5045282	4119	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	
0	4121	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	
5046076	4122	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	
5021976	1201	JANCEY ST	Lead	Lead	PEX	Not Replaced	11/8/2017	--	Ops	Yes	
5030601	6731	FRANKSTOWN AVE	Lead	Lead	PEX	Not Replaced	11/9/2017	--	Ops	Yes	
5030600	6733	FRANKSTOWN AVE	Lead	Lead	PEX	Not Replaced	11/9/2017	--	Ops	Yes	
5060487	232	AUGUSTA ST	Lead	Lead	PEX	Not Replaced	11/14/2017	--	Ops	Yes	
5018368	164	45TH ST	Lead	Lead	PEX	Not Replaced	11/30/2017	--	Ops	Yes	
5080682	1710	MORRELL ST	Lead	Lead	PEX	Not Replaced	11/30/2017	--	Ops	Yes	
5030883	6939	CHURCHLAND ST	Lead	Lead	PEX	Not Replaced	12/3/2017	--	Ops	Yes	
5018968	5303	HILLCREST ST	Lead	Lead	PEX	Not Replaced	12/5/2017	--	Hillcrest GI	Yes	No
5016717	368	44TH ST	Lead	Lead	PEX	Not Replaced	12/7/2017	--	Ops	Yes	
5039496	6360	BURCHFIELD AVE	Lead	Lead	Copper	Not Replaced	12/7/2017	--	Ops	Yes	
5045332	4102	LYDIA ST	Lead	Lead	PEX	Not Replaced	12/7/2017	--	Ops	Yes	
5022270	1015	JANCEY ST	Lead	Lead	PEX	Not Replaced	12/13/2017	--	Ops	Yes	
5070809	1415	SANDUSKY ST	Lead	Lead	PEX	Not Replaced	12/14/2017	--	Ops	Yes	

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Pittsburgh Water and Sewer Authority
 Partial Replacements not Notified in Accordance with 25 Pa. Code § 109.1107(d)(4)(i)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5070810	1417	SANDUSKY ST	Lead	Lead	PEX	Not Replaced	12/14/2017	--	Ops	Yes	
5040328	6815	THOMAS BLVD	Lead	Lead	Non-Lead	Not Replaced	12/14/2017	--	Ops	Yes	
5028199	1126	WINTERTON ST	Lead	Lead	PEX	Not Replaced	12/17/2017	--	Ops	Yes	
5047723	255	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	12/19/2017	--	Ops	Yes	
5067335	910	PERALTA ST	Lead	Lead	PEX	Not Replaced	12/20/2017	--	Ops	Yes	
5051883	2112	SALISBURY ST	Lead	Lead	PEX	Not Replaced	12/20/2017	--	Ops	Yes	
5046050	4309	HALDANE ST	Lead	Lead	PEX	Not Replaced	12/21/2017	--	Ops	Yes	
5011967	5807	WALNUT ST	Lead	Lead	PEX	Not Replaced	12/21/2017	--	Ops	Yes	
5037482	5532	BARTLETT ST	Lead	Lead	PEX	Not Replaced	12/22/2017	--	Ops	Yes	
5080658	1823	MORRELL ST	Lead	Lead	PEX	Not Replaced	12/26/2017	--	Ops	Yes	
5035266	616	HASTINGS ST	Lead	Lead	PEX	Not Replaced	12/27/2017	--	Ops	Yes	
5071031	323	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	12/28/2017	--	Ops	Yes	
5016844	348	45TH ST	Lead	Lead	PEX	Not Replaced	1/4/2018	--	Ops	Yes	
5028966	6522	DEAN ST	Lead	Lead	PEX	Not Replaced	1/5/2018	--	Ops	Yes	
5056855	918	EUREKA ST	Lead	Lead	PEX	Not Replaced	1/6/2018	--	Ops	Yes	
5031462	7142	LEMINGTON AVE	Lead	Lead	PEX	Not Replaced	1/9/2018	--	Ops	Yes	
5010550	726	COPELAND ST	Lead	Lead	PEX	Not Replaced	1/12/2018	--	Ops	Yes	
5036470	5825	NORTHUMBERLAND ST	Lead	Lead	PEX	Not Replaced	1/12/2018	--	Ops	Yes	
5017527	4042	CABINET ST	Lead	Lead	PEX	Not Replaced	1/17/2018	--	Ops	Yes	
5064406	2109	HYENA WAY	Lead	Lead	PEX	Not Replaced	1/19/2018	--	Ops	Yes	
5060698	130	COHASSET ST	Lead	Lead	PEX	Not Replaced	1/20/2018	--	Ops	Yes	
5060693	142	COHASSET ST	Lead	Lead	PEX	Not Replaced	1/20/2018	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5004160	208	OPHELIA ST	Lead	Lead	PEX	Not Replaced	1/22/2018	--	Ops	Yes	
5056148	103	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	1/24/2018	--	Ops	Yes	
5056147	105	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	1/24/2018	--	Ops	Yes	
5122143	305	COLTON ST	Lead	Lead	Copper	Not Replaced	1/25/2018	--	Ops	Yes	
5068530	1911	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	1/26/2018	--	Ops	Yes	
5055162	1824	ST PATRICK ST	Lead	Lead	PEX	Not Replaced	1/29/2018	--	Ops	Yes	
5056025	351	KAMBACH ST	Lead	Lead	PEX	Not Replaced	2/1/2018	--	Ops	Yes	
5005451	2605	1/2 WEBSTER AVE	Lead	Lead	PEX	Not Replaced	2/7/2018	--	Ops	Yes	
5012968	4744	JUNIPER ST	Lead	Lead	PEX	Not Replaced	2/7/2018	--	Ops	Yes	
5076616	2819	BREKER ST	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Ops	Yes	
5058344	217	MAPLE TER	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Ops	Yes	
5031398	1330	OLIVANT ST	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Ops	Yes	
5056269	423	RUXTON ST	Lead	Lead	PEX	Copper	2/15/2018	7/30/2018 15:21	Ops	Yes	
5058658	158	VIRGINIA AVE	Lead	Lead	PEX	Not Replaced	2/18/2018	--	Ops	Yes	
5068708	1225	HASLAGE AVE	Lead	Lead	PEX	Not Replaced	2/19/2018	--	Ops	Yes	
5024783	1355	CORDOVA RD	Lead	Lead	PEX	Not Replaced	2/20/2018	--	Ops	Yes	
5031670	1302	OLIVANT ST	Lead	Lead	PEX	Not Replaced	2/21/2018	--	Ops	Yes	
5037478	5546	BARTLETT ST	Lead	Lead	PEX	Not Replaced	2/23/2018	--	Ops	Yes	
5013696	5324	CORAL ST	Lead	Lead	PEX	Not Replaced	2/23/2018	--	Ops	Yes	
5037870	5919	DOUGLAS ST	Lead	Lead	PEX	Not Replaced	2/23/2018	--	Ops	Yes	
5010057	5438	CLAYBOURNE ST	Lead	Lead	PEX	Not Replaced	2/26/2018	--	Ops	Yes	
5052367	2416	ECCLES ST	Lead	Lead	PEX	Not Replaced	2/26/2018	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5048257	5126	CHAPLAIN WAY	Lead	Lead	PEX	Not Replaced	2/28/2018	--	Ops	Yes	
5071030	325	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	3/6/2018	--	Ops	Yes	
5072912	6	MAUCH ST	Lead	Lead	PEX	Not Replaced	3/7/2018	--	Ops	Yes	
5056345	39	PASADENA ST	Lead	Lead	PEX	Copper	3/7/2018	7/3/2018 19:46	Ops	Yes	
5002842	221	DUNSEITH ST	Lead	Lead	PEX	Not Replaced	3/13/2018	--	Ops	Yes	
5024428	1627	CHISLETT ST	Lead	Lead	PEX	Not Replaced	3/14/2018	--	Ops	Yes	
5058008	302	BIGHAM ST	Lead	Lead	PEX	Not Replaced	3/15/2018	--	Ops	Yes	
5055934	11	BAILEY AVE	Lead	Lead	PEX	Not Replaced	3/19/2018	--	Ops	Yes	
5055179	1835	ARLINGTON AVE	Lead	Lead	PEX	Not Replaced	3/23/2018	--	Ops	Yes	
5028115	1212	N SHERIDAN AVE	Lead	Lead	Copper	Not Replaced	4/2/2018	--	Ops	Yes	
5060208	232	SEWARD ST	Lead	Lead	PEX	Not Replaced	4/2/2018	--	Ops	Yes	
5022305	917	CHISLETT ST	Lead	Lead	PEX	Not Replaced	4/3/2018	--	Ops	Yes	
5023270	1414	WOODBINE ST	Lead	Lead	PEX	Not Replaced	4/4/2018	--	Ops	Yes	
5014440	304	S FAIRMOUNT ST	Lead	Lead	Copper	Not Replaced	4/9/2018	--	Ops	Yes	
5044055	578	BRIAR CLIFF RD	Lead	Lead	PEX	Not Replaced	4/10/2018	--	Ops	Yes	
5013622	258	S WINEBIDDLE ST	Lead	Lead	PEX	Not Replaced	4/18/2018	--	Ops	Yes	
5067021	1007	SALTER WAY	Lead	Lead	PEX	Not Replaced	4/19/2018	--	Ops	Yes	
5011433	248	SPAHR ST	Lead	Lead	PEX	Not Replaced	4/20/2018	--	Ops	Yes	
5029236	6602	DEARY ST	Lead	Lead	PEX	Not Replaced	4/21/2018	--	Ops	Yes	
5049657	909	KENNEBEC ST	Lead	Lead	PEX	Not Replaced	4/25/2018	--	Ops	Yes	
5040476	6925	MCPHERSON BLVD	Lead	Lead	PEX	Not Replaced	5/1/2018	--	Ops	Yes	
5029730	541	LOWELL ST	Lead	Lead	PEX	Not Replaced	5/3/2018	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	WorkOrder	Partial	Coordination (Customer Replaced Private)
5029731	543	LOWELL ST	Lead	Lead	PEX	Not Replaced	5/3/2018	--	Ops	Yes	
5045333	4102	LYDIA ST	Lead	Lead	PEX	Not Replaced	5/9/2018	--	Ops	Yes	
5003097	137	CHESTERFIELD RD	Lead	Lead	Copper	Not Replaced	5/11/2018	--	Ops	Yes	
5048002	126	TIPTON ST	Lead	Lead	PEX	Not Replaced	5/11/2018	--	Ops	Yes	
5025804	5718	WELLESLEY AVE	Lead	Lead	PEX	Not Replaced	5/12/2018	--	Ops	Yes	
5016127	245	45TH ST	Lead	Lead	PEX	Not Replaced	5/14/2018	--	Ops	Yes	
5056355	60	PASADENA ST	Lead	Lead	PEX	Not Replaced	5/14/2018	--	Ops	Yes	
5042175	7419	BEN HUR ST	Lead	Lead	PEX	Not Replaced	5/24/2018	--	Ops	Yes	
5067866	1238	HIGH ST	Lead	Lead	PEX	Not Replaced	6/4/2018	--	Ops	Yes	No
5045561	626	BLANTON ST	Lead	Lead	PEX	Not Replaced	6/9/2018	--	Ops	Yes	
5028896	1244	ALBUM ST	Lead	Lead	PEX	Not Replaced	6/13/2018	--	Ops	Yes	
5038823	6309	ALDERSON ST	Lead	Lead	PEX	Not Replaced	6/20/2018	--	Ops	Yes	
5068531	1904	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	6/27/2018	--	Ops	Yes	
5023109	4429	STANTON AVE	Lead	Lead	PEX	<Null>	7/2/2018	--	Ops	Yes	
5122203	207	SIEGEL STREET	Lead	Lead	PEX	<Null>	7/17/2018	--	Ops	Yes	
5007397	928	BRYN MAWR RD	Lead	Lead	PEX	<Null>	7/26/2018	--	Ops	Yes	
5048886	57	ALMEDA ST	Lead	Lead	PEX	Not Replaced	8/7/2018	--	Ops	Yes	

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5047746	244	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	7/1/2016	--	Ops	Yes	--
5020086	5309	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/5/2016	--	Upper Lawrenceville Relay	Yes	--
5020839	4363	STANTON AVE	Lead	Lead	PEX	Not Replaced	7/6/2016	--	Ops	Yes	--
5020093	5323	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/8/2016	--	Upper Lawrenceville Relay	Yes	--
5077934	3521	SIMEN AVE	Lead	Copper	PEX	Not Replaced	7/11/2016	--	Ops	No	--
5078778	3522	SIMEN AVE	Lead	Lead	PEX	Not Replaced	7/11/2016	--	Ops	Yes	--
5017464	428	FSK ST	Lead	Lead	PEX	Not Replaced	7/12/2016	--	Ops	Yes	--
5020623	5329	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	--
5020622	5331	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	--
5020621	5333	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	--
5020620	5335	HOLMES ST	Lead	Lead	Non-Lead	Not Replaced	7/12/2016	--	Upper Lawrenceville Relay	Yes	--
5025811	921	N SAINT CLAIR ST	Lead	Lead	PEX	Not Replaced	7/12/2016	--	Ops	Yes	--
5013858	5432	PENN AVE	Lead	Copper	PEX	Not Replaced	7/12/2016	--	Ops	No	--
5069027	2100	STRAUBS LN	Lead	Lead	PEX	Not Replaced	7/13/2016	--	Ops	Yes	--
5048231	5120	LYTLE ST	Lead	Lead	PEX	Not Replaced	7/14/2016	--	Ops	Yes	--
5034946	5401	BARTLETT ST	Lead	Copper	PEX	Not Replaced	7/15/2016	--	Ops	No	--
5049970	935	DEELY ST	Lead	Copper	PEX	Not Replaced	7/15/2016	--	Ops	No	--
5028213	1012	WINTERTON ST	Lead	Lead	PEX	Not Replaced	7/18/2016	--	Ops	Yes	--
5046129	4221	SHIELDS ST	Lead	Lead	PEX	Not Replaced	7/19/2016	--	Ops	Yes	--
5048521	5264	2ND AVE	Lead	Lead	PEX	Not Replaced	7/21/2016	--	Ops	Yes	--
5003065	206	CHESTERFIELD RD	Lead	Lead	PEX	Not Replaced	7/21/2016	--	Ops	Yes	--
5020285	5108	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/25/2016	--	Upper Lawrenceville Relay	Yes	--
5020213	5109	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/25/2016	--	Upper Lawrenceville Relay	Yes	--
5048522	5266	2ND AVE	Lead	Lead	PEX	Not Replaced	7/26/2016	--	Ops	Yes	--
5049759	4038	MURRAY AVE	Lead	Unknown	PEX	Not Replaced	7/26/2016	--	Ops	Unknown	--
5020233	5131 1/2	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Upper Lawrenceville Relay	Yes	--
5020234	5133	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Upper Lawrenceville Relay	Yes	--
5020237	5135	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	7/27/2016	--	Upper Lawrenceville Relay	Yes	--
5039102	5858	MORROWFIELD AVE	Lead	Copper	PEX	Not Replaced	7/27/2016	--	Ops	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5040346	6730	THOMAS BLVD	Lead	Copper	PEX	Not Replaced	7/29/2016	--	Ops	No	--
5038973	2309	TILBURY AVE	Lead	Lead	PEX	Not Replaced	7/29/2016	--	Ops	Yes	--
5020268	5148	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/1/2016	--	Upper Lawrenceville Relay	Yes	--
5020267	5150	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/1/2016	--	Upper Lawrenceville Relay	Yes	--
5024629	5415	BROAD ST	Lead	Lead	PEX	Not Replaced	8/2/2016	--	Ops	Yes	--
5020263	5154	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/2/2016	--	Upper Lawrenceville Relay	Yes	--
5020261	5156	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/2/2016	--	Upper Lawrenceville Relay	Yes	--
5070381	512	ARMANDALE ST	Lead	Lead	PEX	Not Replaced	8/3/2016	--	Ops	Yes	--
5020257	5157	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/3/2016	--	Upper Lawrenceville Relay	Yes	--
5019695	5159	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/3/2016	--	Upper Lawrenceville Relay	Yes	--
5019696	5161 1/2	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Upper Lawrenceville Relay	Yes	--
5019697	5163	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Upper Lawrenceville Relay	Yes	--
5019691	5168	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/4/2016	--	Upper Lawrenceville Relay	Yes	--
5006770	525	MELWOOD AVE	Lead	Lead	PEX	Not Replaced	8/4/2016	--	Ops	Yes	--
5019700	5165	CARNEGIE ST	Lead	Lead	Non-Lead	Not Replaced	8/5/2016	--	Upper Lawrenceville Relay	Yes	--
5051908	2300	PRIMROSE ST	Lead	Lead	PEX	Not Replaced	8/5/2016	--	Ops	Yes	--
5075090	17	DUNLAP ST	Lead	Lead	PEX	Not Replaced	8/8/2016	--	Ops	Yes	--
5028480	6395	STANTON AVE	Lead	Lead	PEX	Not Replaced	8/8/2016	--	Ops	Yes	--
5072269	112	MAYWOOD ST	Lead	Copper	PEX	Not Replaced	8/9/2016	--	Ops	No	--
5068594	1635	WICKLINE LN	Lead	Copper	PEX	Not Replaced	8/11/2016	--	Ops	No	--
5004258	3103	NIAGARA ST	Lead	Lead	PEX	Not Replaced	8/12/2016	--	Ops	Yes	--
5004259	3105	NIAGARA ST	Lead	Unknown	PEX	Not Replaced	8/12/2016	--	Ops	No	Yes
5038345	5841	PHILLIPS AVE	Lead	Copper	PEX	Not Replaced	8/12/2016	--	Ops	No	--
5053844	1806	WHARTON ST	Lead	Copper	PEX	Not Replaced	8/15/2016	--	Ops	No	--
5052433	2810	SALISBURY ST	Lead	Lead	PEX	Not Replaced	8/16/2016	--	Ops	Yes	--
5055758	627	MCLAIN ST	Lead	Copper	PEX	Not Replaced	8/17/2016	--	Ops	No	--
5041493	7220	MEADE ST	Lead	Lead	PEX	Not Replaced	8/19/2016	--	Ops	Yes	--
5035370	5539	FAIR OAKS ST	Lead	Copper	PEX	Not Replaced	8/23/2016	--	Ops	No	--
5054441	1822	JANE ST	Lead	Copper	PEX	Not Replaced	8/25/2016	--	Ops	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5044460	1222	LANCASTER AVE	Lead	Lead	PEX	Not Replaced	8/25/2016	--	Ops	Yes	--
5036907	5878	AYLESBORG AVE	Lead	Copper	PEX	Not Replaced	8/26/2016	--	Ops	No	--
5078012	1619	FALCK AVE	Lead	Copper	PEX	Not Replaced	8/29/2016	--	Ops	No	--
5054927	28	MAGDALENA ST	Lead	Copper	PEX	Not Replaced	8/30/2016	--	Ops	No	--
5059590	125	TUSCOLA ST	Lead	Lead	PEX	Copper	8/30/2016	5/16/2018	Ops	Yes	--
5051624	7	HOLT ST	Lead	Lead	PEX	Not Replaced	9/1/2016	--	Ops	Yes	--
5012083	424	STRATTON LN	Lead	Plastic	PEX	Not Replaced	9/1/2016	--	Ops	No	--
5071007	1415	BUENA VISTA ST	Lead	Lead	PEX	Not Replaced	9/2/2016	--	Ops	Yes	--
5014723	517	S MATHILDA ST	Lead	Copper	PEX	Not Replaced	9/2/2016	--	Ops	No	--
5052381	2412	SALISBURY ST	Lead	Plastic	PEX	Not Replaced	9/3/2016	--	Ops	No	--
5068198	1106	GOETTMAN ST	Lead	Copper	PEX	Not Replaced	9/6/2016	--	Ops	No	--
5020612	5406	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/6/2016	--	Upper Lawrenceville Relay	Yes	--
5037581	5508	BEACON ST	Lead	Lead	PEX	Not Replaced	9/7/2016	--	Ops	Yes	--
5039309	6445	FORWARD AVE	Lead	Plastic	PEX	Not Replaced	9/7/2016	--	Ops	No	--
0	5418	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/7/2016	--	Upper Lawrenceville Relay	Yes	--
5072382	2329	HAZELTON ST	Lead	Lead	PEX	Not Replaced	9/8/2016	--	Ops	Yes	--
5050529	2118	SIDNEY ST	Lead	Copper	PEX	Not Replaced	9/8/2016	--	Ops	No	--
5072381	2331	HAZELTON ST	Lead	Lead	PEX	Not Replaced	9/9/2016	--	Ops	Yes	--
5034391	5301	BEELER ST	Lead	Copper	PEX	Not Replaced	9/13/2016	--	Ops	No	--
5028244	6522	JACKSON ST	Lead	Copper	PEX	Not Replaced	9/13/2016	--	Ops	No	--
5022986	5429	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/13/2016	--	Upper Lawrenceville Relay	Yes	--
5022995	5430	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/13/2016	--	Upper Lawrenceville Relay	Yes	--
5034962	719	SALINE ST	Lead	Lead	PEX	Not Replaced	9/13/2016	--	Ops	Yes	--
5055786	67	HANOVER ST	Lead	Lead	PEX	Not Replaced	9/14/2016	--	Ops	Yes	--
5022988	5431	KEYSTONE ST	Lead	Lead	Non-Lead	Not Replaced	9/14/2016	--	Upper Lawrenceville Relay	Yes	--
5040277	201	ELYSIAN ST	Lead	Lead	PEX	Not Replaced	9/15/2016	--	Ops	Yes	--
5012500	911	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	Yes	--
5012501	915	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	Yes	--
5012454	927	MARYLAND AVE	Lead	Lead	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5012453	929	MARYLAND AVE	Lead	Copper	Copper	Not Replaced	9/15/2016	--	Maryland Avenue Relay	No	--
5022990	5434	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	9/15/2016	--	Upper Lawrenceville Relay	Yes	--
5022994	5438	NATRONA WAY	Lead	Lead	Non-Lead	Not Replaced	9/15/2016	--	Upper Lawrenceville Relay	Yes	--
5058669	15	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	9/15/2016	--	Ops	No	--
5048269	208	W ELIZABETH ST	Lead	Lead	PEX	Not Replaced	9/15/2016	--	Ops	Yes	--
5072101	2510	MAPLE AVE	Lead	Lead	PEX	Not Replaced	9/16/2016	--	Ops	Yes	--
5047429	164	HAZELWOOD AVE	Lead	Plastic	PEX	Not Replaced	9/19/2016	--	Ops	No	--
5021564	4800	SOMERVILLE ST	Lead	Copper	PEX	Not Replaced	9/23/2016	--	Ops	No	--
5066064	212	W NORTH AVE	Lead	Lead	PEX	Not Replaced	9/25/2016	--	Ops	Yes	--
5028374	957	WELLESLEY RD	Lead	Plastic	PEX	Not Replaced	9/26/2016	--	Ops	No	--
5042063	6613	WOODWELL ST	Lead	Copper	PEX	Not Replaced	9/26/2016	--	Ops	No	Yes
5054869	136	PIUS ST	Lead	Copper	PEX	Not Replaced	9/27/2016	--	Ops	No	--
5051929	2420	BURHAM ST	Lead	Copper	PEX	Not Replaced	9/28/2016	--	Ops	No	--
5002450	269	N DITHRIDGE ST	Lead	PEX	PEX	Not Replaced	9/28/2016	--	Ops	No	--
5055463	2531	S 18TH STREET EXT	Lead	Copper	PEX	Not Replaced	9/29/2016	--	Ops	No	--
5074279	422	MALINE ST	Lead	Copper	PEX	Not Replaced	9/30/2016	--	Ops	No	--
5045900	104	BIGELOW ST	Lead	Copper	PEX	Not Replaced	10/1/2016	--	Ops	No	--
5018054	4838	HATFIELD ST	Lead	Plastic	PEX	Not Replaced	10/3/2016	--	Ops	No	--
5008514	3326	MELWOOD AVE	Lead	Lead	PEX	Not Replaced	10/3/2016	--	Ops	Yes	--
5055674	53	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	10/4/2016	--	Ops	Yes	--
5030140	541	ELMER L. WILLIAMS	Lead	Plastic	PEX	Not Replaced	10/4/2016	--	Ops	No	--
5006919	3352	MCNEIL PL	Lead	Lead	PEX	Copper	10/4/2016	5/17/2018	Ops	Yes	--
5036901	1544	SHADY AVE	Lead	Lead	PEX	Not Replaced	10/4/2016	--	Ops	Yes	--
5009888	5521	CLAYBOURNE ST	Lead	Copper	PEX	Not Replaced	10/5/2016	--	Ops	No	--
5003277	250	MEYRAN AVE	Lead	Lead	PEX	Not Replaced	10/5/2016	--	Ops	Yes	--
5050590	2406	SIDNEY ST	Lead	Copper	PEX	Not Replaced	10/5/2016	--	Ops	No	Yes
5027992	1375	HEBERTON ST	Lead	Copper	PEX	Not Replaced	10/6/2016	--	Ops	No	--
5049972	941	DEELY ST	Lead	Copper	PEX	Not Replaced	10/7/2016	--	Ops	No	--
5043651	200	E END AVE	Lead	Copper	PEX	Not Replaced	10/7/2016	--	Ops	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5062297	901	NEIDEL ST	Lead	Copper	PEX	Not Replaced	10/7/2016	--	Ops	No	--
5072639	2210	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	10/12/2016	--	Ops	No	--
5003081	209	CHESTERFIELD RD	Lead	Copper	PEX	Not Replaced	10/13/2016	--	Ops	No	--
5037103	5522	FORBES AVE	Lead	PEX	PEX	Not Replaced	10/13/2016	--	Ops	No	--
5053968	57	S 19TH ST	Lead	Copper	PEX	Not Replaced	10/13/2016	--	Ops	No	--
5079249	1032	GRAND AVE	Lead	Lead	PEX	Not Replaced	10/14/2016	--	Ops	Yes	--
5069342	2116	LAUTNER ST	Lead	Copper	PEX	Not Replaced	10/14/2016	--	Ops	No	--
5058370	334	AMABELL ST	Lead	Copper	PEX	Not Replaced	10/17/2016	--	Ops	No	--
5052257	1524	FERNLEAF ST	Lead	Copper	PEX	Not Replaced	10/17/2016	--	Ops	No	--
5048385	419	W ELIZABETH ST	Lead	Lead	PEX	Not Replaced	10/17/2016	--	Ops	Yes	--
5043576	219	CARNEGIE PL	Lead	Lead	PEX	Not Replaced	10/18/2016	--	Ops	Yes	--
5041028	413	GETTYSBURG ST	Lead	Lead	PEX	Not Replaced	10/18/2016	--	Ops	Yes	--
5025251	1148	PORTLAND ST	Lead	Copper	PEX	Not Replaced	10/18/2016	--	Ops	No	--
5047658	234	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	10/19/2016	--	Ops	Yes	--
5047747	242	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	10/19/2016	--	Ops	Yes	--
5051587	38	HOLT ST	Lead	Lead	PEX	Not Replaced	10/20/2016	--	Ops	Yes	--
5122045	10	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/20/2016	--	Spring Street Relay	Yes	--
5122047	12	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/20/2016	--	Spring Street Relay	Yes	--
5122043	8	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/20/2016	--	Spring Street Relay	Yes	--
5032416	7055	CHAUCER ST	Lead	Lead	PEX	Not Replaced	10/21/2016	--	Ops	Yes	--
5032417	7057	CHAUCER ST	Lead	Lead	PEX	Not Replaced	10/21/2016	--	Ops	Yes	--
5067809	38	IVES WAY	Lead	Copper	PEX	Not Replaced	10/24/2016	--	Ops	No	--
5018301	144	44TH ST	Lead	Copper	PEX	Not Replaced	10/25/2016	--	Ops	No	--
5052038	2310	PATTERSON ST	Lead	Lead	PEX	Not Replaced	10/25/2016	--	Ops	Yes	--
5064291	1005	ALLEGHENY AVE	Lead	Copper	PEX	Not Replaced	10/26/2016	--	Ops	No	--
5060493	302	AUGUSTA ST	Lead	Copper	PEX	Not Replaced	10/26/2016	--	Ops	No	Yes
0	5243B	DUNCAN ST	Lead	Lead	Non-Lead	Not Replaced	10/26/2016	--	Upper Lawrenceville Relay	Yes	--
5033373	7310	RACE ST	Lead	Copper	PEX	Not Replaced	10/26/2016	--	Ops	No	--
5122046	11	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	10/27/2016	--	Spring Street Relay	Yes	--

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5016836	330	45TH ST	Lead	Unknown	PEX	Not Replaced	10/28/2016	--	Ops	Unknown	--
5014735	4826	SCIOTA ST	Lead	Lead	PEX	Not Replaced	10/28/2016	--	Ops	Yes	--
5080719	1710	MARMADUKE ST	Lead	Lead	PEX	Not Replaced	10/31/2016	--	Ops	Yes	--
5054245	146	S 17TH ST	Lead	Lead	PEX	Not Replaced	10/31/2016	--	Ops	Yes	--
5031892	1542	OBERLIN ST	Lead	Lead	PEX	Not Replaced	11/1/2016	--	Ops	Yes	--
5122044	9	SPRING ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2016	--	Spring Street Relay	Yes	--
5069223	1818	NIGGEL ST	Lead	Copper	PEX	Not Replaced	11/2/2016	--	Ops	No	--
5031893	1544	OBERLIN ST	Lead	Lead	PEX	Not Replaced	11/2/2016	--	Ops	Yes	--
5079437	3034	SHADELAND AVE	Lead	Lead	PEX	Not Replaced	11/4/2016	--	Ops	Yes	--
5021218	5304	CAMELIA ST	Lead	Copper	PEX	Not Replaced	11/5/2016	--	Ops	No	--
5008455	329	HANCOCK ST	Lead	Plastic	PEX	Not Replaced	11/7/2016	--	Ops	No	--
5008456	331	HANCOCK ST	Lead	Plastic	PEX	Not Replaced	11/7/2016	--	Ops	No	--
5056391	69	HARWOOD ST	Lead	Copper	PEX	Not Replaced	11/7/2016	--	Ops	No	--
5040991	7147	MEADE ST	Lead	Copper	PEX	Not Replaced	11/8/2016	--	Ops	No	--
5060561	319	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	11/8/2016	--	Ops	Yes	--
5039068	5858	BURCHFIELD AVE	Lead	Lead	PEX	Not Replaced	11/9/2016	--	Ops	Yes	--
5061046	154	OLYMPIA ST	Lead	Lead	PEX	Not Replaced	11/9/2016	--	Ops	Yes	--
5020510	5115	POE WAY	Lead	Copper	Non-Lead	Not Replaced	11/10/2016	--	Upper Lawrenceville Relay	No	--
5020507	5114	DUNCAN ST	Lead	Lead	Non-Lead	Not Replaced	11/14/2016	--	Upper Lawrenceville Relay	Yes	--
5069372	2035	LAUTNER ST	Lead	Lead	PEX	Not Replaced	11/15/2016	--	Ops	Yes	--
5047901	5001	LANGHORN ST	Lead	Copper	PEX	Not Replaced	11/16/2016	--	Ops	No	--
5036930	1639	SHADY AVE	Lead	Plastic	PEX	Not Replaced	11/18/2016	--	Ops	No	--
5022421	5424	CARNEGIE ST	Lead	Plastic	PEX	Not Replaced	11/20/2016	--	Ops	No	--
5074204	2418	SPRING GARDEN AVE	Lead	Copper	PEX	Not Replaced	11/21/2016	--	Ops	No	--
5061127	615	CHESS ST	Lead	Lead	PEX	Not Replaced	11/25/2016	--	Ops	Yes	--
5061126	617	CHESS ST	Lead	Lead	PEX	Not Replaced	11/25/2016	--	Ops	Yes	--
5068272	1306	LOWRIE ST	Lead	Plastic	PEX	Not Replaced	11/28/2016	--	Ops	No	--
5015933	167	BANNER WAY	Lead	Plastic	PEX	Not Replaced	11/29/2016	--	Ops	No	--
5072487	524	W BURGESS ST	Lead	Copper & Lead	PEX	Not Replaced	11/30/2016	--	Ops	Yes	--

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5049801	3611	BEECHWOOD BLVD	Lead	Copper	PEX	Not Replaced	12/1/2016	--	Ops	No	--
5056978	606	INDUSTRY ST	Lead	Copper	PEX	Not Replaced	12/1/2016	--	Ops	No	--
5055236	1101	ST MARTIN ST	Lead	Copper	PEX	Not Replaced	12/5/2016	--	Ops	No	--
5015407	136	STRATFORD AVE	Lead	Copper	PEX	Not Replaced	12/5/2016	--	Ops	No	--
5123091	802	O'BRIEN STREET	Lead	Copper	PEX	Not Replaced	12/6/2016	--	Ops	No	--
5056776	840	EXCELSIOR ST	Lead	Lead	PEX	Not Replaced	12/9/2016	--	Ops	Yes	--
5050504	48	S 22ND ST	Lead	Lead	PEX	Not Replaced	12/12/2016	--	Ops	Yes	--
5062818	615	SEDAN WAY	Lead	Copper	PEX	Not Replaced	12/13/2016	--	Ops	No	--
5051711	2612	STELLA ST	Lead	Lead	PEX	Not Replaced	12/28/2016	--	Ops	Yes	--
5133150	6626	FOREST GLEN	Lead	Copper	PEX	Not Replaced	12/29/2016	--	Ops	No	--
5038566	2215	SHADY AVE	Lead	Copper	PEX	Not Replaced	1/3/2017	--	Ops	No	--
5077031	2613	BRIGHTON RD	Lead	Lead	PEX	Not Replaced	1/4/2017	--	Ops	Yes	--
5052114	2702	BURHAM ST	Lead	Lead	PEX	Not Replaced	1/4/2017	--	Ops	Yes	--
5029221	6517	DEARY ST	Lead	Lead	PEX	Not Replaced	1/5/2017	--	Ops	Yes	--
5077296	1122	MARSHALL AVE	Lead	Lead	PEX	Not Replaced	1/6/2017	--	Ops	Yes	--
5068188	1120	BRABEC ST	Lead	Copper	PEX	Not Replaced	1/10/2017	--	Ops	No	--
5072595	220	CUTLER ST	Lead	Copper	PEX	Not Replaced	1/11/2017	--	Ops	No	--
5051314	2808	SARAH ST	Lead	Copper	PEX	Not Replaced	1/12/2017	--	Ops	No	--
5061058	157	OLYMPIA ST	Lead	Copper	PEX	Not Replaced	1/17/2017	--	Ops	No	--
5079436	3032	SHADELAND AVE	Lead	Copper	PEX	Not Replaced	1/17/2017	--	Ops	No	--
5055142	1731	MARCUS WAY	Lead	Galvanized Steel	PEX	Not Replaced	1/18/2017	--	Ops	No	--
500682	55	MILTENBERGER ST	Lead	Plastic	PEX	Not Replaced	1/18/2017	--	Ops	No	--
5057646	72	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	1/19/2017	--	Ops	No	--
5038945	2305	SHADY AVE	Lead	Lead	PEX	Not Replaced	1/20/2017	--	Ops	Yes	--
5026336	724	N SAINT CLAIR ST	Lead	Copper	PEX	Not Replaced	1/21/2017	--	Ops	No	--
5020446	606	S2ND ST	Lead	Lead	Non-Lead	Not Replaced	1/23/2017	--	Upper Lawrenceville Relay	Yes	--
5058805	480	BELONDA ST	Lead	Copper	PEX	Not Replaced	1/24/2017	--	Ops	No	Yes
5058461	406	BELONDA ST	Lead	Lead	PEX	Copper	1/25/2017	4/19/2018	Ops/A02_O2	Yes	--
5065024	1404	LIVERPOOL ST	Lead	Lead	PEX	Not Replaced	1/26/2017	--	Ops	Yes	--

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5065023	1406	LIVERPOOL ST	Lead	Lead	PEX	Not Replaced	1/26/2017	--	Ops	Yes	--
5124441	6555	SHETLAND	Lead	Copper	PEX	Not Replaced	1/28/2017	--	Ops	No	--
5003689	231	HALKET ST	Lead	Plastic	PEX	Not Replaced	1/29/2017	--	Ops	No	--
5054370	1707	JANE ST	Lead	Lead	PEX	Not Replaced	1/30/2017	--	Ops	Yes	--
5078067	3437	SIPE ST	Lead	Copper	PEX	Not Replaced	1/31/2017	--	Ops	No	--
5055631	452	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	2/1/2017	--	Ops	Yes	--
5069820	1910	N CHARLES ST	Lead	Copper	PEX	Not Replaced	2/1/2017	--	Ops	No	--
5045538	617	MINNESOTA ST	Lead	Copper	PEX	Not Replaced	2/3/2017	--	Ops	No	--
5030176	6540	LLEWELLYN PL	Lead	Copper	PEX	Not Replaced	2/4/2017	--	Ops	No	--
5070691	1518	ARCH ST	Lead	Copper	PEX	Not Replaced	2/6/2017	--	Ops	No	--
5060572	162	PLYMOUTH ST	Lead	Lead	PEX	Not Replaced	2/6/2017	--	Ops	Yes	--
5060573	164	PLYMOUTH ST	Lead	Lead	PEX	Not Replaced	2/6/2017	--	Ops	Yes	--
5072214	33	KENWOOD AVE	Lead	Copper	PEX	Not Replaced	2/8/2017	--	Ops	No	--
5066194	1309	BOYLE ST	Lead	Copper	PEX	Not Replaced	2/9/2017	--	Ops	No	--
5066193	1311	BOYLE ST	Lead	Copper	PEX	Not Replaced	2/9/2017	--	Ops	No	--
5076187	1426	FORSYTHE ST	Lead	Copper	PEX	Not Replaced	2/10/2017	--	Ops	No	--
5035562	918	HASTINGS ST	Lead	Copper	PEX	Not Replaced	2/14/2017	--	Ops	No	--
5036115	1444	SEVERN ST	Lead	Lead	PEX	Not Replaced	2/14/2017	--	Ops	Yes	--
5040825	7000	MEADE PL	Lead	Lead	PEX	Not Replaced	2/15/2017	--	Ops	Yes	--
5061458	283	PAUL ST	Lead	Lead	PEX	Not Replaced	2/15/2017	--	Ops	Yes	--
5056847	905	EXCELSIOR ST	Lead	Lead	PEX	Not Replaced	2/17/2017	--	Ops	Yes	--
5018462	4520	PLUMMER ST	Lead	Lead	PEX	Not Replaced	2/19/2017	--	Ops	Yes	--
5065442	919	GALVESTON AVE	Lead	Copper	PEX	Not Replaced	2/21/2017	--	Ops	No	--
5080914	3707	ATKINS ST	Lead	Lead	PEX	Not Replaced	2/22/2017	--	Ops	Yes	--
5050988	2337	CAREY WAY	Lead	Lead	PEX	Not Replaced	2/22/2017	--	Ops	Yes	--
5067337	908	PERALTA ST	Lead	Lead	PEX	Not Replaced	2/22/2017	--	Ops	Yes	--
5077695	3650	CALIFORNIA AVE	Lead	Copper	PEX	Not Replaced	2/24/2017	--	Ops	No	--
5010934	5226	WESTMINSTER PL	Lead	Copper	PEX	Not Replaced	2/24/2017	--	Ops	No	--
5004773	514	CATO ST	Lead	Lead	PEX	Not Replaced	2/27/2017	--	Ops	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5002046	278	LOMBARD ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Ops	Yes	--
5077766	1433	ORCHLEE ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Ops	Yes	--
5068581	1815	RIALTO ST	Lead	Lead	PEX	Not Replaced	2/28/2017	--	Ops	Yes	--
5080479	1232	GOE AVE	Lead	Lead	PEX	Not Replaced	3/1/2017	--	Ops	Yes	--
5034135	7503	TIOGA ST	Lead	Copper	PEX	Not Replaced	3/1/2017	--	Ops	No	--
5029534	404	LARIMER AVE	Lead	Copper	Non-Lead	Not Replaced	3/2/2017	--	Larimer Ave Relay	No	--
5017869	4617	CARROLL ST	Lead	Lead	PEX	Not Replaced	3/3/2017	--	Ops	Yes	--
5029535	406	LARIMER AVE	Lead	Copper	Non-Lead	Not Replaced	3/3/2017	--	Larimer Ave Relay	No	--
5029536	408	LARIMER AVE	Lead	Copper	Non-Lead	Not Replaced	3/3/2017	--	Larimer Ave Relay	No	--
5008244	3015	PULAWSKI WAY	Lead	Lead	PEX	Not Replaced	3/3/2017	--	Ops	Yes	--
5046133	4213	SHIELDS ST	Lead	Lead	PEX	Not Replaced	3/3/2017	--	Ops	Yes	--
5043692	7421	BEN HUR ST	Lead	Lead	PEX	Not Replaced	3/4/2017	--	Ops	Yes	--
5056456	431	KINGSBORO ST	Lead	Copper	PEX	Not Replaced	3/8/2017	--	Ops	No	--
5038527	6317	WALDRON ST	Lead	Lead	PEX	Not Replaced	3/9/2017	--	Ops	Yes	--
5056478	101	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	3/9/2017	--	Ops/A01_03	Yes	--
5057576	109	HABERMAN AVE	Lead	Copper	PEX	Not Replaced	3/9/2017	--	Ops	No	--
5029066	403 and 403.5	LARIMER AVE	Lead	Lead	Non-Lead	Not Replaced	3/9/2017	--	Larimer Ave Relay	Yes	--
5025051	1422	N EUCLID AVE	Lead	Copper	PEX	Not Replaced	3/10/2017	--	Ops	No	--
5043537	106	CARNEGIE PL	Lead	Lead	PEX	Not Replaced	3/11/2017	--	Ops	Yes	--
5073788	2909	PERRYSVILLE AVE	Lead	Galvanized Steel	PEX	Not Replaced	3/14/2017	--	Ops	No	--
5035480	1210	S NEGLEY AVE	Lead	Lead	PEX	Not Replaced	3/14/2017	--	Ops	Yes	--
5028108	6739	STANTON AVE	Lead	Lead	PEX	Not Replaced	3/14/2017	--	Ops	Yes	--
5073633	2941	PERRYSVILLE AVE	Lead	Lead	PEX	Not Replaced	3/15/2017	--	Ops	Yes	--
5038310	5823	NICHOLSON ST	Lead	Copper	PEX	Not Replaced	3/17/2017	--	Ops/A05_05	No	--
5035271	617	GETTYSBURG ST	Lead	Copper	PEX	Not Replaced	3/18/2017	--	Ops	No	Yes
5014559	4770	CYPRESS ST	Lead	Copper	PEX	Not Replaced	3/20/2017	--	Ops	No	--
5009446	3634	MINTWOOD ST	Lead	Copper	PEX	Not Replaced	3/21/2017	--	Ops	No	--
5009447	3636	MINTWOOD ST	Lead	Lead	PEX	Not Replaced	3/21/2017	--	Ops	Yes	--
5000559	1707	TUSTIN ST	Lead	Plastic	PEX	Not Replaced	3/21/2017	--	Ops	No	--

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5038255	2308	ELDRIDGE ST	Lead	Plastic	PEX	Not Replaced	3/23/2017	--	Ops	No	--
5064524	1442	NIXON ST	Lead	Copper	PEX	Not Replaced	3/23/2017	--	Ops	No	--
5037795	5858	BEACON ST	Lead	Copper	PEX	Not Replaced	3/26/2017	--	Ops	No	--
5064819	1310	LIVERPOOL ST	Lead	Copper	PEX	Not Replaced	3/27/2017	--	Ops	No	--
5078162	3460	GASS AVE	Lead	Lead	PEX	Not Replaced	3/30/2017	--	Ops	Yes	--
5005603	646	HOLLACE ST	Lead	Copper	PEX	Not Replaced	3/30/2017	--	Ops	No	--
5041986	6630	RIDGEVILLE ST	Lead	NoN-Lead	PEX	Not Replaced	3/31/2017	--	Ops	No	--
5044454	1118	LANCASTER AVE	Lead	Lead	PEX	Not Replaced	4/4/2017	--	Ops	Yes	--
5038503	6316	WALDRON ST	Lead	Lead	PEX	Not Replaced	4/4/2017	--	Ops	Yes	--
5041140	404	S LINDEN AVE	Lead	Copper	PEX	Not Replaced	4/5/2017	--	Ops	No	Yes
5037605	1942	WIGHTMAN ST	Lead	Unknown	PEX	Not Replaced	4/5/2017	--	Ops	Unknown	--
5076479	1335	OAKHILL ST	Lead	Copper	PEX	Not Replaced	4/12/2017	--	Ops	No	--
5006876	3382	WEBSTER AVE	Lead	Copper	PEX	Not Replaced	4/12/2017	--	Ops	No	--
5070723	101	JACKSONIA ST	Lead	Copper	PEX	Not Replaced	4/17/2017	--	Ops	No	--
5042100	6612	KINSMAN RD	Lead	Plastic	PEX	Not Replaced	4/20/2017	--	Ops	No	--
5035234	1143	SHADY AVE	Lead	NoN-Lead	PEX	Not Replaced	4/20/2017	--	Ops	No	--
5039036	2330	TILBURY AVE	Lead	Copper	PEX	Not Replaced	4/20/2017	--	Ops	No	Yes
5028688	670	LENORA ST	Lead	Plastic	PEX	Not Replaced	4/22/2017	--	Ops	No	--
5076532	2925	SHADELAND AVE	Lead	Lead	PEX	Not Replaced	4/25/2017	--	Ops	Yes	--
5059287	121	DILWORTH ST	Lead	PEX	PEX	Not Replaced	4/26/2017	--	Ops	No	--
5001210	1125	PENN AVE	Lead	Lead	NoN-Lead	Not Replaced	4/27/2017	--	Mulberry Way Relay	Yes	--
5132898	5520	BLACK	Lead	Plastic	PEX	Not Replaced	4/30/2017	--	Ops	No	--
5026634	5522	BLACK ST	Lead	Plastic	PEX	Not Replaced	4/30/2017	--	Ops	No	--
5056479	97	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	5/1/2017	--	Ops	Yes	--
5037668	5702	BEACON ST	Lead	Copper	Copper	Not Replaced	5/3/2017	--	Ops	No	Yes
5045172	9	BIGELOW ST	Lead	Copper	PEX	Not Replaced	5/4/2017	--	Ops	No	--
5024757	5460	BROAD ST	Lead	Copper	PEX	Not Replaced	5/4/2017	--	Ops	No	--
5046500	4315	GLADSTONE ST	Lead	Lead	PEX	Not Replaced	5/4/2017	--	Ops	Yes	--
5059117	17	GREENBUSH ST	Lead	Lead	PEX	Not Replaced	5/5/2017	--	Ops	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5032977	1400	N HOMEWOOD AVE	Lead	Lead	PEX	Not Replaced	5/5/2017	--	Ops	Yes	--
5041891	204	S LEXINGTON AVE	Lead	Copper	PEX	Not Replaced	5/5/2017	--	Ops	No	--
5020316	5138	NATRONA WAY	Lead	Lead	PEX	Not Replaced	5/8/2017	--	Ops	Yes	--
5068018	1522	VALENTINE ST	Lead	Copper	PEX	Not Replaced	5/8/2017	--	Ops	No	--
5042353	1750	BEECHWOOD BLVD	Lead	Lead	PEX	Not Replaced	5/9/2017	--	Ops	Yes	--
5056127	45	RUTH ST	Lead	Lead	PEX	Not Replaced	5/10/2017	--	A01_03	Yes	--
5059557	48	RUTH ST	Lead	Lead	PEX	Copper	5/10/2017	5/24/2018	A01_03	Yes	--
5003076	219	CHESTERFIELD RD	Lead	Plastic	PEX	Not Replaced	5/11/2017	--	Ops	No	--
5056126	49	RUTH ST	Lead	Lead	PEX	Not Replaced	5/11/2017	--	A01_03	Yes	--
5059558	50	RUTH ST	Lead	Copper	PEX	Not Replaced	5/11/2017	--	A01_03	No	--
5056124	53	RUTH ST	Lead	Lead	PEX	Copper	5/11/2017	5/11/2018	A01_03	Yes	--
5059658	64	RUTH ST	Lead	Lead	PEX	Copper	5/11/2017	5/9/2018	A01_03	Yes	--
5056118	65	RUTH ST	Lead	Copper	PEX	Not Replaced	5/11/2017	--	A01_03	No	--
5056114	71	RUTH ST	Lead	Copper	PEX	Not Replaced	5/11/2017	--	A01_03	No	--
5050960	2329	SARAH ST	Lead	Copper	PEX	Not Replaced	5/11/2017	--	Ops	No	--
5050961	2331	SARAH ST	Lead	Lead	PEX	Not Replaced	5/11/2017	--	Ops	Yes	--
5005633	2916	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	5/12/2017	--	Ops	Yes	--
5057012	314	MILLBRIDGE ST	Lead	Lead	PEX	Not Replaced	5/15/2017	--	Ops	Yes	--
5056125	51	RUTH ST	Lead	Lead	PEX	Not Replaced	5/15/2017	--	A01_03	Yes	--
5059560	54	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	5/15/2018	A01_03	Yes	--
5056123	55	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	5/15/2018	A01_03	Yes	--
5056113	73	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	6/16/2018	A01_03	Yes	--
5056111	77	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	5/10/2018	A01_03	Yes	--
5056110	79	RUTH ST	Lead	Lead	PEX	Copper	5/15/2017	5/10/2018	A01_03	Yes	--
5058601	219	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/16/2017	--	A02_02	Yes	--
5058588	222	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/16/2017	--	A02_02	Yes	--
5058599	223	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/16/2017	--	A02_02	Yes	--
5058604	31	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/16/2017	--	A02_02	Yes	--
5058598	43	NATCHEZ ST	Lead	Lead	PEX	Copper	5/16/2017	5/1/2018	A02_02	Yes	--

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5061522	148	RUTH ST	Lead	Lead	PEX	Not Replaced	5/16/2017	--	A01_03	Yes	--
5059649	94	RUTH ST	Lead	Lead	PEX	Copper	5/16/2017	5/8/2018	A01_03	Yes	--
5059648	98	RUTH ST	Lead	Copper	PEX	Not Replaced	5/16/2017	--	A01_03	No	--
5058523	307	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/17/2017	--	A02_02	Yes	--
5058522	309	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/17/2017	--	A02_02	Yes	--
5058521	313	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/17/2017	--	A02_02	Yes	--
5059647	100	RUTH ST	Lead	Lead	PEX	Copper	5/17/2017	5/9/2018	A01_03	Yes	--
5059645	104	RUTH ST	Lead	Lead	PEX	Copper	5/17/2017	5/9/2018	A01_03	Yes	--
5061501	112	RUTH ST	Lead	Lead	PEX	Copper	5/17/2017	6/6/2018	A01_03	Yes	--
5061518	140	RUTH ST	Lead	Copper	PEX	Not Replaced	5/17/2017	--	A01_03	No	--
5061520	144	RUTH ST	Lead	Lead	PEX	Copper	5/17/2017	6/13/2018	A01_03	Yes	--
5061521	146	RUTH ST	Lead	Lead	PEX	Not Replaced	5/17/2017	--	A01_03	Yes	--
5028250	6534	JACKSON ST	Lead	Copper	PEX	Not Replaced	5/18/2017	--	Ops	No	--
5058606	27	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/18/2017	--	A02_02	Yes	--
5058524	305	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/18/2017	--	A02_02	Yes	--
5058507	316	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/18/2017	--	A02_02	Yes	--
5061503	116	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	5/14/2018	A01_03	Yes	--
5061504	120	RUTH ST	Lead	Copper	PEX	Not Replaced	5/18/2017	--	A01_03	No	--
5061505	122	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	6/14/2018	A01_03	Yes	--
5061508	128	RUTH ST	Lead	Copper	PEX	Not Replaced	5/18/2017	--	A01_03	No	--
5061510	132	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	5/8/2018	A01_03	Yes	--
5061517	138	RUTH ST	Lead	Lead	PEX	Copper	5/18/2017	5/8/2018	A01_03	Yes	--
5057756	113	LABELLE ST	Lead	Copper	PEX	Not Replaced	5/19/2017	--	Ops	No	Yes
5058508	318	NATCHEZ ST	Lead	Lead	Copper	Not Replaced	5/19/2017	--	A02_02	Yes	--
5058510	322	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/19/2017	--	A02_02	Yes	Yes
5058511	326	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/19/2017	--	A02_02	Yes	--
5058515	331	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/19/2017	--	A02_02	Yes	Yes
5074577	29	DEFOE ST	Lead	Copper	PEX	Not Replaced	5/22/2017	--	Ops	No	--
5037952	5407	GUARINO RD	Lead	Lead	PEX	Not Replaced	5/22/2017	--	Ops	Yes	Yes

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5058924	405	NATCHEZ ST	Lead	Lead	PEX	Copper	5/22/2017	6/8/2018	A02_02	Yes	--
5058829	432	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/23/2017	--	A02_02	Yes	--
5061506	124	RUTH ST	Lead	Copper	PEX	Not Replaced	5/23/2017	--	A01_03	No	--
5059194	75	WYOMING ST	Lead	Copper	PEX	Not Replaced	5/23/2017	--	Ops	No	--
5058828	430	NATCHEZ ST	Lead	Lead	PEX	Copper	5/23/2017	4/19/2018	A02_02	Yes	--
5058830	438	NATCHEZ ST	Lead	Lead	PEX	Copper	5/23/2017	4/26/2018	A02_02	Yes	--
5059568	126	TUSCOLA ST	Lead	Lead	PEX	Not Replaced	5/23/2017	--	A01_03	Yes	--
5059589	127	TUSCOLA ST	Lead	Lead	PEX	Copper	5/23/2017	6/2/2018	A01_03	Yes	--
5059569	128	TUSCOLA ST	Lead	Copper	PEX	Not Replaced	5/23/2017	--	A01_03	No	--
5004367	3430	WARD ST	Lead	Copper	PEX	Not Replaced	5/23/2017	--	Ops	No	--
5037199	5605	DARLINGTON RD	Lead	Lead	PEX	Not Replaced	5/24/2017	--	E5_01	Yes	--
5042371	6511	DARLINGTON RD	Lead	Lead	PEX	Not Replaced	5/24/2017	--	E5_01	Yes	--
5042383	6538	DARLINGTON RD	Lead	Lead	PEX	Not Replaced	5/24/2017	--	E5_01	Yes	--
5077450	2340	MANNHEIM ST	Lead	Copper	PEX	Not Replaced	5/24/2017	--	Ops	No	--
5058590	216	NATCHEZ ST	Lead	Copper	PEX	Not Replaced	5/24/2017	--	A02_02	No	--
5058908	447	NATCHEZ ST	Lead	Lead	PEX	Not Replaced	5/24/2017	--	A02_02	Yes	--
5058925	216	PROSPECT ST	Lead	Copper	PEX	Not Replaced	5/24/2017	--	A02_02	No	--
5059566	122	TUSCOLA ST	Lead	Copper	PEX	Not Replaced	5/24/2017	--	A01_03	No	--
5059591	123	TUSCOLA ST	Lead	Lead	PEX	Copper	5/24/2017	5/16/2018	A01_03	Yes	--
5039231	6357	ALDERSON ST	Lead	Lead	PEX	Not Replaced	5/25/2017	--	E5_01	Yes	--
5058827	428	NATCHEZ ST	Lead	Lead	PEX	Copper	5/25/2017	4/18/2018	A02_02	Yes	--
5058907	453	NATCHEZ ST	Lead	Lead	PEX	Copper	5/25/2017	4/24/2018	A02_02	No	--
5058529	210	PROSPECT ST	Lead	Lead	PEX	Copper	5/25/2017	5/1/2018	A02_02	Yes	--
5058926	222	PROSPECT ST	Lead	Lead	PEX	Copper	5/25/2017	5/1/2018	A02_02	Yes	--
5059563	112	TUSCOLA ST	Lead	Lead	PEX	Copper	5/25/2017	5/14/2018	A01_03	Yes	--
5059564	116	TUSCOLA ST	Lead	Lead	PEX	Not Replaced	5/25/2017	--	A01_03	Yes	--
5059565	118	TUSCOLA ST	Lead	Lead	PEX	Copper	5/25/2017	5/17/2018	A01_03	Yes	--
5058834	450	NATCHEZ ST	Lead	Copper	PEX	Not Replaced	5/26/2017	--	A02_02	No	--
5058928	226	PROSPECT ST	Lead	Lead	PEX	Not Replaced	5/26/2017	--	A02_02	Yes	--

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5057702	412	EDGEMONT ST	Lead	Copper	PEX	Not Replaced	5/27/2017	--	A01_03	No	--
5036838	5856	AYLESBORO AVE	Lead	Copper	PEX	Not Replaced	5/30/2017	--	E5_01	No	--
5058930	234	PROSPECT ST	Lead	Lead	PEX	Not Replaced	5/30/2017	--	A02_02	Yes	--
5059561	56	RUTH ST	Lead	Lead	PEX	Copper	5/30/2017	5/11/2018	A01_03	Yes	--
5036043	1317	SHADY AVE	Lead	Copper	PEX	Not Replaced	5/30/2017	--	Ops	No	Yes
5037031	5535	BARTLETT ST	Lead	Lead	PEX	Not Replaced	5/31/2017	--	E5_01	Yes	--
5018105	142	HOME ST	Lead	Copper	PEX	Not Replaced	5/31/2017	--	Ops	No	--
5018108	148	HOME ST	Lead	Copper	PEX	Not Replaced	5/31/2017	--	Ops	No	--
5059027	253	PROSPECT ST	Lead	Lead	PEX	Copper	5/31/2017	4/30/2018	A02_02	Yes	--
5059026	255	PROSPECT ST	Lead	Lead	PEX	Copper	5/31/2017	5/1/2018	A02_02	Yes	--
5059025	257	PROSPECT ST	Lead	Lead	PEX	Not Replaced	6/1/2017	--	A02_02	Yes	--
5049684	1038	WELFER ST	Lead	Copper	PEX	Not Replaced	6/1/2017	--	Ops	No	--
5024839	5505	BEVERLY PL	Lead	Copper	PEX	Not Replaced	6/2/2017	--	E5_01	No	--
5122587	1029	EVERGREEN AVENUE	Lead	Unknown	PEX	Not Replaced	6/2/2017	--	Ops	Unknown	--
5058891	511	NATCHEZ ST	Lead	Lead	PEX	Copper	6/2/2017	5/8/2018	A02_02	Yes	--
5058527	214	PROSPECT ST	Lead	Copper	PEX	Not Replaced	6/2/2017	--	A02_02	No	--
5060815	402	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	6/2/2017	--	Ops	Yes	--
0	161	1st Ave	Lead	Unknown	PEX	Not Replaced	6/6/2017	--	Ops	Yes	No
5001227	1421	PENN AVE	Lead	Lead	PEX	Not Replaced	6/6/2017	--	Ops	Yes	--
5035466	1141	WIGHTMAN ST	Lead	Copper	PEX	Not Replaced	6/7/2017	--	Ops	No	Yes
5010807	5035	CASTLEMAN ST	Lead	NoN-Lead	PEX	Not Replaced	6/8/2017	--	Ops	No	--
5057730	422	KINGSBORO ST	Lead	Copper	PEX	Not Replaced	6/8/2017	--	A01_03	No	--
5067259	839	PERALTA ST	Lead	PEX	PEX	Not Replaced	6/8/2017	--	Ops	No	Yes
5068761	1704	HUNNELL ST	Lead	Copper	PEX	Not Replaced	6/9/2017	--	Ops	No	Yes
5010485	700	SARKEN AVE	Lead	Copper	PEX	Not Replaced	6/11/2017	--	Ops	No	Yes
5058496	315	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/12/2017	--	A02_02	No	--
5057719	400	KINGSBORO ST	Lead	Copper	PEX	Not Replaced	6/12/2017	--	A01_03	No	--
5057720	402	KINGSBORO ST	Lead	Copper	PEX	Not Replaced	6/12/2017	--	A01_03	No	--
5068096	1209	SPRING GARDEN AVE	Lead	Unknown	PEX	Terminated	6/12/2017	--	Ops	No	--

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5058492	316	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/13/2017	--	A02_02	No	--
5058493	323	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/13/2017	--	A02_02	No	--
5058848	219	WILBERT ST	Lead	Copper	PEX	Not Replaced	6/13/2017	--	A02_02	No	--
5058442	330	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/14/2017	--	A02_02	No	--
5058851	229	WILBERT ST	Lead	Copper	Copper	Not Replaced	6/14/2017	--	A02_02	No	--
5016825	333	44TH ST	Lead	Plastic	PEX	Not Replaced	6/15/2017	--	Ops	No	--
5058443	332	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/15/2017	--	A02_02	No	--
5056334	30	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/15/2017	--	A01_03	No	--
5056333	32	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/15/2017	--	A01_03	No	--
5056332	34	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/15/2017	--	A01_03	No	--
5054021	79	S 16TH ST	Lead	Lead	PEX	Not Replaced	6/15/2017	--	Ops	Yes	--
5013867	123	S GRAHAM ST	Lead	Copper	PEX	Not Replaced	6/15/2017	--	Ops	No	--
5058843	207	WILBERT ST	Lead	Copper	PEX	Not Replaced	6/15/2017	--	A02_02	No	--
5058441	328	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/16/2017	--	A02_02	No	--
5058839	210	WILBERT ST	Lead	Copper	PEX	Not Replaced	6/16/2017	--	A02_02	No	--
5056287	29	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/19/2017	--	A01_03	No	--
5056331	36	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/19/2017	--	A01_03	No	--
5050232	32	EXETER ST	Lead	Lead	PEX	Not Replaced	6/19/2017	--	Ops	Yes	--
5058789	484	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/20/2017	--	A02_02	No	--
5056329	44	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/20/2017	--	A01_03	No	--
5058544	301	KEARSARGE ST	Lead	Copper	PEX	Not Replaced	6/20/2017	--	A02_02	No	--
5059356	79	NORTON ST	Lead	Copper	PEX	Not Replaced	6/20/2017	--	Ops	No	--
5074064	2700	PERRYVILLE AVE	Lead	Copper	PEX	Not Replaced	6/20/2017	--	Ops	No	--
0	4554 1/2	ROSINA WY	Lead	Plastic	PEX	Not Replaced	6/20/2017	--	Ops	No	--
5025636	5509	AVONDALE PL	Lead	Non-Lead	PEX	Not Replaced	6/21/2017	--	Ops	No	--
5058810	475	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/21/2017	--	A02_02	No	--
5058808	477	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/21/2017	--	A02_02	No	--
5057635	96	ESTELLA AVE	Lead	Copper	PEX	Not Replaced	6/21/2017	--	A01_03	No	--
5058934	300	PROSPECT ST	Lead	Lead	PEX	Copper	6/21/2017	5/2/2018	Ops/A02_02	Yes	--

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5133350	4554	ROSINA	Lead	Copper	PEX	Not Replaced	6/21/2017	--	Ops	No	--
5058816	179	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/22/2017	--	A02_02	No	--
5018484	4521	BUTLER ST	Lead	Lead	PEX	Not Replaced	6/22/2017	--	Ops	Yes	--
5065834	1226	MONTEREY ST	Lead	Lead	PEX	Not Replaced	6/22/2017	--	Ops	Yes	--
5042710	6346	CROMBIE ST	Lead	Copper	PEX	Not Replaced	6/23/2017	--	Ops	No	Yes
5049306	3809	BEECHWOOD BLVD	Lead	PEX	PEX	Not Replaced	6/25/2017	--	Ops	No	--
5058813	185	BELONDA ST	Lead	Copper	PEX	Not Replaced	6/26/2017	--	A02_02	No	--
5056436	445	EDGEMONT ST	Lead	Copper	PEX	Not Replaced	6/26/2017	--	A01_03	No	--
5056441	431	EDGEMONT ST	Lead	Copper	PEX	Not Replaced	6/27/2017	--	A01_03	No	--
5056439	435	EDGEMONT ST	Lead	Lead	PEX	Copper	6/27/2017	6/4/2018	A01_03	Yes	--
5044274	949	MILTON ST	Lead	Copper	PEX	Not Replaced	6/27/2017	--	Ops	No	Yes
5050570	2330	SIDNEY ST	Lead	Copper	PEX	Not Replaced	6/27/2017	--	Ops	No	--
5080514	3810	WEALTH ST	Lead	Copper	PEX	Not Replaced	6/27/2017	--	Ops	No	--
5002871	246	DUNSEITH ST	Lead	Plastic	PEX	Not Replaced	6/28/2017	--	Ops	No	Yes
5056474	109	CRAIGHEAD ST	Lead	Copper	PEX	Not Replaced	7/6/2017	--	A01_03	No	--
5007019	3400	MILWAUKEE ST	Lead	Lead	PEX	Copper	7/6/2017	6/14/2018	Ops/A06_06	No	--
5041409	125	N HOMEWOOD AVE	Lead	Copper	PEX	Not Replaced	7/7/2017	--	Ops	No	--
5059261	235	DILWORTH ST	Lead	Lead	PEX	Not Replaced	7/10/2017	--	Ops	Yes	--
5018127	138	47TH ST	Lead	Copper	Plastic	Not Replaced	7/11/2017	--	Ops	No	--
5035280	522	GETTYSBURG ST	Lead	Plastic	Plastic	Not Replaced	7/11/2017	--	Dps	No	Yes
5033349	7225	RACE ST	Lead	Lead	Plastic	Not Replaced	7/12/2017	--	Ops	Yes	--
5003596	2701	5TH AVE	Lead	Lead	PEX	Not Replaced	7/13/2017	--	Ops-Unlisted	No	Yes
5051699	2609	STELLA ST	Lead	Copper	PEX	Not Replaced	7/13/2017	--	Ops	No	--
5075598	4063	VINCETON ST	Lead	PEX	PEX	Not Replaced	7/13/2017	--	Dps	No	--
5018128	140	47TH ST	Lead	Lead	PEX	Not Replaced	7/14/2017	--	Ops	Yes	--
5071736	2451	SNYDER ST	Lead	Copper	PEX	Not Replaced	7/14/2017	--	Ops	No	--
5035700	705	HASTINGS ST	Lead	Copper	PEX	Not Replaced	7/15/2017	--	Dps	No	--
5036554	1444	BEECHWOOD BLVD	Lead	Plastic	PEX	Not Replaced	7/17/2017	--	Ops	No	Yes
5080504	3815	WEALTH ST	Lead	Copper	PEX	Not Replaced	7/17/2017	--	Ops	No	--

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5061198	622	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	7/18/2017	--	A04_04	No	--
5067719	1038	GOEHRING ST	Lead	Lead	PEX	Not Replaced	7/19/2017	--	Ops	Yes	--
5081126	1128	HARVARD CIR	Lead	Lead	PEX	Not Replaced	7/19/2017	--	Ops	Yes	--
5061204	607	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	7/19/2017	--	A04_04	No	--
5061199	619	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	7/19/2017	--	A04_04	No	--
5032545	7144	UPLAND ST	Lead	Copper	PEX	Not Replaced	7/19/2017	--	Ops	No	Yes
5061254	17	LELIA ST	Lead	Copper	PEX	Not Replaced	7/21/2017	--	A04_04	No	--
5034811	5285	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/21/2017	--	Ops	No	Yes
5057067	222	WALTER ST	Lead	Plastic	PEX	Not Replaced	7/21/2017	--	Ops	No	Yes
5024120	6912	BISHOP ST	Lead	PEX	Plastic	Not Replaced	7/22/2017	--	Ops	No	--
5016299	4617	CARLTON ST	Lead	Copper	Plastic	Not Replaced	7/23/2017	--	Ops	No	--
5066605	1204	JAMES ST	Lead	Copper	PEX	Not Replaced	7/24/2017	--	Ops	No	Yes
5026918	709	N EUCLID AVE	Lead	Lead	Plastic	Not Replaced	7/24/2017	--	Ops	Yes	--
5133470	1117	FULTON ST	Lead	PEX	PEX	Not Replaced	7/26/2017	--	Ops	No	--
5061636	11	SOFFEL ST	Lead	Copper	PEX	Not Replaced	7/26/2017	--	A04_04	No	--
5070737	215	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	7/27/2017	--	Ops	Yes	--
5033361	7218	RACE ST	Lead	Lead	PEX	Not Replaced	7/27/2017	--	Ops	Yes	--
5061629	27	SOFFEL ST	Lead	Copper	PEX	Not Replaced	7/27/2017	--	A04_04	No	--
5063193	1028	VALONIA ST	Lead	Copper	PEX	Not Replaced	7/27/2017	--	Ops	No	--
5074692	315	WALDORF ST	Lead	Copper	PEX	Not Replaced	7/27/2017	--	A03_01	No	--
5061638	15	ARION ST	Lead	Unknown	PEX	Not Replaced	8/1/2017	8/1/2017	A04_04	No	--
5061640	9	ARION ST	Lead	Unknown	PEX	Not Replaced	8/1/2017	8/1/2017	A04_04	No	--
5075731	4047	GRIZELLA ST	Lead	Copper	PEX	Not Replaced	8/2/2017	--	A03_01	No	--
5114843	211	57TH ST	Lead	Copper	PEX	Not Replaced	8/3/2017	--	Ops	No	--
5074732	213	BONVUE ST	Lead	Copper	PEX	Not Replaced	8/3/2017	--	A03_01	No	--
5061262	130	LELIA ST	Lead	Copper	PEX	Not Replaced	8/4/2017	--	A04_04	No	--
5063188	1014	VALONIA ST	Lead	Copper	PEX	Not Replaced	8/4/2017	--	Ops	No	--
5122671	920	HANSEN STREET	Lead	Lead	PEX	Not Replaced	8/7/2017	--	Ops	Yes	--
5024563	414	N GRAHAM ST	Lead	Lead	PEX	Not Replaced	8/7/2017	--	Ops	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5037861	5870	HOBART ST	Lead	Plastic	PEX	Not Replaced	8/8/2017	--	Ops	No	--
5032520	1414	N MURLAND ST	Lead	Copper	PEX	Not Replaced	8/8/2017	--	Ops	No	Yes
5061666	666	BOGGS AVE	Lead	Copper	PEX	Not Replaced	8/9/2017	--	A04_04	No	--
5007681	4415	SCHENLEY FARMS TER	Lead	Lead	PEX	Not Replaced	8/9/2017	--	Ops	Yes	--
5061542	35	SOFFEL ST	Lead	Copper	PEX	Not Replaced	8/9/2017	--	A04_04	No	--
5061755	829	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	8/10/2017	--	A04_04	No	--
5074207	2502	SPRING GARDEN AVE	Lead	PEX	PEX	Not Replaced	8/10/2017	--	Ops	No	--
5061713	719	BOGGS AVE	Lead	Copper	PEX	Not Replaced	8/11/2017	--	A04_04	No	--
5068993	1418	CLAIM ST	Lead	Lead	PEX	Not Replaced	8/11/2017	--	Ops	Yes	--
5072514	2228	HOLYOKE ST	Lead	Unknown	PEX	Not Replaced	8/11/2017	--	Ops	Unknown	--
5074426	102	BONVUE ST	Lead	Copper	PEX	Not Replaced	8/14/2017	--	A03_01	No	--
5024737	5451	BROAD ST	Lead	Copper	PEX	Not Replaced	8/16/2017	--	Ops	No	--
5067264	847	PERALTA ST	Lead	Copper	PEX	Not Replaced	8/16/2017	--	Ops	No	--
5074364	27	RADIUM ST	Lead	Copper	PEX	Not Replaced	8/16/2017	--	A03_01	No	--
5074365	29	RADIUM ST	Lead	Non-Lead	PEX	Not Replaced	8/17/2017	--	A03_01	No	--
5075705	8	RADIUM ST	Lead	Copper	PEX	Not Replaced	8/17/2017	--	A03_01	No	--
5003204	215	COLTART AVE	Lead	Copper	PEX	Not Replaced	8/18/2017	--	Ops	No	--
5067589	32	ROSTOCK ST	Lead	Unknown	PEX	Not Replaced	8/18/2017	--	Ops	Unknown	--
5055045	1932	HURON ST	Lead	Copper	PEX	Not Replaced	8/21/2017	--	Ops	No	--
5006852	3324	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	8/21/2017	--	A06_06	Yes	--
5004354	3317	NIAGARA ST	Lead	Lead	PEX	Not Replaced	8/22/2017	--	Ops	Yes	--
5005626	601	WANDLESS ST	Lead	Copper	PEX	Not Replaced	8/22/2017	--	Ops	No	--
5078855	1107	WOODS RUN AVE	Lead	Copper	PEX	Not Replaced	8/22/2017	--	Ops	No	--
5031912	6939	CHAUCER ST	Lead	Lead	PEX	Not Replaced	8/23/2017	--	Ops	Yes	--
5017318	4567	CARROLL ST	Lead	Copper	PEX	Not Replaced	8/24/2017	--	Ops	No	--
5014716	4811	CYPRESS ST	Lead	Copper	PEX	Not Replaced	8/24/2017	--	Ops	No	--
5038329	5842	PHILLIPS AVE	Lead	Lead	PEX	Copper	8/24/2017	5/3/2018	A05_05	Yes	--
5058900	110	WILBERT ST	Lead	Lead	PEX	Not Replaced	8/24/2017	--	Ops	Yes	--
5056251	49	HABERMAN AVE	Lead	Copper	PEX	Not Replaced	8/25/2017	--	Ops	No	--

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5038319	5806	PHILLIPS AVE	Lead	Copper	PEX	Not Replaced	8/25/2017	--	A05_05	No	--
5079001	1097	WOODS RUN AVE	Lead	Unknown	PEX	Not Replaced	8/25/2017	--	Ops	Unknown	No
5049532	932	LILAC ST	Lead	Copper	PEX	Not Replaced	8/27/2017	--	Ops-Unlisted	No	Yes
5049533	934	LILAC ST	Lead	Copper	PEX	Not Replaced	8/27/2017	--	Ops	No	--
5037216	5604	FORBES AVE	Lead	Copper	PEX	Not Replaced	8/28/2017	--	Ops	No	--
5057709	419	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	8/28/2017	--	A01_03	Yes	--
5060537	320	SWEETBRIAR ST	Lead	Lead	PEX	Not Replaced	8/29/2017	--	Ops	Yes	--
5045767	850	KENNEBEC ST	Lead	Lead	PEX	Not Replaced	8/30/2017	--	Ops	Yes	--
5038429	5936	PHILLIPS AVE	Lead	Lead	PEX	Copper	8/30/2017	4/26/2018	A05_05	Yes	--
5006742	3485	MILWAUKEE ST	Lead	Copper	PEX	Not Replaced	8/31/2017	--	A06_06	No	--
5006743	3487	MILWAUKEE ST	Lead	Copper	PEX	Not Replaced	8/31/2017	--	A06_06	No	--
5006747	3539	MILWAUKEE ST	Lead	Copper	PEX	Not Replaced	9/1/2017	--	A06_06	No	--
5038295	5902	NICHOLSON ST	Lead	Lead	PEX	PEX	9/5/2017	9/5/2017	A05_05	No	--
5028195	1136	WINTERTON ST	Lead	Unknown	PEX	Not Replaced	9/5/2017	--	Ops	Yes	--
5028089	1225	WINTERTON ST	Lead	Lead	PEX	Not Replaced	9/5/2017	--	Ops	Yes	--
5038253	2304	ELDRIDGE ST	Lead	Lead	PEX	PEX	9/6/2017	9/6/2017	A05_05	No	--
5038271	2307	ELDRIDGE ST	Lead	Lead	PEX	Copper	9/6/2017	5/15/2018	A05_05	Yes	--
5038256	2310	ELDRIDGE ST	Lead	Copper	PEX	Not Replaced	9/6/2017	--	A05_05	No	--
5080554	3719	MILLERTON AVE	Lead	Lead	PEX	Not Replaced	9/6/2017	--	Ops	Yes	--
5006750	3455	MILWAUKEE ST	Lead	Copper	PEX	Not Replaced	9/6/2017	--	A06_06	No	--
5038871	2344	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	9/7/2017	--	A05_05	No	Yes
5048737	314	JOHNSTON AVE	Lead	Lead	PEX	Not Replaced	9/7/2017	--	Ops	Yes	--
5007045	816	ADELAIDE ST	Lead	Copper	PEX	Not Replaced	9/8/2017	--	A06_06	No	--
5007047	820	ADELAIDE ST	Lead	Copper	PEX	Not Replaced	9/8/2017	--	A06_06	No	--
5042396	6517	BARTLETT ST	Lead	Copper	PEX	Not Replaced	9/8/2017	--	Ops	No	--
5066018	1309	SHERMAN AVE	Lead	PEX	PEX	Not Replaced	9/8/2017	--	Ops	No	--
5061278	139	LELIA ST	Lead	Lead	Non-Lead	Not Replaced	9/11/2017	--	A04_04	No	Yes
5038859	2340	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	9/12/2017	--	A05_05	No	Yes
5025170	5575	HAMPTON ST	Lead	Lead	PEX	Not Replaced	9/12/2017	--	Ops	Yes	--

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5063711	815	MARENA ST	Lead	Lead	PEX	Not Replaced	9/12/2017	--	Ops	Yes	--
5007032	730	ADELAIDE ST	Lead	Copper	PEX	Not Replaced	9/13/2017	--	A06_06	No	--
5038882	2339	ELDRIDGE ST	Lead	Lead	PEX	Copper	9/13/2017	5/11/2018	A05_05	Yes	--
5038667	2215	WIGHTMAN ST	Lead	Plastic	PEX	Not Replaced	9/13/2017	--	Ops	No	Yes
5067576	1518	COMPROMISE ST	Lead	Lead	PEX	Not Replaced	9/14/2017	--	Ops	Yes	--
5079482	3126	FREDERICK ST	Lead	Copper	PEX	Not Replaced	9/14/2017	--	Ops	No	--
5038283	2311	SHERBROOK ST	Lead	Lead	PEX	Copper	9/14/2017	5/23/2018	A05_05	Yes	--
5007358	748	BRYN MAWR RD	Lead	Lead	PEX	Copper	9/15/2017	6/19/2018	Ops	Yes	--
5012191	330	MAILMAN ST	Lead	Lead	PEX	Not Replaced	9/15/2017	--	Ops	Yes	--
5007024	3422	MILWAUKEE ST	Lead	Copper	PEX	Not Replaced	9/15/2017	--	A06_06	No	--
5048772	425	MANSION ST	Lead	Lead	PEX	Not Replaced	9/16/2017	--	Ops	Yes	--
5038860	2342	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	9/18/2017	--	A05_05	No	Yes
5036715	5639	MARLBOROUGH RD	Lead	Copper	PEX	Not Replaced	9/18/2017	--	Ops	No	Yes
5041887	314	S LEXINGTON AVE	Lead	Copper	PEX	Not Replaced	9/18/2017	--	Ops	No	--
5038911	2335	SHERBROOK ST	Lead	Copper	PEX	Not Replaced	9/19/2017	--	A05_05	No	--
5038910	2337	SHERBROOK ST	Lead	Lead	PEX	Copper	9/19/2017	6/11/2018	A05_05	Yes	--
5076710	1134	WOODLAND AVE	Lead	PEX	PEX	Not Replaced	9/19/2017	--	Ops	No	--
5017747	229	ELLA ST	Lead	Copper	PEX	Not Replaced	9/20/2017	--	Ops	No	--
5004432	3316	HARDIE WAY	Lead	Lead	PEX	Not Replaced	9/20/2017	--	Ops	Yes	--
5006714	3434	WEBSTER AVE	Lead	Copper	PEX	Not Replaced	9/20/2017	--	A06_06	No	--
5006715	3436	WEBSTER AVE	Lead	Copper	PEX	Not Replaced	9/20/2017	--	A06_06	No	--
5006717	3448	WEBSTER AVE	Lead	Copper	PEX	Not Replaced	9/21/2017	--	A06_06	No	--
5006718	3450	WEBSTER AVE	Lead	Copper	PEX	Not Replaced	9/21/2017	--	A06_06	No	--
5020739	5549	CAMELIA ST	Lead	Copper	PEX	Not Replaced	9/25/2017	--	Ops	No	--
5038416	5903	PHILLIPS AVE	Lead	Copper	PEX	Not Replaced	9/25/2017	--	Ops	No	Yes
5048649	231	WINSTON ST	Lead	Lead	PEX	Not Replaced	9/25/2017	--	Ops	Yes	--
5006752	3451	MILWAUKEE ST	Lead	Lead	PEX	Copper	9/26/2017	6/7/2018	A06_06	Yes	--
5019680	5205	PENN AVE	Lead	Lead	PEX	Not Replaced	9/26/2017	--	Ops	Yes	--
5019681	5207	PENN AVE	Lead	Lead	PEX	Not Replaced	9/26/2017	--	Ops	Yes	--

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5014180	344	W PENN PL	Lead	PEX	PEX	Not Replaced	9/26/2017	--	Ops	No	Yes
5006873	3376	WEBSTER AVE	Lead	Lead	PEX	Copper	9/26/2017	6/6/2018	A06_06	Yes	--
5021183	903	MCCANDLESS AVE	Lead	PEX	PEX	Not Replaced	9/27/2017	--	Ops	No	--
5038336	5870	PHILLIPS AVE	Lead	Lead	PEX	Copper	9/27/2017	5/3/2018	Ops/A05_05	Yes	--
5006891	3363	WEBSTER AVE	Lead	Lead	PEX	Copper	9/27/2017	5/25/2018	A06_06	Yes	--
5006892	3365	WEBSTER AVE	Lead	Lead	PEX	Copper	9/27/2017	5/10/2018	A06_06	Yes	--
5006889	3367	WEBSTER AVE	Lead	Lead	PEX	Copper	9/27/2017	5/24/2018	A06_06	Yes	--
5006890	3369	WEBSTER AVE	Lead	Lead	PEX	Copper	9/27/2017	5/24/2018	A06_06	Yes	--
5058388	743	OMAHA ST	Lead	Copper	PEX	Not Replaced	9/28/2017	--	Ops	No	--
5037167	1807	WIGHTMAN ST	Lead	NoN-Lead	PEX	Not Replaced	9/28/2017	--	Ops	No	Yes
5007120	4345	DAKOTA ST	Lead	NoN-Lead	Non-Lead	Not Replaced	10/2/2017	--	Ops	No	Yes
5078151	3406	GASS AVE	Lead	Lead	PEX	Not Replaced	10/2/2017	--	Ops	Yes	--
5038907	2355	SHERBROOK ST	Lead	Copper	PEX	Not Replaced	10/2/2017	--	A05_05	No	--
5038904	2365	SHERBROOK ST	Lead	Copper	PEX	Not Replaced	10/2/2017	--	A05_05	No	--
5018501	181	45TH ST	Lead	Copper	PEX	Not Replaced	10/3/2017	--	Ops-Unlisted	No	No
5075068	326	DUNLAP ST	Lead	Lead	PEX	Not Replaced	10/3/2017	--	Ops	Yes	--
5038293	2314	PITTOCK ST	Lead	Copper	PEX	Not Replaced	10/3/2017	--	A05_05	No	--
0	5730	HOWE ST	Lead	Lead	PEX	Not Replaced	10/4/2017	--	Ops	Yes	--
5052645	3227	JOSEPHINE ST	Lead	Lead	PEX	Not Replaced	10/4/2017	--	Ops	Yes	--
5015932	166	42ND ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Ops	Yes	--
5039537	2783	BEECHWOOD BLVD	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Ops	Yes	--
5038880	2343	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	A05_05	No	Yes
5012400	5726	HOWE ST	Lead	Lead	PEX	Not Replaced	10/5/2017	--	Ops	Yes	--
5038933	2331	PITTOCK ST	Lead	Lead	PEX	PEX	10/5/2017	10/5/2017	A05_05	No	--
5074218	2540	SPRING GARDEN AVE	Lead	Unknown	PEX	Not Replaced	10/7/2017	--	Unknown	Unknown	Unknown
5074433	115	BONVUE ST	Lead	Unknown	PEX	Terminated	10/10/2017	--	Ops/A03_01	No	No
5074440	29	BONVUE ST	Lead	Unknown	PEX	Terminated	10/11/2017	--	Ops/A03_01	No	No
5035607	813	HASTINGS ST	Lead	Plastic	PEX	Not Replaced	10/11/2017	--	Ops	No	--
5040568	214	ELYSIAN ST	Lead	PEX	PEX	Not Replaced	10/12/2017	--	Ops	No	Yes

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5041817	508	LLOYD ST	Lead	PEX	PEX	Not Replaced	10/12/2017	--	Ops	No	--
5073253	1919	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	10/12/2017	--	Ops	Yes	--
5055168	1913	ARLINGTON AVE	Lead	Lead	PEX	Not Replaced	10/13/2017	--	Ops	Yes	--
5032578	7123	MOUNT VERNON ST	Lead	Lead	PEX	Not Replaced	10/13/2017	--	Ops	Yes	--
5027232	227	N FAIRMOUNT ST	Lead	PEX	PEX	Not Replaced	10/13/2017	--	Ops	No	--
5074175	2728	SPRING GARDEN AVE	Lead	Copper	PEX	Not Replaced	10/13/2017	--	Ops	No	--
5046586	356	BIGELOW ST	Lead	Lead	PEX	Not Replaced	10/14/2017	--	Ops	Yes	--
5039111	2842	SHAQY AVE	Lead	Lead	PEX	Not Replaced	10/16/2017	--	Ops	Yes	--
5034123	7330	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/18/2017	--	Susquehanna Street Relay	Yes	--
5051698	67	BARRY ST	Lead	Copper	PEX	Not Replaced	10/19/2017	--	Ops	No	--
5077245	1215	HODGKISS ST	Lead	Copper	PEX	Not Replaced	10/19/2017	--	Ops	No	--
5041472	111	LEXINGTON AVE	Lead	Copper	PEX	Not Replaced	10/19/2017	--	Ops	No	--
5041471	115	S LEXINGTON AVE	Lead	Copper	PEX	Not Replaced	10/19/2017	--	Ops	No	--
5054339	1710	SARAH ST	Lead	Lead	PEX	Not Replaced	10/19/2017	--	Ops	Yes	Yes
5034537	5322	BEELEER ST	Lead	Copper	PEX	Not Replaced	10/21/2017	--	Ops	No	--
5022553	5419	BUTLER ST	Lead	Lead	PEX	Not Replaced	10/22/2017	--	Ops	Yes	--
5022075	1029	DUFFIELD ST	Lead	Copper	PEX	Not Replaced	10/23/2017	--	Ops	No	--
5052590	3210	JANE ST	Lead	Plastic	PEX	Not Replaced	10/23/2017	--	Ops	No	--
5019870	5232	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	10/24/2017	--	Ops	No	Yes
5004619	3387	PARKVIEW AVE	Lead	Copper	PEX	Not Replaced	10/24/2017	--	Ops	No	--
5054546	1915	JANE ST	Lead	Lead	PEX	Not Replaced	10/25/2017	--	Ops	Yes	--
5033824	7230	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/25/2017	--	Susquehanna Street Relay	Yes	--
5033808	7235	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/25/2017	--	Susquehanna Street Relay	Yes	--
5070387	528	ARMANDALE ST	Lead	Copper	PEX	Not Replaced	10/26/2017	--	Ops	No	--
5003565	345	S BOUQUET ST	Lead	Copper	Non-Lead	Not Replaced	10/26/2017	--	Bouquet St Relay	No	--
5033826	7238	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/26/2017	--	Susquehanna Street Relay	Yes	--
5033827	7238 1/2	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/26/2017	--	Susquehanna Street Relay	Yes	--
5033806	7239	SUSQUEHANNA ST	Lead	Copper	Non-Lead	Not Replaced	10/26/2017	--	Susquehanna Street Relay	No	--
5033807	7239 1/2	SUSQUEHANNA ST	Lead	Copper	Non-Lead	Not Replaced	10/26/2017	--	Susquehanna Street Relay	No	--

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5037720	5718	BEACON ST	Lead	Plastic	PEX	Not Replaced	10/27/2017	--	Ops	No	--
5050489	2113	WHARTON ST	Lead	Non-Lead	PEX	Not Replaced	10/27/2017	--	Ops	No	Yes
5016726	4213	SHERROD ST	Lead	Lead	PEX	Not Replaced	10/28/2017	--	Ops-Unlisted	No	Yes
5055176	1841	ARLINGTON AVE	Lead	Copper	PEX	Not Replaced	10/30/2017	--	Ops	No	--
5043806	405	E END AVE	Lead	Lead	PEX	Not Replaced	10/30/2017	--	Ops	Yes	--
5043807	407	E END AVE	Lead	Lead	PEX	Not Replaced	10/30/2017	--	Ops	Yes	--
5081919	338	S BOUQUET ST	Lead	Copper	Non-Lead	Not Replaced	10/30/2017	--	Bouquet St Relay	No	--
5003476	340	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	10/30/2017	--	Bouquet St Relay	Yes	--
5034847	5411	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	10/31/2017	--	Ops	No	--
5003569	337	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	10/31/2017	--	Bouquet St Relay	Yes	--
5033820	7222	SUSQUEHANNA ST	Lead	Copper	Non-Lead	Not Replaced	10/31/2017	--	Susquehanna Street Relay	No	--
5033822	7226	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	10/31/2017	--	Susquehanna Street Relay	Yes	--
5071229	2123	WILSON AVE	Lead	Copper	PEX	Not Replaced	10/31/2017	--	Ops	No	--
5037424	6315	BARTLETT ST	Lead	Copper	PEX	Not Replaced	11/1/2017	--	Ops	No	Yes
5055645	435	IBERIA ST	Lead	PEX	PEX	Not Replaced	11/1/2017	--	Ops	No	Yes
5003467	320	S BOUQUET ST	Lead	Copper	Non-Lead	Not Replaced	11/1/2017	--	Bouquet St Relay	No	--
5003468	322	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2017	--	Bouquet St Relay	Yes	--
5033813	7215	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	11/1/2017	--	Susquehanna Street Relay	Yes	--
5033814	7217	SUSQUEHANNA ST	Lead	Copper	Non-Lead	Not Replaced	11/1/2017	--	Susquehanna Street Relay	No	--
5073768	19	E MARSHALL AVE	Lead	Copper	PEX	Not Replaced	11/2/2017	--	Ops	No	Yes
5003570	335	S BOUQUET ST	Lead	Lead	Non-Lead	Not Replaced	11/2/2017	--	Bouquet St Relay	Yes	--
0	7212	SUSQUEHANNA ST	Lead	PEX	Non-Lead	<Null>	11/2/2017	--	Susquehanna Street Relay	No	--
5033816	7213	SUSQUEHANNA ST	Lead	Copper	Non-Lead	Not Replaced	11/2/2017	--	Susquehanna Street Relay	No	--
5033819	7220	SUSQUEHANNA ST	Lead	Lead	Non-Lead	Not Replaced	11/2/2017	--	Susquehanna Street Relay	Yes	--
5033163	7122	IDLEWILD ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	--
5022195	1200	JANCEY ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	--
5063149	1247	LAKEWOOD AVE	Lead	Copper	PEX	Not Replaced	11/7/2017	--	Ops	No	--
5045282	4119	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	--
0	4121	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5046076	4122	LYDIA ST	Lead	Lead	PEX	Not Replaced	11/7/2017	--	Ops	Yes	--
5076989	1224	SUPERIOR AVE	Lead	PEX	PEX	Not Replaced	11/7/2017	--	Ops	No	--
5021976	1201	JANCEY ST	Lead	Lead	PEX	Not Replaced	11/8/2017	--	Ops	Yes	--
5044401	1207	TREVANION AVE	Lead	Copper	PEX	Not Replaced	11/8/2017	--	Ops	No	Yes
5030601	6731	FRANKSTOWN AVE	Lead	Lead	PEX	Not Replaced	11/9/2017	--	Ops	Yes	--
5030600	6733	FRANKSTOWN AVE	Lead	Lead	PEX	Not Replaced	11/9/2017	--	Ops	Yes	--
5076554	2824	SHADELAND AVE	Lead	Copper	PEX	Not Replaced	11/9/2017	--	Ops	No	--
5060487	232	AUGUSTA ST	Lead	Lead	PEX	Not Replaced	11/14/2017	--	Ops	Yes	--
5006646	3340	RIDGEWAY ST	Lead	Copper	PEX	Not Replaced	11/16/2017	--	Ops	No	--
5035481	1206	S NEGLEY AVE	Lead	Copper	PEX	Not Replaced	11/19/2017	--	Ops	No	--
5052408	2850	BERG ST	Lead	Copper	PEX	Not Replaced	11/22/2017	--	Ops	No	--
5067201	824	SUISMON ST	Lead	PEX	PEX	Not Replaced	11/22/2017	--	Ops	No	Yes
5074739	117	BONVUE ST	Lead	Copper	PEX	Not Replaced	11/27/2017	--	Ops/A03_01	No	Yes
5031513	1409	WESTMORELAND ST	Lead	PEX	PEX	Not Replaced	11/27/2017	--	Ops	No	--
5031548	1500	WESTMORELAND ST	Lead	PEX	PEX	Not Replaced	11/28/2017	--	Ops	No	--
5018995	5209	COLUMBO ST	Lead	Copper	PEX	Not Replaced	11/29/2017	--	Ops	No	--
5018368	164	45TH ST	Lead	Lead	PEX	Not Replaced	11/30/2017	--	Ops	Yes	--
5080682	1710	MORRELL ST	Lead	Lead	PEX	Not Replaced	11/30/2017	--	Ops	Yes	--
5052625	3108	STROMBERG ST	Lead	Copper	PEX	Not Replaced	11/30/2017	--	Ops	No	Yes
5030883	6939	CHURCHLAND ST	Lead	Lead	PEX	Not Replaced	12/3/2017	--	Ops	Yes	--
5026514	916	FARRAGUT ST	Lead	Copper	PEX	Not Replaced	12/4/2017	--	Ops	No	--
5018968	5303	HILLCREST ST	Lead	Lead	PEX	Not Replaced	12/5/2017	--	Hillcrest GI	Yes	No
5016717	368	44TH ST	Lead	Lead	PEX	Not Replaced	12/7/2017	--	Ops	Yes	--
5039496	6360	BURCHFIELD AVE	Lead	Lead	Copper	Not Replaced	12/7/2017	--	Ops	Yes	--
5045332	4102	LYDIA ST	Lead	Lead	PEX	Not Replaced	12/7/2017	--	Ops	Yes	--
5069881	842	CALIFORNIA AVE	Lead	PEX	PEX	Not Replaced	12/8/2017	--	Ops	No	--
5020764	5556	CAMELIA ST	Lead	Copper	PEX	Not Replaced	12/8/2017	--	Ops	No	--
5065155	1333	SHEFFIELD ST	Lead	Copper	PEX	Not Replaced	12/12/2017	--	Ops	No	--
5022270	1015	JANCEY ST	Lead	Lead	PEX	Not Replaced	12/13/2017	--	Ops	Yes	--

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5070809	1415	SANDUSKY ST	Lead	Lead	PEX	Not Replaced	12/14/2017	--	Ops	Yes	--
5070810	1417	SANDUSKY ST	Lead	Lead	PEX	Not Replaced	12/14/2017	--	Ops	Yes	--
5040328	6815	THOMAS BLVD	Lead	Lead	Non-Lead	Not Replaced	12/14/2017	--	Ops	Yes	--
5026278	729	N SAINT CLAIR ST	Lead	PEX	PEX	Not Replaced	12/16/2017	--	Ops	No	--
5028199	1126	WINTERTON ST	Lead	Lead	PEX	Not Replaced	12/17/2017	--	Ops	Yes	--
5037484	5526	BARTLETT ST	Lead	Copper	PEX	Not Replaced	12/19/2017	--	Ops	No	--
5047723	255	FLOWERS AVE	Lead	Lead	PEX	Not Replaced	12/19/2017	--	Ops	Yes	--
5039484	6339	MONITOR ST	Lead	Copper	PEX	Not Replaced	12/19/2017	--	Ops	No	Yes
5067335	910	PERALTA ST	Lead	Lead	PEX	Not Replaced	12/20/2017	--	Ops	Yes	--
5051883	2112	SALISBURY ST	Lead	Lead	PEX	Not Replaced	12/20/2017	--	Ops	Yes	--
5059500	215	SMITH WAY	Lead	Copper	PEX	Not Replaced	12/20/2017	--	Ops	No	Yes
5046050	4309	HALDANE ST	Lead	Lead	PEX	Not Replaced	12/21/2017	--	Ops	Yes	--
5011967	5807	WALNUT ST	Lead	Lead	PEX	Not Replaced	12/21/2017	--	Ops	Yes	--
5037482	5532	BARTLETT ST	Lead	Lead	PEX	Not Replaced	12/22/2017	--	Ops	Yes	--
5080658	1823	MORRELL ST	Lead	Lead	PEX	Not Replaced	12/26/2017	--	Ops	Yes	--
5035266	616	HASTINGS ST	Lead	Lead	PEX	Not Replaced	12/27/2017	--	Ops	Yes	--
5045601	754	GREENFIELD AVE	Lead	Copper	PEX	Not Replaced	12/28/2017	--	Ops	No	--
5071031	323	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	12/28/2017	--	Ops	Yes	--
5016844	348	45TH ST	Lead	Lead	PEX	Not Replaced	1/4/2018	--	Ops	Yes	--
5048389	306	W ELIZABETH ST	Lead	Copper	Copper	Not Replaced	1/4/2018	--	Ops	No	--
5028966	6522	DEAN ST	Lead	Lead	PEX	Not Replaced	1/5/2018	--	Ops	Yes	--
5056855	918	EUREKA ST	Lead	Lead	PEX	Not Replaced	1/6/2018	--	Ops	Yes	--
5031462	7142	LEMINGTON AVE	Lead	Lead	PEX	Not Replaced	1/9/2018	--	Ops	Yes	--
5010550	726	COPELAND ST	Lead	Lead	PEX	Not Replaced	1/12/2018	--	Ops	Yes	--
5036470	5825	NORTHUMBERLAND ST	Lead	Lead	PEX	Not Replaced	1/12/2018	--	Ops	Yes	--
5122102	123	BECKERT STREET	Lead	Lead	PEX	Not Replaced	1/15/2018	--	Ops	No	Yes
5132661	5004	BROAD	Lead	Plastic	PEX	Not Replaced	1/17/2018	--	Ops	No	--
5017527	4042	CABINET ST	Lead	Lead	PEX	Not Replaced	1/17/2018	--	Ops	Yes	--
5064406	2109	HYENA WAY	Lead	Lead	PEX	Not Replaced	1/19/2018	--	Ops	Yes	--

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5060698	130	COHASSET ST	Lead	Lead	PEX	Not Replaced	1/20/2018	--	Ops	Yes	--
5060693	142	COHASSET ST	Lead	Lead	PEX	Not Replaced	1/20/2018	--	Ops	Yes	--
5060394	374	SHALER ST	Lead	Copper	PEX	Not Replaced	1/21/2018	--	Ops	No	--
5004160	208	OPHELIA ST	Lead	Lead	PEX	Not Replaced	1/22/2018	--	Ops	Yes	--
5056148	103	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	1/24/2018	--	Ops	Yes	--
5056147	105	KATHLEEN ST	Lead	Lead	PEX	Not Replaced	1/24/2018	--	Ops	Yes	--
5122143	305	COLTON ST	Lead	Lead	Copper	Not Replaced	1/25/2018	--	Ops	Yes	--
5068530	1911	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	1/26/2018	--	Ops	Yes	--
5055162	1824	ST PATRICK ST	Lead	Lead	PEX	Not Replaced	1/29/2018	--	Ops	Yes	--
5008899	183	35TH ST	Lead	Copper	PEX	Not Replaced	1/30/2018	--	Ops	No	--
5056025	351	KAMBACH ST	Lead	Lead	PEX	Not Replaced	2/1/2018	--	Ops	Yes	--
5123024	641	NORTH AVE FRNT	Lead	Copper	PEX	Not Replaced	2/1/2018	--	Ops	No	--
5014140	373	S WINEBIDDLE ST	Lead	NoN-Lead	PEX	Not Replaced	2/2/2018	--	Ops	No	--
5077534	2422	CALIFORNIA AVE	Lead	Copper	PEX	Not Replaced	2/5/2018	--	Ops	No	--
5122038	867	RESERVE STREET	Lead	Unknown	PEX	Not Replaced	2/6/2018	--	Ops	Unknown	--
5005451	2605	1/2 WEBSTER AVE	Lead	Lead	PEX	Not Replaced	2/7/2018	--	Ops	Yes	--
5071011	1405	BUENA VISTA ST	Lead	Copper	PEX	Not Replaced	2/7/2018	--	Ops	No	--
5012968	4744	JUNIPER ST	Lead	Lead	PEX	Not Replaced	2/7/2018	--	Ops	Yes	--
5078744	3531	DIPLOMA ST	Lead	Copper	PEX	Not Replaced	2/9/2018	--	Ops	No	Yes
5043814	7712	WAVERLY ST	Lead	Copper	PEX	Not Replaced	2/13/2018	--	Ops	No	--
5076616	2819	BREKER ST	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Ops	Yes	--
5058344	217	MAPLE TER	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Ops	Yes	--
5031398	1330	OLIVANT ST	Lead	Lead	PEX	Not Replaced	2/14/2018	--	Ops	Yes	--
5017885	4622	CARROLL ST	Lead	NoN-Lead	PEX	Not Replaced	2/15/2018	--	Ops	No	--
5056269	423	RUXTON ST	Lead	Lead	PEX	Copper	2/15/2018	7/30/2018	Ops	Yes	--
5058658	158	VIRGINIA AVE	Lead	Lead	PEX	Not Replaced	2/18/2018	--	Ops	Yes	--
5068708	1225	HASLAGE AVE	Lead	Lead	PEX	Not Replaced	2/19/2018	--	Ops	Yes	--
5052196	2829	COBDEN ST	Lead	Copper	PEX	Not Replaced	2/20/2018	--	Ops	No	--
5024782	1353	CORDOVA RD	Lead	Copper	PEX	Not Replaced	2/20/2018	--	Ops	No	--

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5024783	1355	CORDOVA RD	Lead	Lead	PEX	Not Replaced	2/20/2018	--	Ops	Yes	--
5022480	5416	DRESDEN WAY	Lead	PEX	PEX	Not Replaced	2/21/2018	--	Ops	No	--
5031670	1302	OLIVANT ST	Lead	Lead	PEX	Not Replaced	2/21/2018	--	Ops	Yes	--
5009368	3473	DENNY ST	Lead	NoN-Lead	PEX	Not Replaced	2/22/2018	--	Ops	No	--
5045231	329	KAERCHER ST	Lead	Copper	PEX	Not Replaced	2/22/2018	--	Ops	No	--
5036702	5632	AYLESBORO AVE	Lead	NoN-Lead	PEX	Not Replaced	2/23/2018	--	Ops	No	--
5037478	5546	BARTLETT ST	Lead	LEAD	PEX	Not Replaced	2/23/2018	--	Ops	Yes	--
5013696	5324	CORAL ST	Lead	Lead	PEX	Not Replaced	2/23/2018	--	Ops	Yes	--
5037870	5919	DOUGLAS ST	Lead	Lead	PEX	Not Replaced	2/23/2018	--	Ops	Yes	--
5010057	5438	CLAYBOURNE ST	Lead	Lead	PEX	Not Replaced	2/26/2018	--	Ops	Yes	--
5052367	2416	ECCLES ST	Lead	Lead	PEX	Not Replaced	2/26/2018	--	Ops	Yes	--
5024337	1440	DUFFIELD ST	Lead	<Null>	PEX	Copper	2/26/2018	2/22/2018	A17_07	No	--
5048257	5126	CHAPLAIN WAY	Lead	Lead	PEX	Not Replaced	2/28/2018	--	Ops	Yes	--
5065814	1243	RESACA PL	Lead	Copper	PEX	Not Replaced	2/28/2018	--	Ops	No	--
5010835	5200	WESTMINSTER PL	Lead	Plastic	PEX	Not Replaced	3/1/2018	--	Ops	No	--
5071030	325	JACKSONIA ST	Lead	Lead	PEX	Not Replaced	3/6/2018	--	Ops	Yes	--
5072912	6	MAUCH ST	Lead	Lead	PEX	Not Replaced	3/7/2018	--	Ops	Yes	--
5056345	39	PASADENA ST	Lead	Lead	PEX	Copper	3/7/2018	7/3/2018	Ops	Yes	--
5011678	6327	WALNUT ST	Lead	Plastic	PEX	Not Replaced	3/8/2018	--	Ops	No	--
5046010	4224	HALDANE ST	Lead	PEX	PEX	Not Replaced	3/11/2018	--	Ops	No	--
5005317	4626	WINTHROP ST	Lead	PEX	PEX	Not Replaced	3/11/2018	--	Ops	No	--
5133767	4628	WINTHROP ST	Lead	PEX	PEX	Not Replaced	3/11/2018	--	Ops	No	--
5002842	221	DUNSEITH ST	Lead	Lead	PEX	Not Replaced	3/13/2018	--	Ops	Yes	--
5040484	6907	MCPHERSON BLVD	Lead	Copper	PEX	Not Replaced	3/13/2018	--	Ops	No	--
5011606	310	S HIGHLAND AVE	Lead	Copper	PEX	Not Replaced	3/13/2018	--	Ops	No	--
5024428	1627	CHISLETT ST	Lead	Lead	PEX	Not Replaced	3/14/2018	--	Ops	Yes	--
5058008	302	BIGHAM ST	Lead	Lead	PEX	Not Replaced	3/15/2018	--	Ops	Yes	--
5021212	5328	CAMELIA ST	Lead	Copper	PEX	Not Replaced	3/15/2018	--	Ops	No	--
5030285	6637	SHETLAND AVE	Lead	Copper	Copper	Not Replaced	3/15/2018	--	Ops	No	--

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5016494	217	MAIN ST	Lead	Copper	PEX	Not Replaced	3/16/2018	--	Ops	No	--
5003198	204	COLTART AVE	Lead	Copper	PEX	Not Replaced	3/18/2018	--	Ops	No	--
5055934	11	BAILEY AVE	Lead	Lead	PEX	Not Replaced	3/19/2018	--	Ops	Yes	--
5045998	4308	HALDANE ST	Lead	Copper	PEX	Not Replaced	3/20/2018	--	Ops	No	--
5002232	2016	DE RUAD ST	Lead	Copper	PEX	Not Replaced	3/22/2018	--	Ops	No	--
5061404	239	ALBERT ST	Lead	Copper	PEX	Not Replaced	3/23/2018	--	Ops	No	--
5055179	1835	ARLINGTON AVE	Lead	Lead	PEX	Not Replaced	3/23/2018	--	Ops	Yes	--
5037540	5448	BARTLETT ST	Lead	Copper	PEX	Not Replaced	3/23/2018	--	Ops	No	--
5024294	1433	MORNINGSIDE AVE	Lead	Copper	PEX	Not Replaced	3/24/2018	--	Ops	No	--
5058487	300	BELONDA ST	Lead	Lead	PEX	Copper	3/26/2018	3/26/2018	A02_02	No	--
5074709	202	BONVUE ST	Lead	Lead	PEX	Not Replaced	3/29/2018	--	A03_01	Yes	--
5074710	204	BONVUE ST	Lead	Lead	PEX	Not Replaced	3/30/2018	--	A03_01	Yes	--
5058501	305	BELONDA ST	Lead	Lead	PEX	Copper	4/2/2018	4/2/2018	A02_02	No	--
5058500	307	BELONDA ST	Lead	Lead	PEX	Copper	4/2/2018	4/2/2018	A02_02	No	Yes
5058458	426	BELONDA ST	Lead	Lead	PEX	Not Replaced	4/2/2018	--	A02_02	Yes	--
5007759	3107	CENTRE AVE	Lead	Copper	PEX	Not Replaced	4/2/2018	--	Ops	No	--
5028115	1212	N SHERIDAN AVE	Lead	Lead	Copper	Not Replaced	4/2/2018	--	Ops	Yes	--
5060208	232	SEWARD ST	Lead	Lead	PEX	Not Replaced	4/2/2018	--	Ops	Yes	--
5074731	215	BONVUE ST	Lead	Lead	PEX	Not Replaced	4/3/2018	--	A03_01	Yes	--
5022305	917	CHISLETT ST	Lead	Lead	PEX	Not Replaced	4/3/2018	--	Ops	Yes	--
5058819	161	BELONDA ST	Lead	Copper	PEX	Not Replaced	4/4/2018	--	A02_02	No	--
5058497	313	BELONDA ST	Lead	Lead	PEX	Copper	4/4/2018	4/4/2018	A02_02	No	--
5058818	453	BELONDA ST	Lead	Copper	PEX	Not Replaced	4/4/2018	--	A02_02	No	--
5023270	1414	WOODBINE ST	Lead	Lead	PEX	Not Replaced	4/4/2018	--	Ops	Yes	--
5058502	303	BELONDA ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	A02_02	No	--
5058494	321	BELONDA ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	A02_02	No	--
5058460	422	BELONDA ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	A02_02	No	--
5074435	111	BONVUE ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	A03_01	No	--
5074735	203	BONVUE ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	A03_01	No	--

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5079314	1045	HALL ST	Lead	Copper	PEX	Not Replaced	4/5/2018	--	Ops	No	--
5074409	105	WALDORF ST	Lead	Lead	PEX	Copper	4/5/2018	4/5/2018	A03_01	No	--
5058459	424	BELONDA ST	Lead	Lead	PEX	Copper	4/6/2018	4/6/2018	A02_02	No	--
5014403	357	S GRAHAM ST	Lead	PEX	PEX	Not Replaced	4/6/2018	--	Ops	No	--
5058498	311	BELONDA ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	A02_02	No	--
5014440	304	S FAIRMOUNT ST	Lead	Lead	Copper	Not Replaced	4/9/2018	--	Ops	Yes	--
5074705	111	WALDORF ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	A03_01	No	--
5074704	115	WALDORF ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	A03_01	No	--
5074697	229	WALDORF ST	Lead	Lead	PEX	Copper	4/9/2018	4/9/2018	A03_01	No	--
5058488	304	BELONDA ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	A02_02	No	--
5058491	312	BELONDA ST	Lead	Lead & Galvanized	PEX	Copper	4/10/2018	4/10/2018	A02_02	No	--
5058814	465	BELONDA ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	A02_02	No	--
5058801	468	BELONDA ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	A02_02	No	--
5074733	211	BONVUE ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	A03_01	No	--
5044055	578	BRIAR CLIFF RD	Lead	Lead	PEX	Not Replaced	4/10/2018	--	Ops	Yes	--
5074694	239	WALDORF ST	Lead	Lead	PEX	Copper	4/10/2018	4/10/2018	A03_01	No	--
5028197	1130	WINTERTON ST	Lead	Copper	PEX	Not Replaced	4/10/2018	--	Ops	No	--
5058797	450	BELONDA ST	Lead	Lead	PEX	Copper	4/11/2018	4/11/2018	A02_02	No	--
5058799	458	BELONDA ST	Lead	Lead	PEX	Copper	4/11/2018	4/11/2018	A02_02	No	--
5074721	228	BONVUE ST	Lead	Lead	PEX	Copper	4/11/2018	4/11/2018	A03_01	No	--
5074685	204	WALDORF ST	Lead	Lead	PEX	Copper	4/11/2018	4/11/2018	A03_01	No	--
5074682	212	WALDORF ST	Lead	Lead	PEX	Copper	4/11/2018	4/11/2018	A03_01	No	--
5058811	189	BELONDA ST	Lead	Lead	PEX	Copper	4/12/2018	4/12/2018	A02_02	No	--
5058499	309	BELONDA ST	Lead	Lead	PEX	Copper	4/12/2018	4/12/2018	A02_02	No	--
5074415	12	BONVUE ST	Lead	Lead	PEX	Copper	4/12/2018	4/12/2018	A03_01	No	--
5074414	14	BONVUE ST	Lead	Lead	PEX	Copper	4/12/2018	4/12/2018	A03_01	No	--
5074417	18	BONVUE ST	Lead	Lead	PEX	Copper	4/12/2018	4/12/2018	A03_01	No	--
5020283	5112	CARNEGIE ST	Lead	Copper	PEX	Not Replaced	4/12/2018	--	Ops	No	--
5074687	116	WALDORF ST	Lead	Lead	PEX	Not Replaced	4/12/2018	--	A03_01	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5058846	213	WILBERT ST	Lead	Lead	PEX	Not Replaced	4/12/2018	--	A02_02	Yes	--
5058800	466	BELONDA ST	Lead	Lead	PEX	Copper	4/13/2018	4/13/2018	A02_02	No	--
5058803	472	BELONDA ST	Lead	Lead	PEX	Copper	4/13/2018	4/13/2018	A02_02	No	--
5007631	3306	IOWA ST	Lead	Copper	PEX	Not Replaced	4/13/2018	--	Dps	No	--
5058536	331	KEARSARGE ST	Lead	Lead	PEX	Copper	4/13/2018	4/13/2018	A02_02	No	--
5058812	187	BELONDA ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	A02_02	No	--
5074708	120	BONVUE ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	A03_01	No	--
5074419	28	BONVUE ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	A03_01	No	--
5074695	241	WALDORF ST	Lead	Lead	PEX	Copper	4/16/2018	4/16/2018	A03_01	No	--
5028953	6517	DEAN ST	Lead	Copper	PEX	Not Replaced	4/17/2018	--	Dps	No	--
5036044	1325	SHADY AVE	Lead	Copper	PEX	Not Replaced	4/17/2018	--	Dps	No	--
5074442	25	BONVUE ST	Lead	Lead	PEX	Copper	4/18/2018	4/18/2018	A03_01	No	--
5067371	1004	CONSTANCE ST	Lead	Copper	PEX	Not Replaced	4/18/2018	--	Dps	No	--
5059017	158	GRAY ST	Lead	Copper	PEX	Not Replaced	4/18/2018	--	A02_02	No	--
5004052	5	OAKLAND SQ	Lead	PEX	PEX	Not Replaced	4/18/2018	--	Dps	No	--
5013622	258	S WINEBIDDLE ST	Lead	Lead	PEX	Not Replaced	4/18/2018	--	Dps	Yes	--
5074686	200	WALDORF ST	Lead	Lead	PEX	Copper	4/18/2018	4/18/2018	A03_01	No	--
5074374	58	WALDORF ST	Lead	Lead	PEX	Copper	4/18/2018	4/18/2018	A03_01	No	--
5012423	5737	KENTUCKY AVE	Lead	Copper	PEX	Not Replaced	4/19/2018	--	Dps	No	--
5067021	1007	SALTER WAY	Lead	Lead	PEX	Not Replaced	4/19/2018	--	Dps	Yes	--
5058892	123	WILBERT ST	Lead	Lead	PEX	Copper	4/19/2018	4/19/2018	A02_02	No	--
5058440	4	LOWEN ST	Lead	Lead	PEX	Copper	4/20/2018	4/20/2018	A02_02	No	--
5011433	248	SPAHR ST	Lead	Lead	PEX	Not Replaced	4/20/2018	--	Dps	Yes	--
5029236	6602	DEARY ST	Lead	Lead	PEX	Not Replaced	4/21/2018	--	Dps	Yes	--
5058815	181	BELONDA ST	Lead	Lead	PEX	Copper	4/23/2018	4/23/2018	A02_02	No	--
5075735	4063	GRIZELLA ST	Lead	Copper	PEX	Not Replaced	4/23/2018	--	A03_01	No	--
5074385	26	WALDORF ST	Lead	Unknown	PEX	Copper	4/23/2018	4/23/2018	A03_01	No	--
5074376	52	WALDORF ST	Lead	Lead	PEX	Copper	4/23/2018	4/23/2018	A03_01	No	--
5058821	155	BELONDA ST	Lead	Lead	PEX	Copper	4/24/2018	4/24/2018	A02_02	No	--

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5058809	473	BELONDA ST	Lead	Lead	PEX	Not Replaced	4/24/2018	--	A02_02	Yes	--
5058807	479	BELONDA ST	Lead	Lead	PEX	Copper	4/24/2018	4/24/2018	A02_02	No	--
5061334	240	LEUIA ST	Lead	Copper	PEX	Not Replaced	4/24/2018	--	Ops	No	--
5074383	32	WALDORF ST	Lead	Lead	PEX	Copper	4/24/2018	4/24/2018	A03_01	No	--
5074375	56	WALDORF ST	Lead	Lead	PEX	Copper	4/24/2018	4/24/2018	A03_01	No	--
5074373	64	WALDORF ST	Lead	Lead	PEX	Copper	4/24/2018	4/24/2018	A03_01	No	--
5074410	3912	FRANKLIN RD	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	A03_01	No	--
5049657	909	KENNEBEC ST	Lead	Lead	PEX	Not Replaced	4/25/2018	--	Ops	Yes	--
5075527	114	MONTANA ST	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	A03_01	No	--
5038426	5926	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	A05_05	No	--
5038432	5948	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	A05_05	No	--
5074372	100	WALDORF ST	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	A03_01	No	--
5074382	34	WALDORF ST	Lead	Lead	PEX	Copper	4/25/2018	4/25/2018	A03_01	No	--
5058466	401	BELONDA ST	Lead	Lead	PEX	Not Replaced	4/26/2018	--	A02_02	Yes	--
5038330	5848	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/26/2018	4/26/2018	A05_05	No	--
5075752	112	RUTLAND ST	Lead	Unknown	PEX	Copper	4/26/2018	4/26/2018	A03_01	No	--
5074380	38	WALDORF ST	Lead	Lead	PEX	Copper	4/26/2018	4/26/2018	A03_01	No	--
5074400	39	WALDORF ST	Lead	Lead	PEX	Copper	4/26/2018	4/26/2018	A03_01	No	--
5074378	42	WALDORF ST	Lead	Lead	PEX	Copper	4/26/2018	4/26/2018	A03_01	No	--
5010271	4747	BAYARD ST	Lead	Copper	PEX	Not Replaced	4/27/2018	--	Ops	No	--
5075730	4043	GRIZELLA ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A03_01	No	--
5075747	4052	GRIZELLA ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A03_01	No	--
5038415	5907	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A05_05	No	--
5038424	5922	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A05_05	No	--
5038425	5924	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A05_05	No	--
5055435	2675	S 18TH ST EXT	Lead	Copper	PEX	Not Replaced	4/27/2018	--	Ops	No	--
5074377	44	WALDORF ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A03_01	No	--
5058894	109	WILBERT ST	Lead	Lead	PEX	Not Replaced	4/27/2018	--	A02_02	Yes	--
5058902	114	WILBERT ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A02_02	No	--

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5058845	211	WILBERT ST	Lead	Lead	PEX	Copper	4/27/2018	4/27/2018	A02_02	No	--
5024765	5439	PENN AVE	Lead	Copper	PEX	Not Replaced	4/29/2018	--	Ops	No	--
5059379	469	NORTON ST	Lead	Copper	PEX	Not Replaced	4/30/2018	--	Ops	No	--
5038421	5912	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A05_05	No	--
5038423	5920	PHILLIPS AVE	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A05_05	No	--
5059019	411	PROSPECT ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A02_02	No	--
5059018	413	PROSPECT ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A02_02	No	--
5075706	10	RADIUM ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A03_01	No	--
5075753	116	RUTLAND ST	Lead	Unknown	PEX	Copper	4/30/2018	4/30/2018	A03_01	No	--
5074381	36	WALDORF ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A03_01	No	--
5074399	37	WALDORF ST	Lead	Lead	PEX	Copper	4/30/2018	4/30/2018	A03_01	No	--
5075758	4008	GRIZELLA ST	Lead	Lead	PEX	Not Replaced	5/1/2018	--	A03_01	Yes	--
5040476	6925	MCPHERSON BLVD	Lead	Lead	PEX	Not Replaced	5/1/2018	--	Ops	Yes	--
5038410	5925	PHILLIPS AVE	Lead	Copper	PEX	Copper	5/1/2018	5/1/2018	A05_05	No	--
5075704	6	RADIUM ST	Lead	Lead	PEX	Copper	5/1/2018	5/1/2018	A03_01	No	--
5010426	700	SAINT JAMES ST	Lead	Copper	PEX	Not Replaced	5/1/2018	--	Ops	No	--
5067079	614	SUISMON ST	Lead	Copper	PEX	Not Replaced	5/1/2018	--	Ops	No	--
5074702	205	WALDORF ST	Lead	Lead	PEX	Copper	5/1/2018	5/1/2018	A03_01	No	--
5038325	5828	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/2/2018	5/2/2018	A05_05	No	--
5038411	5923	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/2/2018	5/2/2018	A05_05	No	--
5038428	5932	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/2/2018	5/2/2018	A05_05	No	--
5067080	612	SUISMON ST	Lead	Copper	PEX	Not Replaced	5/2/2018	--	Ops	No	--
5029730	541	LOWELL ST	Lead	Lead	PEX	Not Replaced	5/3/2018	--	Ops	Yes	--
5029731	543	LOWELL ST	Lead	Lead	PEX	Not Replaced	5/3/2018	--	Ops	Yes	--
5075707	12	RADIUM ST	Lead	Unknown	PEX	Copper	5/3/2018	5/3/2018	A03_01	No	--
5052816	51	5 TH ST	Lead	Copper	PEX	Not Replaced	5/3/2018	--	Ops	No	--
5065777	1306	MONTEREY ST	Lead	Copper	Copper	Not Replaced	5/4/2018	--	Ops	No	--
5058838	464	NATCHEZ ST	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A02_02	No	--
5038326	5832	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A05_05	No	--

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5038327	5834	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A05_05	No	--
5038332	5854	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A05_05	No	--
5075711	28	RADIUM ST	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A03_01	No	--
5074366	31	RADIUM ST	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A03_01	No	--
5075713	36	RADIUM ST	Lead	Lead	PEX	Copper	5/4/2018	5/4/2018	A03_01	No	--
5035430	5483	WILKINS AVE	Lead	Copper	PEX	Not Replaced	5/4/2018	--	Ops	No	--
5024579	437	N GRAHAM ST	Lead	Copper	PEX	Not Replaced	5/5/2018	--	Ops	No	--
5078653	1366	OAKHILL ST	Lead	Copper	PEX	Not Replaced	5/7/2018	--	Ops	No	--
5038321	5814	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/7/2018	5/7/2018	A05_05	No	--
5038430	5940	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/7/2018	5/7/2018	A05_05	No	--
5038322	5816	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/8/2018	5/8/2018	A05_05	No	--
5038422	5916	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/8/2018	5/8/2018	A05_05	No	--
5066763	518	AVERY ST	Lead	Copper	PEX	Not Replaced	5/9/2018	--	Ops	No	--
5045333	4102	LYDIA ST	Lead	Lead	PEX	Not Replaced	5/9/2018	--	Ops	Yes	--
5038412	5919	PHILLIPS AVE	Lead	Lead	PEX	Not Replaced	5/9/2018	--	A05_05	Yes	--
5038427	5928	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/9/2018	5/9/2018	A05_05	No	--
5038409	5929	PHILLIPS AVE	Lead	Lead	PEX	Not Replaced	5/9/2018	--	A05_05	Yes	--
5038408	5933	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/9/2018	5/9/2018	A05_05	No	--
5075709	20	RADIUM ST	Lead	Copper	PEX	Not Replaced	5/9/2018	--	A03_01	No	--
5075726	4025	GRIZELLA ST	Lead	Lead	PEX	Copper	5/10/2018	5/10/2018	A03_01	No	--
5003097	137	CHESTERFIELD RD	Lead	Lead	Copper	Not Replaced	5/11/2018	--	Ops	Yes	--
5013145	4701	LORIGAN ST	Lead	Copper	PEX	Not Replaced	5/11/2018	--	Ops	No	--
5048002	126	TIPTON ST	Lead	Lead	PEX	Not Replaced	5/11/2018	--	Ops	Yes	--
5006851	3322	WEBSTER AVE	Lead	Lead	PEX	Copper	5/11/2018	5/11/2018	A06_06	No	--
5025804	5718	WELLESLEY AVE	Lead	Lead	PEX	Not Replaced	5/12/2018	--	Ops	Yes	--
5016127	245	45TH ST	Lead	Lead	PEX	Not Replaced	5/14/2018	--	Ops	Yes	--
5038883	2337	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/14/2018	5/14/2018	A05_05	No	--
5056330	42	ESTELLA AVE	Lead	Lead	PEX	Copper	5/14/2018	5/14/2018	A01_03	No	--
5056355	60	PASADENA ST	Lead	Lead	PEX	Not Replaced	5/14/2018	--	Ops	Yes	--

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5038414	5911	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/14/2018	5/14/2018	A05_05	No	--
5074593	74	SEMICIR ST	Lead	Copper	PEX	Not Replaced	5/14/2018	--	Ops	No	--
5038884	2335	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/15/2018	5/15/2018	A05_05	Yes	--
5056327	52	ESTELLA AVE	Lead	Lead	PEX	Copper	5/15/2018	5/15/2018	A01_03	No	--
5057639	88	ESTELLA AVE	Lead	Lead	PEX	Copper	5/15/2018	5/15/2018	A01_03	No	--
5038346	5835	PHILLIPS AVE	Lead	Lead	PEX	Not Replaced	5/15/2018	--	A05_05	Yes	--
5037346	6329	DARLINGTON RD	Lead	Copper	Copper	Not Replaced	5/16/2018	--	Ops	No	--
5038886	2331	ELDRIDGE ST	Lead	Lead	Copper	Copper	5/16/2018	5/16/2018	A05_05	No	--
5038885	2333	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/16/2018	5/16/2018	A05_05	No	--
5056324	58	ESTELLA AVE	Lead	Lead	PEX	Copper	5/16/2018	5/16/2018	A01_03	No	--
5006911	3336	MCNEIL PL	Lead	Lead	PEX	Copper	5/16/2018	5/16/2018	A06_06	No	--
5014240	331	S EVALINE ST	Lead	Non-Lead	PEX	Not Replaced	5/16/2018	--	Ops	No	--
5006863	3352	WEBSTER AVE	Lead	Lead	PEX	Copper	5/16/2018	5/16/2018	A06_06	No	--
5009264	3606	BANDERA ST	Lead	Copper	PEX	Not Replaced	5/17/2018	--	Ops	No	--
5038267	2317	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A05_05	No	--
5057642	80	ESTELLA AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A01_03	No	--
5057641	82	ESTELLA AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A01_03	No	--
5057640	86	ESTELLA AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A01_03	No	--
5006908	3330	MCNEIL PL	Lead	Lead	PEX	Not Replaced	5/17/2018	--	A06_06	Yes	--
5006915	3344	MCNEIL PL	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A06_06	No	--
5038413	5915	PHILLIPS AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A05_05	No	--
5009962	4917	WALLINGFORD ST	Lead	Copper	PEX	Not Replaced	5/17/2018	--	Ops	No	--
5006857	3340.S	WEBSTER AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A06_06	No	--
5007069	3390	WEBSTER AVE	Lead	Lead	PEX	Copper	5/17/2018	5/17/2018	A06_06	No	--
5038261	2320	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/18/2018	5/18/2018	A05_05	No	--
5057650	63	ESTELLA AVE	Lead	Lead	PEX	Copper	5/18/2018	5/18/2018	A01_03	No	--
5057649	64	ESTELLA AVE	Lead	Lead	PEX	Copper	5/18/2018	5/18/2018	A01_03	No	--
5057648	66	ESTELLA AVE	Lead	Lead	PEX	Copper	5/18/2018	5/18/2018	A01_03	No	--
5057643	78	ESTELLA AVE	Lead	Lead	PEX	Copper	5/18/2018	5/18/2018	A01_03	No	--

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5006913	3340	MCNEIL PL	Lead	Lead	PEX	Copper	5/18/2018	5/18/2018	A06_06	No	--
5053354	163	S 15TH ST	Lead	NoN-Lead	PEX	Not Replaced	5/18/2018	--	Ops	No	--
5021167	5268	WICKLIFF ST	Lead	NoN-Lead	PEX	Not Replaced	5/18/2018	--	Ops	No	--
5057690	417	EDGEMONT ST	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	A01_03	No	--
5038270	2309	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	A05_05	No	--
5038259	2316	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	A05_05	No	--
5057645	74	ESTELLA AVE	Lead	Lead	PEX	Not Replaced	5/21/2018	--	A01_03	Yes	--
5006909	3332	MCNEIL PL	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	A06_06	No	--
5006912	3338	MCNEIL PL	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	A06_06	No	--
5038287	2301	SHERBROOK ST	Lead	Lead	PEX	Copper	5/21/2018	5/21/2018	A05_05	No	--
5006846	3312	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	5/21/2018	--	A06_06	Yes	--
5042179	7416	BEN HUR ST	Lead	Copper	PEX	Not Replaced	5/22/2018	--	Ops	No	--
5057691	415	EDGEMONT ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A01_03	No	--
5057707	426	EDGEMONT ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A01_03	No	--
5038252	2300	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A05_05	No	--
5038269	2311	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A05_05	No	--
5038257	2312	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A05_05	No	--
5057637	92	ESTELLA AVE	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A01_03	No	--
5006906	3326	MCNEIL PL	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A06_06	No	--
5053000	20	S 14TH ST	Lead	Copper	PEX	Not Replaced	5/22/2018	--	Ops	No	--
5038282	2317	SHERBROOK ST	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A05_05	No	--
5006847	3310	WEBSTER AVE	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A06_06	No	--
5006854	3332	WEBSTER AVE	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A06_06	No	--
5007070	3392	WEBSTER AVE	Lead	Lead	Copper	Copper	5/22/2018	5/22/2018	A06_06	No	--
5006878	3395	WEBSTER AVE	Lead	Lead	PEX	Copper	5/22/2018	5/22/2018	A06_06	No	--
5057694	407	EDGEMONT ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A01_03	No	--
5056448	438	EDGEMONT ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A01_03	No	--
5056450	444	EDGEMONT ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A01_03	No	--
5038854	2326	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A05_05	No	--

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5038858	2338	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A05_05	No	--
5075725	4019	GRIZELLA ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A03_01	No	--
5057721	404	KINGSBORO ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A01_03	No	--
5057724	410	KINGSBORO ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A01_03	No	--
5006910	3334	MCNEIL PL	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A06_06	No	--
5038286	2303	SHERBROOK ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A05_05	No	--
5038284	2309	SHERBROOK ST	Lead	Lead	PEX	Copper	5/23/2018	5/23/2018	A05_05	No	--
5042175	7419	BEN HUR ST	Lead	Lead	PEX	Not Replaced	5/24/2018	--	Ops	Yes	--
5056444	430	EDGEMONT ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A01_03	No	--
5056445	432	EDGEMONT ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A01_03	No	--
5038258	2314	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A05_05	No	--
5038855	2330	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A05_05	No	--
5056455	435	KINGSBORO ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A01_03	No	--
5006914	3342	MCNEIL PL	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A06_06	No	--
5038272	5826	NICHOLSON ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A05_05	No	--
5038914	2329	SHERBROOK ST	Lead	Lead	PEX	Copper	5/24/2018	5/24/2018	A05_05	No	--
5043702	7440	BEN HUR ST	Lead	Copper	Copper	Not Replaced	5/25/2018	--	Ops	No	--
5057698	404	EDGEMONT ST	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	A01_03	No	--
5056442	429	EDGEMONT ST	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	A01_03	No	--
5006905	3324	MCNEIL PL	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	A06_06	No	--
5038275	2304	SHERBROOK ST	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	A05_05	No	--
5038285	2307	SHERBROOK ST	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	A05_05	No	--
5006856	3340	WEBSTER AVE	Lead	Lead	PEX	Copper	5/25/2018	5/25/2018	A06_06	No	--
5043705	7428	BEN HUR ST	Lead	Copper	PEX	Not Replaced	5/29/2018	--	Ops	No	--
5057693	411	EDGEMONT ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A01_03	No	--
5056447	436	EDGEMONT ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A01_03	No	--
5056438	437	EDGEMONT ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A01_03	No	--
5038254	2306	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A05_05	No	--
5038887	2329	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A05_05	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5056454	439	KINGSBORO ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A01_03	No	--
5006907	3328	MCNEIL PL	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A06_06	No	--
5006916	3346	MCNEIL PL	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A06_06	No	--
5006918	3350	MCNEIL PL	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A06_06	No	--
5038895	2342	SHERBROOK ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A05_05	No	--
5006896	3349	WEBSTER AVE	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A06_06	No	--
5006885	3377	WEBSTER AVE	Lead	Lead	Copper	Copper	5/29/2018	5/29/2018	A06_06	No	--
5006875	3380	WEBSTER AVE	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A06_06	No	--
5041956	1457	BARNESDALE ST	Lead	Lead	PEX	Copper	5/29/2018	5/29/2018	A08_08	No	--
5057703	414	EDGEMONT ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A01_03	No	--
5038867	2352	ELDRIDGE ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A05_05	No	--
5056299	428	IBERIA ST	Lead	Copper	PEX	Not Replaced	5/30/2018	--	Ops	No	Yes
5057725	412	KINGSBORO ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A01_03	No	--
5057712	413	KINGSBORO ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A01_03	No	--
5057728	418	KINGSBORO ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A01_03	No	--
5056459	424	KINGSBORO ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A01_03	No	--
5038314	5813	NICHOLSON ST	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A05_05	No	--
5044439	1127	RICHMOND ST	Lead	Copper	PEX	Not Replaced	5/30/2018	--	Ops	No	No
5029755	6507	SHETLAND AVE	Lead	PEX	PEX	Not Replaced	5/30/2018	--	Ops	No	Yes
5006897	3347	WEBSTER AVE	Lead	Lead	PEX	Copper	5/30/2018	5/30/2018	A06_06	No	--
5056476	105	CRAIGHEAD ST	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A01_03	No	--
5057636	94	ESTELLA AVE	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A01_03	No	--
5057627	309	KINGSBORO ST	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A01_03	No	--
5057630	319	KINGSBORO ST	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A01_03	No	--
5056463	434	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	5/31/2018	--	A01_03	Yes	--
5038313	5815	NICHOLSON ST	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A05_05	No	--
5038896	2344	SHERBROOK ST	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A05_05	No	--
5006898	3345	WEBSTER AVE	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A06_06	No	--
5006702	3435	WEBSTER AVE	Lead	Lead	PEX	Copper	5/31/2018	5/31/2018	A06_06	No	--

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5024062	1715	CHISLETT ST	Lead	Copper	PEX	Not Replaced	6/1/2018	--	Ops	No	Yes
5056452	108	CRAIGHEAD ST	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A01_03	No	--
5056473	111	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	6/1/2018	--	A01_03	Yes	--
5056440	433	EDGEMONT ST	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A01_03	No	--
5038265	2321	ELDRIDGE ST	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A05_05	No	--
5038264	2323	ELDRIDGE ST	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A05_05	No	--
5038881	2341	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	6/1/2018	--	A05_05	Yes	--
5057715	403	KINGSBORO ST	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A01_03	No	--
5056460	426	KINGSBORO ST	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A01_03	No	--
5056465	428	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/1/2018	--	A01_03	Yes	--
5056462	430	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/1/2018	--	A01_03	Yes	--
5056464	436	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/1/2018	--	A01_03	Yes	--
5006701	3437	WEBSTER AVE	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A06_06	No	--
5006700	3439	WEBSTER AVE	Lead	Lead	PEX	Copper	6/1/2018	6/1/2018	A06_06	No	--
5080525	3834	WILKSBORO ST	Lead	Copper	PEX	Not Replaced	6/1/2018	--	Ops	No	No
5056469	443	WARRINGTON AVE	Lead	Lead	PEX	Copper	6/2/2018	6/2/2018	A01_03	No	--
5061785	843	BOGGS AVE	Lead	Lead	PEX	Copper	6/4/2018	6/4/2018	A04_04	No	--
5057686	427	EDGEMONT ST	Lead	Lead	PEX	Not Replaced	6/4/2018	--	A01_03	Yes	--
5067866	1238	HIGH ST	Lead	Lead	PEX	Not Replaced	6/4/2018	--	Ops	Yes	No
5057727	416	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/4/2018	--	A01_03	Yes	--
5057729	420	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/4/2018	--	A01_03	Yes	--
5025496	1418	N HIGHLAND AVE	Lead	Copper	PEX	Not Replaced	6/4/2018	--	Ops	No	--
5038307	5831	NICHOLSON ST	Lead	Lead	PEX	Copper	6/4/2018	6/4/2018	A05_05	No	--
5057820	110	BIGHAM ST	Lead	PEX	PEX	Not Replaced	6/5/2018	--	Ops	No	--
5035622	1243	DENNISTON ST	Lead	Copper	Copper	Not Replaced	6/5/2018	--	Ops	No	--
5056335	28	ESTELLA AVE	Lead	Lead	PEX	Not Replaced	6/5/2018	--	A01_03	Yes	--
5057711	415	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/5/2018	--	A01_03	Yes	--
5056453	441	KINGSBORO ST	Lead	Lead	PEX	Not Replaced	6/5/2018	--	A01_03	Yes	--
5006920	3354	MCNEIL PL	Lead	Lead	PEX	Copper	6/5/2018	6/23/2018	A06_06	No	--

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5006978	3378	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	A06_06	No	--
5007026	3426	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	A06_06	No	--
5038306	5835	NICHOLSON ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	A05_05	No	--
5038903	2363	SHERBROOK ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	A05_05	No	--
5061621	20	SOFFEL ST	Lead	Lead	PEX	Copper	6/5/2018	6/5/2018	A04_04	No	--
5043696	7437	BEN HUR ST	Lead	Copper	PEX	Not Replaced	6/6/2018	--	Ops	No	No
5056467	433	E WARRINGTON AVE	Lead	Copper	PEX	Not Replaced	6/6/2018	--	A01_03	No	--
5056468	437	E WARRINGTON AVE	Lead	Copper	PEX	Not Replaced	6/6/2018	--	A01_03	No	--
5006976	3374	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A06_06	No	--
5007025	3424	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A06_06	No	--
5038304	5839	NICHOLSON ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A05_05	No	--
5059715	416	ONEIDA ST	Lead	Copper	PEX	Not Replaced	6/6/2018	--	Ops	No	--
5038274	2300	SHERBROOK ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A05_05	No	--
5038276	2306	SHERBROOK ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A05_05	No	--
5038906	2353	SHERBROOK ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A05_05	No	--
5006855	3334	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	6/6/2018	--	A06_06	Yes	--
5061589	740	WILLS ST	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A04_04	No	--
5075651	4137	FRANKLIN RD	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A11_01	No	--
5075650	4139	FRANKLIN RD	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A11_01	No	--
5075663	4067	FRANKLIN RD	Lead	Lead	PEX	Copper	6/6/2018	6/6/2018	A11_01	No	--
5061710	711	BOGGS AVE	Lead	Lead	PEX	Copper	6/7/2018	6/7/2018	A04_04	No	--
5035524	5719	FAIR OAKS ST	Lead	Copper	PEX	Not Replaced	6/7/2018	--	Ops	No	--
5006753	3449	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/7/2018	6/7/2018	A06_06	No	--
5058864	516	NATCHEZ ST	Lead	Lead	PEX	Copper	6/7/2018	6/7/2018	A12_02	No	--
5058865	518	NATCHEZ ST	Lead	Copper	PEX	Not Replaced	6/7/2018	--	A12_02	No	--
5038302	5845	NICHOLSON ST	Lead	Lead	PEX	Copper	6/7/2018	6/7/2018	A05_05	No	--
5038301	5847	NICHOLSON ST	Lead	Lead	PEX	Copper	6/7/2018	6/7/2018	A05_05	No	--
5075653	4133	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	6/7/2018	--	A11_01	No	--
5075652	4135	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	6/7/2018	--	A11_01	No	--

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5079025	1037	HALL ST	Lead	Copper	PEX	Not Replaced	6/8/2018	--	Ops	No	--
5006830	3343	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/8/2018	6/8/2018	A06_06	No	--
5006977	3376	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/8/2018	6/8/2018	A06_06	No	--
5006744	3483	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/8/2018	6/8/2018	A06_06	No	--
5038891	2330	SHERBROOK ST	Lead	Lead	PEX	Copper	6/8/2018	6/8/2018	A05_05	No	--
5074388	4008	FRANKLIN RD	Lead	Lead	PEX	Copper	6/8/2018	6/8/2018	A11_01	No	--
5045561	626	BLANTON ST	Lead	Lead	PEX	Not Replaced	6/9/2018	--	Ops	Yes	--
5044940	576	ALGER ST	Lead	Copper	PEX	Not Replaced	6/10/2018	--	Ops	No	--
5061667	656	BOGGS AVE	Lead	Lead	PEX	Copper	6/11/2018	6/11/2018	A04_04	No	--
5061612	724	BOGGS AVE	Lead	Lead	PEX	Copper	6/11/2018	6/11/2018	A04_04	No	--
5007362	762	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/11/2018	6/11/2018	A06_06	No	--
5006746	3479	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/11/2018	6/11/2018	A06_06	No	--
5006748	3535	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/11/2018	6/11/2018	A06_06	No	--
5028976	1319	OLIVANT ST	Lead	Copper	PEX	Not Replaced	6/11/2018	--	Ops	No	--
5004420	3321	WARD ST	Lead	Copper	PEX	Not Replaced	6/11/2018	--	Ops	No	--
5074391	4008	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	6/11/2018	--	A11_01	No	--
5074392	4008	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	6/11/2018	--	A11_01	No	--
5061707	703	BOGGS AVE	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A04_04	No	--
5007360	758	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A06_06	No	--
5007363	764	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A06_06	No	--
5005205	3731	CHILDS	Lead	PEX	PEX	Not Replaced	6/12/2018	--	Ops	No	--
5006751	3453	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A06_06	No	--
5006745	3481	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A06_06	No	--
5038451	5905	NICHOLSON ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A05_05	No	--
5038457	5906	NICHOLSON ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A05_05	No	--
5019774	5142	RUBY	Lead	PEX	PEX	Not Replaced	6/12/2018	--	Ops	No	--
5038913	2331	SHERBROOK ST	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A05_05	No	--
5061627	701	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	6/12/2018	--	A04_04	Yes	--
5061626	709	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A04_04	No	--

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5075701	4044	FRANKLIN RD	Lead	Lead	PEX	Copper	6/12/2018	6/12/2018	A11_01	No	--
5028896	1244	ALBUM ST	Lead	LEAD	PEX	Not Replaced	6/13/2018	--	Ops	Yes	--
5036635	5517	AYLESBORO AVE	Lead	COPPER	PEX	Not Replaced	6/13/2018	--	Ops	No	--
5006960	738	BRYN MAWR RD	Lead	Copper	Copper	Not Replaced	6/13/2018	--	A06_06	No	--
5006965	765	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A06_06	No	--
5044117	577	E END AVE	Lead	COPPER	Copper	Not Replaced	6/13/2018	--	Ops	NO	--
5006756	3439	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A06_06	No	--
5038281	2321	SHERBROOK ST	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A05_05	No	--
5061649	631	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A04_04	No	--
5061554	640	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A04_04	No	--
5056164	66	HARWOOD ST	Lead	Lead	PEX	Copper	6/13/2018	6/14/2018	A13_03	No	--
5056158	54	HARWOOD ST	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A13_03	No	--
5075657	4125	FRANKLIN RD	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A11_01	No	--
5075700	4040	FRANKLIN RD	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A11_01	No	--
5075656	4127	FRANKLIN RD	Lead	Lead	PEX	Copper	6/13/2018	6/13/2018	A11_01	No	--
5061670	336	ARION ST	Lead	Lead	PEX	Copper	6/14/2018	6/4/2018	A04_04	No	--
5006819	726	BRYN MAWR RD	Lead	Copper	PEX	Not Replaced	6/14/2018	--	A06_06	No	--
5006964	767	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A06_06	No	--
5073846	248	KENNEDY AVE	Lead	COPPER	PEX	Not Replaced	6/14/2018	--	Ops	No	--
5061215	1	LELIA ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A04_04	No	--
5061213	4	LELIA ST	Lead	Copper	PEX	Not Replaced	6/14/2018	--	A04_04	No	--
5007021	3412	MILWAUKEE ST	Lead	Lead	PEX	Copper	6/14/2018	6/4/2018	A06_06	No	--
5038305	5837	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/8/2018	A05_05	No	--
5038298	5859	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/11/2018	A05_05	No	--
5038459	5910	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/12/2018	A05_05	No	--
5038449	5913	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A05_05	No	--
5038460	5914	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A05_05	No	--
5038461	5920	NICHOLSON ST	Lead	Lead	PEX	Copper	6/14/2018	6/13/2018	A05_05	No	--
5038280	2320	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/13/2018	A05_05	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5038889	2324	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A05_05	No	--
5038890	2326	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A05_05	No	--
5038892	2332	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/11/2018	A05_05	No	--
5038912	2333	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/7/2018	A05_05	No	--
5038894	2335	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/12/2018	A05_05	No	--
5038908	2341	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/4/2018	A05_05	No	--
5038909	2343	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/4/2018	A05_05	No	--
5038898	2348	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/1/2018	A05_05	No	--
5038905	2351	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/6/2018	A05_05	No	--
5038902	2361	SHERBROOK ST	Lead	Lead	PEX	Copper	6/14/2018	6/5/2018	A05_05	No	--
5061202	613	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	6/14/2018	--	A04_04	No	--
5061201	615	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	6/14/2018	--	A04_04	No	--
5006899	3343	WEBSTER AVE	Lead	Lead	PEX	Copper	6/14/2018	6/4/2018	A06_06	No	--
5006887	3373	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	6/14/2018	--	A06_06	Yes	--
5006872	3374	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	6/14/2018	--	A06_06	Yes	--
5056169	67	HARWOOD ST	Lead	Copper	PEX	Not Replaced	6/14/2018	--	A13_03	No	--
5075699	4038	FRANKLIN RD	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A11_01	No	--
5075679	4126 1/2	FRANKLIN RD	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A11_01	No	--
5056153	42	HARWOOD ST	Lead	Copper	PEX	Not Replaced	6/14/2018	--	A13_03	No	--
5056179	41	HARWOOD ST	Lead	Lead	PEX	Copper	6/14/2018	6/14/2018	A13_03	No	--
5007046	818	ADELAIDE ST	Lead	Lead	Copper	Copper	6/15/2018	6/15/2018	A06_06	No	--
5006958	732	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A06_06	No	--
5007365	768	BRYN MAWR RD	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A06_06	No	--
5038296	5903	NICHOLSON ST	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A05_05	No	--
5038446	5925	NICHOLSON ST	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A05_05	No	--
5059556	46	RUTH ST	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A01_03	No	--
5038279	2316	SHERBROOK ST	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A05_05	No	--
5061194	612	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A04_04	No	--
5061556	644	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	6/15/2018	--	A04_04	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5061566	702	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	6/15/2018	--	A04_04	No	--
5075671	4110	FRANKLIN RD	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A11_01	No	--
5075675	4120	FRANKLIN RD	Lead	Lead	PEX	Copper	6/15/2018	6/15/2018	A11_01	No	--
5061200	617	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	6/16/2018	--	A04_04	Yes	--
5075678	4126	FRANKLIN RD	Lead	Lead	PEX	Copper	6/16/2018	6/16/2018	A11_01	No	--
5007364	766	BRYN MAWR RD	Lead	Lead	PEX	Not Replaced	6/18/2018	--	A06_06	Yes	--
5038447	5921	NICHOLSON ST	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A05_05	No	--
5038444	2284	SHADY AVE	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A05_05	No	--
5038278	2310	SHERBROOK ST	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A05_05	No	--
5061560	652	SOUTHERN AVE	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A04_04	No	--
5061585	721	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	6/18/2018	--	A04_04	Yes	--
5056155	48	HARWOOD ST	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A13_03	No	--
5056177	45	HARWOOD ST	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A13_03	No	--
5056159	56	HARWOOD ST	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A13_03	No	--
5074393	4004	PERRYSVILLE AVE	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A11_01	No	--
5075680	4128	FRANKLIN RD	Lead	Lead	PEX	Copper	6/18/2018	6/18/2018	A11_01	No	--
5007050	826	ADELAIDE ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A06_06	No	--
5007051	828	ADELAIDE ST	Lead	Lead	PEX	Not Replaced	6/19/2018	--	A06_06	Yes	--
5061772	802	BOGGS AVE	Lead	Copper	PEX	Not Replaced	6/19/2018	--	A04_04	No	--
5061777	816	BOGGS AVE	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A04_04	No	--
5006972	739	BRYN MAWR RD	Lead	Lead	PEX	Not Replaced	6/19/2018	--	A06_06	Yes	--
5007359	750	BRYN MAWR RD	Lead	Lead	PEX	Not Replaced	6/19/2018	--	A06_06	Yes	--
5061206	2	LELIA ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A04_04	No	--
5038448	5917	NICHOLSON ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A05_05	No	--
5038445	5929	NICHOLSON ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A05_05	No	--
5059555	44	RUTH ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A01_03	No	--
5059554	46 1/2	RUTH ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A01_03	No	--
5021117	171	STANTON CT E	Lead	COPPER	PEX	Not Replaced	6/19/2018	--	Ops	No	--
5056157	52	HARWOOD ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A13_03	No	--

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5074390	4012	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	6/19/2018	--	A11_01	No	--
5059249	248	DILWORTH ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A12_02	No	--
5056161	60	HARWOOD ST	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A13_03	No	--
5075673	4112	FRANKLIN RD	Lead	Lead	PEX	Copper	6/19/2018	6/19/2018	A11_01	No	--
5075665	4063	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	6/19/2018	--	A11_01	No	--
5007052	830	ADELAIDE ST	Lead	Lead	PEX	Not Replaced	6/20/2018	--	A06_06	Yes	--
5038823	6309	ALDERSON ST	Lead	LEAD	PEX	Not Replaced	6/20/2018	--	Ops	Yes	--
5070362	1616	MONTEREY ST	Lead	COPPER	PEX	Not Replaced	6/20/2018	--	A16_06	No	--
5038452	2319	PITTOCK ST	Lead	Lead	PEX	Copper	6/20/2018	6/20/2018	A05_05	No	--
5038926	2360	PITTOCK ST	Lead	Lead	PEX	Copper	6/20/2018	6/20/2018	A05_05	No	--
5061630	25	SOFFEL ST	Lead	Copper	PEX	Not Replaced	6/20/2018	--	A04_04	No	--
5061584	719	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	6/20/2018	--	A04_04	No	--
5061741	806	SOUTHERN AVE	Lead	Copper	PEX	Not Replaced	6/20/2018	--	A04_04	No	--
5056388	77	HARWOOD ST	Lead	Lead	PEX	Copper	6/20/2018	6/20/2018	A13_03	No	--
5056389	73	HARWOOD ST	Lead	Lead	PEX	Copper	6/20/2018	6/20/2018	A13_03	No	--
5056390	71	HARWOOD ST	Lead	Galvanized Iron	PEX	Copper	6/20/2018	6/20/2018	A13_03	No	--
5075694	4018	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	6/20/2018	--	A11_01	No	--
5059247	238	DILWORTH ST	Lead	Lead	PEX	Copper	6/20/2018	6/20/2018	A12_02	No	--
5075672	4114	FRANKLIN RD	Lead	Copper	PEX	Not Replaced	6/20/2018	--	A11_01	No	--
5075693	4016	PERRYSVILLE AVE	Lead	Copper	PEX	Not Replaced	6/20/2018	--	A11_01	No	--
5075600	4061	VINCETON ST	Lead	Lead	PEX	Copper	6/20/2018	6/20/2018	A11_01	No	--
5007031	728	ADELAIDE ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A06_06	No	--
5061669	650	BOGGS AVE	Lead	Lead	PEX	Not Replaced	6/21/2018	--	A04_04	Yes	--
5038263	2324	ELDRIDGE ST	Lead	Lead	PEX	Not Replaced	6/21/2018	--	A05_05	Yes	--
5038868	2350	ELDRIDGE ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A05_05	No	--
5061255	15	LELIA ST	Lead	Lead	PEX	Not Replaced	6/21/2018	--	A04_04	Yes	--
5061256	9	LELIA ST	Lead	Lead	PEX	Copper	6/21/2018	6/27/2018	A04_04	No	--
5038919	2318	PITTOCK ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A05_05	No	--
5061631	23	SOFFEL ST	Lead	Lead	PEX	Not Replaced	6/21/2018	--	A04_04	Yes	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5056386	81	HARWOOD ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A13_03	No	--
5075697	4030	FRANKLIN RD	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A11_01	No	--
5056170	63	HARWOOD ST	Lead	Copper	PEX	Not Replaced	6/21/2018	--	A13_03	No	--
5075599	4065	VINCETON ST	Lead	Unknown	PEX	Copper	6/21/2018	6/21/2018	A11_01	No	--
5056162	62	HARWOOD ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A13_03	No	--
5074321	4004	VINCETON ST	Lead	Lead	PEX	Copper	6/21/2018	6/21/2018	A11_01	No	--
5049624	4150	WINDSOR ST	Lead	Lead	Copper	Copper	6/21/2018	6/21/2018	A15_05_B	No	--
5047856	5024	BLAIR ST	Lead	COPPER	PEX	Not Replaced	6/22/2018	--	Ops	No	--
5010098	10	BROWNELL ST	Lead	COPPER	PEX	Not Replaced	6/22/2018	--	Ops	No	--
5068598	1745	COWLEY ST	Lead	COPPER	Copper	Not Replaced	6/22/2018	--	Ops	No	--
5006831	3341	MILWAUKEE ST	Lead	Lead	PEX	Not Replaced	6/22/2018	--	A06_06	Yes	--
5006822	3348	MILWAUKEE ST	Lead	Lead	PEX	Not Replaced	6/22/2018	--	A06_06	Yes	--
5006828	3365	MILWAUKEE ST	Lead	Lead	PEX	Not Replaced	6/22/2018	--	A06_06	Yes	--
5042418	1853	SHAW AVE	Lead	COPPER	PEX	Not Replaced	6/22/2018	--	Ops	No	--
5038277	2308	SHERBROOK ST	Lead	Lead	PEX	Copper	6/22/2018	6/22/2018	A05_05	No	--
5038915	2327	SHERBROOK ST	Lead	Lead	PEX	Not Replaced	6/22/2018	--	A05_05	Yes	--
5006727	3482	WEBSTER AVE	Lead	Lead	PEX	Copper	6/22/2018	6/22/2018	A06_06	No	--
5075601	4055	VINCETON ST	Lead	Unknown	PEX	Copper	6/22/2018	6/22/2018	A11_01	No	--
5075504	18	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/22/2018	6/22/2018	A11_01	No	--
5075558	15	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/22/2018	6/22/2018	A11_01	No	--
5019834	5267	CARNEGIE ST	Lead	PEX	PEX	Not Replaced	6/23/2018	--	Ops	No	--
5006719	3452	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	6/23/2018	--	A06_06	Yes	--
5057538	115	HARWOOD ST	Lead	Copper	PEX	Not Replaced	6/23/2018	--	A13_03	No	--
5057540	109	HARWOOD ST AKA 109 HARWOOD	Lead	Copper	PEX	Not Replaced	6/23/2018	--	A13_03	No	--
5074326	4018	VINCETON ST	Lead	Unknown	PEX	Copper	6/23/2018	6/23/2018	A11_01	No	--
5057548	91	HARWOOD ST	Lead	Lead	Copper	Copper	6/23/2018	6/23/2018	A13_03	No	--
5075505	12	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/23/2018	6/23/2018	A11_01	No	--
5045610	843	DEELY ST	Lead	COPPER	PEX	Not Replaced	6/24/2018	--	Ops	No	--
5057550	87	HARWOOD ST	Lead	Lead	PEX	Copper	6/24/2018	6/24/2018	A13_03	No	--

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5057545	97	HARWOOD ST	Lead	Lead	PEX	Copper	6/24/2018	6/24/2018	A13_03	No	--
5057544	99	HARWOOD ST	Lead	Copper	PEX	Not Replaced	6/24/2018	--	A13_03	No	--
5038921	2324	PITTOCK ST	Lead	Lead	PEX	Copper	6/25/2018	6/25/2018	A05_05	No	--
5061205	605	SOUTHERN AVE	Lead	Lead	PEX	Not Replaced	6/25/2018	--	A04_04	Yes	--
5036583	6517	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/25/2018	6/25/2018	A08_08	No	--
5057539	111	HARWOOD ST	Lead	Lead	PEX	Copper	6/25/2018	6/25/2018	A13_03	No	--
5036582	6519	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	6/25/2018	--	A08_08	No	--
5059243	226	DILWORTH ST	Lead	Copper	PEX	Not Replaced	6/25/2018	--	A12_02	No	--
5057541	105	HARWOOD ST	Lead	Lead	PEX	Copper	6/25/2018	6/25/2018	A13_03	No	--
5059248	246	DILWORTH ST	Lead	Copper	PEX	Not Replaced	6/25/2018	--	A12_02	No	--
5049560	973	LILAC ST	Lead	Lead	Copper	Copper	6/25/2018	6/25/2018	A15_05_B	No	--
5075603	4047	VINCETON ST	Lead	Copper	PEX	Not Replaced	6/25/2018	--	A11_01	No	--
5059254	247	DILWORTH ST	Lead	Copper	PEX	Not Replaced	6/25/2018	--	A12_02	No	--
5074325	4016	VINCETON ST	Lead	Lead	PEX	Copper	6/25/2018	6/25/2018	A11_01	No	--
5075667	4100	FRANKLIN RD	Lead	Lead	PEX	Not Replaced	6/25/2018	--	A11_01	Yes	--
5057530	106	SECANE ST	Lead	Copper	PEX	Not Replaced	6/25/2018	--	A13_03	No	--
5007036	740	ADELAIDE ST	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5007040	752	ADELAIDE ST	Lead	Lead	PEX	Terminated	6/26/2018	--	A06_06	No	--
5007041	754	ADELAIDE ST	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5007042	806	ADELAIDE ST	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5007043	812	ADELAIDE ST	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5006963	769	BRYN MAWR RD	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5024779	1341	CORDOVA RD	Lead	Copper	PEX	Not Replaced	6/26/2018	--	Ops	No	--
5006827	3369	MILWAUKEE ST	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5038289	2302	PITTOCK ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A05_05	No	--
5006879	3393	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	6/26/2018	--	A06_06	Yes	--
5036581	6521	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A08_08	No	--
5057531	110	SECANE ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A13_03	No	--
5049531	928	LILAC ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A15_05_B	No	--

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5059236	200	DILWORTH ST	Lead	Copper	PEX	Not Replaced	6/26/2018	--	A12_02	No	--
5042224	6526	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	6/26/2018	--	A08_08	No	--
5042226	6522	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	6/26/2018	--	A08_08	No	--
5057533	114	SECANE ST	Lead	Copper	PEX	Not Replaced	6/26/2018	--	A13_03	No	--
5056168	76	HARWOOD ST	Lead	Lead	Copper	Copper	6/26/2018	6/26/2018	A13_03	No	--
5074512	3907	VINCETON ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A11_01	No	--
5057546	95	HARWOOD ST	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A13_03	No	--
5059240	218	DILWORTH ST	Lead	Copper	PEX	Not Replaced	6/26/2018	--	A12_02	No	--
5075503	20	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A11_01	No	--
5075557	21	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/26/2018	6/26/2018	A11_01	No	--
5005213	3631	CHILDS ST	Lead	PEX	PEX	Not Replaced	6/27/2018	--	Ops	No	--
5068531	1904	ROCKLEDGE ST	Lead	Lead	PEX	Not Replaced	6/27/2018	--	Ops	Yes	--
5049572	947	LILAC ST	Lead	Lead	Copper	Copper	6/27/2018	6/27/2018	A15_05_B	No	--
5074323	4008	VINCETON ST	Lead	Copper	PEX	Not Replaced	6/27/2018	--	A11_01	No	--
5056367	30	PASADENA ST	Lead	Lead	PEX	Copper	6/27/2018	6/27/2018	A13_03	No	--
5056347	43	PASADENA ST	Lead	Lead	PEX	Copper	6/27/2018	6/27/2018	A13_03	No	--
5075556	25	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/27/2018	6/27/2018	A11_01	No	--
5075502	22	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/27/2018	6/27/2018	A11_01	No	--
5074516	3906	VINCETON ST	Lead	Lead	PEX	Copper	6/27/2018	6/27/2018	A11_01	No	--
5038936	2321	PITTOCK ST	Lead	Lead	PEX	Not Replaced	6/28/2018	--	A05_05	Yes	--
5007071	3400	WEBSTER AVE	Lead	Lead	PEX	Not Replaced	6/28/2018	--	A06_06	Yes	--
5049576	939	LILAC ST	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A15_05_B	No	--
5059268	215	DILWORTH ST	Lead	Lead	PEX	Copper	6/28/2018	6/29/2018	A12_02	No	--
5042186	6549	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A08_08	No	--
5074319	3948	VINCETON ST	Lead	Lead	PEX	Copper	6/28/2018	7/10/2018	A11_01	No	--
5056356	58	PASADENA ST	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A13_03	No	--
5056349	47	PASADENA ST	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A13_03	No	--
5042182	6531	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A08_08	No	--
5074322	4006	VINCETON ST	Lead	Copper	PEX	Not Replaced	6/28/2018	--	A11_01	No	--

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(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5049575	941	LILAC ST	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A15_05_B	No	--
5075555	27	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A11_01	No	--
5056364	36	PASADENA ST	Lead	Copper	PEX	Not Replaced	6/28/2018	--	A13_03	No	--
5075481	31	PERRYVIEW AVE	Lead	Lead	PEX	Copper	6/28/2018	6/28/2018	A11_01	No	--
5054760	164	5 18TH ST	Lead	Copper	PEX	<Null>	6/29/2018	--	Ops	No	--
5042181	6533	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/29/2018	6/29/2018	A08_08	No	--
5059275	201	DILWORTH ST	Lead	Lead	PEX	Copper	6/29/2018	6/29/2018	A12_02	No	--
5056358	54	PASADENA ST	Lead	Lead	PEX	Copper	6/29/2018	6/29/2018	A13_03	No	--
5049570	951	LILAC ST	Lead	Copper	PEX	Not Replaced	6/29/2018	6/29/2018	A15_05_B	No	--
5049569	953	LILAC ST	Lead	Copper	PEX	Not Replaced	6/29/2018	--	A15_05_B	No	--
5056343	33	PASADENA ST	Lead	Copper	PEX	Not Replaced	6/29/2018	--	A13_03	No	--
5042180	6535	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/29/2018	6/29/2018	A08_08	No	--
5042185	6537	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	6/29/2018	6/29/2018	A08_08	No	--
5059274	205	DILWORTH ST	Lead	Lead	PEX	Copper	6/29/2018	6/29/2018	A12_02	No	--
5122695	19	LAWRENCE ST	Lead	COPPER	Copper	<Null>	7/1/2018	--	Ops	No	--
5038930	2400	SHADY AVE	Lead	Lead	PEX	Not Replaced	7/2/2018	--	A05_05	Yes	--
5023109	4429	STANTON AVE	Lead	Lead	PEX	<Null>	7/2/2018	--	Ops	Yes	--
5042184	6541	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/2/2018	7/2/2018	A08_08	No	--
5075482	35	PERRYVIEW AVE	Lead	PEX	PEX	Not Replaced	7/2/2018	--	A11_01	No	--
5057604	88	PASADENA ST	Lead	Lead	PEX	Copper	7/2/2018	7/2/2018	A13_03	No	--
5057607	82	PASADENA ST	Lead	Lead	PEX	Copper	7/2/2018	7/2/2018	A13_03	No	--
5036576	6520	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/2/2018	--	A08_08	No	--
5074296	3955	VINCETON ST	Lead	Copper	PEX	Not Replaced	7/2/2018	--	A11_01	No	--
5049559	975	LILAC ST	Lead	Lead	PEX	Copper	7/2/2018	7/2/2018	A15_05_B	No	--
5057616	62	PASADENA ST	Lead	Lead	PEX	Copper	7/2/2018	7/2/2018	A13_03	No	--
5075483	39	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/2/2018	7/2/2018	A11_01	No	--
5038318	5804	PHILLIPS AVE	Lead	Lead	PEX	Not Replaced	7/3/2018	--	A05_05	Yes	--
5042222	6534	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A08_08	No	--
5056351	53	PASADENA ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A13_03	No	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Service Line Replacements
(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5057596	106	PASADENA ST	Lead	Copper	PEX	Not Replaced	7/3/2018	--	A13_03	No	--
5049571	949	LILAC ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A15_05_B	No	--
5049573	945	LILAC ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A15_05_B	No	--
5042220	6542	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A08_08	No	--
5074310	3931	VINCETON ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A11_01	No	--
5057620	69	PASADENA ST	Lead	Lead	PEX	Copper	7/3/2018	7/3/2018	A13_03	No	--
5025994	6014	BRYANT ST	Lead	COPPER	PEX	<Null>	7/4/2018	--	Ops	No	--
5116132	3811	CALIFORNIA AVE	Lead	PEX	PEX	<Null>	7/5/2018	--	Ops	No	--
5032527	7015	MOUNT VERNON ST	Lead	COPPER	PEX	<Null>	7/5/2018	--	Ops	No	--
5056350	49	PASADENA ST	Lead	Lead	PEX	Copper	7/5/2018	7/5/2018	A13_03	No	--
5042218	6554	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/5/2018	7/6/2018	A08_08	No	--
5049586	925	LILAC ST	Lead	Lead	PEX	Copper	7/5/2018	7/5/2018	A15_05_B	No	--
5056363	38	PASADENA ST	Lead	Lead	PEX	Copper	7/6/2018	7/6/2018	A13_03	No	--
5042221	6540	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/6/2018	7/6/2018	A08_08	No	--
5049584	929	LILAC ST	Lead	Lead	PEX	Copper	7/6/2018	7/11/2018	A15_05_B	No	--
5056366	32	PASADENA ST	Lead	Copper	PEX	Not Replaced	7/6/2018	--	A13_03	No	--
5057619	67	PASADENA ST	Lead	Copper	PEX	Not Replaced	7/6/2018	--	A13_03	No	--
5057612	70	PASADENA ST	Lead	Lead	PEX	Copper	7/6/2018	7/6/2018	A13_03	No	--
5074291	4031	VINCETON ST	Lead	Lead	PEX	Copper	7/6/2018	7/6/2018	A11_01	No	--
5080767	1400	COOPER AVE	Lead	Copper	PEX	<Null>	7/9/2018	--	Ops	No	--
5026473	921	FARRAGUT ST	Lead	COPPER	PEX	<Null>	7/9/2018	--	Ops	No	--
5042212	6622	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A08_08	No	--
5057598	102	PASADENA ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A13_03	No	--
5075484	43	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A11_01	No	--
5057614	66	PASADENA ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A13_03	No	--
5057613	68	PASADENA ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A13_03	No	--
5049583	931	LILAC ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A15_05_B	No	--
5057611	72	PASADENA ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A13_03	No	--
5116077	4029	VINCETON ST	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A11_01	No	--

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(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5075497	46	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/9/2018	7/9/2018	A11_01	No	--
5049720	4103	WINDSOR ST	Lead	Lead	PEX	Copper	7/10/2018	7/10/2018	A15_05_B	No	--
5058868	241	CAIRO ST	Lead	Lead	PEX	Copper	7/10/2018	7/12/2018	A12_02	No	--
5057554	116	LACLEDE ST	Lead	Lead	PEX	Copper	7/10/2018	7/10/2018	A13_03	No	--
5057567	86	LACLEDE ST	Lead	Copper	PEX	Not Replaced	7/10/2018	--	A13_03	No	--
5074290	4033	VINCETON ST	Lead	Lead	PEX	Copper	7/10/2018	7/10/2018	A11_01	No	--
5075485	49	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/10/2018	7/10/2018	A11_01	No	--
5042211	6626	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/10/2018	7/10/2018	A08_08	No	--
5065366	1225	ISLAND AVE	Lead	PLASTIC	PEX	<Null>	7/11/2018	--	Ops	No	--
5032600	7126	MOUNT VERNON ST	Lead	COPPER	PEX	<Null>	7/11/2018	--	Ops	No	--
5041964	6645	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A08_08	No	--
5049568	955	LILAC ST	Lead	Copper	PEX	Not Replaced	7/11/2018	7/11/2018	A15_05_B	No	--
5057565	90	LACLEDE ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A13_03	No	--
5058871	235	CAIRO ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A12_02	No	--
5057561	126	LACLEDE ST	Lead	Copper	PEX	Not Replaced	7/11/2018	--	A13_03	No	--
5056384	100	LACLEDE ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A13_03	No	--
5074292	4027	VINCETON ST	Lead	Copper	PEX	Not Replaced	7/11/2018	--	A11_01	No	--
5056383	80	LACLEDE ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A13_03	No	--
5049579	935 1/2	LILAC ST	Lead	Copper	PEX	Not Replaced	7/11/2018	--	A15_05_B	No	--
5058867	243	CAIRO ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A12_02	No	--
5075487	55	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A11_01	No	--
5075489	107	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A11_01	No	--
5042209	6632	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/11/2018	7/11/2018	A08_08	No	--
5075494	56	PERRYVIEW AVE	Lead	Copper	PEX	Not Replaced	7/11/2018	--	A11_01	No	--
5049580	935	LILAC ST	Lead	Copper	PEX	Not Replaced	7/12/2018	--	A15_05_B	No	--
5056399	54	LACLEDE ST	Lead	Lead	Copper	Copper	7/12/2018	7/12/2018	A13_03	No	--
5057566	88	LACLEDE ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A13_03	No	--
5058869	239	CAIRO ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A12_02	No	--
5075492	104	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A11_01	No	--

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(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5075619	4056	VINCETON ST	Lead	Copper	PEX	Not Replaced	7/12/2018	--	A11_01	No	--
5049558	981	LILAC ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A15_05_B	No	--
5049581	933 1/2	LILAC Staka 933 LILAC ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A15_05_B	No	--
5042210	6630	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A08_08	No	--
5057558	106	LACLEDE ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A13_03	No	--
5075499	38	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A11_01	No	--
5075493	100	PERRYVIEW AVE	Lead	Copper	PEX	Not Replaced	7/12/2018	--	A11_01	No	--
5056400	52	LACLEDE ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A13_03	No	--
5056396	62	LACLEDE ST	Lead	Lead	PEX	Copper	7/12/2018	7/12/2018	A13_03	No	--
5049561	969	LILAC ST	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A15_05_B	No	--
5041960	6625	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A08_08	No	--
5049563	965	LILAC ST	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A15_05_B	No	--
5041963	6641	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A08_08	No	--
5075491	108	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A11_01	No	--
5133300	933	LILAC	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A15_05_B	No	--
5049562	967	LILAC ST	Lead	Lead	PEX	Copper	7/13/2018	7/13/2018	A15_05_B	No	--
5015987	4407	BUTLER ST	Lead	PEX	PEX	<Null>	7/15/2018	--	Ops	No	--
5037053	5504	DARLINGTON RD	Lead	PEX	PEX	<Null>	7/16/2018	--	Ops	No	--
5042213	6606	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A08_08	No	--
5050041	4155	WINDSOR ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A15_05_B	No	--
5058870	237	CAIRO ST	Lead	Lead	PEX	Copper	7/16/2018	7/12/2018	A12_02	No	--
5041959	6623	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A08_08	No	--
5075458	115	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A11_01	No	--
5058857	228	CAIRO ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A12_02	No	--
5056393	70	LACLEDE ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A13_03	No	--
5075460	201	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A11_01	No	--
5041961	6629	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A08_08	No	--
5074328	4028	VINCETON ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A11_01	No	--
5049626	4144	WINDSOR ST	Lead	Lead	PEX	Copper	7/16/2018	7/16/2018	A15_05_B	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5056398	56	LACLEDE ST	Lead	Copper	PEX	Not Replaced	7/16/2018	--	A13_03	No	--
5058854	236	CAIRO ST	Lead	Lead	PEX	Copper	7/16/2018	7/17/2018	A12_02	No	--
5049534	936	LILAC ST	Lead	Copper	PEX	Not Replaced	7/16/2018	--	A15_05_B	No	--
5020138	5238	LOTUS WAY	Lead	COPPER	PEX	<Null>	7/17/2018	--	Ops	No	--
5122203	207	SIEGEL STREET	Lead	LEAD	PEX	<Null>	7/17/2018	--	Ops	Yes	--
5059216	227	CAIRO ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A12_02	No	--
5041958	6619	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/17/2018	--	A08_08	No	--
5057560	102	LACLEDE ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A13_03	No	--
5056392	74	LACLEDE ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A13_03	No	--
5058863	208	CAIRO ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A12_02	No	--
5049627	4142	WINDSOR ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A15_05_B	No	--
5058872	233	CAIRO ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A12_02	No	--
5042194	6609	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A08_08	No	--
5074293	4021	VINCETON ST	Lead	Copper	PEX	Not Replaced	7/17/2018	--	A11_01	No	--
5042214	6604	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/17/2018	--	A08_08	No	--
5056371	57	HABERMAN AVE	Lead	Lead	PEX	Copper	7/17/2018	7/17/2018	A13_03	No	--
5031455	7122	LEMINGTON AVE	Lead	COPPER	PEX	<Null>	7/18/2018	--	Ops	No	--
5056370	55	HABERMAN AVE	Lead	Lead	PEX	Copper	7/18/2018	7/18/2018	A13_03	No	--
5057559	104	LACLEDE ST	Lead	Lead	PEX	Copper	7/18/2018	7/18/2018	A13_03	No	--
5042217	6556	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/18/2018	7/18/2018	A08_08	No	--
5049628	4138	WINDSOR ST	Lead	Lead	PEX	Copper	7/18/2018	7/18/2018	A15_05_B	No	--
5049732	4143	WINDSOR ST	Lead	Copper	PEX	Not Replaced	7/18/2018	--	A15_05_B	No	--
5059219	217	CAIRO ST	Lead	Lead	PEX	Copper	7/18/2018	7/18/2018	A12_02	No	--
5056401	48	LACLEDE ST	Lead	Copper	PEX	Not Replaced	7/18/2018	--	A13_03	No	--
5056374	65	HABERMAN AVE	Lead	Lead	PEX	Copper	7/18/2018	7/18/2018	A13_03	No	--
5056378	79	HABERMAN AVE	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A13_03	No	--
5042238	6605	DALZELL PL	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A08_08	No	--
5042208	6634	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A08_08	No	--
5042207	6636	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/19/2018	--	A08_08	No	--

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LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5042239	6607	DALZELL PL	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A08_08	No	--
5057569	89	HABERMAN AVE	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A13_03	No	--
5075461	203	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A11_01	No	--
5049734	4149	WINDSOR ST	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A15_05_B	No	--
5049731	4141	WINDSOR ST	Lead	Lead	PEX	Copper	7/19/2018	7/19/2018	A15_05_B	No	--
5057573	101	HABERMAN AVE	Lead	Copper	PEX	Not Replaced	7/19/2018	--	A13_03	No	--
5058873	231	CAIRO ST	Lead	Copper	PEX	Not Replaced	7/19/2018	--	A12_02	No	--
5049730	4137	WINDSOR ST	Lead	Lead	PEX	Copper	7/20/2018	7/20/2018	A15_05_B	No	--
5041962	6637	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/20/2018	7/20/2018	A08_08	No	--
5049729	4133	WINDSOR ST	Lead	Lead	PEX	Copper	7/20/2018	7/20/2018	A15_05_B	No	--
5041967	6657	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/20/2018	7/20/2018	A08_08	No	--
5043800	7614	BRASHEAR ST	Lead	COPPER	PEX	<Null>	7/21/2018	--	Ops	No	--
5016121	262	45TH ST	Lead	COPPER	PEX	<Null>	7/22/2018	--	Ops	No	--
5063770	720	ELKTON ST	Lead	COPPER	PEX	<Null>	7/23/2018	--	Ops	No	--
5008637	3442	MELWOOD AVE	Lead	COPPER	PEX	<Null>	7/23/2018	--	Ops	No	--
5015025	426	S GRAHAM ST	Lead	COPPER	Copper	<Null>	7/23/2018	--	Ops	No	--
5056379	79 1/2	HABERMAN AVE	Lead	Lead	PEX	Not Replaced	7/23/2018	--	A13_03	Yes	--
5049735	4151	WINDSOR ST	Lead	Lead	PEX	Copper	7/23/2018	7/23/2018	A15_05_B	No	--
5049728	4127	WINDSOR ST	Lead	Copper	PEX	Not Replaced	7/23/2018	--	A15_05_B	No	--
5057579	115	HABERMAN AVE	Lead	Lead	PEX	Copper	7/23/2018	7/23/2018	A13_03	No	--
5056381	83	HABERMAN AVE	Lead	Lead	PEX	Copper	7/23/2018	7/23/2018	A13_03	No	--
5049727	4125	WINDSOR ST	Lead	Copper	PEX	Not Replaced	7/23/2018	--	A15_05_B	No	--
5059286	123	DILWORTH ST	Lead	Lead	PEX	Copper	7/23/2018	7/24/2018	A12_02	No	--
5056380	81	HABERMAN AVE	Lead	Lead	PEX	Copper	7/23/2018	7/23/2018	A13_03	No	--
5075476	4160	PERRYVILLE AVE	Lead	Lead	PEX	<Null>	7/23/2018	--	A11_01	<Null>	--
5042003	6611	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/23/2018	7/23/2018	A08_08	No	--
5057582	125	HABERMAN AVE	Lead	Lead	PEX	Copper	7/23/2018	7/23/2018	A13_03	No	--
5057572	95	HABERMAN AVE	Lead	Lead	PEX	Not Replaced	7/23/2018	--	A13_03	Yes	--
5056376	71	HABERMAN AVE	Lead	Copper	PEX	Not Replaced	7/24/2018	--	A13_03	No	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Service Line Replacements
(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5042264	6608	DALZELL PL	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A08_08	No	--
5041968	6659	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A08_08	No	--
5056340	226	RUXTON ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A13_03	No	--
5056339	228	RUXTON ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A13_03	No	--
5041969	6663	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A08_08	No	--
5059218	219	CAIRO ST	Lead	Copper	PEX	Copper	7/24/2018	7/24/2018	A12_02	No	--
5049725	4119	WINDSOR ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A15_05_B	No	--
5056369	53	HABERMAN AVE	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A13_03	No	--
5075581	57	BASCOM AVE	Lead	Copper	PEX	Not Replaced	7/24/2018	--	A11_01	No	--
5074347	3915	PORTMAN ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A11_01	No	--
5058859	222	CAIRO ST	Lead	Copper	PEX	Not Replaced	7/24/2018	--	A12_02	No	--
5075580	59	BASCOM AVE	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A11_01	No	--
5059234	132	DILWORTH ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A12_02	No	--
5049636	4110	WINDSOR ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A15_05_B	No	--
5041998	6619	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A08_08	No	--
5041999	6617	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A08_08	No	--
5042259	6628	DALZELL PL	Lead	Lead	PEX	Copper	7/24/2018	7/24/2018	A08_08	No	--
5016179	288	45TH ST	Lead	COPPER	PEX	<Null>	7/25/2018	--	Ops	No	--
5059235	136	DILWORTH ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A12_02	No	--
5055635	447	RUXTON ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A13_03	No	--
5055639	448	RUXTON ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A13_03	No	--
5042195	6615	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A08_08	No	--
5055640	442	RUXTON ST	Lead	Copper	PEX	Not Replaced	7/25/2018	--	A13_03	No	--
5042263	6616	DALZELL PL	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A08_08	No	--
5041965	6649	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A08_08	No	--
5042006	6607	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A08_08	No	--
5049724	4115	WINDSOR ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A15_05_B	No	--
5042000	6615	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	7/25/2018	--	A08_08	No	--
5042001	6615	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	7/25/2018	--	A08_08	No	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
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(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5075572	50	BASCOM AVE	Lead	Lead	PEX	<Null>	7/25/2018	--	A11_01	<Null>	--
5049639	4100	WINDSOR ST	Lead	Lead	PEX	Copper	7/25/2018	7/25/2018	A15_05_B	No	--
5007397	928	BRYN MAWR RD	Lead	LEAD	PEX	<Null>	7/26/2018	--	Ops	Yes	--
5078723	3500	CAMPUS ST	Lead	COPPER	PEX	<Null>	7/26/2018	--	Ops	No	--
5059232	126	DILWORTH ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A12_02	No	--
5059233	130	DILWORTH ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A12_02	No	--
5052694	3257	JOSEPHINE ST	Lead	COPPER	PEX	<Null>	7/26/2018	--	Ops	No	--
5075463	211	PERRYVIEW AVE	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A11_01	No	--
5056282	412	RUXTON ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A13_03	No	--
5056274	432	RUXTON ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A13_03	No	--
5049723	4113	WINDSOR ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A15_05_B	No	--
5042197	6658	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/26/2018	--	A08_08	No	--
5075569	36	BASCOM AVE	Lead	Lead	PEX	<Null>	7/26/2018	--	A11_01	<Null>	--
5042199	6660	NORTHUMBERLAND ST	Lead	Copper	PEX	Not Replaced	7/26/2018	--	A08_08	No	--
5056276	428	RUXTON ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A13_03	No	--
5042245	6631	DALZELL PL	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A08_08	No	--
5049635	4112	WINDSOR ST	Lead	Lead	PEX	Copper	7/26/2018	7/26/2018	A15_05_B	No	--
5077672	3617	MEXICO ST	Lead	COPPER	PEX	<Null>	7/27/2018	--	Ops	No	--
5041995	6623	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/27/2018	7/27/2018	A08_08	No	--
5059223	614	NATCHEZ ST	Lead	Lead	PEX	Copper	7/27/2018	7/27/2018	A12_02	No	--
5042241	6611	DALZELL PL	Lead	Lead	PEX	Copper	7/27/2018	7/27/2018	A08_08	<Null>	--
5041997	6621	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/27/2018	7/27/2018	A08_08	No	--
5041970	6667	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A08_08	No	--
5041971	6669	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A08_08	<Null>	--
5041996	6623	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A08_08	No	--
5075575	60	BASCOM AVE	Lead	Lead	PEX	Not Replaced	7/30/2018	--	A11_01	Yes	--
5041994	6625	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A08_08	No	--
5049567	957	LILAC ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A15_05_B	No	--
5041972	6673	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A08_08	<Null>	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Service Line Replacements
(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5056258	227	RUXTON ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A13_03	No	--
5059935	83	DILWORTH ST	Lead	Copper	PEX	Copper	7/30/2018	7/30/2018	A12_02	Yes	--
5059222	616	NATCHEZ ST	Lead	Lead	PEX	Copper	7/30/2018	7/30/2018	A12_02	No	--
5075573	52	BASCOM AVE	Lead	Copper	PEX	Not Replaced	7/30/2018	--	A11_01	No	--
5056338	230	RUXTON ST	Lead	Copper	PEX	Not Replaced	7/30/2018	--	A13_03	No	--
5042247	6637	DALZELL PL	Lead	Lead	PEX	Copper	7/31/2018	7/31/2018	A08_08	<Null>	--
5042196	6664	NORTHUMBERLAND ST	Lead	Lead	PEX	Copper	7/31/2018	7/31/2018	A08_08	No	--
5049634	4116	WINDSOR ST	Lead	Lead	PEX	Copper	7/31/2018	7/31/2018	A15_05_B	No	--
5056342	224	RUXTON ST	Lead	Lead	PEX	Copper	7/31/2018	7/31/2018	A13_03	No	--
5056341	226	RUXTON ST	Lead	Copper	PEX	Not Replaced	7/31/2018	--	A13_03	No	--
5058877	603	NATCHEZ ST	Lead	Lead	PEX	Copper	7/31/2018	7/31/2018	A12_02	No	--
5055683	29	CRAIGHEAD ST	Lead	Copper	PEX	Not Replaced	7/31/2018	--	A13_03	No	--
5042024	6629	RIDGEVILLE ST	Lead	Lead	PEX	Copper	7/31/2018	7/31/2018	A08_08	No	--
5049632	4122	WINDSOR ST	Lead	Lead	PEX	Copper	8/1/2018	8/1/2018	A15_05_B	No	--
5042246	6635	DALZELL PL	Lead	Lead	PEX	Copper	8/1/2018	8/1/2018	A08_08	No	--
5042022	6631	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/1/2018	8/1/2018	A08_08	No	--
5042023	6631	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/1/2018	8/1/2018	A08_08	No	--
5049710	4032	WINDSOR ST	Lead	Lead	PEX	Copper	8/1/2018	8/1/2018	A15_05_A	No	--
5055669	58 1/2	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	8/1/2018	--	A13_03	Yes	--
5056259	229	RUXTON ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A13_03	No	--
5055668	58	CRAIGHEAD ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A13_03	No	--
5042253	6653	DALZELL PL	Lead	Copper	PEX	Not Replaced	8/2/2018	--	A08_08	No	--
5042252	6651	DALZELL PL	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A08_08	No	--
5049637	4104	WINDSOR ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A15_05_B	No	--
5041957	1459	BARNESDALE ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A08_08	No	--
5042020	6635	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A08_08	No	--
5056493	69	CRAIGHEAD ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A13_03	No	--
5059291	111	DILWORTH ST	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A12_02	No	--
5056492	71	CRAIGHEAD ST	Lead	Copper	PEX	Not Replaced	8/2/2018	--	A13_03	No	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Service Line Replacements
(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5075480	78	BASCOM AVE	Lead	Lead	PEX	Copper	8/2/2018	8/2/2018	A11_01	No	--
5002850	239	DUNSEITH ST	Lead	PEX	PEX	Not Replaced	8/3/2018	--	Ops	No	--
5042021	6633	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/3/2018	8/3/2018	A08_08	No	--
5059329	106	DILWORTH ST	Lead	Lead	PEX	Copper	8/3/2018	8/3/2018	A12_02	No	--
5075478	86	BASCOM AVE	Lead	Lead	PEX	Not Replaced	8/3/2018	--	A11_01	Yes	--
5035766	1201	INVERNESS AVE	Lead	COPPER	Copper	Not Replaced	8/4/2018	--	Ops	No	--
5069303	2023	LOWRIE ST	Lead	COPPER	PEX	Not Replaced	8/5/2018	--	Ops	No	--
5069922	1704	BRIGHTON PL	Lead	COPPER	PEX	Not Replaced	8/6/2018	--	Ops	No	--
5134049	4067	HOWLEY	Lead	PEX	PEX	Not Replaced	8/6/2018	--	Ops	No	--
5035794	1239	MURDOCH RD	Lead	COPPER	PEX	Not Replaced	8/6/2018	--	Ops	No	--
5042285	6537	AYLESBORO AVE	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A08_08	No	--
5133127	4133	FRANK	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A15_05_B	No	--
5042257	6636	DALZELL PL	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A08_08	No	--
5056491	73	CRAIGHEAD ST	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A13_03	No	--
5042287	6553	AYLESBORO AVE	Lead	Lead	PEX	Copper	8/6/2018	8/7/2018	A08_08	No	--
5056337	232	RUXTON ST	Lead	Copper	PEX	Not Replaced	8/6/2018	--	A13_03	No	--
5075676	19	MONTANA ST	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A11_01	No	--
5042019	6637	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A08_08	No	--
5042017	6639	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A08_08	No	--
5059289	117	DILWORTH ST	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A12_02	No	--
5056257	225	RUXTON ST	Lead	Copper	PEX	Not Replaced	8/6/2018	--	A13_03	No	--
5075477	100	BASCOM AVE	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A11_01	No	--
5056490	75	CRAIGHEAD ST	Lead	Copper	PEX	Not Replaced	8/6/2018	--	A13_03	No	--
5049525	4137	FRANK ST	Lead	Lead	PEX	Copper	8/6/2018	8/6/2018	A15_05_B	No	--
5048886	57	ALMEDA ST	Lead	LEAD	PEX	Not Replaced	8/7/2018	--	Ops	Yes	--
5049585	927	LILAC ST	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A15_05_B	No	--
5042009	6601	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	8/7/2018	--	A08_08	No	--
5042008	6603	RIDGEVILLE ST	Lead	Copper	PEX	Not Replaced	8/7/2018	--	A08_08	No	--
5059229	118	DILWORTH ST	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A12_02	No	--

Appendix H – Lead COA

Pittsburgh Water and Sewer Authority
Lead Service Line Replacements
(data as of 08/07/18)

LocationID	House	Street	Site Verification Public	Site Verification Private	Replaced Material Public	Replaced Material Private	Replacement Date Public	Replacement Date Private	Work Order	Partial	Coordination (Customer Replaced Private)
5049529	4131	FRANK ST	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A15_05_B	No	--
5042256	6640	DALZELL PL	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A08_08	No	--
5042284	6535	AYLESBORO AVE	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A08_08	No	--
5075455	110	BASCOM AVE	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A11_01	No	--
5042018	6639	RIDGEVILLE ST	Lead	Lead	PEX	Copper	8/7/2018	8/7/2018	A08_08	No	--
5018037	4924	HATFIELD ST	Lead	Copper	PEX	Not Replaced	8/7/2018	--	AD7_07	No	--
5055684	27	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	8/7/2018	--	A13_03	Yes	--
5055682	31	CRAIGHEAD ST	Lead	Lead	PEX	Not Replaced	8/7/2018	--	A13_03	Yes	--
5059330	109	DILWORTH ST	Lead	Lead	PEX	Copper	8/8/2018	8/8/2018	A12_02	No	--

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

Direct Operating Expenses	HTY						
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019
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
4005 OT Premium Pay	1,210,877	1,261,335	1,504,742	1,814,309	620,791	1,028,447	1,502,591
4010 Shift Differential	6,170	7,311	5,988	6,887	1,824	3,131	4,998
4015 Semi Skill	6,223	5,739	6,907	7,129	1,154	2,734	5,065
4020 Pay Adjustments	-	-	-	-	-	-	-
4025 Bonus	-	3,500	-	5,500	-	-	-
4030 Holiday Pay	531,144	537,915	579,017	631,308	261,264	407,001	601,514
4035 Vacation Pay	984,336	974,011	952,563	1,065,930	267,309	477,779	895,687
4040 Other	-	262	16,230	29,800	200	100	100
4045 Sick Pay	133,341	106,802	9,602	16,316	2,866	6,441	8,504
4050 Personal Time Pay	444,143	455,301	450,532	558,981	170,848	329,357	465,704
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
4070 Military Leave	1,092	2,982	-	-	-	2,308	2,885
4075 Supper Pay	17,722	17,060	20,783	33,051	9,958	16,156	24,904
4080 Bereavement	22,974	14,515	17,987	27,723	10,423	15,336	24,663
4081 Paid Parental Leave	-	-	-	-	-	-	6,204
4085 Special	52,131	51,540	52,369	60,207	19,048	33,748	52,973
4090 Admin Leave	271,864	-	7,838	2,060	-	-	445
4095 Severance	102,382	669,892	487,524	152,174	-	-	-
Total Wages & Salaries	\$ 14,999,594	\$ 15,556,521	\$ 16,071,511	\$ 18,427,947	\$ 5,430,873	\$ 10,339,002	\$ 16,257,525
Employee Benefits							
4110 Fed Ins Contr Act Tx	925,936	945,396	990,699	1,125,583	331,689	630,113	983,008
4115 Medicare	217,829	224,732	232,506	265,323	77,572	147,525	232,096
4120 Fed Unemploy Tax	-	-	4	-	(1)	(1)	(1)
4125 State Unemploy Tax	24,886	65,430	-	34,478	742	1,079	1,591
4130 Workers Comp Insur	199,241	349,755	561,969	(3,305)	266,402	266,402	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
4140 Med Hlth Ins Waiver	16,642	28,906	22,183	57,239	17,213	36,478	57,585
4145 Short Term Disability	170,670	171,661	161,659	154,581	41,354	84,374	129,440
4150 Long Term Disability	35,372	33,200	31,318	349,248	7,799	14,909	21,910
4155 Life Ins <50k	28,767	28,008	25,687	27,504	7,441	15,638	24,513
4160 Accident,Death, Dismember	3,020	3,175	3,274	3,742	1,008	2,117	3,318
4165 Dental Ins	139,668	133,593	132,857	135,371	35,058	70,665	108,675
4170 Vision Insur	9,707	8,853	9,512	10,141	2,876	5,887	9,250
4174 Cust Serv Week	-	-	550	457	-	-	-
4175 Uniforms	197,422	174,773	164,450	167,162	54,373	104,945	151,865
4180 Tuition Reimburse	28,750	22,330	35,873	68,156	35,023	55,553	71,230
4185 Retirement Benefit	-	-	-	-	-	-	1,962
4195 Misc Benefits	(19,845)	(21,274)	(22,584)	(22,029)	(5,104)	(10,868)	(16,766)
4199 Payroll Upload Except	(685)	(6,027)	(14)	(1,456)	-	-	-
Total Employee Benefits	\$ 4,946,658	\$ 5,091,276	\$ 5,439,531	\$ 5,899,887	\$ 1,762,543	\$ 3,261,101	\$ 4,916,661
TOTAL SALARIES & BENEFITS	\$ 19,946,252	\$ 20,647,796	\$ 21,511,042	\$ 24,327,834	\$ 7,193,416	\$ 13,600,103	\$ 21,174,186

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

Direct Operating Expenses	HTY						
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019
Chemicals							
5005 Alum (Orthophosphate)	-	-	-	-	19,061	91,069	148,252
5010 Boiler Chemicals	25,845	13,311	5,331	12,340	4,253	8,750	21,212
5015 Calcium Hypochlorite	-	4,831	1,320	-	-	-	-
5020 Cat Flocc TL	45,946	22,996	57,540	60,505	13,524	40,943	81,808
5025 Caustic Soda	636,432	548,132	592,052	799,616	224,920	241,061	225,057
5030 Chlorine Cylinders	-	48,111	-	-	-	-	-
5035 Chlorine Rail Car	-	-	-	-	-	-	-
5040 Citric Acid	11,773	11,655	1,670	-	-	-	-
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
5055 Hydrofluorosilicic Acid	152,531	127,779	132,717	177,308	30,236	60,741	113,047
5060 Lime	209,399	59,069	213,807	70,890	7,394	169,925	332,028
5065 Potassium Permanganate	335,080	448,594	332,733	109,855	-	123,451	247,338
5070 Powdered Active Carbon	-	30,926	-	(0)	-	-	-
5075 Soda Ash	183,295	993,658	879,172	986,761	206,887	435,027	605,153
5080 Sodium Hypochlorite	290,664	358,197	349,780	320,130	72,718	179,099	310,828
5085 Sodium Carbonate Peroxyth	-	12,720	12,720	16,960	-	-	-
Chemicals	\$ 3,386,154	\$ 4,096,610	\$ 3,775,165	\$ 3,965,455	\$ 873,219	\$ 2,183,360	\$ 3,324,850
Equipment							
5120 Computer & Peripherals	54,702	105,601	295,065	890,562	239,654	326,182	449,986
5125 Computers, Networking	66,602	82,313	336,517	378,556	12,604	16,283	16,283
5140 Furniture, Fixture	7,883	33,966	39,955	149,446	14,386	40,802	44,389
5145 Grounds, Maint	10,535	29,125	25,505	28,500	8,403	18,498	30,273
5147 Lab Equip	142,637	160,536	18,841	47,424	33,157	59,166	93,145
5150 Machinery	248,095	175,979	98,202	233,740	607,111	1,026,686	1,854,567
5160 Office Equipment	596	-	3,892	1,306	238	359	359
5190 Vehicles	588,272	166,806	614,171	1,570,946	1,174,183	1,939,084	1,940,310
Equipment	\$ 1,119,323	\$ 754,325	\$ 1,432,148	\$ 3,300,481	\$ 2,089,737	\$ 3,427,061	\$ 4,429,312
Materials							
5205 Asphalt Cold Patch	-	10,688	22,994	94,307	28,602	48,442	79,176
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
5230 Cement Bagged	3,611	4,580	5,217	1,747	60	182	310
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
5245 Lumber	18,231	12,908	20,206	13,177	9,547	10,701	16,090
5250 Sand	71,012	26,221	47,087	13,072	2,811	4,981	7,572
5255 Slag	204,312	281,399	304,607	364,671	100,568	177,621	264,642
5260 Stone	-	-	-	-	-	-	10,222
5265 Top Soil	4,700	4,150	1,800	5,296	500	1,500	3,000
Materials	\$ 379,218	\$ 429,394	\$ 464,778	\$ 495,837	\$ 142,089	\$ 249,066	\$ 388,601

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Pittsburgh Water & Sewer Authority
Operating Expenses by Account

Direct Operating Expenses	HTY						
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019
Operating Contracts							
5305 Annual Sewer Contract	2,420,966	1,079,623	2,879,646	3,127,669	1,456,827	3,010,543	4,060,022
5310 Boiler Compressor Elevtr	3,602	544	9,504	53,336	18,653	17,963	17,963
5315 CB Cleaning	1,021,519	858,332	917,968	707,837	190,665	367,854	567,860
5316 CB Repairs	-	-	-	-	-	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
5335 Drag Bucket	-	-	-	-	-	-	-
5340 Dumpster	23,403	16,503	26,168	32,518	12,387	17,656	30,105
5341 Vactor Debris Remove Cont	38,863	55,132	55,796	61,556	19,771	19,771	67,922
5342 Emergency WaterLine Repair	1,403,171	2,533,443	2,186,565	3,864,918	532,674	1,519,261	3,495,652
5345 Inspection	456,267	-	(268,857)	1,313,960	295,681	469,811	576,987
5347 Inspection.Field	709,184	1,050,150	1,088,490	793,856	153,851	381,802	518,019
5350 Key.Lock Serv	11	-	524	1,363	-	-	-
5355 Landscape (Grounds)	62,192	69,883	86,046	87,840	52,970	52,970	86,588
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
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
5390 Welding	4,418	139	-	-	360	360	360
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
Repairs & Maintenance							
5402 Annual Software Support	356,830	433,366	931,829	678,146	137,199	190,876	423,272
5405 Bldg.Property Repairs	146,415	121,635	390,277	224,243	102,135	151,844	174,739
5408 Computer Hardware	44,925	173,115	19,505	30,592	-	-	17,375
5411 Computer Software Support	-	-	-	-	-	-	-
5413 Concrete Repairs	3,010,703	2,565,787	3,973,696	6,929,924	550,686	1,029,837	3,216,757
5415 Cranes Repairs	1,000	14,656	8,405	-	862	6,945	17,017
5417 Electrical Repairs	49,284	80,316	58,471	143,886	20,754	71,774	139,365
5420 Fence Repairs	2,810	5,206	-	1,990	-	560	2,914
5422 Fence Installation	-	8,306	1,541	6,292	-	-	-
5427 GIS Hardware.Software	87,010	57,807	42,419	10,758	4,733	84,621	129,105
5432 Hardware Repairs	-	-	-	-	-	-	-
5437 Heavy Equip Repair	-	-	2,135	2,781	7,544	8,124	22,608
5439 HVAC.Plumbing	22,401	53,726	16,389	64,351	25,686	42,595	56,907
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
5457 Office Equip Repairs	13,146	4,116	-	-	-	100	100
5462 Plant Repairs	-	-	-	-	11,031	18,831	34,690
5467 Power Tool Repairs	3,567	5,571	8,525	1,506	295	5,948	5,948
5472 Road Repair.Plant	-	700	-	-	-	-	-
5475 Scanner	-	-	-	-	-	-	-
5482 Tool Repairs	84,854	5,346	4,475	7,653	-	3,177	3,269
5484 Hand Tool Repairs	6,780	4,296	1,870	165	589	589	1,688
5486 Misc Tool Repairs	380	672	500	5,470	71	71	467
5488 CC TV Repairs	92,627	78,062	85,556	144,253	70,017	127,909	180,590
5490 Vactor Repairs	64,634	50,581	4,838	22,104	196	1,746	1,746
5491 Vehicle Repairs	151,830	378,059	79,124	6,630	2,138	2,218	5,745
5496 Repair.Maint Other	203,786	214,538	138,395	399,058	130,475	166,380	206,355
Repairs & Maintenance	\$ 4,474,883	\$ 4,275,104	\$ 5,774,315	\$ 8,819,285	\$ 1,091,002	\$ 1,946,382	\$ 4,682,755

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Pittsburgh Water & Sewer Authority
Operating Expenses by Account

Direct Operating Expenses	12 Months	12 Months	HTY	12 Months	3 Months	6 Months	9 Months
	Ended	Ended	12 Months	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
<u>Misc. Operating</u>							
5570 Testing Misc	89,803	187,347	847,210	805,853	146,273	253,195	812,047
Misc. Operating	\$ 89,803	\$ 187,347	\$ 847,210	\$ 805,853	\$ 146,273	\$ 253,195	\$ 812,047
<u>Inventory - Castings</u>							
6015 Casting Manhole.CBasin	12,812	133,256	107,127	27,186	-	167,936	137,892
6025 Casting Risers.Lids	49,798	-	-	-	-	6,716	6,716
6035 Casting Sewer Inlet	-	8,443	3,273	490	-	-	-
6060 Casting Water Valve Box	-	-	39,613	-	-	-	122
Inventory - Castings	\$ 62,610	\$ 141,699	\$ 150,013	\$ 27,675	\$ -	\$ 174,652	\$ 144,730
<u>Inventory - Clarifier</u>							
6115 Clarifier Part Flocc	-	-	-	-	-	-	-
6120 Clarifier Part Screw	-	-	-	-	-	-	-
6125 Clarifier Part Sludge	-	-	19,987	-	-	-	-
Inventory - Clarifier	\$ -	\$ -	\$ 19,987	\$ -	\$ -	\$ -	\$ -
<u>Inventory - Equipment</u>							
6200 Inventory-Equip	-	-	-	2	-	-	-
6220 Fire Extinguishers	542	-	-	-	-	-	-
6245 Materials.Handling	22,010	40	-	-	-	-	-
6260 Safety Equipment	24,628	33,800	40,994	71,687	12,212	34,741	73,267
6280 Vacuum Chlorinators	-	-	-	-	-	-	-
Inventory - Equipment	\$ 47,180	\$ 33,840	\$ 40,994	\$ 71,689	\$ 12,212	\$ 34,741	\$ 73,267
<u>Inventory - Hardware</u>							
6300 Inventory-Hardware	39,753	31,345	15,449	15,054	2,262	6,058	12,798
6315 Fittings	296,117	172,216	203,114	286,547	72,322	265,674	407,209
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
6330 Keys & Locks	-	-	-	-	-	-	-
6335 Lights	983	1,363	1,587	33,848	584	1,945	7,025
6340 Machinery Misc	-	-	490	-	-	-	-
6345 Meters	244,179	1,578	300,155	516,097	4,769	37,727	39,619
6350 Plumbing Inv Exp	18,897	39,288	97,393	45,848	5,008	52,520	90,289
6355 Power Tool Inv Exp	1,927	3,431	1,722	1,320	-	-	-
6360 Tools Inv Exp	63,247	57,914	75,078	108,192	19,792	80,903	124,855
6365 Hand Tools Inv Exp	-	-	3,461	-	-	-	-
Inventory - Hardware	\$ 685,803	\$ 321,497	\$ 718,096	\$ 1,025,215	\$ 107,092	\$ 450,964	\$ 696,033
<u>Inventory - Heavy Equipment</u>							
6420 Backhoe	1,796	1,242	1,393	1,217	(627)	218	585
Inventory - Heavy Equipment	\$ 1,796	\$ 1,242	\$ 1,393	\$ 1,217	\$ (627)	\$ 218	\$ 585

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

Direct Operating Expenses	HTY						
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019
Inventory - Miscellaneous							
6500 Inventory-Misc	41,546	35,584	48,866	43,346	1,523	7,972	28,568
6506 Batteries	-	-	-	-	-	-	59
6515 Cleaning	50,397	39,659	42,649	45,162	6,992	34,830	41,905
6518 Concrete Accessories	-	-	80	-	-	-	-
6520 Copier Paper	366	-	-	-	-	-	-
6525 Filters	-	-	1,308	-	-	-	-
6526 Filters HVAC	-	-	939	-	-	-	-
6530 FirstAid	1,296	1,960	26	(1,101)	77	7,931	8,185
6540 Lamps	-	-	2,477	118	-	-	-
6544 Lubricating Oil	12,878	13,110	8,169	4,371	3,385	7,249	12,900
6548 Paint Oils Putty Glass	6,620	3,942	7,466	7,455	2,188	5,931	8,505
6552 Paper Products	-	-	-	-	-	-	-
6555 Pump Oil	120	-	-	-	-	-	-
6565 Sewer Matis.Supplies	3,381	3,187	249	3,208	(72)	1,025	1,572
6570 Testing Dyes	-	-	-	-	-	-	-
6580 Vehicle Oil	5,116	-	-	-	-	-	-
6585 Welding Supplies-Inventory	336	98	15,339	(117)	107	113	507
Inventory - Miscellaneous	\$ 122,055	\$ 97,540	\$ 127,568	\$ 102,443	\$ 14,200	\$ 65,051	\$ 102,201
Inventory - Parts							
6645 Parts Other	192,023	165,630	160,899	152,786	13,005	56,666	96,460
6680 Yard	-	-	-	-	-	-	950
Inventory - Parts	\$ 192,023	\$ 165,630	\$ 160,899	\$ 152,786	\$ 13,005	\$ 56,666	\$ 97,410
Inventory - Pipe							
6705 Pipe	96,194	131	1,589	(6,767)	7	1,263	1,429
6710 Pipe Ductile	13,496	55,806	56,321	26,524	5,080	60,604	103,069
6755 Pipe Plastic	1,177	-	-	-	-	-	-
6765 Pipe Service Line	-	-	-	-	1,773	4,236	5,573
Inventory - Pipe	\$ 110,866	\$ 55,938	\$ 57,910	\$ 19,758	\$ 6,860	\$ 66,103	\$ 110,071
Inventory - Valves							
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
Inventory - Valves	\$ 161,925	\$ 91,230	\$ 148,286	\$ 81,812	\$ (420)	\$ 128,469	\$ 215,086
INVENTORY TOTAL	\$ 1,384,257	\$ 908,616	\$ 1,425,146	\$ 1,482,595	\$ 152,322	\$ 976,865	\$ 1,439,383
DIRECT OPERATING TOTAL	\$ 38,318,237	\$ 41,709,993	\$ 46,070,588	\$ 55,691,324	\$ 14,999,498	\$ 29,431,237	\$ 47,146,273
Fees							
7003 Bank Fees	172,412	252,616	289,314	278,243	60,590	134,074	197,907
7005 Certification Fees	2,999	2,600	11,423	3,319	144	144	709
7010 Membership Fees	34,276	31,502	40,483	35,381	44,833	49,401	52,647
7015 Permits	13,641	6,009	7,165	24,134	9,696	50,824	53,894
7020 Registration Fees	1,828	2,874	1,150	41	-	208	408
7030 Licenses	-	-	-	532	-	-	-
7035 Customer CC Fees	169,648	180,363	240,363	424,117	122,723	181,409	402,576
Total Fees	\$ 394,804	\$ 475,964	\$ 589,898	\$ 765,767	\$ 237,985	\$ 416,060	\$ 708,141
Freight and Postage							
7105 Freight.Hauling	50	79	-	-	-	-	-
7110 Freight.Shipping	15,264	19,506	29,611	50,990	23,012	33,894	48,977
7115 Postage	682,266	407,748	455,890	508,325	161,675	306,670	468,909
Total Freight and Postage	\$ 697,580	\$ 427,333	\$ 485,501	\$ 559,315	\$ 184,686	\$ 340,564	\$ 517,885

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Pittsburgh Water & Sewer Authority
Operating Expenses by Account

Direct Operating Expenses	HTY						
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019
Leases & Rents							
7210 Copier.Fax Machine	73,208	75,671	80,279	77,013	27,550	49,553	64,219
7215 Equip Rental	44,883	141,553	181,748	803,705	43,265	88,440	144,015
7255 Office Rent	654,635	653,311	682,316	707,415	358,786	571,301	775,921
7260 Pagers	-	-	-	-	-	-	-
7265 RadiolLease(City)	-	-	-	-	-	-	-
Total Leases & Rents	\$ 772,726	\$ 870,535	\$ 944,343	\$ 1,588,133	\$ 429,601	\$ 709,295	\$ 984,156
Professional Services							
7305 Advertising	8,709	21,137	29,088	28,962	12,136	27,768	37,389
7306 Annual Report	942	-	-	-	-	-	-
7307 Advertising - Marketing	115,910	148,516	18,465	29,427	4,684	5,068	5,068
7310 Annual Audit	87,390	48,670	59,170	64,308	42,000	49,683	49,683
7315 Billing Contract	291,961	511,118	486,391	832,775	119,341	218,794	362,682
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
7325 Consumer Confidence Rpt	4,549	1,481	-	1,707	-	-	2,171
7328 Contingencies	433,435	24,287	22,111	11,766	-	-	148,800
7332 Consulting Engineers	-	-	238,347	147,182	-	15,472	15,472
7335 Misc.Serv.NonCapital	368,053	4,506,051	7,314,114	3,583,069	292,303	891,047	1,660,154
7345 Ins.Auto	59,763	145,925	169,393	29,307	73,057	73,057	73,057
7348 Ins.Commercial Prop	262,011	162,871	210,767	215,532	226,172	226,172	226,172
7353 Ins.Gen Liability	4,786	5,018	5,308	20,798	21,637	21,637	21,637
7359 Ins.Officers.Director	62,166	14,710	63,812	74,349	74,528	74,528	74,528
7365 Ins.WorkersComp	-	-	-	-	-	-	-
7366 Ins.WorkersComp.City	42,420	40,025	18,120	33,352	7,697	17,959	25,656
7368 Internet Connection.Serv	45,022	54,300	44,508	66,656	12,417	24,763	38,972
7370 Legal	1,176,688	1,713,491	1,838,942	2,894,513	591,346	981,694	1,851,338
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
7382 Payroll Services	55,825	59,103	54,044	72,899	16,690	33,522	54,024
7383 Prof.Service.Other	1,421,634	1,609,538	1,427,969	5,307,167	633,128	1,957,919	4,300,614
7389 Trust Admin	126,077	106,312	76,940	71,235	27,690	28,485	30,411
7390 Water Liens	-	-	-	-	-	-	8,000
Total Professional Services	\$ 8,419,266	\$ 11,061,100	\$ 14,120,113	\$ 15,526,273	\$ 2,608,755	\$ 5,367,923	\$ 10,024,902
Supplies							
7405 Computer Software Supplies	32,426	42,147	53,155	35,174	3,172	6,130	6,878
7422 Fuel-Gasses	1,665	2,079	3,457	4,845	38,190	51,444	105,303
7423 Fuel Kerosene	-	-	-	-	-	-	-
7424 Fuel Propane	4,144	68,705	226,871	174,824	16,695	17,001	18,496
7435 GIS Plotter.Xerox	2,381	756	855	-	-	-	-
7440 Grounds & Maint Supp	-	36,360	38,814	36,542	43,678	89,909	121,251
7443 ICE	-	-	-	-	-	-	-
7445 Lab Chemicals	26,500	25,371	60,981	4,219	675	5,297	8,021
7447 Lab Supplies	73,478	80,726	20,634	48,936	20,029	49,119	73,259
7450 Office Supplies	22,303	22,614	21,289	37,623	20,287	30,726	47,106
7490 Welding Supplies	4,611	7,282	7,646	17,885	1,254	3,211	13,934
Total Supplies	\$ 167,507	\$ 286,040	\$ 433,702	\$ 360,047	\$ 143,980	\$ 252,839	\$ 394,249

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

Direct Operating Expenses	HTY						
	12 Months Ended 12/31/2015	12 Months Ended 12/31/2016	12 Months Ended 12/31/2017	12 Months Ended 12/31/2018	3 Months Ended 3/31/2019	6 Months Ended 6/30/2019	9 Months Ended 9/30/2019
Travel & Entertainment							
7505 TE.Airfare	9,465	7,629	1,084	6,706	-	1,704	11,206
7510 TE.Auto Rentals	-	-	-	197	-	-	-
7520 TE.Fuel	-	-	-	-	-	-	-
7540 TE.Lodging	12,649	17,001	11,522	11,411	188	1,771	10,309
7545 TE.Meals	8,966	9,522	3,375	4,428	327	624	1,216
7550 TE.Mileage	3,482	3,151	1,267	1,440	852	1,104	1,876
7555 TE.Seminars/Conferences	17,870	16,937	12,053	12,255	6,222	7,397	17,002
7560 TE.Training	29,129	54,666	14,942	25,288	6,944	28,403	36,610
7575 TE.Travel Misc	10,439	35,237	7,986	20,799	4,086	10,141	16,519
7590 TE.Travel Purch Orders	29,149	4,964	-	-	-	-	-
Total Travel & Entertainment	\$ 121,148	\$ 149,106	\$ 52,229	\$ 82,523	\$ 18,619	\$ 51,145	\$ 94,739
Utilities							
7605 Electric	4,061,572	4,409,946	4,555,391	4,375,877	923,336	1,915,420	2,944,274
7650 Natural Gas.City	447,035	333,770	410,764	383,385	180,995	288,758	296,283
7675 Telemeter	71,810	51,326	56,417	54,631	14,013	22,330	34,515
7680 Cellular Phone	78,054	101,589	157,602	142,408	56,484	92,450	134,938
7681 Local Phones	336,594	224,626	172,383	150,377	26,598	81,895	105,192
7682 Long Distance	829	913	847	869	99	199	347
Total Utilities	\$ 4,995,893	\$ 5,122,171	\$ 5,353,404	\$ 5,107,547	\$ 1,201,524	\$ 2,401,052	\$ 3,515,549
Miscellaneous Admin							
7705 Bad Debt	-	-	-	-	-	-	-
7710 Capital Asset Reclass	-	-	-	(3,150,810)	-	-	-
7711 DISC Asset Reclass	-	-	-	-	-	-	-
7712 Cash Discount Taken	(597)	(446)	(321)	(523)	(189)	(292)	(581)
7715 Claims.Deductibles	484,941	195,887	229,858	353,049	270,589	310,846	518,641
7720 Customer Refund.CSM	-	-	-	-	-	-	-
7721 Customer Refund. AP	368,354	290,602	331,386	881,565	51,422	174,483	365,309
7730 Fines.Penalties	131	359	600,603	15,372	-	20,000	20,000
7735 LienBuyBkExp	-	-	-	-	-	-	-
7742 Education & Outreach	21,356	119,235	270,044	50,512	5,252	20,094	26,047
7743 Employee Fund	34,028	19,356	54,722	-	-	-	-
7750 Inv.Adjustments	-	-	224,243	1,373,808	-	-	-
7760 Misc Gen.Admin Exp	(4,110)	682	14	0	(0)	0	0
7765 One Call	18,412	17,279	13,589	14,921	4,674	4,447	13,625
7770 Publication.Subscription	5,013	5,711	5,555	4,288	9,642	10,884	11,784
7787 3rd Pty LW Exp	-	-	-	-	-	-	-
7789 3rd Pty Sew Trt Exp	-	-	-	-	-	-	-
7799 Grants Awarded by PWSA	106,500	151,105	51,504	95,000	-	7,900	24,852
Total Miscellaneous Admin	\$ 1,034,029	\$ 799,770	\$ 1,781,197	\$ (362,820)	\$ 341,390	\$ 548,362	\$ 979,675
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

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Appendix K- Capital Project Update

Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & in Service
2019 Utility Cost Shares	Infrastructure replacement due to coordination with other agencies or utilities.	Coordination with other utilities can reduce expenditures up to 75% of the total project cost and reduces the length of time that the public is inconvenienced due to construction efforts.	\$500,000	Borrowed	N/A	N/A
2018 Catch Basin and Inlet Replacement (Annual IDIQ Contract)	Strategic replacement of approximately 840 catch basins and storm inlets throughout the system to replace failed units, stormwater control reliability, and minimize disturbance to the community.	Provides increase in stormwater control reliability, minimizes disturbance to the community, and by maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost.	\$12,187,500	Borrowed	August 2018	September 2019
2019 Catch Basin and Inlet Replacement (Annual IDIQ Contract)	Strategic replacement of approximately 840 catch basins and storm inlets throughout the system to replace failed units.	Provides increase in stormwater control reliability, minimizes disturbance to the community, and by maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost.	\$8,000,000	Borrowed	October 2019	October 2020
Maytide Storm and Sanitary Sewer System Improvements	Reconstruction of storm infrastructure from Merritt Avenue to the storm interceptor on Ravilla Avenue, the realignment of the sanitary sewer on Maytide (Sanderson to Valline), and the rehabilitation and/or reconstruction of the sanitary sewer mains on the undeveloped right-of-ways in the vicinity.	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, inspections of the sanitary sewers in the vicinity revealed structural and construction defects	\$6,520,000	Borrowed	March 2018	November 2020
Saw Mill Run Stream Bank Restoration	Stream restoration of approximately 1,500 linear feet of the Saw Mill Run Creeks to reduce pollutants in the impaired waterway.	This project is required to comply with the MS4 NPDES permit application submitted to the Pennsylvania Department of Environmental Protection and to meet the waste load reductions required in the EPA-approved Sediment TMDL in the Saw Mill Run watershed.	\$1,385,000	Borrowed	October 2018	April 2020
Volunteer's Field Storm Water Management	Installation of BMPs to reduce sediment, other pollutant loads, stormwater volume, and peak flows to the Saw Mill Run watershed. This project has been broken into 2 phases, the first project is a bioretention facility. The second project is regrading of the ballfields to reduce sediment runoff into the storm system to be in compliance with the EPA approved sediment TMDL.	This project is required to comply with the MS4 NPDES permit application submitted to the Pennsylvania Department of Environmental Protection and to meet the waste load reductions required in the EPA-approved Sediment TMDL in the Saw Mill Run watershed.	\$1,465,000	Borrowed	October 2018	December 2020
Saw Mill Run Watershed Water Quality Improvement Project (formally known as Overbrook Pollution and Flood Reduction)	Implementation of stormwater treatment and reconnection of streams to vegetated floodplains to help mitigate stormwater peak flows, reduce flooding, reduce sediment, other pollutant loads, and reduce CSO volume	This project will demonstrate the effectiveness of Stormwater Management Project in reducing pollutants, controlling CSO/SSOs, and restoring the health of the aquatic ecosystems in the Saw Mill Run watershed to comply with MS4 NPDES permit and PADEP CO regulatory obligations.	\$6,500,000	Borrowed	October 2019	November 2021
Wightman Park Stormwater Management Project	Installation of stormwater management features to capture and detain impervious acres from the adjacent streets into the park in the Squirrel Hill neighborhood of the City of Pittsburgh, which is tributary to the M-29 combined sewer outfall.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$2,365,000	Borrowed	March 2018	September 2020

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
Wightman Park Stormwater Management Project Phase 2 and 3	Phase 2 and 3 will use the available detention storage in the park from Phase 1 and reach out into the Squirrel Hill Neighborhood to convey additional stormwater runoff to the park. This is tributary to the M-29 combined sewer outfall.	This project area was identified during the Phase 1 planning and design as a high yield drainage area for capturing stormwater runoff to reduce CSO and flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$2,371,000	Borrowed	May 2019	November 2021
Woods Run Stream Removal -Phase 1	Installation of stormwater management features to detain and slow release the existing stream base and wet weather flow currently discharging directly into a 36-inch diameter combined sewer on Mairdale Avenue.	This project area was identified in the PWSA Integrated Plan as a stream inflow point to the combined sewer system for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$4,296,000	Borrowed	October 2017	April 2021
Panther Hollow/Four Mile Green/Stormwater Infrastructure	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.	This project area was identified in the PWSA Integrated Plan as a stream inflow point to the combined sewer system for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$29,400,000	Borrowed	May 2018	December 2022
Spring Garden Stream Removal	Sewer separation, stream restoration, bioretention, and underground storage (if necessary) to remove the existing stream base and wet weather flow currently discharging into the combined sewer located in A-60.	This project area was identified in the PWSA Integrated Plan as a stream inflow point to the combined sewer system for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$10,710,000	Borrowed	April 2019	September 2022
MLK Field Stormwater Management Project	Installation of stormwater management features to capture and detain impervious acres from the adjacent streets into the park in the Hill District/Uptown area of the City of Pittsburgh, which is tributary to the M-19 combined sewer outfall.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$3,402,000	Borrowed	March 2019	September 2021
Woodland Drive Stormwater Management Project	Installation of stormwater management features to capture and detain impervious acres from the adjacent streets and steeply sloping hillside within Chatham University, which is tributary to the A-22 combined sewer outfall.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$1,195,000	Borrowed	October 2018	November 2020
Thomas and McPherson Stormwater Management Project	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.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$4,650,000	Borrowed	October 2018	April 2021
Negley Run/Washington Boulevard Stormwater Management Project	Sewer separation, stream restoration, bioretention, and underground storage (if necessary) to remove the existing stream base and wet weather flow currently discharging into the combined sewer located in A-42.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$567,000	Borrowed	January 2019	December 2020

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
Lawn and Ophelia Stormwater Management Project	Installation of stormwater management features to capture and detain impervious acres from the adjacent streets into the park in the South Oakland neighborhood, which is tributary to the M-19B combined sewer outfall.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$785,000	Borrowed	May 2018	November 2020
South Side Park Stormwater Management Project	Installation of stormwater management features to detain and slow release the existing stream base and wet weather flow currently within the Park and downstream adjacent streets tributary to the M-16 combined sewer outfall.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$6,155,000	Borrowed	December 2018	September 2022
Maryland Avenue Stormwater Management Project	Installation of stormwater management features to capture and detain impervious acres from Maryland Ave and the adjacent streets which is tributary to the A-22 combined sewer outfall. Project being split into 3 primary phases. This is only Phase 1.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$3,950,000	Borrowed	January 2018	November 2020
St. Johns Stormwater Management Project	Preliminary design of stormwater management features to capture and detain impervious acres tributary to the former St. John's hospital site now scheduled to be green space, which is tributary to the O-27 combined sewer outfall. Design and construction will be through a future project to be developed after preliminary design is complete.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$5,309,000	Borrowed	December 2018	November 2021
A-41 Stormwater Management Implementation Project	Preliminary design of stormwater management features to capture and detain impervious acres within the identified high yield stormwater capture areas of the A-41 CSO sewershed. Design and construction will be through multiple future projects to be developed after preliminary design is complete.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$600,000	Borrowed	August 2019	May 2020
A-22 Stormwater Management Implementation Project	Preliminary design of stormwater management features to capture and detain impervious acres within the identified high yield stormwater capture areas of the A-22 CSO sewershed. Design and construction will be through multiple future projects to be developed after preliminary design is complete.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$600,000	Borrowed	March 2019	May 2020
A-42 Stormwater Management Implementation Project	Preliminary design of stormwater management features to capture and detain impervious acres within the identified high yield stormwater capture areas of the A-42 CSO sewershed. Design and construction will be through multiple future projects to be developed after preliminary design is complete.	This project area was identified in the PWSA Integrated Plan as a high yield drainage area for capturing stormwater runoff to reduce CSO and mitigate flooding to comply with PADEP Consent Order regulatory obligations for CSO compliance.	\$615,000	Borrowed	August 2019	May 2020
2019 Sewer Reconstruction (Annual IDIQ Contract)	Reconstruction of existing sewers, manholes, catch basins, and inlets due to emergency situations or pipe failures.	The existing sewer system is aging and immediate repairs are required to address failures that could be significant public safety hazards.	\$1,620,000	Borrowed	March 2019	March 2020

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
2018 Sewers Under Structures	Rehabilitation, relocation, and abandonment, if applicable, of existing sewer infrastructure located under or adjacent to buildings, bridges, or railroads or located on steep slopes. The following four sites have been identified: Ellsworth Avenue (695 linear feet of 20-inch vitrified clay, combined sewer main located 5135 Ellsworth Avenue), Oakwood Bridge (215 linear feet of 24-inch vitrified clay, combined sewer main located adjacent to the Oakwood Road Bridge), South 16th Street (700 linear feet of 20 and 24-inch vitrified clay, combined sewer main located under the Union Supply Company building, CSX railroad tracks, and the Three Rivers Heritage Trail), and Centre Avenue (575 linear feet of 15-inch vitrified clay, combined sewer main located under a 20-inch water main that serves UPMC Shadyside and a telecommunications duct bank.	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.	\$6,680,000	Borrowed	March 2018	December 2020
2018 Small Diameter Sewer Rehabilitation (Annual IDIQ Contract)	Trenchless rehabilitation of less than 24-inch diameter sewer mains to restore structural integrity, reduce root intrusion, and reduce infiltration and inflow, includes cleaning and pre and post construction CCTV inspections.	Provides the Authority a means to address several moderate/major structural defects in a pipe segment prior to complete failure. This trenchless pipe renewal method eliminates disruptive digging and restoration and is cost effective.	\$1,910,000	Borrowed	September 2018	December 2019
2019 Small Diameter Sewer Rehabilitation (Annual IDIQ Contract)	Trenchless rehabilitation of less than 24-inch diameter sewer mains to restore structural integrity, reduce root intrusion, and reduce infiltration and inflow, includes cleaning and pre and post construction CCTV inspections.	Provides the Authority a means to address several moderate/major structural defects in a pipe segment prior to complete failure. This trenchless pipe renewal method eliminates disruptive digging and restoration and is cost effective.	\$2,250,000	Borrowed	September 2019	January 2021
2019 Small Diameter Sewer Rehabilitation (Defined)	Proactive, trenchless rehabilitation of approximately 6 miles of less than 36-inch diameter sewer mains to restore structural integrity, reduce root intrusion, and reduce infiltration and inflow, includes cleaning, pre and post construction CCTV inspections, and if necessary, excavated point repairs and manhole rehabilitation.	Provides the Authority a means to address inflow and infiltration and several moderate/major structural defects in a pipe segment prior to complete failure. This trenchless pipe renewal method eliminates disruptive digging and restoration and is cost effective.	\$9,260,000	Borrowed	January 2019	February 2021
2020 Small Diameter Sewer Rehabilitation (Defined)	Proactive, trenchless rehabilitation of approximately 6 miles of less than 36-inch diameter sewer mains to restore structural integrity, reduce root intrusion, and reduce infiltration and inflow, includes cleaning, pre and post construction CCTV inspections, and if necessary, excavated point repairs and manhole rehabilitation.	Provides the Authority a means to address inflow and infiltration and several moderate/major structural defects in a pipe segment prior to complete failure. This trenchless pipe renewal method eliminates disruptive digging and restoration and is cost effective.	\$9,500,000	Borrowed	October 2019	September 2021
31 st Ward Sewer System Improvements	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 will be designed and constructed in a minimum of two phases to ensure the pump stations are properly sized and the flow conveyed will not negatively impact the downstream sewer subshed. Schedule provided is for Phase 1.	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, studies suggest this sewershed is significantly impacted by high levels of infiltration/inflow.	\$13,700,000	Borrowed	March 2017	March 2021

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
M-29 Outfall Improvements	Structural improvements and rehabilitation of the the M-29 combined sewer outfall diversion structure. Repairs to the diversion structure include lowering of the weir wall height and safety improvements for maintenance of the structure. The outfall pipeline requires extensive repairs and installation of a new flap gate to the outfall on the Monongahela River.	Provides the Authority a means to address several moderate/major structural defects in a pipe segment prior to complete failure.	\$2,384,329	Borrowed	November 2018	December 2020
2019 Hydrant Replacement (Annual IDIQ Contract)	Replacement of approximately 100 broken or older model type hydrants throughout the water distribution system, excluding hydrants replaced during relays.	Increasing the number of operational hydrants provides better fire protection for the City of Pittsburgh.	\$1,335,000	Borrowed	June 2019	December 2019
2019 Valve Replacement (Annual IDIQ Contract)	Replacement of defective or non-operational valves on transmission and distribution mains throughout the water distribution system, excluding valves replaced during relays. Includes locating, assessing and documenting the operability, raising to grade, and/or cleaning existing buried or obstructed valves.	Increasing the number of operable valves in the system will reduce the number of customers that may be impacted and the number of valves that would need to be closed during emergency conditions.	\$2,980,000	Borrowed	May 2019	December 2019
2018 Water Relay (Annual IDIQ Contract)	Replacement of existing water mains, valves, fittings, service connections, and hydrants due to emergency situations.	The existing water distribution system is aging and immediate repairs are required to address failures that could be significant public safety hazards.	\$3,821,575	Borrowed	September 2018	December 2019
2019 Water Relay (Annual IDIQ Contract)	Replacement of existing water mains, valves, fittings, service connections, and hydrants due to emergency situations.	The existing water distribution system is aging and immediate repairs are required to address failures that could be significant public safety hazards.	\$1,656,692	Borrowed	November 2019	November 2020
2018 Small Water Main Replacement	Strategic replacement of water mains to improve system reliability as well as improve water pressure, maintain water quality, and minimize disturbance to the community. By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost. In 2018, the following mains have been selected for replacement: Hamilton Avenue from N. Dallas Avenue to N. Homewood Avenue; and S. Millvale Avenue from Liberty Avenue to Friendship Avenue. Railroad Street from 25th Street to 32nd Street has not been initiated due to issues receiving railroad permits. Date of completion does not include Railroad Street.	By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in 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.	\$10,520,000	Borrowed	December 2017	December 2019
2019 Small Diameter Water Main Replacement	Strategic replacement of water mains to improve system reliability as well as improve water pressure, maintain water quality, and minimize disturbance to the community. By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost. Additionally, projects will be coordinated with other utilities to minimize disturbance to the community and street surface restoration costs. Water quality and available hydrant flows will also improve by removing tuberculated mains.	By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in 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.	\$10,880,000	Borrowed	March 2019	September 2021

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
2020 Small Diameter Water Main Replacement	Strategic replacement of water mains, including lead service lines, to improve system reliability as well as improve water pressure, maintain water quality, and minimize disturbance to the community. By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in overall replacement cost. Additionally, projects will be coordinated with other utilities to minimize disturbance to the community and street surface restoration costs. Water quality and available hydrant flows will also improve by removing tuberculated mains.	By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus saving in 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.	\$54,340,000	Borrowed	March 2019	September 2021
District Water and Pressure Meters	Installation of water meters and pressure monitors in the distribution system to determine water usage and loss, and pressure loss.	Pressure Monitors are required per PUC. District Metering will be used for water auditing and leak detection.	\$2,835,000	Borrowed	January 2019	December 2020
Ft. Duquesne Bridge Water Air Release	Perform transient analysis along existing 30-inch water main that is suspended from the Fort Duquesne Bridge. Design and construct new pipe supports, couplings, and thrust restraint based on the results of the analysis. Includes the replacement of the existing air-release valve on the 30-inch water main, including insulation or heat tracing to reduce potential for freezing and cracking of the valve.	A recent PENNDOT inspection of the Fort Duquesne Bridge identified priority code 1 defects in the support of the existing 30-inch diameter water main. Additionally, the existing 2-inch diameter air-release valve located on the main has a history of failure. The water main is located below the lower deck of the Fort Duquesne Bridge and serves as an emergency interconnection between pressure gradients and is a vital component to the system operation.	\$2,850,000	Borrowed	January 2017	May 2020
2019 Unmetered and Flat Rate Properties	Metering unmetered and flat rate properties as required by the PUC	Ensure capture of all revenue	\$4,840,000	Borrowed	March 2019	June 2020
2019 Large Water Meters	Replacement of meters as required by the PUC	Ensure capture of all revenue	\$2,100,000	Pay Go	December 2018	December 2019
2019 Small Water Meters	Replacement of meters as required by the PUC	Ensure capture of all revenue	\$2,100,000	Pay Go	December 2018	December 2019
2019 Lead Service Line Replacement	Replacement of 7% of lead service lines, both public and private.	Due to the exceedance of the action levels from compliance tests for lead and copper, the Pennsylvania Department of Environmental Protection required the Authority to perform additional distribution system water quality monitoring, optimization of corrosion control treatment, source water monitoring/treatment, public education, and lead service line replacement.	\$49,128,403	Borrowed/Grant	October 2018	June 2020
2018 Curb Box Inspections	Curb Box Inspections provide the Authority with a cost effective way to visually identify the material on both the public and private sides of the water service lines. Curb Boxes typically require moderate cleaning through a combination of vacuum extraction, high pressure air and high pressure water before a clear visual of the service line can be obtained.	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.	\$2,980,134	Borrowed	December 2017	January 2020

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
2019 Large Diameter Water Main Improvements	Strategic replacement or rehabilitation of large diameter water mains (16-inch and larger) and appurtenances to improve system reliability and hydraulics, including internal and external inspections. In 2019, Rising Mains 3 and 4 from the Bruecken Pump Station have been selected for improvements, which is approximately 2.3 miles of main.	By maintaining a proactive approach to asset management, efforts can be directed towards remedying assets before their failure, thus resulting in a savings in the replacement cost as compared to emergency/reactive repair costs. Typically, large diameter pipe is not readily available and has a 6 to 8 week lead time for delivery. A large percentage of the Authority's large diameter mains are riveted steel, which cannot be easily repaired without the use of field fabricated specialty fittings. Rising Mains 3 and 4 from Bruecken Pump Station to Highland 2 Reservoir were chosen for the 2019 Large Diameter Water Main Improvements Program due to their criticality when the clearwell is being rebuilt.	\$23,550,000	Borrowed	October 2019	August 2023
Aspinwall Pump Station to Lanpher Reservoir Rising Main	Construction of a new, redundant rising main from Aspinwall Pump Station to Lanpher Reservoir.	The existing 60-inch rising main that supplies the Lanpher Reservoir is a 150 year old riveted steel pipe, has several tap connections to critical and bulk customers, and has experienced recent pipe failures. The proposed rising main would serve as a primary supply source for 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-inch supply main.	\$49,454,000	Borrowed	September 2018	December 2022
Ross Pump Station Improvements	Replacement of aged pump and valve equipment, meters, SCADA, electrical equipment, HVAC, and auxiliary systems and the rehabilitation of the building architectural and energy management systems.	The Ross Pump Station is the only feed to the water treatment plant. This station is in need of renewal.	\$43,000,000	Borrowed	August 2018	June 2025
Chlorine Booster Station Improvements	Rehabilitation or replacement of the existing sodium hypochlorite booster stations in the distribution system, excluding Lanpher and Herron Hill. Includes installation of flow meters, if necessary.	Existing chlorine injections systems at satellite storage facilities are in need of renewal. Without upgrade of these facilities, the system would be in violation of residual chlorine levels required by PA DEP.	\$10,090,000	Borrowed	July 2019	December 2021
Herron Hill Reservoir Improvements	Installation of new liner and cover and provide ancillary improvements to the entire facility, including Sodium Hypochlorite injection system, SCADA system improvements, site electrical improvements, sluice gate rehabilitation, dewatering pumps, concrete repairs and necessary site work.	Reservoir liner and cover is close to the end of its design life where patching and regular maintenance will no longer be effective.	\$5,520,000	Borrowed	April 2019	December 2020

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
Lanpher Reservoir Improvements	Installation of new liner and cover and provide ancillary improvements to the entire facility, including Sodium Hypochlorite injection system, SCADA system improvements, site electrical improvements, sluice gate rehabilitation, dewatering pumps, concrete repairs and necessary site work. Liner and cover complete. Sodium Hypochlorite addition in design and construction complete by December 2022.	Work required as a result of a failure of the reservoir floating cover in September 2017. Sodium hypochlorite feed system is reaching the end of its design life.	\$30,890,182	Borrowed	September 2017	December 2022
Highland No. 2 Reservoir Improvements	Installation of new liner and cover and provide ancillary improvements to the entire facility, including new outlet piping for Highland Pump Station and Rising Main, Sodium Hypochlorite injection system, SCADA system improvements, site electrical improvements, sluice gate rehabilitation, dewatering pumps, concrete repairs and necessary site work.	Upgrade of outlet structure to allow increased capacity for the Highland Reservoir Pump Station. Replace liner and cover.	\$27,510,000	Borrowed	July 2019	March 2022
Highland Reservoir Pump Station and Rising Main	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	All compliant water supply for the Highland No. 1 Service Area currently flows through the Highland No. 1 Reservoir and the Membrane Filtration Plant (MFP) or directly into the system. There is no online storage for the system, and there is no other source water supply for the Highland No. 1 Service Area. In addition to providing alternate supply, this project will 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 will also be designed to service the Garfield pressure district, thus eliminating the need to rehabilitate the (New) Highland Pump Station.	\$37,130,000	Borrowed	March 2017	October 2022
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	Improvements to pretreatment chemical systems, clarifiers, sedimentation, and associated systems to provide enhanced water treatment.	Chemical treatment systems are a critical component to producing safe drinking water. Components of the chemical treatment systems can no longer be operated in a safe, effective, or reliable manner to meet water quality requirements. Many bulk water treatment chemicals present safety hazards to staff. The storage and pumping systems associated with these chemicals have reached the end of their useful life. Failures resulting in dust creation and chemical spills can place operators in unsafe working conditions and can cause physical damage to equipment and structures, as well as environmental contamination.	\$28,505,990	Borrowed	March 2017	February 2023

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
Aspinwall Water Treatment Plant Electrical and Backup Power Improvements	Improvements to electrical systems at Aspinwall Water Treatment Plant, including provisions for backup power systems, upgrades to existing electrical distribution system, and replacement of motor control centers.	Electrical systems at the Aspinwall Water Treatment Plant have generally met the end of their useful lives and spare/replacement parts are unavailable. Electrical panels do not meet current safety standards, including lack of arc flash protection. Additionally, the Aspinwall Water Treatment Plant does not have redundant power systems or a means for stand-by power for critical pumping and treatment systems.	\$26,520,000	Borrowed	March 2017	June 2023
Aspinwall Water Treatment Plant Raw Water Intakes	Project will include 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.	Only one intake is currently operable. Both intakes are in need of renewal.	\$45,000,000	Borrowed	August 2018	June 2025
Clearwell Emergency Response Project	Construction of piping, suction wells, if necessary, and appurtenances to bypass the existing clearwell.	This project will provide a means to bypass the existing clearwell. Note: Disinfection requirements will not be achieved while bypassing is occurring. Additionally, this infrastructure will be required to maintain water supply to PWSA's customers for the rehabilitation or replacement of the existing clearwell.	\$27,670,000	Borrowed	March 2017	March 2025
Clearwell Improvements	Replacement of the existing 108 year old, single cell clearwell (finished water structure). 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 to meet the requirements of the Federal 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.	\$67,062,343	Borrowed	April 2019	March 2026
Corrosion Control Chemical Storage and Feed Systems	Installation of phosphoric acid storage and feed systems located at Aspinwall Pump Station, Bruecken Pump Station, and near the Membrane Filtration Plant to provide corrosion control in the distribution system.	Addition of a new corrosion control chemical was required per PA DEP Consent Order.	\$9,142,035	Borrowed	May 2018	February 2020
Highland Park Membrane Filtration Module Replacement Program	Replace membrane modules, which includes a total of 10 racks each with 80 modules. Note: Four racks were replaced in 2017.	Replacement necessary to maintain operation of the MFP.	\$2,289,711	Borrowed	May 2017	February 2020
Highland Park Membrane Filtration Plant UV System	Installation of a UV treatment system and appurtenances at the Highland Park Membrane Filtration Plant (MFP).	To comply with the 1 log inactivation of Giardia cysts and the PADEP Administrative Order dated October 25, 2017.	\$6,697,381	Borrowed	October 2017	February 2020
MFP Assessment and Critical Process Improvements	Complete a condition assessment of systems supporting the treatment process and perform critical improvements to maintain water treatment and allow full warranty of replacement modules. Improvements may include electrical, chemical feed, strainers, and other support systems.		\$2,417,622	Borrowed	March 2017	February 2020

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Project Name	Project Descriptions	Project Justification	Budgeted Cost	Funds	Start Date	Date of Completion & In Service
Water System GIS Improvements	Rescan Water Record Books, input material and pipe age into GIS. Update valve layer.	GIS upgrade required in order to prioritize mains for renewal.	\$1,400,000	Borrowed	March 2020	March 2022
Water Master Plan	Comprehensive plan, including analysis of demands, future demands, capacities, and pipe condition based assessment.	Master Plan required to prioritize water mains, pump stations, and storage for renewal, identify and refine future CIP projects.	\$500,000	Borrowed	March 2019	December 2019

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
2014 COA Storm Sewer Separation	SS15-424-178-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO28845	General Contractor	Purchase Order for Release of Retainage - Originally PennVest	Approved
2015 Water Emergency/Relay - Zottola	2013-325-178-0	Capital	MOTT MACDONALD (Capital)	PO14262	Other Services	HMM23-31_Waterline Relay Surveys	Approved
2015 Water Emergency/Relay - Zottola	2013-325-178-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO02280	z-Program Mgt/CM Related	Approved TO value	Approved
2015 Water Emergency/Relay - Zottola	2013-325-178-0	Capital	FRANK J ZOTTOLA CONSTRUCTION, INC. (Capital)	PO01881	General Contractor	Awarded Contractor Bid	Approved
2016 Catch Basin Replacement	2016-424-105-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO17015	z-Program Mgt/CM Related	CE27-75 CM/CI Services	Approved
2016 Forbes/Darlington	2016-424-107-0	Capital	GAI CONSULTANTS INC. (Capital)	PO27215	z-Planning and Design Related	GAI28-10 DESIGN SRVCS AWARDED TO VALUE	Approved
2017 Catch Basin and Inlet Replacement - Fecchiano	2017-424-102-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO21588	z-Program Mgt/CM Related	CE27-117 CM/CI AWARDED TO VALUE	Approved
2017 Catch Basin and Inlet Replacement - Fecchiano	2017-424-102-0	Capital	MICHAEL FACCHIANO CONTRACTING	PO21138	General Contractor	Awarded Contract Value	Approved
2017 Hydrant Replacement	2017-325-102-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO29731	z-Program Mgt/CM Related	CE27-176 - Construction Management and Construction Inspection Services Task Order Request	Approved
2017 Hydrant Replacement	2017-325-102-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO21130	General Contractor	Awarded Contract Value-IEI	Approved
2017 Valve Replacement	2017-325-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO29737	z-Program Mgt/CM Related	CE27-177 - Construction Management and Construction Inspection Services Task Order Request	Approved
2017 Valve Replacement	2017-325-104-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO21135	General Contractor	Awarded Contract Value-IEI	Approved
2018 Catch Basin Replacement - A. Folino	2018-424-101-1	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO26076	z-Program Mgt/CM Related	JMT00-07 CM/CI/GPS AWARDED TO VALUE	Approved
2018 Catch Basin Replacement - A. Folino	2018-424-101-1	Capital	A. FOLINO CONSTRUCTION, INC. (Capital)	PO25873	General Contractor	CONTRACT AWARD	Approved
2018 Catch Basin Replacement - Independent	2018-424-101-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO26075	z-Program Mgt/CM Related	JMT00-06 CM/CI/GPS AWARDED TO VALUE	Approved
2018 Catch Basin Replacement - Independent	2018-424-101-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO25872	General Contractor	CONTRACT AWARD	Approved
2018 Curb Box Inspection Contract	2017-325-106-0	Capital	LJB WATER SERVICE, INC.	PO24828	Other Services	B & T REPLACEMENT LIDS	Approved
2018 Curb Box Inspection Contract	2017-325-106-0	Capital	URS CORPORATION (capital)	PO23967	Other Services	URS27-32 PM SPPT AWARDED TO VALUE	Approved
2018 Curb Box Inspection Contract	2017-325-106-0	Capital	MICHAEL BAKER, INC. (Capital)	PO24792	Other Services	MBI00-01 GPS AWARDED TO VALUE	Approved
2018 Individual Lead Service Line Replacement Contract - A. Folino	2018-325-100-8	Capital	DOLLAR ENERGY FUND, INC (Capital)	PO26582	Other Services	DOLLAR ENERGY FUND CEP ASSISTANCE	Approved
2018 Individual Lead Service Line Replacement Contract - A. Folino	2018-325-100-8	Capital	URS CORPORATION (capital)	PO27417	z-Program Mgt/CM Related	URS27-45 CM/CI AWARDED TO VALUE	Approved
2018 Individual Lead Service Line Replacement Contract - A. Folino	2018-325-100-8	Capital	A. FOLINO CONSTRUCTION, INC. (Capital)	PO27328	General Contractor	CONTRACT AWARD	Approved
2018 Individual Lead Service Line Replacement Contract - Independent	2018-325-100-7	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO27329	General Contractor	CONTRACT AWARD	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	Cintas Corporation (Capital)	PO25431	Other Services	BOOTS-D MATRANO	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	Cintas Corporation (Capital)	PO27085	Other Services	BOOTS FOR ERNY AND BERGH	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	Precision Laser & Instrument, Inc. (Capital)	PO29336	Other Services	GPS Equipment	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	Compliance Management International (Capital)	PO24988	Other Services	PWSA77- ADDITIONAL WORK SAFETY SUPPQRT	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	MOTT MACDONALD (Capital)	PO24665	z-Program Mgt/CM Related	MM23-117 LEAD INVENTORY SRVCS AWARDED TO VALUE	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	G Stephens, Inc (Capital)	PO25337	z-Program Mgt/CM Related	GS100-05 PRJ CNTRLS AWARDED TO VALUE	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	120 Water Audit, LLC (Capital)	PO25562	Other Services	PWSA89 IFB AWARD FOR FILTERS/PITCHERS	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	120 Water Audit, LLC (Capital)	PO24629	Other Services	LEAD SAMPLE TESTING CONTRACT	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	120 Water Audit, LLC (Capital)	PO29446	Other Services	Lead Service Line Replacement	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO25793	z-Program Mgt/CM Related	CE27-145 GPS AWARDED TO VALUE	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	120 Water Audit, LLC (Capital)	PO29323	Other Services	Contract Award PWSA99 for filters and pitchers 1 yr extension	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	East Woods Consultants, LLC (Capital)	PO24966	z-Program Mgt/CM Related	2018 LEAD PRGM MANAGER CONSULTING SRVCS CT	Approved
2018 Lead Service Line Replacement Program	2018-325-100-0	Capital	MOTT MACDONALD (Capital)	PO24666	z-Program Mgt/CM Related	MM23-118 2018 LEAD PROG SPPT AWARDED TO VALUE	Approved
2018 Lead Service Line Replacement Program - A. Merante	2018-325-100-5	Capital	URS CORPORATION (Capital)	PO25623	z-Program Mgt/CM Related	URS27-43 CM/CI AWARDED TO VALUE	Approved
2018 Sewer Reconstruction	2017-424-111-0	Capital	Columbia Gas of PA (Capital)	PO26684	Other Services	COLUMBIA GAS COST SHARE FOR SURFACE RESTORATION	Approved
2018 Sewer Reconstruction	2017-424-111-0	Capital	MICHAEL BAKER, INC. (Capital)	PO29407	z-Planning and Design Related	MBI00-07 Design Services	Approved
2018 Sewer Reconstruction	2017-424-111-0	Capital	G. Stephens, Inc (Capital)	PO23406	z-Program Mgt/CM Related	GS100-01 CM/CI AWARDED TO VALUE	Approved
2018 Sewers Under Structures	2017-424-110-0	Capital	MICHAEL BAKER, INC. (Capital)	PO24785	z-Planning and Design Related	MBI00-03 ENG SRVCS AWARDED TO VALUE	Approved
2018 Small Diameter Sewer Rehabilitation (IDIQ)	2018-424-100-0	Capital	MOTT MACDONALD (Capital)	PO28797	z-Program Mgt/CM Related	MM23-142 Design Support	Approved
2018 Small Diameter Sewer Rehabilitation (IDIQ)	2018-424-100-0	Capital	G. Stephens, Inc (Capital)	PO26551	z-Program Mgt/CM Related	GS100-06 CM/CI AWARDED TO VALUE	Approved
2018 Small Diameter Sewer Rehabilitation (IDIQ)	2018-424-100-0	Capital	INSITUFORM TECHNOLOGIES	PO26083	General Contractor	CONTRACT AWARD	Approved
2018 Small Diameter Water Main Replacement Project - Zotolia	2017-325-103-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO28333	z-Program Mgt/CM Related	CE27-166 Constructability Review /Cost Estimate	Approved
2018 Small Diameter Water Main Replacement Project - Zotolia	2017-325-103-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO27299	Other Services	CE27-160 CONSTRUCTABILITY REVIEW AWARDED TO VALUE	Approved
2018 Small Diameter Water Main Replacement Project - Zotolia	2017-325-103-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO29465	z-Program Mgt/CM Related	CM/CI/GPS Services for 2018 SDWMR	Approved
2018 Small Diameter Water Main Replacement Project - Zotolia	2017-325-103-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO25742	z-Planning and Design Related	JMT00-04 DSGN 2 AWARDED TO VALUE	Approved
2018 Small Diameter Water Main Replacement Project - Zotolia	2017-325-103-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO23536	z-Planning and Design Related	JMT00-01 DESIGN AWARDED TO VALUE	Approved
2018 Small Diameter Water Main Replacement Project - Zotolia	2017-325-103-0	Capital	FRANK J ZOTTOLA CONSTRUCTION, INC. (Capital)	PO29202	General Contractor	AWARDED CONTRACT	Approved
2018 Water Relay	2018-325-101-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26597	z-Program Mgt/CM Related	CE27-153 CM/CI AWARDED TO VALUE	Approved
2018 Water Relay	2018-325-101-0	Capital	MICHAEL FACCHIANO CONTRACTING	PO26033	General Contractor	CONTRACT AWARD	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
2019 Catch Basin and Inlet Replacement- A. Folino	2019-424-107-1	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO32015	CM-CI	JMT00-28 - 2019 CBR - A. Folino	Approved
2019 Catch Basin and Inlet Replacement- A. Folino	2019-424-107-1	Capital	A FOLINO CONSTRUCTION, INC. (Capital)	PO31234	General Contractor	Awarded Contract - A. Folino	Approved
2019 Catch Basin and Inlet Replacement- Zottola	2019-424-107-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO31813	CM-CI	JMT00-28 - CM/CI/GPS	Approved
2019 Catch Basin and Inlet Replacement- Zottola	2019-424-107-0	Capital	FRANK J ZOTTOLA CONSTRUCTION, INC. (Capital)	PO31231	General Contractor	AWARDED CONTRACT	Approved
2019 Hydrant Replacement	2018-325-104-0	Capital	G. Stephens, Inc. (Capital)	PO28682	z-Program Mgt/CM Related	GS100-11 - CM/CI/GPS Services for 2019 Hydrant Replacement Contract	Approved
2019 Hydrant Replacement	2018-325-104-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO28681	General Contractor	Contract Award Independent Enterprises, Inc.	Approved
2019 Large Diameter Water Main Improvements (Rising Main 3 & 4)	2019-325-103-0	Capital	MOTT MACDONALD (Capital)	PO29777	z-Program Mgt/CM Related	MM23-143 - Rising Main 3 & 4 Rehabilitation Feeding Study	Approved
2019 Sewer Reconstruction	2019-424-102-0	Capital	MOTT MACDONALD (Capital)	PO29734	z-Program Mgt/CM Related	MM23-146 - Project Management Services for 2019 Sewer Reconstruction	Approved
2019 Sewer Reconstruction	2019-424-102-0	Capital	G. Stephens, Inc. (Capital)	PO30129	z-Program Mgt/CM Related	GS100-13-CM/CI/AS-Built Services	Approved
2019 Sewer Reconstruction	2019-424-102-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO28201	General Contractor	AWARDED CONTRACT	Approved
2019 Small Diameter Sewer Rehabilitation (Defined Sites)	2019-424-100-0	Capital	MOTT MACDONALD (Capital)	PO28116	z-Planning and Design Related	MM23-133 PM Services	Approved
2019 Small Diameter Sewer Rehabilitation (Defined Sites)	2019-424-100-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO30802	z-Program Mgt/CM Related	CE27-186 - CM/CI/As-Built Services	Approved
2019 Small Diameter Sewer Rehabilitation (Defined Sites)	2019-424-100-0	Capital	Wade Trim, Inc. (Capital)	PO28558	z-Planning and Design Related	WT00-05 Design and Design Services During Construction	Approved
2019 Small Diameter Water Main Replacement	2019-325-101-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO31567	z-Program Mgt/CM Related	CE27-185 Constructability Review	Approved
2019 Small Diameter Water Main Replacement	2019-325-101-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO28515	z-Planning and Design Related	2019 SDWR - JMT	Approved
2019 Surface Restoration Contract	2019-325-106-0 (IE)	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO28720	z-Program Mgt/CM Related	CE27-170 CM/CI - All Capital	Approved
2019 Surface Restoration Contract	2019-325-106-0 (IE)	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO28552	General Contractor	Contract Award	Approved
2019 Valve Replacement	2018-325-105-0	Capital	G. Stephens, Inc. (Capital)	PO30375	z-Program Mgt/CM Related	GS100-12 - CM/CI/GPS for 2019 Valve Replacement Contract	Approved
2019 Valve Replacement	2018-325-105-0	Capital	INDEPENDENT ENTERPRISES INC (Capital)	PO28689	General Contractor	Contract Award Independent Enterprises, Inc.	Approved
2020 Small Diameter Water Main Replacement - Contract A	2019-325-102-1	Capital	AECOM TECHNICAL SERVICES, INC.	PO31694	z-Planning and Design Related	URS27-60 - Constructability Review	Approved
2020 Small Diameter Water Main Replacement - Contract A	2019-325-102-1	Capital	BUCHART HORN, INC. (Capital)	PO28511	z-Planning and Design Related	2020 A - Design Services - Buchart Horn	Approved
2020 Small Diameter Water Main Replacement - Contract B	2019-325-102-2	Capital	Commonwealth of Pennsylvania (Cap)	PO31507	Other Services	PERMIT FEE- GENERAL NPDES APPLICATION	Approved
2020 Small Diameter Water Main Replacement - Contract B	2019-325-102-2	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO31612	z-Planning and Design Related	JMT00-30 - Constructability Review	Approved
2020 Small Diameter Water Main Replacement - Contract B	2019-325-102-2	Capital	GAI CONSULTANTS INC. (Capital)	PO28503	z-Planning and Design Related	Design Services Agreement for 2020 SDWMR - Contract B	Approved
31st Ward Sewer System	2017-424-100-0	Capital	MOTT MACDONALD (Capital)	PO20775	Other Services	MM23-93 AWARDED TO VALUE PM SUPPORT	Approved
31st Ward Sewer System	2017-424-100-0	Capital	American General Services Corporation (Capital)	PO28570	Other Services	Closing of land purchase	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
31st Ward Sewer System	2017-424-100-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO31009	z-Program Mgt/CM Related	JMT00-24 - Constructability Review/CM/CI/GPS Services	Approved
31st Ward Sewer System	2017-424-100-0	Capital	BUCHART HORN, INC. (Capital)	PO27747	z-Planning and Design Related	BH28-10 FINAL DESIGN AWARDED TO VALUE	Approved
A-41 Green/Stormwater Infrastructure	2019-GI-102-1	Capital	AKRF, Inc (Capital)	31167	z-Planning and Design Related	A-41, AKRF Contract	Approved
A-42 Green /Stormwater Infrastructure	2019-GI-102-2	Capital	MS Consultants, Inc (Capital)	PO30829	General Contractor	CONCEPTUAL DESIGN	Approved
Aspinwall and MFP Fiberglass Reinforced Plastic Chemical Tank Inspections and Repairs/Replacement	2017-322-102-0	Capital	ADVANCED FIBERGLASS SERVICES (Capital)	PO21888	Other Services	4 FRP Tanks Inspections	Approved
Aspinwall and MFP Fiberglass Reinforced Plastic Chemical Tank Inspections and Repairs/Replacement	2017-322-102-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO21492	Other Services	CE27-92 PM SUPPORT (D GRAHAM) & DESIGN APPROVED TO VALUE	Approved
Aspinwall and MFP Fiberglass Reinforced Plastic Chemical Tank Inspections and Repairs/Replacement	2017-322-102-0	Capital	ADVANCED FIBERGLASS SERVICES (Capital)	PO23143	Other Services	LINER INSTALL AND INTERIOR SURFACE INSTALL	Approved
Aspinwall Pump Station to Lanpher Reservoir Rising Main	2018-323-100-0	Capital	ARCADIS US, INC (Capital)	PO25338	Other Services	ARC28-15 RFP PREP AWARDED TO VALUE	Approved
Aspinwall Pump Station to Lanpher Reservoir Rising Main	2018-323-100-0	Capital	MOTT MACDONALD (Capital)	PO27216	z-Program Mgt/CM Related	MM23-125 PM SERVICES AWARDED TO VALUE	Approved
Aspinwall Pump Station to Lanpher Reservoir Rising Main	2018-323-100-0	Capital	MICHAEL BAKER, INC. (Capital)	PO28372	z-Planning and Design Related	Professional Services for Design	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	EVOQUA WATER TECHNOLOGIES	PO30233	Other Services	Emergency Clarifier #2 Sludge Removal Equip Inspection	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO30821	z-Program Mgt/CM Related	CE27-189 - Constructability Calculation for Cleanwell Ventilation Lids	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	CDM (Capital)	PO31774	Water Systems	CDM00-06 - Pretreatment & Chemical Process Improvements BODR / CIP Third Party Review August Tasks	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	CDM (Capital)	PO29860	Other Services	CDM00-04 - Pretreatment & Chemical Process Improvements BODR / CIP Third Party Review	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO19982	z-Program Mgt/CM Related	CE27-82 APPROVED TO VALUE	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	ARCADIS US, INC. (Capital)	PO28105	z-Planning and Design Related	ARC28-21 Clarifier No 2 and No 4 for Improvements/Design Services	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	URS CORPORATION (capital)	PO20289	z-Planning and Design Related	URS27-18 TO VALUE PM SERVICES	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	ARCADIS US, INC (Capital)	PO20513	z-Planning and Design Related	ARC28-10 AWARDED TO VALUE	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	ARCADIS US, INC. (Capital)	PO27508	z-Planning and Design Related	ARC28-17 DESIGN SRVCS AWARDED TO VALUE	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	ARCADIS US, INC. (Capital)	PO28784	z-Planning and Design Related	ARC28-18 DESGN SRVCS & CARBON SYSTEM IMPROVEMENTS	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	MOTT MACDONALD (Capital)	PO24138	Other Services	MM23-114 PM SPPT AWARDED TO VALUE	Approved
Aspinwall Treatment Plant Pretreatment Chemical System and Clarification Improvements	2017-322-101-0	Capital	ARCADIS US, INC (Capital)	PO19879	z-Planning and Design Related	ARC28-09 APPROVED TO VALUE	Approved
Aspinwall Water Treatment Plant Electrical and Backup Power Improvements	2017-322-100-0	Capital	MOTT MACDONALD (Capital)	PO24347	z-Program Mgt/CM Related	MM23-116 PM SRVCS AWARDED TO VALUE	Approved
Aspinwall Water Treatment Plant Electrical and Backup Power Improvements	2017-322-100-0	Capital	WOOD ENVIRONMENTAL & INFRASTRUCTURE, INC (Capital)	PO20012	z-Planning and Design Related	AMEC28-14 APPROVED TO VALUE	Approved
Aspinwall WTP Raw Water Intakes	2018-322-100-0	Capital	MOTT MACDONALD (Capital)	PO28218	z-Program Mgt/CM Related	MM23-138 PM SERVICES	Approved
Aspinwall WTP Raw Water Intakes	2018-322-100-0	Capital	ARCADIS US, INC (Capital)	PO27515	z-Planning and Design Related	ARC28-19 DESIGN SRVCS AWARDED TO VALUE	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Bates Street Relay Project	2019-325-111-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO32030	CM-CI	CE27-196 Constructability Review	Approved
Bauman & Bernd Green Infrastructure	2018-GI-101-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO29846	Other Services	Bauman and Bernd green infrastructure project	Approved
Bruecken PS Valve Vault Upgrade - Electrical	2013-323-175-2	Capital	LANCO ELECTRIC, INC.	PO00831	General Contractor	Bruecken PS Valve Vault Upgrade - Electrical	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	COMMONWEALTH OF PENNSYLVANIA C/O DEP (DEPT.ENVIRONMENTAL PROTEC.	PO26717	Other Services	PERMIT APP FEE/DEP	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	KTA-TATOR, INC	PO04067	z-Planning and Design Related	Designer	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO27428	z-Planning and Design Related	CE27-163 DSDC AWARDED TO VALUE	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	URS CORPORATION (capital)	PO31122	z-Program Mgt/CM Related	URS27-56 - Administrative Order Improvements - CM/CI Services	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO21446	Other Services	CE27-102 PM SUPPORT (GRAHAM) APPROVED TO VALUE	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	URS CORPORATION (capital)	PO22093	z-Program Mgt/CM Related	URS27-25 CM SRVCS AWARDED TO VALUE	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26559	Other Services	CE27-150 PM SERVICES AWARDED TO VALUE 2/1/18-3/8/19	Approved
Bruecken Pump Station Upgrade - Consultant	2013-323-175-0	Capital	CDM SMITH, INC.	PO25104	z-Planning and Design Related	CDM00-02 DESIGN AWARDED TO VALUE	Approved
Centre and Herron	2016-GI-104-0	Capital	MOTT MACDONALD (Capital)	PO16125	Other Services	HMM23-56 flow monitoring at various locations to obtain field data and understanding of pre-GI construction conditions	Approved
Centre and Herron	2016-GI-104-0	Capital	WOOD ENVIRONMENTAL & INFRASTRUCTURE, INC. (Capital)	PO24276	z-Planning and Design Related	AMEC26-20 DESIGN BUDGET INCREASE	Approved
Centre and Herron	2016-GI-104-0	Capital	WOOD ENVIRONMENTAL & INFRASTRUCTURE, INC. (Capital)	PO22630	z-Planning and Design Related	AMEC26-18 DESIGN AWARDED TO VALUE	Approved
Centre and Herron	2016-GI-104-0	Capital	MOTT MACDONALD (Capital)	PO20459	Other Services	MM23-63 PM SUPPORT TO VALUE	Approved
Cleanwell Emergency Response Project	2017-323-100-0	Capital	ARCADIS US, INC. (Capital)	PO25363	Other Services	ARC26-14 MODELING AWARDED TO VALUE	Approved
Cleanwell Emergency Response Project	2017-323-100-0	Capital	GAI CONSULTANTS INC. (Capital)	PO19675	z-Planning and Design Related	GAI26-05 TO APPROVED VALUE	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	COMMONWEALTH OF PENNSYLVANIA C/O DEP (DEPT.ENVIRONMENTAL PROTEC.	PO26947	Other Services	Permit fee for DEP	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	Hach Company (Capital)	PO26912	Other Services	Purchase of rr 2100Q Portable Turbidimeter	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	CDW GOVERNMENT	PO25596	Other Services	WIRELESS AIRLINK AND VPN ROUTER	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	Hach Company (Capital)	PO26022	Other Services	USB + POWER MODULE & CALIBRATION KIT	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	Primary Flow Signal, Inc. (Capital)	PO25417	Other Services	VENTURI FLOW METERS INSPECTIONS	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	EPlus Technology, Inc (Capital)	PO29183	General Contractor	TECHNOLOGY SERVICES AS NEEDED	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	Surveillance Group Inc (Capital)	PO29683	Other Services	Surveillance installation	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26493	z-Program Mgt/CM Related	CE27-151 PM SRVCS AWARDED TO VALUE	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO27644	z-Program Mgt/CM Related	CE27-165 CM/CI AWARDED TO VALUE	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	TOTAL EQUIPMENT (Capital)	PO25881	General Contractor	ORTHO PHOSPHATE LONG LEAD ITEMS	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	MOTT MACDONALD (Capital)	PO25340	z-Planning and Design Related	MM23-120 ENG SRVCS AWARDED TO VALUE	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	MOTT MACDONALD (Capital)	PO26498	z-Program Mgt/CM Related	MM23-121 TREAT-ABILITY STUDIES AWARDED TO VALUE	Approved
Corrosion Control Chemical Storage & Feed Systems	2017-322-107-0	Capital	TOTAL EQUIPMENT (Capital)	PO28207	General Contractor	ORTHO PHOSPHATE CONSTRUCTION CONTRACT	Approved
District Water and Pressure Meters - A. Folino	2017-325-114-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO31611	z-Program Mgt/CM Related	CE27-193 - Pressure Monitor Line Installation	Approved
District Water and Pressure Meters - A. Folino	2017-325-114-0	Capital	FlowNetwork, Inc. DBA 540 Technologies (Capital)	PO31990	Other Services	37 Pressure Monitors with Installation	Approved
District Water and Pressure Meters - A. Folino	2017-325-114-0	Capital	A. FOLINO CONSTRUCTION, INC. (Capital)	PO31185	General Contractor	Awarded Contract for Pressure Monitor Line Installation	Approved
e-Builder Implementation Management	2013-930-222-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO04671	z-Program Mgt/CM Related	CIP Management e-Builder	Approved
e-Builder Implementation Management	2013-930-222-0	Capital	E-BUILDER, INC.	PO02108	Other Services	eB additional license	Approved
e-Builder Implementation Management	2013-930-222-0	Capital	E-BUILDER, INC.	PO03873	Other Services	EB Implementation	Approved
Emergency Clarifier Repairs - Clarifiers No. 1, 2 & 4	2017-322-101-6	Capital	AECOM TECHNICAL SERVICES, INC.	PO29488	z-Program Mgt/CM Related	CM/CI Services for Emergency Clarifier Repair	Approved
Emergency Clarifier Repairs - Clarifiers No. 1, 2 & 4	2017-322-101-6	Capital	WAYNE CROUSE	PO29311	General Contractor	Material and Equipment	Approved
EPA 308 PWSA/City of Pittsburgh Source Reduction Response	2017-424-106-0	Capital	MOTT MACDONALD (Capital)	PO21115	z-Program Mgt/CM Related	MM23-97 EPA 308 RESPONSE TO VALUE	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	MOTT MACDONALD (Capital)	PO27751	Other Services	MM23-131 VIBRATION EVALUATION AWARDED TO VALUE	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	KTA-TATOR, INC	PO10183	z-Planning and Design Related	Filter Rehab Project-Design Paint	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	MOTT MACDONALD (Capital)	PO22086	z-Planning and Design Related	MM23-99 AWARDED TO VALUE	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO22936	z-Program Mgt/CM Related	CE27-127 PM SUPPORT AWARDED TO VALUE	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO14744	Other Services	CE27-58 Embedded Staff Project Manager	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	URS CORPORATION (capital)	PO21584	z-Program Mgt/CM Related	URS27-23 CM AWARDED TO VALUE	Approved
Filter Rehabilitation Project - Consultant	2013-322-176-0	Capital	CDM (Capital)	PO09609	z-Planning and Design Related	Filter Rehab Project-CDM	Approved
Filter Rehabilitation Project - Electrical	2013-322-176-2	Capital	BRONDER TECHNICAL SERVICES (Capital)	PO00882	General Contractor	Filter Rehabilitation Project - Electrical	Approved
Filter Rehabilitation Project - HVAC	2013-322-176-3	Capital	WAYNE CROUSE	PO00855	General Contractor	Filter Rehabilitation Project-HVAC	Approved
Forbes Avenue (SR 2108/2308) Betterment Project	2018-WS-100-0	Capital	Johnson, Mirmwan, Thompson, Inc (Capital)	PO26648	z-Program Mgt/CM Related	JMT00-08 CM/CI/GPS AWARDED TO VALUE	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	Alphagraphics (Capital)	PO27304	Other Services	POST CARDS FOR COMMUNITY MEETING ON 11/4	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	PITTSBURGH PARKS CONSERVANCY (Capital)	PO29851	z-Planning and Design Related	IMPLEMENT STORMWATER MGMT COMPONENTS	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	MICHAEL BAKER, INC. (Capital)	PO30818	Other Services	MBI00-09 - Value Engineering Services	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	MOTT MACDONALD (Capital)	PO30278	z-Program Mgt/CM Related	MM23-150 - Four Mile Run Green Stormwater Infrastructure - Project Management Support	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	MICHAEL BAKER, INC. (Capital)	PO27508	z-Planning and Design Related	MB100-05 3RD PTY RVW AWARDED TO VALUE	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	ALEM Consulting	PO29478	Other Services	Alem Consulting contract to engage a professional project manager for engineering projects	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	G. Stephans, Inc. (Capital)	PO27219	Other Services	GS100-09 PM SUPPORT AWARDED TO VALUE	Approved
Four Mile Run Green Stormwater Infrastructure	2018-GI-102-0	Capital	Civil & Environmental Consultants, Inc. (Capital)	PO24953	z-Planning and Design Related	DESIGN AWARDED CONTRACT VALUE PH. 1	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO25900	z-Planning and Design Related	JMT00-05 CONSTRUCT REVIEW AWARDED TO VALUE	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	GAI CONSULTANTS INC. (Capital)	PO31537	z-Program Mgt/CM Related	GAI26-15 - Construction Design Services	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	MOTT MACDONALD (Capital)	PO24970	z-Program Mgt/CM Related	MM23-119 PM SRVCS CONT. - BOLENBAUGH	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	GAI CONSULTANTS INC. (Capital)	PO19876	z-Planning and Design Related	GAI26-08 TO AWARDED VALUE	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	GAI CONSULTANTS INC. (Capital)	PO25263	z-Planning and Design Related	GAI26-09 FINAL DESIGN AWARDED TO VALUE	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO30281	z-Program Mgt/CM Related	JMT00-22 - Construction Management and Construction Inspection Services	Approved
Ft. Duquesne Bridge Water Air Release Valve Repair	2017-325-100-0	Capital	ADVANTAGE STEEL & CONSTRUCTION LLC	PO30380	General Contractor	AWARDED CONTRACT	Approved
Herron Hill Reservoir Improvements	2019-323-100-0	Capital	AECOM TECHNICAL SERVICES, INC.	PO31608	z-Program Mgt/CM Related	URS27-61 - Liner and Cover Replacement	Approved
Herron Hill Reservoir Improvements	2019-323-100-0	Capital	CDM (Capital)	PO30133	z-Planning and Design Related	CDM00-05 - Engineering Services for Herron Hill Reservoir Improvements	Approved
Highland Park Membrane Filtration Module Replacement Program	2017-322-105-0	Capital	PALL CORPORATION	PO31227	Other Services	Rack D Module Replacement	Approved
Highland Park Membrane Filtration Module Replacement Program	2017-322-105-0	Capital	PALL CORPORATION	PO20632	General Contractor	MEMBRANE MODULES	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	KROHNE (Capital)	PO24188	Other Services	Krohne Converter and Flowtube	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	Burns Industrial Equipment, Inc.	PO28537	Other Services	Purchase of Hyster W45ZHD lift truck	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	Vepe Metering, LLC. (Capital)	PO24887	Other Services	PRESSURE SENSORS	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	Air Technologies (Capital)	PO25192	Other Services	AIR COMPRESSOR/MOTOR REBUILD AND INSTALL	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO28289	Other Services	FIELD SERVICES	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO30977	General Contractor	MFP Reporting Updates	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO30826	General Contractor	EQUIPMENT-MFP, Electric-Pneumatic Valve Positioners	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO20627	General Contractor	MFP EQUIPMENT AND PARTS	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	F.N. Cuthbert, Inc. (Capital)	PO24415	Other Services	TANK HEATER	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO20629	General Contractor	MFP STARTUP TRAINING	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	Keystone Engineering Group, Inc	PO30880	Other Services	Raw Water Flow Meters	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO20630	General Contractor	MFP STARTUP SERVICES	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	DAMAN-SUPERIOR, LLC	PO20944	Other Services	PROMINENT METERING PUMPS	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	LB WATER SERVICE, INC.	PO24888/PO26318	Other Services	WATER METER CROCK	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	LANCO ELECTRIC, INC	PO30583	Other Services	MFP Raw Water Pump VFD	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO21310	Other Services	CE27-103 On-Site Facility Improvements - Support	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO30930	Other Services	MFP, Butterfly Valves for Membrane Filtration Racks	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	FlowNetwork, Inc DBA 540 Technologies (Capital)	PO24844	Other Services	PRESSURE LOGGERS	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO31777	Other Services	Programming Support	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO20466	z-Program Mgt/CM Related	CE27-90 CM/CI TO VALUE	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	CED/Mosbach Electric (Capital)	PO25206	Other Services	ROCKWELL SCADA SYSTEMS	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	Yates Electric, LLC (CAP)	PO30743	Other Services	MFP Troubleshooting Assistance	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO21071	z-Planning and Design Related	CE27-99 MFP DESIGN AWARDED TO VALUE	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	LANCO ELECTRIC, INC	PO31779	Other Services	MFP Instrumentation and Control System Engineering Services	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	PALL CORPORATION	PO21186	General Contractor	Membrane Rack Strainers	Approved
Highland Park Membrane Filtration Plant Assessment and Critical Process Improvements	2017-322-104-0	Capital	XYLEM DEWATERING SOLUTIONS, INC.	PO25386	Other Services	PUMPS PURCHASE AND ACCESSORIES	Approved
Highland Park Membrane Filtration Plant Transformer Repair and UPS Replacement	2017-322-103-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO20611	z-Planning and Design Related	CE27-91 ENGINEERING SUPPORT AWARDED TO VALUE	Approved
Highland Park Membrane Filtration Plant Transformer Repair and UPS Replacement	2017-322-103-0	Capital	FRANKL ELECTRIC, INC (Capital)	PO21139	General Contractor	Awarded Contract Value-Frankl Electric	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	CED/Mosbach Electric (Capital)	PO31098	Other Services	MFP Alarm Comms to Main Treatment Plant	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	CED/Mosbach Electric (Capital)	PO30880	Other Services	Lincoln PS Flow Monitoring	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	Caigon Carbon UV Technologies, Inc (Capital)	PO31735	Other Services	Caigon Training	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	Caigon Carbon UV Technologies, Inc (Capital)	PO31778	Other Services	Additional Software Hours	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	PALL CORPORATION	PO30978	General Contractor	Pall Program Changes for UV Integration	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	EJM Automation (Capital)	PO31800	Other Services	EJM Automation MFP UV Support	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	McCrometer, Inc (CAP)	PO30738	Other Services	Insertion Flow Meters for CT Monitoring	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	CED/Mosbach Electric (Capital)	PO31400	Other Services	Histonan License Upgrades	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	LANCO ELECTRIC, INC.	PO30723	Other Services	CT and Log Reduction MFP Auto Shutdown	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26495	Other Services	CE27-152 PM SRVCS AWARDED TO VALUE	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	Surveillance Group inc (Capital)	PO28923	Other Services	Installation of Video software	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26391	z-Program Mgt/CM Related	CE27-149 CM/CI AWARDED TO VALUE	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	ARCADIS US, INC. (Capital)	PO26914	z-Planning and Design Related	ARC26-16 DESIGN AWARDED TO VALUE	Approved
Highland Park Membrane Filtration Plant UV System	2017-322-106-0	Capital	WAYNE CROUSE	PO25641	General Contractor	CONTRACT AWARD	Approved
Highland Reservoir #1 Parapet Wall Repairs	2017-322-106-1	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO30220	z-Program Mgt/CM Related	CE27-182 - Highland 1 Parapet Wall CM/CI Services	Approved
Highland Reservoir #1 Parapet Wall Repairs	2017-322-106-1	Capital	ARCH MASONRY, INC. (Capital)	PO30236	General Contractor	AWARDED CONTRACT	Approved
Highland Reservoir Pump Station and Rising Main	2017-323-101-0	Capital	CDM (Capital)	PO27510	z-Planning and Design Related	CDM00-03 PRELIM DESIGN AWARDED TO VALUE	Approved
Highland Reservoir Pump Station and Rising Main	2017-323-101-0	Capital	MOTT MACDONALD (Capital)	PO26030	z-Planning and Design Related	MM23-129 DESIGN SERVICES	Approved
Hillcrest	2016-GI-103-0	Capital	Atlantic Construction Fabrics, Inc. (Capital)	PO27562	Other Services	BEEHIVE OVERFLOW FILTERS AND BAGS	Approved
Hillcrest	2016-GI-103-0	Capital	Vigliotti Landscape & Construction, Inc.	PO27314	Other Services	CONCRETE REPAIRS	Approved
Hillcrest	2016-GI-103-0	Capital	MOTT MACDONALD (Capital)	PO16211	Other Services	HMM23-56 GI Flow Monitoring	Approved
Hillcrest	2016-GI-103-0	Capital	MOTT MACDONALD (Capital)	PO20458	Other Services	MM23-82 PM SUPPORT TO VALUE	Approved
Hillcrest	2016-GI-103-0	Capital	URS CORPORATION (capital)	PO19975	z-Program Mgt/CM Related	URS27-21/27-13 APPROVED TO VALUE	Approved
HMM 23-06 Maryland Street Flooding investigation	2013-930-223-6	Capital	MOTT MACDONALD (Capital)	23-06	Other Services	Maryland Street Flooding Investigation	Approved
HMM 23-08 Forbes Avenue Sewer Extension Feasibility Study	2013-930-223-8	Capital	MOTT MACDONALD (Capital)	23-08	z-Planning and Design Related	Forbes Avenue Sewer Extension Feasibility Study	Approved
Ivyglen and Odette Sewer Reconstruction and Separation Project	2018-424-102-0	Capital	MOTT MACDONALD (Capital)	PO27641	Other Services	MM23-126 PM SRVCS AWARDED TO VALUE	Approved
Ivyglen and Odette Sewer Reconstruction and Separation Project	2018-424-102-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26764	z-Program Mgt/CM Related	CE27-167 CM/CI/GPS SERVICES	Approved
Ivyglen and Odette Sewer Reconstruction and Separation Project	2018-424-102-0	Capital	A MERANTE CONTRACTING, INC. (Capital)	PO26073	General Contractor	Contract Award	Approved
Lanpher Reservoir Improvements	2017-323-105-0	Capital	Univar USA, Inc. (Capital)	PO26485	Other Services	SODIUM BISULFITE	Approved
Lanpher Reservoir Improvements	2017-323-105-0	Capital	MARION HILL ASSOCIATES, INC.	PO27344	Other Services	CONCRETE PATCHING	Approved
Lanpher Reservoir Improvements	2017-323-105-0	Capital	MOTT MACDONALD (Capital)	PO23497	z-Program Mgt/CM Related	MM23-105 PM SUPPORT AWARDED TO VALUE	Approved
Lanpher Reservoir Improvements	2017-323-105-0	Capital	MOTT MACDONALD (Capital)	PO24021	z-Planning and Design Related	MM23-113 PM SPPT- G. HORN AWARDED TO VALUE	Approved
Lanpher Reservoir Improvements	2017-323-105-0	Capital	United Rentals (Capital)	PO25725	Other Services	STANDBY GENERATOR AT ASPINWALL P8	Approved
Lanpher Reservoir improvements	2017-323-105-0	Capital	ARCADIS US, INC. (Capital)	PO22606	z-Planning and Design Related	ARC26-13 DESIGN AWARDED TO VALUE	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Lanpher Reservoir Improvements - Electrical for Rainwater Removal Pumps	2017-323-105-3	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO27185	z-Program Mgt/CM Related	CE27-162 CM/CI AWARDED TO VALUE	Approved
Lanpher Reservoir Improvements - Electrical for Rainwater Removal Pumps	2017-323-105-3	Capital	FRANKL ELECTRIC, INC. (Capital)	PO26850	General Contractor	CONTRACT AWARD	Approved
Lanpher Reservoir Improvements - Retaining Wall and Parapet Wall Improvements	2017-323-105-1	Capital	FRANK J ZOTTOLA CONSTRUCTION, INC (Capital)	PO24028	General Contractor	AWARDED CONTRACT VALUE	Approved
Lanpher Reservoir Improvements - West and East Cell Cover and Liner Replacement	2017-323-105-2	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO24409	z-Program Mgt/CM Related	CE27-140 CM/CI AWARDED TO VALUE	Approved
Lanpher Reservoir Improvements - West and East Cell Cover and Liner Replacement	2017-323-105-2	Capital	Layfield USA Corp (Capital)	PO24171	General Contractor	AWARDED CONTRACT VALUE	Approved
Lanmer Avenue Sewer and 28th Street Slope Stabilization	2016-424-102-0	Capital	WOOD ENVIRONMENTAL & INFRASTRUCTURE, INC. (Capital)	PO23172	z-Planning and Design Related	AMEC28-18 AWARDED TO VALUE (DESIGN)	Approved
Lawn and Ophelia Green Infrastructure Project	2017-424-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO26581	z-Program Mgt/CM Related	Constructability Review- Hatch	Approved
Lawn and Ophelia Green Infrastructure Project	2017-424-104-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO29180	Other Services	JMT00-18 Constructability Review	Approved
Lawn and Ophelia Green Infrastructure Project	2017-424-104-0	Capital	Sci-Tek Consultants, Inc	PO20875	z-Planning and Design Related	Topographic and Utility Survey	Approved
Lawn and Ophelia Green Infrastructure Project	2017-424-104-0	Capital	ethos collaborative (capital)	PO25901	z-Planning and Design Related	EC00-02 DESIGN AWARDED TO VALUE	Approved
M-29 Outfall Improvements	2018-424-103-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO27457	z-Planning and Design Related	JMT00-13 DESIGN SRVCS AWARDED TO VALUE	Approved
M-29 Outfall Improvements	2018-424-103-0	Capital	MOTT MACDONALD (Capital)	PO29410	z-Program Mgt/CM Related	MM23-145 Project Management and Support Services	Approved
M-29 Outfall Improvements	2018-424-103-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO27854	z-Planning and Design Related	JMT00-14 FINAL DESIGN AWARDED TO VALUE	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	Alphagraphics (Capital)	PO27820	Other Services	Print and Mailing supplies for updated project	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	G Stephens, Inc. (Capital)	PO23454	z-Program Mgt/CM Related	GS100-06 CONST REVIEW AWARDED TO VALUE	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	MICHAEL BAKER, INC (Capital)	PO27888	z-Planning and Design Related	MB100-06 3RD PTY REVIEW AWARDED TO VALUE	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	MOTT MACDONALD (Capital)	PO30260	z-Program Mgt/CM Related	MM23-153 - Technical Review for 60/90 Design	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	JA Cost Engineers and Advisors, Inc (Capital)	PO31281	Other Services	3rd Party Cost Estimate	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO29467	z-Program Mgt/CM Related	Constructability Review for Maryland Avenue Green Infrastructure	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	MS Consultants, Inc (Capital)	PO27670	z-Planning and Design Related	THIRD PARTY REVIEW	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	eDesign Dynamics, LLC (Capital)	PO27680	z-Planning and Design Related	THIRD PARTY REVIEW	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	Wade Trim, Inc (Capital)	PO29472	z-Planning and Design Related	Third Party Technical Review for Maryland Avenue GI Project	Approved
Maryland Avenue Green Infrastructure Project	2017-424-101-0	Capital	BUCHART HORN, INC. (Capital)	PO25508	z-Planning and Design Related	BH28-08 FINAL DESIGN SRVCS TO VALUE	Approved
Maylde Storm and Sanitary Sewer Improvements	2017-424-109-0	Capital	MOTT MACDONALD (Capital)	PO29729	z-Planning and Design Related	MM23-147 - Third Party Technical Review	Approved
Maylde Storm and Sanitary Sewer Improvements	2017-424-109-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO29483	z-Program Mgt/CM Related	Constructability Review for Maylde Storm and Sanitary Sewer Improvements	Approved
Maylde Storm and Sanitary Sewer Improvements	2017-424-109-0	Capital	Wade Trim, Inc (Capital)	PO27947	z-Planning and Design Related	WT00-03 FINAL DESIGN AWARDED TO VALUE	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
McKinley Park - Chicken Hill	2017-424-112-0	Capital	PITTSBURGH PARKS CONSERVANCY (Capital)	PO22807	z-Planning and Design Related	IMPLEMENT STORMWATER MGMT COMPONENTS	Approved
Melwood and Finland GI Design and Construction	2016-GI-105-1	Capital	MOTT MACDONALD (Capital)	PO16124	Other Services	HMM23-58 flow monitoring at various locations to obtain field data and understanding of pre-GI construction conditions	Approved
Melwood and Finland GI Design and Construction	2016-GI-105-1	Capital	URS CORPORATION (capital)	PO31647	z-Program Mgt/CM Related	URS27-62 - CM/CI/GPS/AS-Built Services	Approved
Melwood and Finland GI Design and Construction	2016-GI-105-1	Capital	ARCADIS US, INC. (Capital)	PO22631	z-Planning and Design Related	ARC26-11 DESIGN AWARDED TO VALUE	Approved
Melwood and Finland GI Design and Construction	2016-GI-105-1	Capital	URS CORPORATION (capital)	PO22166	z-Program Mgt/CM Related	URS27-26 CM/CI AWARDED TO VALUE	Approved
MLK Field Green / Stormwater Infrastructure Project	2019-GI-104-0	Capital	MOTT MACDONALD (Capital)	PO31547	z-Program Mgt/CM Related	MM23-158 - Data QA/QC	Approved
MLK Field Green / Stormwater Infrastructure Project	2019-GI-104-0	Capital	AMG Environmental LTD (Capital)	PO29148/29148	Other Services	FLOW MONITORING EQUIPMENT	Approved
MLK Field Green / Stormwater Infrastructure Project	2019-GI-104-0	Capital	MICHAEL BAKER, INC. (Capital)	PO30086	z-Planning and Design Related	MB100-08 - Design Services	Approved
Modifications to the Filter Backwash Recycle System at WTP	2013-322-196-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO09429	z-Program Mgt/CM Related	CDM Modification Project	Approved
Motor and Pump Service Contract	2008-323-42-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO11630	z-Program Mgt/CM Related	Motor & Pump Service-CM	Approved
Motor and Pump Service Contract	2008-323-42-0	Capital	TOTAL EQUIPMENT (Capital)	PO05164	General Contractor	Motor & Pump Services	Approved
PennDOT SR0637-A42 E Carson St	2018-W8-103-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO27300	z-Program Mgt/CM Related	JMT00-10 CM/CI/GPS AWARDED TO VALUE	Approved
PennDOT SR19 A63	2018-W8-102-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO26771	z-Program Mgt/CM Related	JMT00-15 CM/CI/GPS SERVICES	Approved
Powdered Activated Carbon System Improvements - Electrical	2017-322-101-3	Capital	FRANKL ELECTRIC, INC. (Capital)	PO29871	General Contractor	AWARDED CONTRACT	Approved
Private Lead Line Reimbursement	2019-325-110-0	Capital	12345	PO12345	Other Services	Private Lead Line Reimbursement	Approved
PWSA Development of the PUC-Required Long-Term Infrastructure Improvement Plan (LTIIP)	2018-325-102-0	Capital	MOTT MACDONALD (Capital)	PO26343	z-Program Mgt/CM Related	MM23-127 PRG MGMT SRVCS AWARDED TO VALUE	Approved
PWSA Program Management Service	2018-325-103-0	Capital	MOTT MACDONALD (Capital)	PO26595	z-Program Mgt/CM Related	MM23-126 PWSA PROGRAM MGMT SERVICES	Approved
Queenston Sewer Improvements	2019-424-103-2	Capital	Alphagraphics (Capital)	PO31311	Other Services	Phillips Park signage to inform visitors	Approved
Queenston Sewer Improvements	2019-424-103-2	Capital	AMG Environmental LTD (Capital)	PO31269	Other Services	AMG Environmental	Approved
Queenston Sewer Improvements	2019-424-103-2	Capital	Wade Trim, Inc. (Capital)	PO30620	z-Planning and Design Related	WT00-09	Approved
Red Oak/Hayson GI Demonstration Project	2016-GI-101-0	Capital	MOTT MACDONALD (Capital)	PO16123	Other Services	HMM23-56 GI Flow Monitoring	Approved
Ross Pump Station	2018-323-101-0	Capital	Wachs Water Services (Capital)	PO31429	Other Services	Raw Water Pump #4 Inspection	Approved
Ross Pump Station	2018-323-101-0	Capital	MOTT MACDONALD (Capital)	PO26235	z-Program Mgt/CM Related	MM23-135 PM SERVICES FOR ROSS PUMP STATION	Approved
Ross Pump Station	2018-323-101-0	Capital	ARCADIS US, INC. (Capital)	PO26975	z-Planning and Design Related	ARC26-20 CONDITION ASSESSMENT AWARDED TO VALUE	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	COMMONWEALTH OF PENNSYLVANIA C/O DEP (DEPT.ENVIRONMENTAL PROTEC.	PO27961	Other Services	WQM Permit- Sewage (DEP)	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	COMMONWEALTH OF PENNSYLVANIA C/O DEP (DEPT.ENVIRONMENTAL PROTEC.	PO26441	Other Services	WQM PERMIT-SEWAGE (DEP)	Approved

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Smallman Street Reconstruction	2017-424-113-0	Capital	PRINTSCAPE IMAGING & GRAPHICS	PO25553	Other Services	SHUTTLE SIGN INSERTS	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	PRINTSCAPE IMAGING & GRAPHICS	PO25173	Other Services	SIGNAGE	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	ABC Transit Inc. (Capital)	PO25473	Other Services	SHUTTLE SERVICE TO/FROM PRKING LOT	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	THE BUNCHER COMPANY	PO26415	Other Services	REMOVAL OF OUTDOOR ADVERTISEMENT	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC (Capital)	PO23096	z-Program MgUCM Related	CE27-126 AWARDED TO VALUE	Approved
Smallman Street Reconstruction	2017-424-113-0	Capital	Independence Excavating, Inc (Capital)	PO24708	General Contractor	AWARDED CONTRACT VALUE	Approved
SMR Streambank Stabilization Project	2018-GI-107-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO29281	z-Planning and Design Related	CE27-172 3rd Party Constructability Review	Approved
SMR Streambank Stabilization Project	2018-GI-107-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO31008	z-Program Mgt/UCM Related	CE27-191 - CM/CI Services for SMR Streambank Stabilization Project	Approved
SMR Streambank Stabilization Project	2018-GI-107-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO27225	z-Planning and Design Related	JMT00-11 DESIGN AWARDED TO VALUE	Approved
SMR Streambank Stabilization Project	2018-GI-107-0	Capital	Allison Park Contractors, Inc (Cap)	PO31213	General Contractor	Awarded Contract for SMR Streambank Restoration	Approved
Southside Green / Stormwater	2019-GI-100-0	Capital	MOTT MACDONALD (Capital)	PO31309	Other Services	MM23-157 - Data QA/QC TO	Approved
Southside Green / Stormwater	2019-GI-100-0	Capital	AMG Environmental LTD (Capital)	PO29148/29148	Other Services	FLOW MONITORING EQUIPMENT	Approved
Southside Green / Stormwater	2019-GI-100-0	Capital	ethos collaborative (capital)	PO29033	z-Planning and Design Related	EC00-04 Southside Green / Stormwater Preliminary Design	Approved
Spring Garden Stream Removal	2019-GI-101-0	Capital	MOTT MACDONALD (Capital)	PO31568	z-Program Mgt/UCM Related	MM23-160 - Data QA/QC	Approved
Spring Garden Stream Removal	2019-GI-101-0	Capital	AMG Environmental LTD (Capital)	PO29148/29148	Other Services	FLOW MONITORING EQUIPMENT	Approved
Spring Garden Stream Removal	2019-GI-101-0	Capital	Wade Trim, Inc (Capital)	PO29124	z-Planning and Design Related	WT00-06 Preliminary design	Approved
St. Johns Stormwater Management Project	2019-424-101-0	Capital	ethos collaborative (capital)	PO28469	z-Planning and Design Related	EC00-05 Preliminary Design for St. John's Project	Approved
Stewart Avenue Stormwater Infrastructure	2019-424-103-1	Capital	GHD Inc (Capital)	PO30464	Other Services	Professional Engineering Services	Approved
Thomas and McPherson Green Infrastructure	2018-GI-106-0	Capital	MOTT MACDONALD (Capital)	PO31565	z-Program Mgt/UCM Related	MM23-159 - Data QA/QC	Approved
Thomas and McPherson Green Infrastructure	2018-GI-106-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO31615	z-Planning and Design Related	JMT00-31 - Design Services	Approved
Thomas and McPherson Green Infrastructure	2018-GI-106-0	Capital	AMG Environmental LTD (Capital)	PO29148/29148	Other Services	FLOW MONITORING EQUIPMENT	Approved
Thomas and McPherson Green Infrastructure	2018-GI-106-0	Capital	Wade Trim, Inc (Capital)	PO28989	z-Planning and Design Related	WT00-02 DESIGN AWARDED TO VALUE	Approved
Volunteer's Field Green Infrastructure	2018-GI-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO29288	z-Planning and Design Related	CE27-173 3rd Party Constructability Review	Approved
Volunteer's Field Green Infrastructure	2018-GI-104-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO30376	z-Program Mgt/UCM Related	CE27-187 - CM/CI	Approved
Volunteer's Field Green Infrastructure	2018-GI-104-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO30273	z-Planning and Design Related	JMT00-23	Approved
Volunteer's Field Green Infrastructure	2018-GI-104-0	Capital	A. FOLINO CONSTRUCTION, INC. (Capital)	PO31004	General Contractor	AWARDED CONTRACT	Approved

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Project Name	Project Number	Funding Source	Company Name	Commitment Number	Commitment Type	Commitment Description	Commitment Status
Volunteer's Field Green Infrastructure	2018-GI-104-0	Capital	Johnson, Mirmiran, Thompson, Inc (Capital)	PO27223	z-Planning and Design Related	JMT00-12 DESIGN AWARDED TO VALUE	Approved
Water Treatment Plant Roof Replacement	2018-322-101-0	Capital	URS CORPORATION (capital)	PO26926	z-Program Mgt/CM Related	URS27-44 CM/CI AWARDED TO VALUE	Approved
Wightman Park GI Project	2017-424-105-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO30085	z-Program Mgt/CM Related	CE27-168 - Constructability Review	Approved
Wightman Park GI Project	2017-424-105-0	Capital	HATCH ASSOCIATES CONSULTANTS, INC. (Capital)	PO31006	z-Program Mgt/CM Related	CE27-190 - CM / CI Services for Wightman Park GI Project, Phase I	Approved
Wightman Park GI Project	2017-424-105-0	Capital	ethos collaborative (capital)	PO24416	z-Planning and Design Related	EC00-01 DSGN SRVCS AWARDED TO VALUE	Approved
Wightman Park GI Project	2017-424-105-0	Capital	ethos collaborative (capital)	PO25794	z-Planning and Design Related	EC00-03 FINAL DESIGN AWARDED TO VALUE	Approved
Wightman Park GI Project	2017-424-105-0	Capital	Eisler Landscaps, Inc (Capital)	PO30555	General Contractor	Renovation / Construction work	Approved
Woodland Drive Green Infrastructure	2018-GI-108-0	Capital	Civil & Environmental Consultants, Inc (Capital)	PO27848	z-Planning and Design Related	CEC00-02 DESIGN SRVCS AWARDED TO VALUE	Approved
Woods Run Stream Inflow - Mairdale Avenue	2017-424-108-0	Capital	Johnson, Mirmiran, Thompson, Inc. (Capital)	PO31304	z-Program Mgt/CM Related	M/CI Services for Woods Run - Riverview Green Infrastructure	Approved
Woods Run Stream Inflow - Mairdale Avenue	2017-424-108-0	Capital	MOTT MACDONALD (Capital)	PO28568/28568	z-Program Mgt/CM Related	MM23-137 PM Services -T. Batroney	Approved
Woods Run Stream Inflow - Mairdale Avenue	2017-424-108-0	Capital	Civil & Environmental Consultants, Inc. (Capital)	PO23405	z-Planning and Design Related	CEC00-01 DESIGN SERVICES AWARDED	Approved
Woods Run Stream Inflow - Mairdale Avenue	2017-424-108-0	Capital	Civil & Environmental Consultants, Inc. (Capital)	PO27494	z-Planning and Design Related	CEC00-03 FINAL DESIGN AWARDED TO VALUE	Approved
Woods Run Stream Inflow - Mairdale Avenue	2017-424-108-0	Capital	Eisler Landscape, Inc. (Capital)	PO31228	Other Services	Installation and Integrated green infrastructure system	Approved

CERTIFICATE OF SERVICE

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

Via First Class Mail and/or Email

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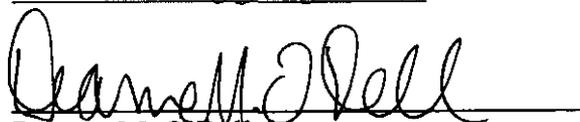
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Dated: October 31, 2019


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RECEIVED

OCT 31 2019

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