

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of)	
Vectren Energy Delivery of Ohio, Inc. d/b/a)	
CenterPoint Energy Ohio for Authority to)	Case No. 21-0491-GA-RDR
Adjust Its Distribution Replacement Rider)	
Charges.)	

APPLICATION

Vectren Energy Delivery of Ohio, Inc. d/b/a CenterPoint Energy Ohio (formerly known as VEDO and hereinafter referred to as CEOH or the Company), respectfully requests that the Commission approve an adjustment to its Distribution Replacement Rider (DRR) charges as described and supported herein. In support of this Application, CEOH states:

1. CEOH is an Ohio corporation engaged in the business of providing natural gas distribution service to approximately 320,000 customers in west central Ohio and, as such, is a “natural gas company” and “public utility” as defined by R.C. 4905.03(E) and 4905.02(A), respectively.

2. On January 7, 2009, in Case No. 07-1080-GA-AIR, the Commission first approved the DRR to recover the costs of the Company’s accelerated bare-steel and cast-iron replacement program (the Replacement Program). The DRR was approved to be in effect for a five-year period ending in February 2014 beginning on the date rates approved in that case were implemented.

3. On August 22, 2013, in Case No. 13-1571-GA-ALT, CEOH filed an application to expand the scope of the Replacement Program and to extend the DRR to recover the associated costs incurred through the end of calendar year 2017. On January 17, 2014, CEOH and the Commission’s Staff entered into a Stipulation and Recommendation (the 13-1571

Stipulation), which the Commission approved in an Opinion and Order dated February 19, 2014 (the 13-1571 Order).

4. On March 30, 2018, CEOH filed an application in Case Nos. 18-0298-GA-AIR and 18-0299-GA-ALT (the 2018 Rate Case Application) requesting, among other things, an increase in base rates and an extension of the Replacement Program and the DRR to cover investment through December 31, 2023. As explained in the 2018 Rate Case Application, CEOH reflected in its proposed rate base all Replacement Program investments through December 31, 2017.

5. On January 4, 2019, CEOH, Commission Staff, and other parties to the 2018 Rate Case entered into a Stipulation and Recommendation (the 2018 Rate Case Stipulation), which the Commission approved pursuant to the August 28, 2019 Opinion and Order in Case Nos. 18-0298-GA-AIR, 18-0299-GA-ALT, and 18-0049-GA-ALT (the 2018 Rate Case Order). The 2018 Rate Case Stipulation stated that the DRR balance as of December 31, 2017 is included in stipulated base rates. The 2018 Rate Case Stipulation also extended the DRR program for six years, for investment from January 1, 2018 through December 31, 2023.

6. On December 18, 2020, in Case No. 20-0101-GA-RDR, the Commission also approved CEOH's application that established the current DRR charges for the DRR investment period ending December 31, 2019. Those charges became effective on December 18, 2020.

7. Consistent with the 13-1571 Stipulation and Order and the 2018 Rate Case Stipulation and Order, CEOH proposes to adjust the current DRR charges to recover the following costs that were incurred in 2020:

- The cost of replacing and retiring bare-steel and cast-iron mains and bare-steel service lines;
- The cost of replacing and retiring field-coated steel pipe that was installed prior to 1955;

- The cost of replacing, retiring, and testing field-coated steel pipe installed beginning in 1955 and prior to 1971 and that failed a cathodic-protection test;
- The cost of replacing and retiring obsolete pipe and appurtenances that were encountered within the context of a main replacement project undertaken as part of the Replacement Program;
- The cost of replacing and retiring vintage plastic pipe that was encountered within the context of a main replacement project undertaken as part of the Replacement Program, to the extent that the total footage of vintage-plastic-pipe replacement did not exceed five percent of total replacement program footage in 2018;
- The cost of replacing and retiring segments of interspersed plastic pipe, under the following conditions:
 - For any individual segment of plastic pipe that meets the length and diameter limitations set forth in ¶ 5 of the 13-1571 Stipulation, such costs shall be included;
 - For segments of interspersed plastic pipe in excess of the limitations set forth in ¶ 5 of the 13-1571 Stipulation, such costs may be included unless it is shown that it was less economical to replace the segment than to tie it into the existing plastic segment;
- The cost of replacing segments of pipe that included target pipe where (a) CEOH's pipe was in a public right-of-way, (b) CEOH was required to relocate its facilities at the request of a governmental entity, and (c) the plastic pipe associated with the relocation was less than or equal to 25 percent of the total footage of that governmental relocation; and
- The incremental costs of assuming ownership and repair of customer service lines.

(13-1571 Stipulation at 2–4.)

8. The 13-1571 Stipulation provided that CEOH would work with Staff to agree on a methodology that accurately identified CEOH's actual incremental service-line costs and investment. (*Id.* at 3–4.) In Case No. 14-813-GA-RDR, following discussions with Staff, CEOH proposed a methodology to accurately identify actual incremental service-line costs and investments. Staff recommended approval of CEOH's 14-813 Application, including the treatment of service lines, without modification (*see* Staff Comments at 4–5), and the Commission approved. *See* 14-813 Opin. & Order at 3–4 (Aug. 27, 2014). As described in the

Direct Testimony of Steven A. Hoover, CEOH's Application in this case uses the same methodology approved in Case No. 14-813-GA-RDR.

9. Costs recoverable in the DRR have been offset by operations and maintenance (O&M) savings, which CEOH has calculated using a credit of \$5,882 per mile of bare-steel and cast-iron main replaced (the O&M Savings Credit). This calculation is consistent with the 2018 Rate Case Stipulation and Order. Given that CEOH replaced a cumulative 162.76 miles of bare-steel and cast-iron main from 2018-2020, the O&M Savings Credit is \$957,354. CEOH also calculated actual O&M savings by comparing 2020 actual O&M costs to the O&M baseline reflected in the 2018 Rate Case Stipulation, but this amount was \$707,461 and thus less than the O&M Savings Credit.

10. CEOH requests that the Commission establish the revised DRR charge to be effective on September 1, 2021, for the subsequent 12-month period and that this application not be considered an application to increase rates and charges.

11. As a part of this Application, CEOH has provided support for the following:
- The return of and on the plant investment, inclusive of capitalized interest or post-in-service carrying costs charges (PISCC) at the rate of 5.07% (effective January 1, 2019) for the accumulated infrastructure investment amounts in the DRR from the date that the applicable assets are placed in service until the effective date of the next subsequent DRR;
 - The incremental costs of assuming ownership and repair of customer service lines;
 - The incremental revenue requirement for the year and for each component of the DRR;
 - A summary of its construction plans for the next year, including expected investment, expected location of the infrastructure replacement work, and the expected miles to be replaced; and
 - The calculation of the O&M Savings Credit and of actual annual savings of O&M expenses compared to the O&M baseline reflected in the 2018 Rate Case Stipulation.

12. In Case Nos. 20-0099-GA-RDR and 20-0101-GA-RDR, the Commission selected Blue Ridge Consulting Services, Inc. (Blue Ridge) for audit services to review the accounting accuracy, prudence, and used and usefulness of CEOH's investments for 2018 and 2019, as well as to review and evaluate CEOH's Capital Expenditure Program (CEP) and DRR investments and program compliance. The Company previously included fifty percent of the 2020 Blue Ridge audit costs in its application for the CEP Rider in Case No. 21-0620-GA-RDR. CEOH includes the balance of the 2020 Blue Ridge audit costs here in its revenue requirement as discussed by CEOH Witness Tieken.

13. To demonstrate the justness and reasonableness of the proposed DRR charges and the underlying revenue requirement, CEOH submits the following exhibits:

- CEOH Exhibit 1.0: Direct Testimony and Exhibits of Steven A. Hoover;
- CEOH Exhibit 2.0: Direct Testimony and Exhibits of Brittany A. Fleig; and
- CEOH Exhibit 3.0: Direct Testimony and Exhibits of Katie J. Tieken.

14. The data and information contained in the Application and supporting testimony support the following revised DRR charges, which include adjustments attributable to the reconciliation of costs recoverable and costs actually recovered during the prior DRR rate effective period:

Rate Schedule	\$ Per Month	\$ Per Billing Ccf
310, 311 and 315	\$7.59	
320, 321 and 325 (Group 1)	\$9.86	
320, 321 and 325 (Group 2 and 3)		\$0.03007
345		\$0.01262
360		\$0.00539

15. The calculation of the proposed DRR charge applicable to residential customers is consistent with the Commission's approval of CEOH's alternative rate plan in the 2018 Rate Case and complies with the residential rate cap per the 2018 Rate Case Stipulation of \$7.50 per

month for the DRR investment period as of December 31, 2020, exclusive of any variances, applicable to those same customers during the period September 1, 2021 through August 31, 2022. The calculation of the proposed DRR charge applicable to small general service (Group 1) customers complies with the provisions of the 2018 Rate Case Stipulation and is consistent with the Commission's approval of CEOH's alternative rate plan in the 2018 Rate Case, requiring the calculation of this charge to be 130% of the residential DRR charge.

16. A redlined and clean revised tariff Sheet No. 45, Second Revised Page 1 of 1, which reflects the revised DRR charges, is included as Exhibit No. KJT-3 to the Direct Testimony of Katie J. Ticken.

WHEREFORE, CEOH respectfully requests that the Commission approve the DRR charges, approve the proposed Sheet No. 45, Second Revised Page 1 of 1, and grant all other necessary and proper relief.

Dated: April 30, 2021.

Respectfully submitted,

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ATTORNEYS FOR VECTREN ENERGY
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CERTIFICATE OF SERVICE

I hereby certify that a courtesy copy of this Application and Attachments was served by electronic mail this 30th day of April 2021 to the following:

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THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of)	
Vectren Energy Delivery of Ohio, Inc. d/b/a)	Case No. 21-0491-GA-RDR
CenterPoint Energy Ohio)	
for Authority to Adjust Its Distribution)	
Replacement Rider Charges.)	

DIRECT TESTIMONY OF

STEVEN A. HOOVER

REGIONAL DIRECTOR OF GAS ENGINEERING

ON BEHALF OF

VECTREN ENERGY DELIVERY OF OHIO, INC.

D/B/A CENTERPOINT ENERGY OHIO

**Direct Testimony of
Steven A. Hoover**

I. INTRODUCTION

Q1. Please state your name, business address and occupation.

A. My name is Steven A. Hoover and my address is 211 NW Riverside Drive, Evansville, Indiana, 47708. I am the Regional Director of Gas Engineering for the Indiana/Ohio Region of CenterPoint Energy, Inc. (CenterPoint). Vectren Energy Delivery of Ohio, Inc. d/b/a CenterPoint Energy Ohio (CEOH or Company), Indiana Gas Company, Inc. d/b/a CenterPoint Energy Indiana North (CEI North), and Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South (CEI South) are all subsidiaries of CenterPoint.

Q2. What are your duties in your present position?

A. I have responsibility for gas engineering and technical support for the natural gas utility operations of CEI North, CEI South, and CEOH. My specific responsibilities include gas transmission and distribution engineering, gas transmission project management, gas capital management, and gas geospatial systems.

Q3. Please describe your work experience.

A. I began my career with Vectren Corporation (Vectren) in 1993 as a plant engineer. I have held positions of increasing responsibility, including reliability engineer, performance engineer, production coordinator, engineering manager of gas distribution engineering for the southwest division, and chief engineer of gas engineering. I was Director of Gas and Electric Engineering for Vectren just prior to becoming Regional Director of Gas Engineering for CenterPoint in 2019 following the merger of Vectren and CenterPoint.

1 **Q4. What is your educational background?**

2 A. I received a Bachelor of Science degree in Mechanical Engineering Technology from the
3 University of Southern Indiana in 1990.

4 **Q5. Have you previously testified before this Commission?**

5 A. Yes. I testified in CEOH's 2017 Distribution Replacement Rider (DRR) proceeding, Case
6 No. 17-1155-GA-RDR; 2018 DRR proceeding, Case No. 18-0762-GA-RDR; 2019 DRR
7 proceeding, Case No. 19-1011-GA-RDR; and 2020 DRR proceeding, Case No. 20-0101-
8 GA-RDR.

9 **Q6. What is the purpose of your testimony in this proceeding?**

10 A. First, I will provide details on the progress of CEOH's accelerated bare steel and cast-
11 iron replacement program (the Replacement Program). I will discuss the status of pipe
12 replacement and retirement, the costs incurred, and the benefits identified in 2020. I will
13 discuss certain other issues, such as meter relocations and plastic pipe retirements, and
14 how these are addressed within the Replacement Program. I will discuss the processes
15 used to assess and award the construction work associated with the Replacement
16 Program. In addition, I will discuss certain recommendations from the 2020 Capital
17 Expenditure Program (CEP) / DRR audit and the steps CEOH has taken in response. I
18 will conclude this section by discussing the plan for the Replacement Program in 2021
19 (2021 Replacement Plan).

20 The second portion of my testimony will discuss CEOH's experience with the
21 change in service line ownership and responsibilities, which took effect in 2009, and
22 CEOH's incremental investments in 2020 that resulted from this change.

23 The final portion of my testimony will discuss CEOH's calculation of operations
24 and maintenance (O&M) savings for the 2020 investments, in accordance with the

Stipulation approved in Case No. 13-1571-GA-ALT (the 13-1571 Stipulation) and the Stipulation approved in Case Nos. 18-0298-GA-AIR and 18-0299-GA-ALT (the 2018 Rate Case Stipulation).

Q7. What Exhibits are you sponsoring in this proceeding?

A. I am sponsoring the following exhibits:

- Exhibit No. SAH-1 – 2020 CEOH Replacement Program Progress
- Exhibit No. SAH-2 – 2020 CEOH Plastic Main Retirement Causes
- Exhibit No. SAH-3 – CEOH 2021 BS/CI Replacement Plan
- Exhibit No. SAH-4 – CEOH 2020 Service Replacement Cost Summary
- Exhibit No. SAH-5 – CEOH Service Replacement Unit Rates and Cost Allocations
- Exhibit No. SAH-6 – CEOH 2020 Service Replacement Work Order Detail & Cost Allocation
- Exhibit No. SAH-7 – CEOH Operating & Maintenance Savings Calculation
- Exhibit No. SAH-8 – CEOH 2020 Maintenance Expense - BS/CI & Service Line Ownership

II. BARE STEEL AND CAST IRON REPLACEMENT PROGRAM INCLUDING INEFFECTIVELY COATED STEEL PROJECTS

Q8. Please provide a brief description of CEOH's Replacement Program.

A. As of the end of 2020, CEOH had a total of approximately two hundred fifty-one miles of bare steel and thirty miles of cast iron main remaining in its system.¹ Going forward through the completion of the program, CEOH plans to retire between fifty-five and

¹ Due to both the completion of retirements from the prior year and the continual updating of CEOH's GIS data, there are differences between the remaining mileage and retirement figures reported in 2014 through 2020.

sixty-five miles of bare steel or cast iron annually. The estimated remaining bare steel main mileage at the end of 2020 is forty-eight miles more than the remaining mileage estimated at the end of 2019. This revised estimate is explained later in my testimony.

Q9. How much bare steel and cast-iron infrastructure did CEOH retire in 2020 as part of the Replacement Program?

A. In 2020, CEOH retired fifty-seven miles under the Replacement Program, including forty-nine miles of bare steel and eight miles of cast iron mains for projects placed in service in 2020. This mileage is less than the sixty-two miles of combined bare steel and cast iron planned for retirement in 2020 as discussed in my testimony in last year's filing. The reduction in mileage retired in 2020 reflected a higher average cost per mile installed than budgeted driven by more projects being completed in non-rural areas where costs associated with road restoration requirements, traffic control, and similar ancillary costs are greater due to congested utility corridors, extensive pavement, and increased traffic. The amount of plastic main interspersed and retired with the bare steel and cast iron projects was about seven miles as opposed to the five miles estimated for 2020. CEOH also retired 5,916 service lines associated with the bare steel and cast iron projects, with 5,340 of those being replaced or partially replaced for projects placed in service in 2020.

Q10. Does CEOH currently expect to complete the retirement of its remaining bare steel and cast-iron assets by the end of 2023?

A. No. As discussed in my testimony in the 2020 DRR proceeding, various factors are extending the completion of the Replacement Program. In its 2018 Rate Case Application, CEOH requested an extension of the Replacement Program and the DRR for six years to cover investment from January 1, 2018 through December 31, 2023. The same extension is reflected in the 2018 Rate Case Stipulation. While CEOH has used its best efforts to maintain a pace of replacement to complete the Replacement Program by

the targeted end-date of December 31, 2023, based on the various factors described in more detail below, CEOH believes it is not feasible to complete the primary bare steel and cast-iron asset retirements by the end of 2023. In accordance with the 2018 Rate Case Stipulation, because CEOH's authority to recover the costs of the Replacement Program via the DRR terminates with investments made after December 31, 2023, the Company expects to seek an extension of the Replacement Program beyond 2023 and intends to file such application with the Commission pursuant to R.C. 4929.05 in calendar year 2022. The Company intends to confer with Staff prior to filing any such application.

As indicated above, several factors have affected the completion of the Replacement Program by 2023. Specifically, they are:

- 1) Increasing replacement costs driven by more projects being completed in non-rural areas with higher restoration costs associated with extensive pavement in the work areas and municipal mandates related to the repair or replacement of roadways and sidewalks. As these costs increase and further mandates are imposed on CEOH and its contractors, CEOH will be constrained by its capital budget in its efforts to replace the targeted miles annually.
- 2) The identification of additional bare steel mains as the Replacement Program and other project work is executed and on-going review of historical records and maps. CEOH continues to find aging pipe beyond what is indicated in its historical project records as it completes work in its Replacement Program and continues its Distribution Integrity Management Program. The total estimated amount of bare steel in the CEOH systems increased from two hundred three miles at the end of 2019 to two hundred fifty-one at the end of 2020, despite the retirement of forty-nine miles of

bare steel main in 2020. This was due to additional historical work order and geographic information system (GIS) analysis, which resulted in the inclusion of several miles of bare steel main primarily consisting of newly identified shorter, scattered isolated segments. The estimated amount of remaining cast iron decreased from fifty-nine miles in 2019 to thirty miles in 2020 – eight miles due to construction retirements and twenty-one miles due to the GIS reconciliation and analysis.

3) COVID-19 pandemic impacts delayed some work in 2020. While the impact of COVID work constraints was less than anticipated at the beginning of 2020, some final project completion was delayed to later in 2020 and early 2021 which potentially will slow the start of some 2021 work.

Q11. Please elaborate on the impacts of the COVID-19 pandemic to CEOH's Replacement Program.

A. As federal and state guidance intended to limit the spread of the COVID-19 virus was communicated in early March 2020, CEOH began implementing measures to limit contact between its operations and construction crews and the public. Much of this interaction occurs when service lines are replaced or inside meters are moved to an external location as part of the Replacement Program. When service lines are replaced or inside meters relocated outside, it is necessary to stop the gas flow into a customer's home while the new service line and meter set are connected to the customer's fuel line. In cases of inside meter relocations, it is necessary for plumbers to enter the home to install new fuel lines. Either situation requires a service technician to enter the customer's premise to relight appliances after the new service line and meter set are energized. To minimize this interaction, most service line installations associated with all main replacements, including those as part of the Replacement Program, were postponed until

the distancing and isolation recommendations had been lifted. Depending on the duration of these constraints, the completion of some projects was delayed to later in 2020 and into 2021.

Q12. How did these delays impact placing assets in service?

A. CEOH was able to adapt to the constraints imposed by the pandemic response and place most of the planned Replacement Program projects in service by the end of 2020. It is not uncommon for some service line installations, main retirements, and surface restoration to carry over to the following year on Replacement Program projects; however, due to the pandemic, some additional restoration activities for 2020 projects carried over to 2021.

Q13. Was CEOH able to minimize the impact of the pandemic-related potential delays on the Replacement Program?

A. Yes. CEOH coordinated with contractors in 2020 to ensure they were prepared to move from project to project as the installations of the new mains were completed. When the more restrictive pandemic constraints were lifted and CEOH had fully developed protocols in place to protect employee, contractor, customer, and public safety, crews were mobilized back to the earlier projects to complete the service installations and old main retirements. This process was anticipated to keep the contractors engaged locally on projects to ensure resources were available when it was possible to begin the service work. It is anticipated the delays in final project work into 2021 will potentially make it challenging to complete the 2021 Replacement Program as planned but the Company is continually evaluating project progress and options to keep 2021 projects on schedule.

Q14. How much did CEOH invest in the Replacement Program in 2020?

A. As identified by CEOH witness Brittany A. Fleig, the Replacement Program investment for bare steel, cast iron, and ineffectively coated steel projects placed in service in 2020 was \$65,779,402. Exhibit No. SAH-1 provides a detailed list of bare steel, cast iron, and ineffectively coated steel projects placed in service under the Replacement Program in 2020, the costs of each project as of December 31, 2020, and the amount of pipe (main footage and number of service lines) retired and replaced. For some projects placed in service in 2020, additional trailing charges (such as restoration costs) will be incurred in 2021. These costs will be included in a future DRR filing.

Q15. Were any of the projects completed as part of the Replacement Program in 2020 the result of a public improvement project?

A. Yes. Three ineffectively coated steel (ICS) projects and fifteen bare steel and cast iron projects included in the 2020 Replacement Program originated as a result of a public improvement project. Project groups V-1498, V-1171, V-1187, V-1738, V-1739, V-1863, V-2212, V-2259, V-2451, V-2489, V-2510, V-746, V-779, V-825, V-944, ICS V-X-4201, ICS V-X-4222 and ICS V-X-4178 (the Public Improvement Projects) are identified in the list of completed projects in Exhibit No. SAH-1.

Q16. The Stipulation approved in Case No. 13-1571-GA-ALT provided that CEOH may recover the costs of replacing segments of pipe where CEOH's pipe is in a public right-of-way and the Company is required to relocate its facilities at the request of a governmental entity, provided the plastic pipe being relocated is less than or equal to 25% of the total footage relocated. Was the footage of plastic pipe retired on each of the Public Improvement Projects less than or equal to 25% of the total footage of those government projects?

A. No. The footage of plastic pipe retired on fifteen of the eighteen projects was less than 25% of the total footage relocated on these projects. The plastic pipe retired on three of the projects – V-1498, V-2212, and V-X-4222 – was more than 25% of the total footage

of the public improvement projects. The specific footage retired on the projects may be found in Exhibit No. SAH-1.

Q17. Why did the footage on three of the Public Improvement Projects exceed the 25% threshold?

A. The plastic main retired as part of project groups V-1498, V-2212, and V-X-4222 was 47%, 38%, and 27%, respectively, of the total main retired. CEOH assesses and uses the most cost-effective methods to complete all replacement projects. While it is not typical for the percentage of plastic main retired with a Public Improvement Project included in the Replacement Program to exceed 25% of the total main retired, there are circumstances where it is less costly to retire plastic main than attempt to salvage it for ongoing service. For Project V-1498, conflicts between the existing plastic gas mains with the city utilities in the street required relocation of the mains – both steel and plastic - to both sides of the street at a depth of 60” to avoid the conflict with electric and communication lines. Mains were installed on both sides of the street because utilities in the street prevented the installation of typical “long side” services or services extending from the main on one side of the street to homes and business on the opposite side. For Projects V-2212 and V-4222, the plastic mains were retired to remove conflicts with the public project and it was determined to be less costly to retire and replace most of the plastic main than to leave short segments in place for reconnection to the new plastic main installed to replace the bare steel mains in conflict with the public improvement project. Leaving more of the plastic main in place would have resulted in additional costs associated with more complicated piping connections, installation of excess flow valves under pavement, and more extensive restoration.

Q18. Is CEOH seeking recovery of the amount in excess of the 25% threshold in its proposed DRR rate as part of this application?

A. No. CEOH has reduced the requested cost recovery for the three projects by using the cost per foot of total retired main for each project multiplied by the quantity of retired plastic main in excess of the 25% threshold. This calculation is consistent with CEOH's excluded amounts agreed to within the 2019 DRR proceeding, Case No. 19-1011-GA-RDR. The cost attributed to the plastic main footage greater than 25% of the total retirement on project group V-1498 is approximately \$206,600. Using the same calculation method for project groups V-2212 and V-X-4222 resulted in cost reductions of \$163,100 and \$20,100 for the plastic main footage greater than 25% of the total retirement footage. As noted within the exhibits presented by CEOH witnesses Fleig and Katie J. Tieken, CEOH has reflected these adjusted amounts in its Revenue Requirement and its proposed DRR rates.

Q19. What total quantity of plastic main did CEOH retire as part of the Replacement Program in 2020?

A. CEOH retired a total of 52,063 feet of plastic main within the replacement projects completed in 2020. Exhibit No. SAH-2 provides a brief description of the cause of retirement of plastic for each applicable project. As discussed in CEOH's 2018 Rate Case and past DRR annual updates, the primary reasons for the retirement of plastic mains are listed below:

- Short segments of plastic main existed within the bare steel or cast-iron systems. It would have been more costly to attempt to salvage these segments than to replace them;

- Sections of plastic main at the ends of distribution systems were retired because those segments no longer served any customers and there was no reason to continue to maintain them;
- Sections of plastic main that were intended to be reused failed pressure tests and needed to be replaced;
- Segments of plastic mains were interspersed with bare steel replacement completed as part of public improvement projects where it was necessary to relocate both the bare steel and plastic segments; and
- To facilitate the installation of excess flow valves on service lines and avoid excavation and restoration of streets, it was also necessary to retire and relocate some plastic mains to areas behind curb lines.

Q20. The Stipulation approved in Case No. 13-1571-GA-ALT provided that CEOH may recover the costs of replacing and retiring individual segments of plastic pipe that exceeded certain diameter and length criteria, unless it is shown that it was less economical to replace the segment than to tie it in. Did any segments of plastic pipe exceed the criteria provided in the Stipulation?

A. Exhibit No. SAH-2 identifies the plastic pipe retired on each project (where applicable) and identifies the length of the longest individual segment retired. CEOH completed four projects in which segments of 2-inch plastic pipe longer than the applicable criterion of 435 feet were retired, twenty projects in which segments of 4-inch or 3-inch plastic pipe longer than the applicable criterion of 365 feet were retired, and two projects in which a segment of 6-inch plastic pipe longer than the applicable criterion of 250 feet, for a total of twenty-six projects that exceeded diameter and length criteria.

1 **Q21. Was it more economical to replace the segments that both exceeded diameter and**
2 **length criteria of the Stipulation, and were associated with the projects involving**
3 **pipeline replacements than to tie them into the existing system?**

4 A. Yes. Projects V-1739, V-1863, V-2212, V-746, V-1498, V-1171, and V-779 had
5 segments of existing plastic main in conflict with public road and sewer improvements.
6 Those segments were retired to mitigate the conflict and, in some cases, it was necessary
7 to install new main outside of the project area. Some of the public projects are also
8 included below where other circumstances reinforced the need and cost effectiveness of
9 replacing the plastic main segments.
10 Projects V-2039 and V-367 were determined to contain Aldyl-A or other vintage plastic
11 pipe segments which were replaced due to leak risks. Project V-1171 had sections of
12 existing plastic main and service lines to be pressure tested for operation at a higher
13 pressure. The existing plastic pipe failed the required pressure test. Specific leak locations
14 could not be readily identified and it was more cost effective to replace the plastic
15 segment than to locate and remediate the leaks. Plastic main segments within Project V-
16 779 (also associated with a public project) were replaced because mechanical service tees
17 installed on the existing main are leak risks at the new, higher operating pressures.
18 Portions of Projects V-1283 and V-735 were retired because no active services were
19 connected to the main segments. Project V-801 required the installation of new main and
20 subsequent retirement of the existing plastic main, because the existing one-way supply
21 could not be taken out of service and tested without resulting in multiple customer
22 outages. Segments of plastic main in Projects V-1155, V-1190, V-1219, V-1530, V-1739,
23 V-1863, V-1878, V-2212, V-2342, V-2399, V-2453, V-613, V-745, V-746, V-752, V-
24 780, V-965, and V-969 were retired because the existing mains were located in the street
25 and in several cases inserted in steel pipe where the cost of relocating the main to

between the curb and sidewalk was less than the cost of installing excess flow valves on services located in the street and restoring the affected roadway.

Q22. Did CEOH move any meters outside as part of the Replacement Program?

A. Yes. CEOH moved 3,750 meters outside in 2020 as part of the bare steel and cast iron and ineffectively coated steel replacement projects. Because the newly installed mains operate at a higher pressure (requiring the installation of a service regulator), the cost associated with moving the meters outside was less than if the meter remained inside and the necessary service regulator was installed outside. In addition to better utilization of CEOH's capital, moving the meters outside will improve operational efficiency associated with future meter order work and will eliminate the need for inside atmospheric corrosion inspections. CEOH has employed this meter move-out approach since the Replacement Program was first implemented.

Q23. Does CEOH believe that the Replacement Program is achieving or will achieve the expected benefits?

A. Yes. CEOH expects to continue to experience improved service reliability and safety through the reduction of leakage and the replacement of the mains and service lines that contribute most to system leaks. Proactive replacement of this pipe, moving meters outside, and retiring the older assets will also drive workforce efficiencies. Customers and property owners will experience a reduction in the number and frequency of disturbances and inconveniences (such as leak repair, service interruptions, etc.) as the older sections of main are retired. Through the Replacement Program and DRR, CEOH has been able to repair, on average, five to six class 2 and class 3 leaks per mile per year for every year of the program. Additionally, as quantified below, there are active leaks and meter orders that will be eliminated as a result of replacing bare steel and cast iron

infrastructure. Reducing active leaks is necessary to address lost and unaccounted for gas. CEOH also expects long-term benefits in terms of reduced impacts on the communities where public infrastructure improvements may occur after these projects are completed. Finally, elimination of leaks that are more common on bare steel and cast iron mains positively impacts the environment through reduction of greenhouse gas emissions.

Q24. What operational benefits did CEOH achieve as a result of the Replacement Program in 2020?

A. CEOH has achieved several operational benefits as a result of the Replacement Program.

- The replacement of bare steel and cast-iron infrastructure reduces active leaks in CEOH's system, is expected to reduce the occurrence of future leaks and leak repair work, and will reduce interruptions, inconveniences, and disturbances to customers. Specifically, the replacement of bare steel and cast-iron infrastructure from 2020 has allowed CEOH to eliminate 339 active leaks on the affected assets, 79 of which would have required a more immediate and less efficient repair.
- Over the past ten years, the Company has experienced an average of 375 asset condition related meter orders on the types of assets that were replaced in 2020. CEOH will experience a reduction in the number of these meter orders (Outside Gas Leak, Gas Emergency, Water in Line, and No Gas orders) through the retirement of bare steel and cast-iron infrastructure.
- CEOH moved 3,750 inside meters outside as part of the bare steel and cast iron and ineffectively coated steel projects. This will eliminate the requirement for a separate atmospheric corrosion check.

- Certain system components, such as the 186 drips used to remove water from low-pressure mains, that had been used to address issues associated with assets in poor condition have been eliminated in 2020.
- Additional operational efficiencies resulting from the retirement of regulator stations, valves, casings, test stations for cathodic protection, and reduced frequency of leak surveys.

Ultimately, these types of improvements provide reliability and safety benefits to CEOH's customers, as well as property owners who live in the vicinity of the replacement projects.

Q25. Did CEOH derive cost savings for the 2020 replacement projects?

A. Yes. CEOH calculated 2020 O&M savings associated with the DRR investments consistent with the 13-1571 Stipulation and the 2018 Rate Case. This topic will be discussed later in my testimony.

Q26. Were the construction projects within the 2020 Replacement Program competitively bid?

A. Yes.

Q27. How were the bid packages organized, bid, and awarded?

A. Based on the geographical location of the projects, CEOH divided the planned 2020 projects into thirty-five bid packages of which thirty-three were awarded. All contractors were allowed to bid on any of the thirty-five packages, but were not required to bid on all packages. Each bid package was independently evaluated.

Seven different construction contractors were invited to provide bids for the work. Information was provided on each project, and contractors had an opportunity to ask questions about the work to be performed and the bids to be submitted. Each contractor

was provided with copies of drawings for all the projects and given time to visit the project sites prior to submitting bids.

Four contractors submitted bids based on unit pricing; that is, a fixed price for a given unit of work to be performed. CEOH used the unit prices and the estimated work units for each project to create comparative cost estimates. These comparative estimates were then summarized for each bid package. Each package was evaluated based on overall cost and the contractor's capacity. If a contractor submitted bids on several projects, the contractor's capacity was evaluated to ensure that the potential award did not exceed their capacity. CEOH awarded contracts to all four of the contractors that provided bids.

CEOH continues to solicit and aid potential contractors to become qualified and submit bids on DRR projects.

Q28. In response to the Staff recommendation in the 2020 DRR Case, has CEOH reviewed its current practices regarding project in-service dates and cost approvals?

A. Yes. CEOH uses the same processes for placing all projects in service and approving costs regardless if they are part of the CEP or DRR. CEOH witness Angie M. Bell's testimony in the 2021 CEP case, Case No. 21-0620-GA-RDR, described the Company's processes in detail:

"With respect to project approvals, the process for placing projects in service and approving project investments is the same the current Company policy requires project approvals to be in place before a project is closed. However, due to the relatively short duration of many projects, it is often impractical for revisions or variances in the project's costs to be formally approved, if required, prior to the project being placed "in service".

The Company's review of its current policy did not indicate the need for revisions or

additions at this time. The Company will continue to formally approve project cost revisions, to the extent necessary, as soon as practical.

The Company also reviewed its policies and procedures for applying in-service dates and believes that they sufficiently ensure the accuracy of in-service dates. To the extent that the manual process of entering in-service dates results in error, the Company has a review process in place to identify any such errors before a project is closed.

Lastly, the Company has reviewed its processes for timeliness of the unitization of work orders. Capital work orders are set up to automatically stop allowing charges four months from the date of completion to allow for trailing charges and as-builts to be submitted. Once a work order becomes complete in the Maximo WMS (work management system), the WMS system transmits the in-service date as well as a completion date to the fixed asset system. The four-month trailing charge period begins with the completion date. Once again, this allows for both direct, contract, and restoration charges to continue to be appropriately charged to the project and allows time for the as-built to be submitted. The Company diligently attempts to manually unitize all Ohio capital work orders once the trailing charge period has ended.”

Q29. What is CEOH’s replacement plan for 2021?

A. CEOH’s planned replacement projects for 2021 are identified in Exhibit No. SAH-3. In 2021, CEOH plans to spend approximately \$63 million on bare steel and cast iron projects, retiring approximately sixty-one miles of bare steel and cast iron main, along with the bare steel service lines served from those mains. An estimated five miles of interspersed plastic main included in the projects results in a total approximate retirement of sixty-six miles of combined bare steel, cast iron, and plastic mains. As was the case in

2020, CEOH reserves the right to modify the plan as necessary, including to accommodate higher priority projects as circumstances may change throughout the year.

Q30. Is CEOH also planning on replacing some ineffectively coated steel pipelines in its 2021 Replacement Program?

A. Yes. In 2021, CEOH plans to spend approximately \$9 million under the Replacement Program to replace about ten miles of ineffectively coated steel mains and associated services. A list of these projects can be found in Exhibit No. SAH-3.

III. SERVICE LINE RESPONSIBILITY

Q31. How does CEOH view the transition to service line responsibility?

A. CEOH continues to view the transfer of service line responsibility to the Company as a positive for both the Company and its customers. In general, CEOH's assumption of service line responsibility has been a benefit to its customers. Customers no longer are required to schedule the services of a plumber to repair or replace their service line, minimizing inconvenience and out of pocket costs for customers. CEOH's response times to leak calls and its repair activities reduce the amount of time customers are out of service, which also aligns with Ohio's minimum gas service standards. The Company's ability to adjust to an ever-changing schedule to meet the needs of customers has also been a benefit. Confusion over customer responsibility for the service line has been essentially eliminated because there is now a clear delineation of responsibility between the customer and CEOH. CEOH continues to respond to numerous leak calls, many on bare steel or ineffectively coated steel service lines that have required replacement. Because CEOH (and its customers) have a significant number of aged service line assets, the annual amount of service line replacements is significant and will remain so for the foreseeable future.

Q32. Does CEOH continue to experience incremental costs as a result of assuming service line responsibility?

A. Yes. CEOH continues to repair a number of gas leaks on the portion of the buried service line and the above-ground meter setting that had previously been maintained by the customer. Incremental capital replacement costs related to service line responsibility are included in the DRR revenue requirement supported by CEOH witness Fleig. The incremental O&M expenses will be discussed later in my testimony.

Q33. Has CEOH devoted incremental investment to the replacement of service lines?

A. Yes. When CEOH assumed responsibility for the replacement of service lines, which includes the portion of the service line beyond the curb valve (formerly the customer's responsibility for installation or replacement), it began incurring incremental investments.

Q34. Can you explain how CEOH identified its actual incremental service line costs?

A. Yes. The first step identified portions of the service line representing incremental investment for CEOH. Figure 1 below is a drawing of a standard service line. The entire service line runs from the main to the meter setting, and the drawing shows the three distinct segments of the line: the portion from the main to the curb valve; the portion from the curb valve to the meter; and the meter setting.

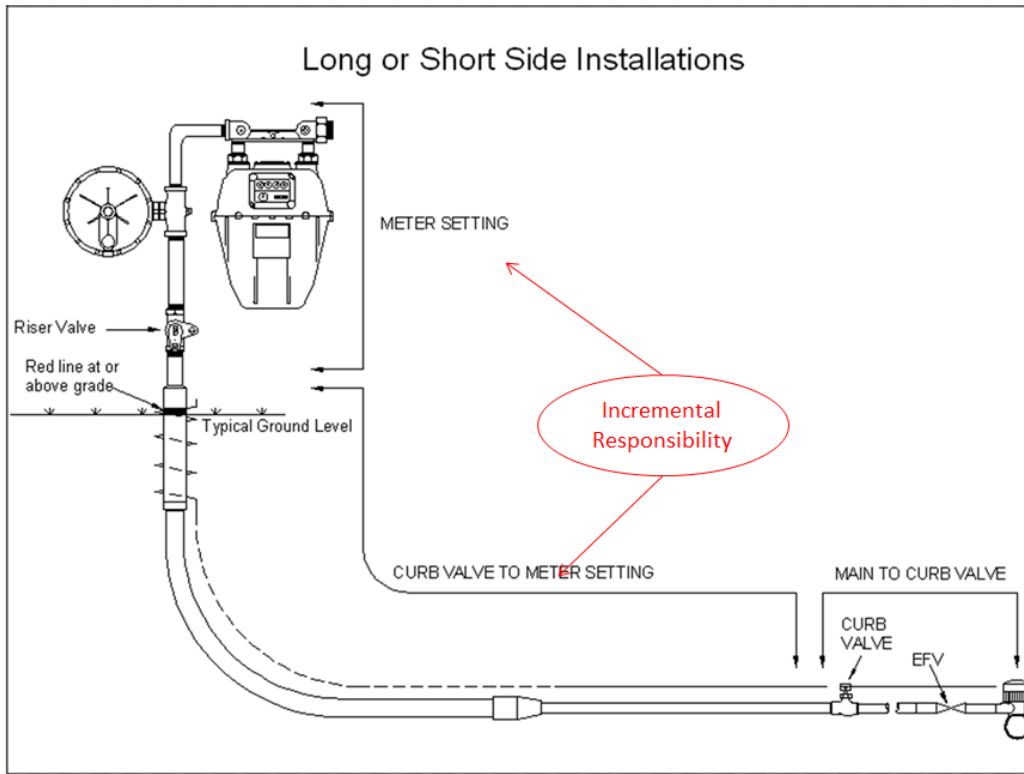


Figure 1: Standard Service Line Installation

Q35. What types of service line replacements does CEOH perform, and which replacements represent incremental investment?

A. There are four types of service line replacements that CEOH may perform, which correspond to the service line and individual segments described above.

- 1) A Main to Meter replacement means that the entire service line is replaced from the connection at the main, beyond the curb valve, to the outlet side of the meter setting. Only a portion of this type of replacement is incremental, namely, from the curb valve to the outlet of the meter setting.
- 2) A Main to Curb Valve replacement replaces the service line from the connection at the main to the outlet side of the curb valve and is *not* an incremental investment.
- 3) A Curb Valve to Meter Setting replacement replaces the service line from the outlet side of the curb valve to the inlet side of the meter setting and is entirely incremental.

Prior to CEOH's assumption of responsibility for service lines, the customer would have borne the cost for this type of replacement.

4) A Meter Setting replacement replaces the service line from the inlet side of the meter setting through the meter bar to the connection with the customer's fuel line and is entirely incremental. Prior to CEOH's assumption of responsibility for service lines, the customer would have borne the cost for this type of replacement.

Q36. Not including service lines that were part of Replacement Program projects, how many service lines did CEOH replace in 2020, and what segments of the line were replaced?

A. In 2020, CEOH replaced all or part of 1,467 service lines. This represents a decrease from 2019. The breakdown of service replacement types were as follows:

Service Line Replacement Type	Quantity
Main to Meter	1,023
Curb to Meter	246
Meter Set Replacement	124
Main to Curb	74
Total	1,467

CEOH invested \$10,282,294 in the replacement of these service lines.

Q37. What caused the number of service replacements in 2020 to decrease compared to prior years?

A. Primarily, the identification of leaks leads to the replacement of services. Progression of the Replacement Program eliminates many leak-prone services as the bare steel and cast iron systems are replaced. In addition, CEOH dedicated resources to repairing class 3 leaks in previous years, reducing the number of remaining or new leaks which resulted in fewer service lines being replaced in 2020. As discussed earlier in my testimony, due to pandemic-driven constraints, CEOH limited work that would result in service outages

and employee/customer contact where possible. Due to these constraints, replacement of services with class 3 leaks was less in 2020 than in previous years.

Q38. Is only a portion of the \$10,282,294 invested in the replacement of service lines an incremental investment?

A. Yes. Because many of the replacements involved the Main to Curb Valve portion of the service line, only a portion of this investment is incremental. Exhibit No. SAH-4 provides a summary of the 2020 investments in service line replacements, identifying both the incremental and non-incremental investments by replacement type. In 2020, CEOH's incremental investment in service line replacements was \$4,815,509.

Q39. How did CEOH identify 2020 incremental investment in service line replacements?

A. CEOH identified incremental investment with a detailed review of service line work orders, through which it determined both how many orders pertained to the various segments of the service line (Main to Meter Setting, Main to Curb Valve, Curb Valve to Meter Setting, or Meter Setting) and how much of the investment should be considered fully incremental, partially incremental, or non-incremental.

Q40. How did CEOH identify and differentiate the work orders in question?

A. CEOH queried its work management system for all service replacement work orders completed between January 1, 2020, and December 31, 2020, and compiled them into a single table in an Excel spreadsheet. It then reviewed each order and identified the type of service replacement as being one of the following: Main to Meter, Main to Curb Valve, Curb Valve to Meter, or Meter Setting replacements. This allowed CEOH to identify whether the service line investment was fully incremental, partially incremental or not incremental.

Q41. How did CEOH identify the value of the investment associated with each replacement?

A. CEOH used information on each service replacement (primarily work type, length, size and material) to determine which costs were applicable to each work order.

Q42. How did CEOH determine the applicable costs?

A. Costs for service replacement work are generally based on pre-defined unit rates for certain activities, such as a cost per foot installed, cost per meter setting installed, and cost for sewer locates. CEOH determined the applicable unit rates by manually reviewing and identifying the cost categories associated with each job and identifying which costs were applicable to which type of service replacement. For example, hard surface removal and restoration is applicable to most Main to Meter and Main to Curb Valve replacements (older mains are generally under pavement), but not to Curb Valve to Meter and Meter Setting replacements (which are generally under lawns). In CEOH's review, it also distinguished between fixed and variable costs and allocated them accordingly.

Q43. Do the exhibits to your testimony identify each cost type and how it was allocated?

A. Yes. Exhibit No. SAH-5 is a table identifying how each of the various cost types is allocated to each of the different service replacement types.

Q44. How did CEOH use this methodology to determine the incremental amount of service line investment in 2020?

A. Having identified the applicable unit rates, fixed and variable costs, and appropriate allocations, CEOH applied them to each service replacement work order to determine the incremental and non-incremental portion of each investment. Exhibit No. SAH-6 provides a listing of each service line replacement work order with its applicable costs, identifying the incremental and non-incremental investments on each service line

replacement. The summary of the individual service order costs is included in Exhibit No. SAH-4.

Q45. Is the methodology described above the same methodology that was used and approved as part of CEOH's filing for recovery of prior costs?

A. Yes. CEOH used this same methodology, which was approved during the DRR filings seeking cost recovery for calendar years starting in 2013 through the most recent period.

Q46. Is CEOH planning additional investment in the replacement of service lines in 2021 over what it invested in 2020?

A. Yes. CEOH initially planned to invest approximately \$16 million in 2020. However, the COVID-19 pandemic constraints described previously reduced the quantity of service lines the Company replaced in 2020 and the resulting total investment in this activity. The Company plans to invest approximately \$18 million in 2021 to address service line replacements that were deferred in 2020 and return to pre-pandemic levels of class 3 service leak replacements levels.

IV. OPERATING AND MAINTENANCE SAVINGS

Q47. Has CEOH calculated any O&M savings associated with the 2020 DRR investments?

A. Yes. Consistent with the 2018 Rate Case, the O&M savings from the retirement of bare-steel and cast-iron through 2017 is reflected in the base rate case test year expenses. In addition, consistent with the 13-1571 Stipulation and the 2018 Rate Case, CEOH has calculated the O&M savings for the 2018 DRR investments based on a credit of \$5,882 per mile of bare-steel and cast-iron main retired for the Replacement Program period from January 1, 2020 through December 31, 2020. This calculation resulted in a cumulative O&M Savings Credit of \$957,354 (162.76 miles in 2018 through 2020 times \$5,882). See Exhibit No. SAH-7 for the calculation of this savings credit.

Q48. Did CEOH also calculate actual O&M savings in 2020 compared to a baseline amount?

A. Yes. The 13-1571 Stipulation also required CEOH “to calculate actual O&M savings by comparing actual O&M costs to the O&M baseline established in the 2007 Rate Case and used in previous annual DRR filings.” CEOH in its 2018 Rate Case agreed to continue performing this calculation in future DRR proceedings, in conjunction with the extension of the Replacement Program and the DRR. The only difference is that the baseline for this Application and future DRR applications will be the baseline established in the 2018 Rate Case. In this Application, CEOH compared the maintenance expense incurred in 2020 with the baseline maintenance expense amount of \$1,191,604 reflected in the 2018 Rate Case. The actual comparable maintenance expenses in 2020 were \$484,485, resulting in a cumulative savings against the baseline of \$707,118. This amount is broken into expense reductions attributable to mains of \$555,642 and expense reductions attributable to service lines, now owned or maintained by CEOH, of \$151,476 for a total savings of \$707,118. Additionally, CEOH experienced a decrease in maintenance expenses of \$186,607 for those service lines that are not bare steel. Exhibit No. SAH-8 provides the actual 2020 maintenance expenses and a comparison against the baseline expense amount. Additionally, this exhibit provides a breakdown of the maintenance expenses between mains and services.

Q49. What amount of O&M savings does CEOH propose to include as a credit in this DRR filing as a result of the 2019 Replacement Program?

A. Because the O&M Savings Credit is greater than the savings reached under the baseline-comparison method, CEOH will apply the credit of \$957,354.

1 **V. CONCLUSION**

2 **Q50. Does this conclude your direct testimony?**

3 **A. Yes.**

2020 CEOH Replacement Program Progress

A	B	C	D	E	F	G	Mains					Services		Actual Meter Move-Outs	
							H	J	K	L	J+K+L	O	P	R	S
Work Order (Oracle) Number	In Service Date	Category	Group#	City	Public Imp?	Utility Plant Additions ⁽¹⁾ (Total To-Date Actual Cost)	Main Installed (Feet)	Total BS and Other Types Retired (Feet)	Total CI Retired (Feet)	Total PL Retired (Feet)	Total Main Retired (Feet)	Total # Services Installed	Total # Services Retired	Total # Meter Move-Outs	Total # Meter Installations Retired
17048103052217	2/27/2020	BSCI	V-1498	TROY	Yes	\$947,490	6,771	4,703	0	4,137	8,840	95	95	51	51
19046903052226	1/7/2020	BSCI	V-2517	DAYTON-CN		\$133,977	505	412	0	0	412	14	14	35	35
15046803052212	8/14/2020	BSCI	V-1070	DAYTON-DW		\$883,205	4,210	4,985	1,180	0	6,165	87	93	102	102
18046803052213	6/11/2020	BSCI	V-1155	DAYTON-DW		\$564,028	3,615	2,388	0	807	3,195	68	97	49	49
17046803052216	2/20/2020	BSCI	V-1171	DAYTON-DW	Yes	\$812,098	5,403	4,931	0	545	5,476	79	84	19	19
15046803052214	4/2/2020	BSCI	V-1187	DAYTON-DW	Yes	\$1,114,257	5,816	2,365	0	0	2,365	73	87	43	43
18046803052215	11/11/2020	BSCI	V-1190	DAYTON-DW		\$815,216	6,152	3,190	0	575	3,765	80	106	49	49
17046903052220	8/11/2020	BSCI	V-1219	DAYTON-CN		\$1,396,259	10,307	8,310	0	1,335	9,645	150	210	78	78
17046903052221	6/8/2020	BSCI	V-1223	DAYTON-CN		\$471,360	3,155	910	2,551	0	3,461	31	35	1	1
17046903052226	12/31/2020	BSCI	V-1283	DAYTON-CN		\$1,568,734	9,079	9,912	0	545	10,457	178	181	126	126
16046903052222	10/14/2020	BSCI	V-1328	KETTERING-CN		\$1,469,380	9,676	7,210	0	330	7,540	166	167	92	92
15048103052210	8/18/2020	BSCI	V-1461	VERSAILLES		\$841,360	5,655	5,965	0	85	6,050	70	70	38	38
16046703052212	6/10/2020	BSCI	V-1495	WILMINGTON		\$440,939	4,005	2,238	0	0	2,238	58	58	38	38
17046603052213	3/18/2020	BSCI	V-1530	XENIA		\$734,976	6,566	5,000	0	955	5,955	68	88	2	2
14046603052223	3/12/2020	BSCI	V-1738	FAIRBORN	Yes	\$1,962,847	4,102	2,800	0	0	2,800	38	42	7	7
15046603052215	7/16/2020	BSCI	V-1739	FAIRBORN	Yes	\$1,420,381	6,081	9,611	0	1,085	10,696	89	89	70	70
18048203052212	3/13/2020	BSCI	V-1863	BELLEFONTAINE	Yes	\$765,177	7,430	7,475	100	740	8,315	90	98	25	25
17048203052210	10/8/2020	BSCI	V-1875	RUSSELLS POINT		\$759,298	5,960	5,735	0	365	6,100	118	118	14	14
16048203052213	8/25/2020	BSCI	V-1876	RUSSELLS POINT		\$950,610	7,840	7,670	0	0	7,670	139	139	15	15
16048203052214	11/13/2020	BSCI	V-1877	RUSSELLS POINT		\$537,420	4,230	4,840	0	0	4,840	91	91	14	14
16048103052214	3/3/2020	BSCI	V-1878	ARCANUM		\$608,199	5,428	3,564	0	1,573	5,137	83	85	0	0
17046903052229	7/27/2020	BSCI	V-1907	GERMANTOWN		\$246,446	2,072	2,031	0	344	2,375	36	38	1	1
16048203052216	3/31/2020	BSCI	V-1975	JACKSON CENTER		\$944,209	5,484	5,128	0	172	5,300	59	59	1	1
17048103052221	3/23/2020	BSCI	V-1987	PIQUA		\$993,498	8,322	6,696	0	172	6,868	132	134	63	63
18046803052216	7/20/2020	BSCI	V-2039	DAYTON-DW		\$1,238,306	8,589	6,080	0	1,667	7,747	140	195	107	107
17046903052230	12/7/2020	BSCI	V-2059	DAYTON-CN		\$369,654	5,810	5,485	1,740	0	7,225	129	129	100	100
16046803052222	9/2/2020	BSCI	V-2212	DAYTON-DW	Yes	\$1,256,930	5,840	2,180	1,945	2,525	6,650	120	135	94	94
18046903052218	5/6/2020	BSCI	V-2259	KETTERING-CN	Yes	\$729,240	3,081	4,810	0	0	4,810	66	66	67	67
18046903052226	4/16/2020	BSCI	V-2342	GERMANTOWN		\$649,073	5,537	1,537	0	3,529	5,066	92	93	17	17
17046903052232	9/28/2020	BSCI	V-2377	DAYTON-CN		\$501,810	5,097	2,616	0	21	2,637	101	103	78	78
17046903052233	8/11/2020	BSCI	V-2382	OAKWOOD		\$1,018,060	9,190	2,880	2,949	0	5,829	82	83	53	53
18046803052218	9/25/2020	BSCI	V-2398	DAYTON-DW		\$892,306	4,306	330	4,025	240	4,595	91	106	71	71
17046803052224	8/5/2020	BSCI	V-2399	DAYTON-DW		\$867,051	3,639	6,580	0	875	7,455	41	48	28	28
17048103052224	9/24/2020	BSCI	V-2404	VERSAILLES		\$530,788	2,675	2,895	0	40	2,935	57	57	33	33
17046803052234	12/8/2020	BSCI	V-2430	DAYTON-DW		\$200,143	1,937	841	0	0	841	21	23	15	15
18048103052214	1/15/2020	BSCI	V-2451	TIPP CITY	Yes	\$160,342	1,525	2,443	0	303	2,746	18	18	12	12
18046803052229	5/20/2020	BSCI	V-2453	DAYTON-DW		\$1,097,394	4,986	3,375	0	1,510	4,885	91	115	75	75
18046803052232	10/8/2020	BSCI	V-2456	DAYTON-DW		\$613,819	7,812	5,790	0	0	5,790	103	136	76	76
19046703052210	5/14/2020	BSCI	V-2489	WILMINGTON	Yes	\$648,715	3,015	2,140	0	215	2,355	65	69	32	32
19046603052215	1/16/2020	BSCI	V-2506	YELLOW SPRINGS		\$358,955	1,559	3,165	0	80	3,245	22	23	10	10
19046903052224	6/25/2020	BSCI	V-2510	KETTERING-CN	Yes	\$812,410	2,448	1,070	0	155	1,225	9	9	0	0
19046903052225	2/12/2020	BSCI	V-2516	DAYTON-CN		\$76,444	720	552	0	0	552	9	11	4	4
20046903052210	9/21/2020	BSCI	V-2518	OAKWOOD		\$156,920	1,430	748	0	0	748	19	19	14	14
20046803052210	9/23/2020	BSCI	V-2520	DAYTON-DW		\$126,644	770	820	0	0	820	11	12	7	7
20046903052212	3/26/2020	BSCI	V-2521	KETTERING-CN		\$256,054	1,814	1,528	0	0	1,528	34	34	20	20
20046903052213	1/21/2020	BSCI	V-2527	DAYTON-CN		\$0	0	0	390	0	390	0	1	0	0
20048203052210	12/9/2020	BSCI	V-2533	LAKEVIEW		\$43,181	500	500	0	0	500	5	5	0	0
20046903052214	7/7/2020	BSCI	V-2534	DAYTON-CN		\$55,269	972	972	0	0	972	2	2	1	1
15046803052220	4/3/2020	BSCI	V-362	DAYTON-DW		\$1,631,273	7,665	10,746	0	240	10,986	107	141	115	115
17046903052234	8/18/2020	BSCI	V-366	OAKWOOD		\$902,967	7,553	2,645	3,080	0	5,725	72	72	62	62
17046903052235	9/10/2020	BSCI	V-367	OAKWOOD		\$749,355	5,206	5,025	0	850	5,875	66	67	25	25
18046903052228	10/13/2020	BSCI	V-613	DAYTON-CN		\$276,159	3,260	3,310	820	570	4,700	8	16	2	2
18046903052229	7/30/2020	BSCI	V-735	DAYTON-CN		\$702,400	8,145	915	3,646	625	5,186	134	143	95	95
18046803052220	12/18/2020	BSCI	V-745	DAYTON-DW		\$821,829	6,049	1,390	3,315	2,125	6,830	96	121	68	68
16046803052215	1/23/2020	BSCI	V-746	DAYTON-DW	Yes	\$990,770	4,800	1,690	1,260	690	3,640	124	133	91	91
18046803052221	12/17/2020	BSCI	V-749	DAYTON-DW		\$905,569	6,303	900	3,995	10	4,905	135	139	124	124
17046803052225	12/30/2020	BSCI	V-752	DAYTON-DW		\$645,418	7,215	4,000	3,500	1,450	8,950	69	119	44	44
14046903052237	5/11/2020	BSCI	V-774	DAYTON-CN		\$783,504	6,186	7,045	1,530	10	8,585	48	66	38	38
16046803052218	3/30/2020	BSCI	V-779	DAYTON-DW	Yes	\$970,543	6,105	5,780	0	575	6,355	110	128	104	104
17046803052227	8/24/2020	BSCI	V-780	DAYTON-DW		\$505,492	3,680	2,315	0	1,300	3,615	45	51	22	22
18048103052215	6/23/2020	BSCI	V-801	TROY		\$658,810	3,815	3,323	0	1,147	4,470	53	57	29	29
18046903052231	5/11/2020	BSCI	V-821	DAYTON-CN		\$807,157	7,122	3,910	0	58	3,968	169	169	107	107
12046903052231	1/30/2020	BSCI	V-825	DAYTON-CN	Yes	\$408,697	3,703	2,988	0	0	2,988	69	70	43	43
17046903052237	6/26/2020	BSCI	V-826	DAYTON-CN		\$1,026,546	8,454	666	4,436	0	5,102	152	158	122	122
12046803052221	12/7/2020	BSCI	V-831	DAYTON-DW		\$533,418	4,250	7,186	322	322	7,830	107	128	84	84
17048103052226	5/27/2020	BSCI	V-844	TROY		\$516,421	4,180	4,655	0	20	4,675	66	70	17	17
14048103052231	1/17/2020	BSCI	V-944	COVINGTON	Yes	\$274,407	2,402	2,682	0	0	2,682	36	38	16	16
18046803052226	2/13/2020	BSCI	V-965	WEST ALEXANDRIA		\$569,942	4,541	2,524	0	1,837	4,361	76	79	9	9
18046803052227	4/16/2020	BSCI	V-969	DAYTON-DW		\$1,042,669	5,568	2,425	0	2,870	5,295	74	77	30	30
18048103052217	10/6/2020	BSCI	V-982	PIQUA		\$1,065,251	5,515	5,170	0	1,070	6,240	104	104	58	58

2020 CEOH Replacement Program Progress

A	B	C	D	E	F	G	Mains					Services		Actual Meter Move-Outs	
							H	J	K	L	J+K+L	O	P	R	S
Work Order (Oracle) Number	In Service Date	Category	Group#	City	Public Imp?	Utility Plant Additions ⁽¹⁾ (Total To-Date Actual Cost)	Main Installed (Feet)	Total BS and Other Types Retired (Feet)	Total CI Retired (Feet)	Total PL Retired (Feet)	Total Main Retired (Feet)	Total # Services Installed	Total # Services Retired	Total # Meter Move-Outs	Total # Meter Installations Retired
BSCI Totals					15	\$50,829,469	342,833	258,696	40,784	40,694	340,174	5,340	5,916	3,152	3,152
Miles							64.93	49.00	7.72	7.71	64.43				

Ineffectively Coated Steel Projects:

17046803G50210	1/1/2020	ICS	V-X-1000	DAYTON-DW		\$200,705	870	1,280	0	0	1,280	9	9	2	2
17048103G50214	1/14/2020	ICS	V-X-1855	PIQUA		\$1,479,873	10,976	4,734	0	315	5,049	48	48	0	0
18046603G50212	1/1/2020	ICS	V-X-1852	DAYTON-DW		\$841,645	4,486	2,357	0	650	3,007	75	79	77	77
18046603G50215	1/1/2020	ICS	V-X-4201	FAIRBORN	Yes	\$389,327	2,255	2,484	0	196	2,680	35	36	23	23
18046603G50218	1/1/2020	ICS	V-X-4327	YELLOW SPRINGS		\$1,364,509	9,813	7,455	0	3,280	10,735	153	155	73	73
18046703G50212	1/1/2020	ICS	V-X-4222	WILMINGTON	Yes	\$942,312	5,932	4,365	0	1,625	5,990	81	83	46	46
18046903G50213	1/1/2020	ICS	V-X-4178	KETTERING-CN	Yes	\$1,144,057	8,989	7,345	0	805	8,150	47	47	24	24
19046703G50212	1/1/2020	ICS	V-X-4834	BLOOMINGBURG		\$869	0	108	0	0	108	0	1	0	0
19048103G50011	1/1/2020	ICS	V-X-4855	GREENVILLE		\$199,323	1,830	1,679	0	28	1,707	5	5	0	0
18046903G50215	4/14/2020	ICS	V-X-1098	MIAMISBURG		\$224,913	629	570	0	0	570	3	3	0	0
18046903G50216	4/16/2020	ICS	V-X-1100	MIAMISBURG		\$565,930	2,409	2,620	0	200	2,820	43	45	20	20
18046903G50217	6/2/2020	ICS	V-X-1312	MIAMISBURG		\$739,521	4,056	4,640	0	25	4,665	61	61	28	28
18046603G50210	3/24/2020	ICS	V-X-1837	RIVERSIDE		\$1,024,088	5,439	4,945	0	385	5,330	80	80	41	41
18046903G50212	6/8/2020	ICS	V-X-1839	MIAMISBURG		\$879,225	4,559	4,455	0	165	4,620	60	60	13	13
18048103G50210	6/25/2020	ICS	V-X-1840	TROY		\$270,352	2,321	2,312	0	0	2,312	9	9	0	0
18046703G50213	5/14/2020	ICS	V-X-4223	WILMINGTON		\$1,427,893	7,002	5,575	1,460	2,855	9,890	108	108	50	50
18048103G50213	10/10/2020	ICS	V-X-4285	TROY	EST	\$678,960	9,880	8,240	0	490	8,730	112	112	67	67
18048103G50214	5/18/2020	ICS	V-X-4286	TROY	EST	\$1,091,199	15,250	9,605	0	0	9,605	171	171	72	72
18048103G50215	6/10/2020	ICS	V-X-4287	TROY	EST	\$496,900	6,745	2,775	0	0	2,775	66	66	35	35
18046903G50214	9/8/2020	ICS	V-X-4295	MIAMISBURG		\$777,976	3,654	3,340	0	190	3,530	70	70	27	27
19046603G50210	7/17/2020	ICS	V-X-4887	YELLOW SPRINGS		\$135,996	983	880	0	0	880	5	5	0	0
20046603G50210	6/18/2020	ICS	OHMOD 1 / MOD 5001	FAIRBORN		\$74,358	312	152	0	160	312	3	3	0	0
ICS Totals					3	\$14,949,933	108,390	81,916	1,460	11,369	94,745	1,244	1,256	598	598
Miles							20.53	15.51	0.28	2.15	17.94				
BSCI & ICS Totals					18	\$65,779,402	451,223	340,612	42,244	52,063	434,919	6,584	7,172	3,750	3,750
Total Miles							85.46	64.51	8.00	9.86	82.37				

¹ Utility plant additions do not include cost of removal or 2020 trailing charge activity associated with BS/CI groups placed in service prior to January 1, 2021

2020 CEOH BS/CI Replacement Program
Plastic Main Retirement Causes

Work Order Number	In Service Date	Group#	City	Size of Main Installed (inches)	Size of Main Retired (inches)	Total PL Retired (Feet)	Size of Longest PL Segment Retired (inches)	Longest PL Segment Retired (Feet)	Requires Justification?	Comments
18046803052213	6/11/2020	V-1155	DAYTON-DW	2"	3", 4"	807	3"	760	Yes	760' OF 3"LPP AND 47' OF 4"LPP WERE RETIRED IN THE STREET TO MOVE NEW MAIN BEHIND THE CURB AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
18046803052215	11/11/2020	V-1190	DAYTON-DW	2", 4"	3", 4", 6"	575	3"	405	Yes	405' OF 3"LPP, 140' OF 4"LPP, 30' OF 6"LPP WERE RETIRED IN THE STREET TO INSTALL NEW MAIN BEHIND THE CURB AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
17046903052220	8/11/2020	V-1219	DAYTON-CN	2"	4", 6"	1,335	6"	775	Yes	560' OF 4"LPP AND 775' OF 6"LPP WERE RETIRED IN THE STREET TO INSTALL NEW MAIN BEHIND THE CURB AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
17046603052213	3/18/2020	V-1530	XENIA	2", 4"	3", 4"	955	3"	655	Yes	655' OF 3"LPP AND 300' OF 4" LPP WERE RETIRED TO MOVE MAIN BEHIND THE CURB AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
15046603052215	7/16/2020	V-1739	FAIRBORN	2", 4", 6"	2", 3", 4"	1,085	4"	745	Yes	50' OF 2"LPP, 290' OF 3"LPP & 745' OF 4"LPP WERE RETIRED IN THE STREET TO FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES. ASSOCIATED WITH PUBLIC IMPROVEMENT PROJECT.
18048203052212	3/13/2020	V-1863	BELLEFONTAINE	2"	2", 3", 6"	740	3"	510	Yes	130' OF 3"LPP, 510' OF 3"LPP AND 100' OF 6"LPP WERE RETIRED IN THE STREET AND NEW 2"MPP WAS INSTALLED IN GREEN SPACE BEHIND THE CURB TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES. ASSOCIATED WITH PUBLIC IMPROVEMENT PROJECT.
16048103052214	3/3/2020	V-1878	ARCANUM	2", 4"	2", 3"	1,573	2"	1,201	Yes	1201' OF 2"LPP AND 372' OF 3"LPP WERE RETIRED IN THE STREET/ALLEYS TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
16046803052222	9/2/2020	V-2212	DAYTON-DW	2"	3", 4", 6"	2,525	3"	2,200	Yes	2200' OF 3"LPP, 305' OF 4"LPP & 20' OF 6"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES. ASSOCIATED WITH PUBLIC IMPROVEMENT PROJECT.
18046903052226	4/16/2020	V-2342	GERMANTOWN	2"	2", 3", 4"	3,529	4"	2,556	Yes	954' OF 2"LPP, 19' OF 3"LPP & 2556' OF 4"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
17046803052224	8/5/2020	V-2399	DAYTON-DW	2", 4"	3", 4", 6"	875	3"	665	Yes	665' OF 3"LPP, 165' OF 4"LPP & 45' OF 6"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
18046803052229	5/20/2020	V-2453	DAYTON-DW	2", 4", 6"	3", 4"	1,510	4"	1,290	Yes	220' OF 3" LPP & 1290' OF 4"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
18046903052228	10/13/2020	V-613	DAYTON-CN	2", 4"	2", 3", 4"	570	4"	415	Yes	30' OF 2"LPP, 125' OF 3"LPP & 415' OF 4"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
18046803052220	12/18/2020	V-745	DAYTON-DW	2", 4", 6"	3", 4", 6"	2,125	3"	1,590	Yes	1590' OF 3"LPP INSERTED IN STEEL MAIN IN THE STREET WAS RETIRED TO MOVE OUT OF THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES. 515' OF 4"LPP AND 20' OF 6"LPP WERE ALSO RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
16046803052215	1/23/2020	V-746	DAYTON-DW	2"	3", 4"	690	3"	675	Yes	675' OF 3"LPP AND 15' OF 4"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES. ASSOCIATED WITH PUBLIC IMPROVEMENT PROJECT.
17046803052225	12/30/2020	V-752	DAYTON-DW	2", 8"	3", 4"	1,450	4"	940	Yes	510' OF 3"LPP AND 940' OF 4"LPP WERE RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
17046803052227	8/24/2020	V-780	DAYTON-DW	2", 4"	3", 4"	1,300	4"	925	Yes	375' OF 3"LPP & 925' OF 4"LPP WAS RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.

2020 CEOH BS/CI Replacement Program
Plastic Main Retirement Causes

Work Order Number	In Service Date	Group#	City	Size of Main Installed (inches)	Size of Main Retired (inches)	Total PL Retired (Feet)	Size of Longest PL Segment Retired (inches)	Longest PL Segment Retired (Feet)	Requires Justification?	Comments
18046803052226	2/13/2020	V-965	WEST ALEXANDRIA	2"	2", 3", 4"	1,837	2"	920	Yes	920' OF 2"LPP, 334' OF 3"LPP & 583' OF 4"LPP WERE RETIRED IN THE STREET TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
18046803052227	4/16/2020	V-969	DAYTON-DW	2", 3", 4", 6"	4", 6"	2,870	4"	1,840	Yes	1840' OF 4"LPP AND 1030' OF 6"LPP WAS INSERTED IN STEEL PIPE IN THE STREET AND RETIRED TO MOVE MAIN FROM THE STREET AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
16046903052222	10/14/2020	V-1328	KETTERING-CN	2", 4", 6"	4"	330	4"	330	No	
17046903052229	7/27/2020	V-1907	GERMANTOWN	2", 4"	2", 4"	344	4"	339	No	
16048203052216	3/31/2020	V-1975	JACKSON CENTER	2", 4", 6"	2", 3", 4"	172	2"	88	No	
17048103052221	3/23/2020	V-1987	PIQUA	2", 4"	3", 4", 6"	172	4"	93	No	
17046903052232	9/28/2020	V-2377	DAYTON-CN	2", 4"	4"	21	4"	21	No	
18046803052218	9/25/2020	V-2398	DAYTON-DW	2"	4"	240	4"	240	No	
18048103052214	1/15/2020	V-2451	TIPP CITY	2"	2", 3", 4"	303	3"	153	No	
19046703052210	5/14/2020	V-2489	WILMINGTON	2", 4"	3", 4"	215	4"	195	No	
19046603052215	1/16/2020	V-2506	YELLOW SPRINGS	2", 6"	2", 3", 4"	80	3"	45	No	
19046903052224	6/25/2020	V-2510	KETTERING-CN	2", 4", 8"	2", 4"	155	2"	80	No	
15046803052220	4/3/2020	V-362	DAYTON-DW	2", 8"	2", 3", 4"	240	3"	150	No	
18046803052221	12/17/2020	V-749	DAYTON-DW	2", 4", 6"	6"	10	6"	10	No	
14046903052237	5/11/2020	V-774	DAYTON-CN	2"	4"	10	4"	10	No	
18046903052231	5/11/2020	V-821	DAYTON-CN	2"	4"	58	4"	58	No	
12046803052221	12/7/2020	V-831	DAYTON-DW	2"	3", 4"	322	4"	185	No	
17048103052226	5/27/2020	V-844	TROY	2", 4", 6"	4"	20	4"	20	No	
17048103052217	2/27/2020	V-1498	TROY	2", 6", 8"	2", 3", 4", 6"	4,137	4"	2,030	Yes	30' OF 2"LPP, 207' OF 3"LPP, 2030' OF 4"LPP & 50' OF 6"LPP INTERSPERSED WITH THE BARE STEEL MAINS WERE RETIRED DUE TO THE CITY'S PUBLIC IMPROVEMENT PROJECT ON MAIN ST WHICH REQUIRED INSTALLATION OF MAIN ON BOTH SIDES OF THE ROAD (DUAL MAIN) TO AVOID SERVICE LINE CONFLICTS WITH CITY PROJECT.
17046803052216	2/20/2020	V-1171	DAYTON-DW	2", 4"	4"	545	4"	545	Yes	545' OF 4"LPP WAS RETIRED AND REPLACED AFTER UNSUCCESSFUL PRESSURE TESTS TO VERIFY INTEGRITY OF THE MAIN AT ARNOLD PLACE. ASSOCIATED WITH PUBLIC IMPROVEMENT PROJECT.
17046903052226	12/31/2020	V-1283	DAYTON-CN	2"	4", 6"	545	6"	310	Yes	310' OF 6"LPP WAS RETIRED BECAUSE NO SERVICES WERE CONNECTED TO THIS SEGMENT OF MAIN. 235' OF 4"LPP WAS RETIRED WHEN SERVICES WERE TRANSFERRED TO THE EXISTING MEDIUM PRESSURE.
18046803052216	7/20/2020	V-2039	DAYTON-DW	2", 4"	2", 3", 4", 6"	1,667	2"	712	Yes	712' OF 2"LPP, 270' OF 3"LPP, 545' OF 4"LPP & 140' OF 6"LPP WERE RETIRED WHEN IT WAS DETERMINED MATERIAL WAS ALDYL-A (VINTAGE PLASTIC WITH INTEGRITY ISSUES), TO MOVE MAIN OUT OF STREET, AND FACILITATE INSTALLATION OF EXCESS FLOW VALVES ON SERVICE LINES.
17046903052235	9/10/2020	V-367	OAKWOOD	2"	3", 4"	850	4"	825	Yes	425' OF 4"LPP WAS RETIRED BECAUSE IT WAS DETERMINED TO BE VINTAGE PLASTIC AND 400' OF 4"LPP WAS RETIRED BECAUSE NO SERVICES WERE CONNECTED TO THE SEGMENT OF MAIN.
18046903052229	7/30/2020	V-735	DAYTON-CN	2", 4"	1 1/4", 2"	625	2"	458	Yes	291' OF 2"LPP WAS RETIRED BECAUSE NO ACTIVE SERVICES WERE CONNECTED TO THE SEGMENT OF MAIN. 167' OF 1.25"LPP WAS RETIRED BECAUSE IT WAS A NON-STANDARD SIZE.
16046803052218	3/30/2020	V-779	DAYTON-DW	2"	4"	575	4"	575	Yes	575' OF 4"LPP WAS REPLACED ON PARKWOOD AVE DUE TO ORIGINAL CONSTRUCTION WITH MECHANICAL SERVICE TEES WHICH ARE LEAK RISKS. MAIN WAS ALSO INSERTED IN STEEL PIPE WHICH INCREASES DIFFICULTY IN TESTING AND MAINTENANCE. ASSOCIATED WITH PUBLIC IMPROVEMENT PROJECT.

2020 CECH BS/CI Replacement Program
Plastic Main Retirement Causes

Work Order Number	In Service Date	Group#	City	Size of Main Installed (inches)	Size of Main Retired (inches)	Total PL Retired (Feet)	Size of Longest PL Segment Retired (inches)	Longest PL Segment Retired (Feet)	Requires Justification?	Comments
18048103052215	6/23/2020	V-801	TROY	2", 4"	4"	1,147	4"	1,147	Yes	1147' OF 4"LPP WAS RETIRED BECAUSE IT WAS A ONE WAY FEED WHICH PREVENTED IT FROM BEING PRESSURE TESTED WITHOUT RESULTING IN MULTIPLE CUSTOMER OUTAGES.

CEOH 2021 Bare Steel / Cast Iron Replacement Plan

Project Group #	Division	Operating Center	City	Street (First street affected if multiple)	Estimated Install Footage	Estimated Retire Footage	Estimated Project Services	Total Authorized Dollars	Most Recent Construction Est. Start Date	Most Recent Construction Est. Completion Date
V-1010	VEDO	CN	DAYTON-CN	WOODBINE AVE	10,060	7,340	214	\$2,065,901	12/14/2020	10/1/2021
V-1028	VEDO	BF	BELLEFONTAINE	EASEMENT W/O ASHBROOK DR	5,995	6,165	79	\$925,543	6/7/2021	10/8/2021
V-1174	VEDO	DW	DAYTON-DW	ROSEDALE AVE	3,480	4,240	27	\$511,956	5/10/2021	7/15/2021
V-1184	VEDO	DW	DAYTON-DW	JAMES H MCGEE BLVD	7,745	4,545	137	\$1,323,449	3/22/2021	6/29/2021
V-1200	VEDO	DW	DAYTON-DW	MUMMA AVE	8,765	6,390	102	\$1,427,416	2/1/2021	5/30/2021
V-1209	VEDO	CN	DAYTON-CN	HATFIELD AVE	3,705	6,895	35	\$490,539	1/4/2021	3/31/2021
V-1211	VEDO	CN	DAYTON-CN	ETHEL AVE	9,235	8,910	113	\$1,347,010	1/25/2021	5/7/2021
V-1226	VEDO	CN	DAYTON-CN	S MAIN ST	4,535	5,360	41	\$704,569	5/3/2021	7/16/2021
V-1273	VEDO	CN	KETTERING-CN	S DIXIE DR	6,055	6,515	77	\$1,161,755	2/1/2021	5/30/2021
V-1276	VEDO	CN	KETTERING-CN	PATTERSON BLVD	8,500	8,735	82	\$1,023,524	3/22/2021	6/21/2021
V-1280	VEDO	CN	OAKWOOD	FAR HILLS AVE	1,600	1,600	19	\$589,736	4/1/2021	12/31/2021
V-1285	VEDO	CN	DAYTON-CN	SHROYER RD	11,075	10,580	218	\$2,351,152	1/4/2021	5/30/2021
V-1303	VEDO	FA	KETTERING-FA	BRIEDWENG AVE	5,530	5,415	107	\$842,908	8/1/2021	10/15/2021
V-1317	VEDO	CN	KETTERING-CN	W DOROTHY LN	3,395	2,920	37	\$443,885	5/8/2021	7/1/2021
V-1321	VEDO	CN	OAKWOOD	R/W S. OF TRIANGLE AVE	2,670	3,015	74	\$728,157	6/10/2021	8/10/2021
V-1325	VEDO	CN	KETTERING-CN	SAN RAE DR	7,000	6,900	159	\$1,604,586	5/9/2021	7/1/2021
V-1335	VEDO	CN	GERMANTOWN	MAPLE ST	7,230	7,715	166	\$1,478,877	5/15/2021	9/1/2021
V-1340	VEDO	TR	PIQUA	DOWNING ST	6,785	6,295	105	\$1,175,321	1/11/2021	5/10/2021
V-1463	VEDO	TR	VERSAILLES	ALLEY NORTH OF WARD ST	3,560	4,095	53	\$629,400	1/4/2021	4/29/2021
V-1464	VEDO	TR	VERSAILLES	ALLEY SOUTH OF EUCLID ST	4,795	5,515	103	\$968,719	2/20/2021	7/1/2021
V-1465	VEDO	TR	VERSAILLES	ALLEY SOUTH OF MAIN ST	2,775	4,225	63	\$704,847	3/9/2021	7/1/2021
V-1494	VEDO	TR	TROY	PENNSYLVANIA	4,755	6,690	89	\$887,473	1/4/2021	5/15/2021
V-1511	VEDO	CN	DAYTON-CN	R/W N. OF HAMPSHIRE RD	9,445	5,655	198	\$1,805,062	8/21/2021	11/30/2021
V-1533	VEDO	FA	XENIA	DETROIT ST	5,325	6,530	107	\$1,004,746	4/15/2021	8/30/2021
V-1858	VEDO	DW	EATON	AUKERMAN ST.	4,470	6,880	73	\$1,111,846	8/5/2021	12/20/2021
V-1864	VEDO	BF	BELLEFONTAINE	HENRY ST.	550	2,085	22	\$168,240	5/17/2021	6/4/2021
V-1871	VEDO	BF	RUSSELLS POINT	EASEMENT EAST OF CHASE AVE	5,685	6,550	105	\$1,037,921	7/2/2021	9/15/2021
V-1884	VEDO	TR	GREENVILLE	TWELFTH ST.	6,635	9,615	134	\$1,307,115	7/20/2021	10/30/2021
V-1986	VEDO	TR	PIQUA	WATER ST	4,320	4,520	64	\$693,292	2/25/2021	6/20/2021
V-2066	VEDO	FA	DAYTON-FA	BROWNELL AVE	8,255	6,150	162	\$1,531,379	2/16/2021	5/30/2021
V-2107	VEDO	TR	BRADFORD	CHURCH ST.	7,205	6,945	126	\$1,273,470	3/20/2021	7/31/2021
V-2378	VEDO	DW	DAYTON-DW	BROADWAY ST	4,895	6,420	72	\$776,021	9/6/2021	11/12/2021
V-2397	VEDO	CN	DAYTON-CN	ROOSEVELT AVE	3,850	5,465	79	\$771,177	3/22/2021	6/4/2021
V-2419	VEDO	CN	OAKWOOD	TRIANGLE	2,460	520	47	\$519,936	6/10/2021	8/10/2021
V-2436	VEDO	CN	DAYTON-CN	R/W N. OF GREENMONT BLVD	4,330	4,010	64	\$700,832	10/1/2021	11/30/2021
V-2442	VEDO	FA	DAYTON-FA	DARST	2,955	2,485	43	\$451,068	1/4/2021	4/30/2021
V-2462	VEDO	DW	DAYTON-DW	FOREST AVE	985	1,460	13	\$262,942	5/10/2021	6/10/2021
V-2483	VEDO	CN	OAKWOOD	RIDGEWAY RD	5,965	5,465	33	\$664,458	12/15/2020	9/15/2021
V-2490	VEDO	FA	FAIRBORN	MAPLE AVE	14,160	14,450	24	\$2,710,734	3/8/2021	7/1/2021
V-2491	VEDO	DW	DAYTON-DW	WHITMORE AVE	2,385	4,550	62	\$551,912	8/5/2021	9/20/2021
V-2493	VEDO	CN	DAYTON-CN	HODAPP AVE	4,135	2,230	91	\$777,077	1/4/2021	4/30/2021
V-2497	VEDO	DW	DAYTON-DW	RAVENWOOD	4,315	3,835	71	\$755,046	2/1/2021	5/30/2021
V-2505	VEDO	DW	DAYTON-DW	OXFORD AVE	3,670	4,420	49	\$633,661	10/25/2021	12/17/2021
V-2507	VEDO	CN	DAYTON-CN	IOLA AVE	2,185	1,980	37	\$390,935	1/4/2021	2/18/2021
V-2508	VEDO	CN	DAYTON-CN	S. DIXIE AVE	1,255	1,175	7	\$290,335	11/15/2021	12/20/2021
V-2511	VEDO	FA	FAIRBORN	SOUTH ST	490	465	3	\$131,558	6/1/2021	11/30/2021
V-2522	VEDO	DW	DAYTON-DW	SMITHVILLE RD	3,465	3,445	60	\$653,404	4/5/2021	6/25/2021

V-2650	VEDO	CN	OAKWOOD	THRUSTON BLVD	3,250	3,600	32	\$495,340	4/1/2021	12/31/2021
V-2658	VEDO	CN	DAYTON-CN	WAYNE AVE	1,370	685	19	\$341,518	4/1/2021	12/31/2021
V-2659	VEDO	FA	FAIRBORN	N WEST ST	1,300	1,300	12	\$154,900	6/1/2021	12/31/2021
V-2695	VEDO	FA	YELLOW SPRINGS	E HERMAN STREET	1,620	2,545	26	\$260,407	6/1/2021	12/31/2021
V-2696	VEDO	CN	CENTERVILLE	MAIN ST (S.R.48)	3,825	3,825	39	\$464,725	6/1/2021	12/31/2021
V-2698	VEDO	CN	CENTERVILLE	BRADSTREET ROAD	3,350	3,350	51	\$499,550	6/1/2021	12/31/2021
V-734	VEDO	CN	KETTERING-CN	SPRINGHILL AVE	12,435	10,050	185	\$2,271,859	3/8/2021	6/29/2021
V-748	VEDO	DW	DAYTON-DW	HUFFMAN AVE	6,560	7,360	140	\$1,576,050	2/1/2021	5/30/2021
V-751	VEDO	DW	DAYTON-DW	BROADWAY ST	10,180	10,430	118	\$1,827,884	7/12/2021	9/24/2021
V-786	VEDO	DW	DAYTON-DW	FOURTH ST.	3,855	3,815	82	\$849,693	5/10/2021	7/30/2021
V-797	VEDO	CN	DAYTON-CN	SMITH ST	4,020	3,200	68	\$778,386	2/8/2021	4/8/2021
V-829	VEDO	CN	DAYTON-CN	WELLMEIER AVE	5,205	3,415	107	\$1,333,348	1/4/2021	4/30/2021
V-832	VEDO	DW	DAYTON-DW	ELSMERE AVE	9,575	6,960	149	\$1,617,812	3/8/2021	6/29/2021
V-848	VEDO	DW	DAYTON-DW	FOREST GLEN AVE	6,760	6,200	90	\$1,153,891	7/15/2021	9/30/2021
V-936	VEDO	TR	TROY	MOOREHEAD ST	3,270	4,635	94	\$829,464	2/17/2021	7/1/2021
V-946	VEDO	TR	GREENVILLE	LAUREL ST.	12,060	11,750	161	\$1,835,774	4/15/2021	9/1/2021
V-956	VEDO	FA	SOUTH CHARLESTON	W. JAMESTOWN RD	9,595	12,845	181	\$1,845,871	12/25/2020	6/28/2021
V-972	VEDO	FA	RIVERSIDE	HARSHMAN RD	3,245	4,165	40	\$471,883	9/15/2021	12/30/2021
Total BSCI					344,110	347,495	5,440	\$62,969,248		

CEOH 2020 Service Replacement Cost Summary

	Main to Curb (Non-Incremental)					Curb to Meter (Incremental)					Grand Total (Main to Curb + Curb to Meter)				
	Labor 1	Mat'l 1	Misc 1	OH 1	Subtotal 1	Labor 2	Mat'l 2	Misc 2	OH 2	Subtotal 2	Total Labor	Total Mat'l	Total Misc	Total OH	Grand Total
Curb to Meter	\$0	\$0	\$0	\$0	\$0	44,049	22,456	1,019,006	434,204	\$1,519,715	\$44,049	\$22,456	\$1,019,006	\$434,204	\$1,519,715
Main to Curb	\$32,162	\$27,922	\$348,200	\$163,313	\$571,596	-	-	-	-	\$0	\$32,162	\$27,922	\$348,200	\$163,313	\$571,596
Main to Meter - Over 200 feet	\$9,390	\$2,038	\$34,859	\$18,515	\$64,801	23,908	5,188	16,900	18,399	\$64,395	\$33,298	\$7,226	\$51,759	\$36,913	\$129,197
Main to Meter - Under 200 feet	\$157,836	\$85,417	\$3,207,023	\$1,380,110	\$4,830,386	401,866	217,480	1,554,845	869,676	\$3,043,867	\$559,702	\$302,897	\$4,761,868	\$2,249,787	\$7,874,254
Meter set replacement	\$0	\$0	\$0	\$0	\$0	81,965	51,986	-	53,581	\$187,532	\$81,965	\$51,986	\$0	\$53,581	\$187,532
Totals	\$199,388	\$115,376	\$3,590,082	\$1,561,938	\$5,466,784	\$551,788	\$297,111	\$2,590,751	\$1,375,860	\$4,815,509	\$751,176	\$412,487	\$6,180,833	\$2,937,798	\$10,282,294

CEOH Service Replacement Unit Rates and Cost Allocations

Service Replacement Type	Direct labor cost per ft/unit	Direct mat'l cost per ft/unit	Direct labor/mat'ls main to curb %	Direct labor/mat'ls curb to meter %	Misc cost/unit - permit	Misc cost - permit main to curb %	Misc cost - permit curb to meter %	Misc cost/unit - spot holes	Misc cost - spot holes main to curb %	Misc cost - spot holes curb to meter cost %	Misc cost/unit - restoration	Misc cost - restoration main to curb %	Misc cost - restoration curb to meter cost %	Misc cost/unit - sewer locate	Misc cost - sewer locate main to curb %	Misc cost - sewer locate curb to meter cost %
Main to Meter - Over 200 feet	\$10.48	\$2.27	28.2%	71.8%	\$55.90	50.0%	50.0%	\$769.44	100.0%	0.0%	\$863.15	100.0%	0.0%	\$3,016.93	50.0%	50.0%
Main to Meter - Under 200 feet	\$10.48	\$5.67	28.2%	71.8%	\$55.90	50.0%	50.0%	\$769.44	100.0%	0.0%	\$863.15	100.0%	0.0%	\$3,016.93	50.0%	50.0%
Main to Curb	\$434.62	\$377.32	100.0%	0.0%	\$55.90	100.0%	0.0%	\$769.44	100.0%	0.0%	\$863.15	100.0%	0.0%	\$3,016.93	100.0%	0.0%
Curb to Meter	\$11.18	\$5.70	0.0%	100.0%	\$55.90	0.0%	100.0%	\$769.44	0.0%	100.0%	\$863.15	0.0%	100.0%	\$2,453.83	0.0%	100.0%
Meter set replacement	\$661.01	\$419.25	0.0%	100.0%	\$0.00	0.0%	100.0%	\$0.00	0.0%	100.0%	\$0.00	0.0%	100.0%	\$0.00	0.0%	100.0%

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation										Totals (\$000s):																		
										\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282				
										Main to Curb (Non-Incremental)							Curb to Meter (Incremental)							Grand Total (Main to Curb + Curb to Meter)				
										Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length																				
17216633	OHIO	DW	OH-DAYTON-1222 N MAIN ST ---AMR	2/3/2020	HDPE		Main to Meter - Under 200 feet	77		\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17152851	OHIO	CN	OH-DAYTON-12 PAIGE AVE -LEAK-REPAIR---	3/5/2020	HDPE		Main to Meter - Under 200 feet	34		\$2.96	\$100	\$1.60	\$54	\$3,169	\$1,330	\$4,653	\$7.53	\$256	\$4.07	\$138	\$1,536	\$772	\$2,703	\$356	\$193	\$4,705	\$2,102	\$7,356
17562259	OHIO	DW	OH-DAYTON-34 S GARFIELD ST -LEAK-REPAIR---	3/24/2020	HDPE		Main to Meter - Under 200 feet	40		\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492
16541924	OHIO	CN	OH-DAYTON-540 W RAHN RD -LEAK-REPAIR---REG	3/24/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	49		\$2.96	\$145	\$1.60	\$78	\$3,169	\$1,357	\$4,749	\$7.53	\$369	\$4.07	\$200	\$1,536	\$842	\$2,947	\$514	\$278	\$4,705	\$2,199	\$7,696
17427611	OHIO	DW	OH-DAYTON-7600 NORTH MAIN ST -LEAK-REPAIR---	2/20/2020	HDPE		Main to Meter - Under 200 feet	66		\$2.96	\$195	\$1.60	\$106	\$3,169	\$1,388	\$4,858	\$7.53	\$497	\$4.07	\$269	\$1,536	\$921	\$3,223	\$692	\$374	\$4,705	\$2,309	\$8,080
17419332	OHIO	DW	OH-DAYTON-1356 ALCOTT AVE -- SERVICE REPLACEMENT	2/11/2020	HDPE		Main to Meter - Under 200 feet	52		\$2.96	\$154	\$1.60	\$83	\$3,169	\$1,362	\$4,768	\$7.53	\$391	\$4.07	\$212	\$1,536	\$856	\$2,995	\$545	\$295	\$4,705	\$2,218	\$7,764
13722391	OHIO	WC	OH-WILMINGTON-449 N WALNUT ST ---	1/21/2020	HDPE		Curb to Meter	27		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$302	\$5.70	\$154	\$4,142	\$1,839	\$6,437	\$302	\$154	\$4,142	\$1,839	\$6,437
17833855	OHIO	CN	OH-MIAMISBURG-115 N GEBHART CHURCH RD---GSRPLSSS	6/15/2020	HDPE		Main to Meter - Under 200 feet	55		\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17178714	OHIO	CN	OH-DAYTON-5172 OAK AVE -LEAK-REPAIR---	2/21/2020	HDPE		Curb to Meter	4		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894
17314052	OHIO	CN	OH-DAYTON-2005 WYOMING ST --- SERV RENEW FAILED PDT	1/3/2020	HDPE		Main to Meter - Under 200 feet	46		\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$928	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628
17181765	OHIO	DW	OH-DAYTON-635 BELMONT PARK N-LEAK-REPAIR---	2/26/2020	HDPE		Main to Meter - Under 200 feet	70		\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171
17255439	OHIO	CN	OH-DAYTON-1200 FORRER BLVD UNIT A---N/R RESZG	11/17/2020			Meter Set Replacement	0		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17528755	OHIO	CN	OH-DAYTON-1449 SPRINGHILL AVE -LEAK-REPAIR---	3/11/2020	HDPE		Main to Meter - Under 200 feet	58		\$2.96	\$171	\$1.60	\$93	\$3,169	\$1,373	\$4,806	\$7.53	\$436	\$4.07	\$236	\$1,536	\$884	\$3,093	\$608	\$329	\$4,705	\$2,257	\$7,899
17397315	OHIO	BF	OH-LAKEVIEW-280 S MAIN ST --- EXCESS PITCHING ON RISER AND CLASS 3 LEAK A	1/29/2020	HDPE		Main to Meter - Under 200 feet	30		\$2.96	\$89	\$1.60	\$48	\$3,169	\$1,322	\$4,628	\$7.53	\$226	\$4.07	\$122	\$1,536	\$754	\$2,638	\$314	\$170	\$4,705	\$2,076	\$7,266
17400147	OHIO	BF	OH-BELLEFONTAINE-1000 GARFIELD AVE LOT 47---RELOG	3/9/2020	HDPE		Curb to Meter	17		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$190	\$5.70	\$97	\$4,142	\$1,772	\$6,201	\$190	\$97	\$4,142	\$1,772	\$6,201
17214536	OHIO	FA	OH-DAYTON-1840 RAINBOW DR ---RENEW SERVICE	1/3/2020	HDPE		Main to Meter - Under 200 feet	31		\$2.96	\$92	\$1.60	\$50	\$3,169	\$1,324	\$4,634	\$7.53	\$233	\$4.07	\$126	\$1,536	\$758	\$2,654	\$325	\$176	\$4,705	\$2,082	\$7,289
16431768	OHIO	CN	OH-DAYTON-450 W ALEX BELL RD ---AMR PROJECT	3/23/2020	HDPE		Main to Meter - Under 200 feet	25		\$2.96	\$74	\$1.60	\$40	\$3,169	\$1,313	\$4,596	\$7.53	\$188	\$4.07	\$102	\$1,536	\$731	\$2,557	\$262	\$142	\$4,705	\$2,044	\$7,153
16431455	OHIO	FA	OH-NEW CARLISLE-220 S MAIN ST --- AMR PROJECT	7/22/2020	HDPE		Main to Meter - Under 200 feet	40		\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492
17185769	OHIO	TR	OH-TIPP CITY-4900 S CO 25A ---RESZG	1/21/2020	HDPE	2.00 INCH	Main to Meter - Under 200 feet	125		\$2.96	\$369	\$1.60	\$200	\$3,169	\$1,495	\$5,234	\$7.53	\$941	\$4.07	\$509	\$1,536	\$1,194	\$4,181	\$1,310	\$709	\$4,705	\$2,690	\$9,414
17336430	OHIO	CN	OH-KETTERING-2521 CALIFORNIA AVE -LEAK-REPAIR---	1/14/2020	HDPE		Curb to Meter	39		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$436	\$5.70	\$222	\$4,142	\$1,920	\$6,721	\$436	\$222	\$4,142	\$1,920	\$6,721
17523639	OHIO	WC	OH-WASHINGTON COURT HOUSE-204 E PAINT -LEAK-REPAIR---	3/9/2020	HDPE		Main to Meter - Under 200 feet	33		\$2.96	\$98	\$1.60	\$53	\$3,169	\$1,328	\$4,647	\$7.53	\$248	\$4.07	\$134	\$1,536	\$768	\$2,687	\$346	\$187	\$4,705	\$2,095	\$7,334
17185684	OHIO	DW	OH-DAYTON-221 BELMONT PARK E-LEAK-REPAIR---	3/24/2020			Main to Meter - Under 200 feet	0		\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17528635	OHIO	TR	OH-FORT LORAMIE-60 ELM ST --- RENEW SERVICE	3/5/2020	HDPE		Main to Meter - Under 200 feet	88		\$2.96	\$260	\$1.60	\$141	\$3,169	\$1,428	\$4,998	\$7.53	\$662	\$4.07	\$358	\$1,536	\$1,023	\$3,580	\$922	\$499	\$4,705	\$2,451	\$8,578
17518293	OHIO	DW	OH-DAYTON-4705 PRESCOTT -LEAK-REPAIR---	2/28/2020	HDPE		Curb to Meter	43		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$481	\$5.70	\$245	\$4,142	\$1,947	\$6,815	\$481	\$245	\$4,142	\$1,947	\$6,815
17067129	OHIO	FA	OH-DAYTON-1641 FALKE -LEAK-REPAIR---	1/6/2020	HDPE		Curb to Meter	11		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$123	\$5.70	\$63	\$4,142	\$1,731	\$6,059	\$123	\$63	\$4,142	\$1,731	\$6,059
17532342	OHIO	DW	OH-DAYTON-12 N CHERRYWOOD AVE --- SERVICE RENEWAL DUE TO MODERNIZ/	3/10/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	60		\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
17708511	OHIO	FA	OH-XENIA-182 N COLUMBUS ST -LEAK-REPAIR---LEAK-REPAIR	4/28/2020	HDPE		Curb to Meter	1		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17273275	OHIO	DW	OH-DAYTON-1654 SPRINGFIELD ST REAR ---RESZG	1/21/2020			Meter Set Replacement	0		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17644446	OHIO	CN	OH-BELLBROOK-781 CONIFER TRL ---RELOG	8/7/2020	HDPE		Main to Meter - Under 200 feet	97		\$2.96	\$287	\$1.60	\$155	\$3,169	\$1,444	\$5,055	\$7.53	\$730	\$4.07	\$395	\$1,536	\$1,065	\$3,726	\$1,017	\$550	\$4,705	\$2,509	\$8,781
17544774	OHIO	WC	OH-WASHINGTON COURT HOUSE-411 E EAST -LEAK-REPAIR---	6/16/2020	HDPE		Main to Meter - Under 200 feet	110		\$2.96	\$325	\$1.60	\$176	\$3,169	\$1,468	\$5,138	\$7.53	\$828	\$4.07	\$448	\$1,536	\$1,125	\$3,937	\$1,153	\$624	\$4,705	\$2,593	\$9,075
17904524	OHIO	CN	OH-WEST CARROLLTON-640 SKYVIEW DR --- RENEW SERVICE/REROUTE MTR TO	7/8/2020	HDPE		Main to Meter - Under 200 feet	59		\$2.96	\$174	\$1.60	\$94	\$3,169	\$1,375	\$4,813	\$7.53	\$444	\$4.07	\$240	\$1,536	\$888	\$3,109	\$618	\$335	\$4,705	\$2,263	\$7,922
16903406	OHIO	TR	OH-TROY-2514 ST ANDREWS DR -LEAK-REPAIR---	2/17/2020			Main to Meter - Under 200 feet	0		\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17610864	OHIO	DW	OH-DAYTON-7072 YORK CENTER DR -LEAK-REPAIR---LEAK-REPAIR	3/24/2020	HDPE		Curb to Meter	2		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847
18232680	OHIO	FA	OH-DAYTON-4436 PENN AVE -LEAK-REPAIR																									

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
17713095	OHIO	TR	OH-TROY-506 LAKE ST -LEAK-REPAIR---	7/16/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17900333	OHIO	DW	OH-DAYTON-1215 CUMBERLAND AVE --	6/16/2020	HDPE		Main to Meter - Under 200 feet	85	\$2.96	\$251	\$1.60	\$136	\$3,169	\$1,422	\$4,979	\$7.53	\$640	\$4.07	\$346	\$1,536	\$1,009	\$3,531	\$891	\$482	\$4,705	\$2,431	\$8,510
17735227	OHIO	CN	OH-DAYTON-DEARBORN AVE AT JEROME AVE AVE -LEAK-REPAIR---	8/13/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17326632	OHIO	DW	OH-DAYTON-1476 CATALPA DR -LEAK-REPAIR---	1/3/2020	HDPE		Main to Meter - Under 200 feet	42	\$2.96	\$124	\$1.60	\$67	\$3,169	\$1,344	\$4,704	\$7.53	\$316	\$4.07	\$171	\$1,536	\$809	\$2,833	\$440	\$238	\$4,705	\$2,154	\$7,537
17988322	OHIO	CN	OH-GERMANTOWN-971 ASTORIA RD -LEAK-REPAIR--- LEAK-REPAIR	7/31/2020	HDPE		Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870
16348274	OHIO	FA	OH-KETTERING-1625 WILLAMET RD -LEAK-REPAIR---	1/2/2020	HDPE		Main to Meter - Under 200 feet	97	\$2.96	\$287	\$1.60	\$155	\$3,169	\$1,444	\$5,055	\$7.53	\$730	\$4.07	\$395	\$1,536	\$1,065	\$3,726	\$1,017	\$550	\$4,705	\$2,509	\$8,781
17325966	OHIO	CN	OH-KETTERING-1628 PROSSER AVE -LEAK-REPAIR--- LEAK-REPAIR	1/2/2020	HDPE		Main to Meter - Under 200 feet	63	\$2.96	\$186	\$1.60	\$101	\$3,169	\$1,382	\$4,838	\$7.53	\$474	\$4.07	\$257	\$1,536	\$907	\$3,174	\$660	\$357	\$4,705	\$2,289	\$8,012
17421428	OHIO	DW	OH-DAYTON-1475 PHILADELPHIA -LEAK-REPAIR---	2/12/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$166	\$1.60	\$90	\$3,169	\$1,370	\$4,794	\$7.53	\$421	\$4.07	\$228	\$1,536	\$874	\$3,060	\$587	\$318	\$4,705	\$2,244	\$7,854
18175014	OHIO	DW	OH-DAYTON-825 PRINCE ALBERT BLVD ---RELOG	12/10/2020	HDPE		Main to Meter - Under 200 feet	42	\$2.96	\$124	\$1.60	\$67	\$3,169	\$1,344	\$4,704	\$7.53	\$316	\$4.07	\$171	\$1,536	\$809	\$2,833	\$440	\$238	\$4,705	\$2,154	\$7,537
17720674	OHIO	TR	OH-SIDNEY-432 NEW LEAK-REPAIR---	5/6/2020	HDPE		Main to Meter - Under 200 feet	67	\$2.96	\$198	\$1.60	\$107	\$3,169	\$1,390	\$4,864	\$7.53	\$504	\$4.07	\$273	\$1,536	\$925	\$3,239	\$702	\$380	\$4,705	\$2,315	\$8,103
17995154	OHIO	TR	OH-BRADFORD-7034 ZERBER -LEAK-REPAIR--- LEAK-REPAIR	8/5/2020	HDPE		Curb to Meter	6	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$67	\$5.70	\$34	\$4,142	\$1,697	\$5,941	\$67	\$34	\$4,142	\$1,697	\$5,941
17106963	OHIO	DW	OH-DAYTON-1624 SCENIC DR -LEAK-REPAIR---	8/20/2020	HDPE		Main to Meter - Under 200 feet	106	\$2.96	\$313	\$1.60	\$170	\$3,169	\$1,461	\$5,113	\$7.53	\$798	\$4.07	\$432	\$1,536	\$1,106	\$3,872	\$1,111	\$601	\$4,705	\$2,567	\$8,985
18162777	OHIO	FA	OH-DAYTON-231 BILLWOOD RD -LEAK-REPAIR--- LEAK-REPAIR	10/16/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17713024	OHIO	TR	OH-TROY-801 DYE MILL RD ---RESZG	9/3/2020	HDPE		Main to Meter - Under 200 feet	110	\$2.96	\$325	\$1.60	\$176	\$3,169	\$1,468	\$5,138	\$7.53	\$828	\$4.07	\$448	\$1,536	\$1,125	\$3,937	\$1,153	\$624	\$4,705	\$2,593	\$9,075
17329004	OHIO	TR	OH-TIPP CITY-2 ABBOTT PARK WAY ---RESZ	3/19/2020		2.00 INCH	Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17132060	OHIO	CN	OH-DAYTON-1937 MARDELL DR -LEAK-REPAIR---	1/30/2020	HDPE		Main to Meter - Under 200 feet	98	\$2.96	\$290	\$1.60	\$157	\$3,169	\$1,446	\$5,062	\$7.53	\$737	\$4.07	\$399	\$1,536	\$1,069	\$3,742	\$1,027	\$556	\$4,705	\$2,515	\$8,804
16715015	OHIO	DW	OH-WEST MANCHESTER-217 E NORTH ST -LEAK-REPAIR---	6/12/2020	HDPE		Main to Curb	6	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17834830	OHIO	DW	OH-HUBER HEIGHTS-6197 CHARLES GATE DR -LEAK-REPAIR---	7/27/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17131111	OHIO	DW	OH-DAYTON-1802 PINECREST DR -LEAK-REPAIR---	1/9/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17523339	OHIO	CN	OH-CENTERVILLE-7541 JOHN ELWOOD DR -LEAK-REPAIR--- LEAK-REPAIR	2/28/2020	HDPE		Main to Meter - Under 200 feet	5	\$2.96	\$15	\$1.60	\$8	\$3,169	\$1,277	\$4,469	\$7.53	\$38	\$4.07	\$20	\$1,536	\$638	\$2,232	\$52	\$28	\$4,705	\$1,914	\$6,701
18205486	OHIO	DW	OH-DAYTON-3740 BARBAROSA DR -LEAK-REPAIR---	11/12/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397
17771557	OHIO	CN	OH-DAYTON-7784 CLIFFVIEW CT --- RENEW SERV-TRIPPING HAZARD	5/26/2020	HDPE		Main to Meter - Under 200 feet	85	\$2.96	\$251	\$1.60	\$136	\$3,169	\$1,422	\$4,979	\$7.53	\$640	\$4.07	\$346	\$1,536	\$1,009	\$3,531	\$891	\$482	\$4,705	\$2,431	\$8,510
17410182	OHIO	BF	OH-LAKEVIEW-11666 CHANNEL VIEW DR -LEAK-REPAIR---	2/5/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$923	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605
17265057	OHIO	CN	OH-BEAVERCREEK-2612 PATRICK DR -LEAK-REPAIR---	2/13/2020	HDPE		Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$90	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17339505	OHIO	CN	OH-DAYTON-1855 E BATAM DR -LEAK-REPAIR---	1/16/2020	HDPE		Main to Meter - Under 200 feet	33	\$2.96	\$98	\$1.60	\$53	\$3,169	\$1,328	\$4,647	\$7.53	\$248	\$4.07	\$134	\$1,536	\$768	\$2,687	\$346	\$187	\$4,705	\$2,095	\$7,334
17632839	OHIO	CN	OH-SPRINGBORO-7974 FROSTWOOD CT -LEAK-REPAIR--- LEAK-REPAIR	4/6/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17833857	OHIO	CN	OH-MIAMISBURG-115 N GEBHART CHURCH RD -LEAK-REPAIR--- LEAK-REPAIR	6/15/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17425451	OHIO	CN	OH-DAYTON-401 IVES LN -LEAK-REPAIR---	2/14/2020	HDPE		Curb to Meter	20	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$224	\$5.70	\$114	\$4,142	\$1,792	\$6,272	\$224	\$114	\$4,142	\$1,792	\$6,272
17521842	OHIO	DW	OH-DAYTON-307 ELMHURST DR -LEAK-REPAIR---	3/2/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492
17204752	OHIO	TR	OH-VERSAILLES-424 OLIVE ST ---RENEW SERVICE	7/24/2020	HDPE		Main to Meter - Under 200 feet	58	\$2.96	\$171	\$1.60	\$93	\$3,169	\$1,373	\$4,806	\$7.53	\$436	\$4.07	\$236	\$1,536	\$884	\$3,093	\$608	\$329	\$4,705	\$2,257	\$7,899
17968050	OHIO	FA	OH-YELLOW SPRINGS-418 N STAFFORD ST ---RELOG	10/14/2020			Curb to Meter	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$0	\$5.70	\$0	\$4,142	\$1,657	\$5,799	\$0	\$0	\$4,142	\$1,657	\$5,799
17395317	OHIO	BF	OH-LAKEVIEW-9735 MAUGER AVE HSMTR --- 2 DAY SERVICE RENEW AND LOCATI	1/31/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
18142202	OHIO	TR	OH-ST. PARIS-11690 W US RT 36 -LEAK-REPAIR---	10/9/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17913471	OHIO	DW	OH-DAYTON-335 BANNOCK ST ---RELOG	12/15/2020	HDPE		Main to Meter - Under 200 feet	44	\$2.96	\$130	\$1.60	\$70	\$3,169	\$1,348	\$4,717	\$7.53	\$331	\$4.07	\$179	\$1,536	\$819	\$2,865	\$461	\$250	\$4,705	\$2,166	\$7,583
17844669	OHIO	CN	OH-DAYTON-316 CHATHAM -LEAK-REPAIR---	6/19/2020	HDPE		Main to Meter - Under 200 feet	126	\$2.96	\$372	\$1.60	\$202	\$3,169	\$1,497	\$5,240	\$7.53	\$948	\$4.07	\$513	\$1,536	\$1,199	\$4,197	\$1,321	\$715	\$4,705	\$2,696	\$9,437
18268019	OHIO	CN	OH-CENTERVILLE-11084 ELK CREEK DR ---RELOG	12/23/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847
17333635	OHIO	TR	OH-SIDNEY-401 KOSSUTH -LEAK-REPAIR---	1/10/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718
17037713	OHIO	CN	OH-CENTERVILLE-8302 SAINT FRANCIS CT -LEAK-REPAIR---	10/22/2020	HDPE		Main to Curb	6	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
18262893	OHIO	DW	OH-DAYTON-1125 W SECOND ST ---RELOG	12/14/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225</																	

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):								\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282					
								Main to Curb (Non-Incremental)						Curb to Meter (Incremental)						Grand Total (Main to Curb + Curb to Meter)							
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
16412711	OHIO	DW	OH-DAYTON-4301 REDONDA LN -LEAK-REPAIR~~	2/27/2020	HDPE		Main to Meter - Under 200 feet	43	\$2.96	\$127	\$1.60	\$69	\$3,169	\$1,346	\$4,711	\$7.53	\$324	\$4.07	\$175	\$1,536	\$814	\$2,849	\$451	\$244	\$4,705	\$2,160	\$7,560
17163978	OHIO	CN	OH-DAYTON-254 RAVELLE CT -LEAK-REPAIR~~	2/3/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$15	\$1.60	\$8	\$3,169	\$1,277	\$4,469	\$7.53	\$38	\$4.07	\$20	\$1,536	\$638	\$2,232	\$52	\$28	\$4,705	\$1,914	\$6,701
17153772	OHIO	DW	OH-DAYTON-2134 RECTOR AVE -LEAK-REPAIR~~	1/23/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17411494	OHIO	DW	OH-DAYTON-4417 COPELAND -LEAK-REPAIR~~	2/5/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$248	\$1.60	\$134	\$3,169	\$1,421	\$4,972	\$7.53	\$632	\$4.07	\$342	\$1,536	\$1,004	\$3,515	\$880	\$476	\$4,705	\$2,425	\$8,487
17385896	OHIO	CN	OH-DAYTON-161 POINCIANA DR ~~RENEW SERVICE	2/3/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17820471	OHIO	DW	OH-DAYTON-820 WESTWOOD -LEAK-REPAIR~~	6/8/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306
17754095	OHIO	DW	OH-DAYTON-138 HEATHCLIFF RD ~~ SERVICE RENEWAL	5/26/2020	HDPE		Main to Meter - Under 200 feet	117	\$2.96	\$346	\$1.60	\$187	\$3,169	\$1,481	\$5,183	\$7.53	\$890	\$4.07	\$476	\$1,536	\$1,157	\$4,051	\$1,226	\$664	\$4,705	\$2,638	\$9,234
17327172	OHIO	CN	OH-DAYTON-7725 JOHN ELWOOD DR -LEAK-REPAIR~~	6/19/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	65	\$2.96	\$192	\$1.60	\$104	\$3,169	\$1,386	\$4,851	\$7.53	\$489	\$4.07	\$265	\$1,536	\$916	\$3,206	\$681	\$369	\$4,705	\$2,302	\$8,058
17316861	OHIO	DW	OH-TROTWOOD-6 W MAIN ST ~~RENEW SERVICE	11/25/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18251534	OHIO	DW	OH-DAYTON-3918 FREE PIKE -LEAK-REPAIR~~	12/1/2020	HDPE		Curb to Meter	12	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$134	\$5.70	\$68	\$4,142	\$1,738	\$6,083	\$134	\$68	\$4,142	\$1,738	\$6,083
18195307	OHIO	DW	OH-ENGLEWOOD-308 MEADOWGROVE DR ~~RELOG	12/8/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	36	\$2.96	\$106	\$1.60	\$58	\$3,169	\$1,333	\$4,666	\$7.53	\$271	\$4.07	\$147	\$1,536	\$782	\$2,736	\$377	\$204	\$4,705	\$2,115	\$7,402
16625597	OHIO	WC	OH-WASHINGTON COURT HOUSE-335 EASTERN AVE -LEAK-REPAIR~~	2/3/2020	HDPE		Main to Meter - Under 200 feet	69	\$2.96	\$204	\$1.60	\$110	\$3,169	\$1,393	\$4,877	\$7.53	\$519	\$4.07	\$281	\$1,536	\$935	\$3,271	\$723	\$391	\$4,705	\$2,328	\$8,148
15131759	OHIO	TR	OH-ST. PARIS-310 S STATE RT 235 ~~AMR PROJECT	1/22/2020	HDPE		Main to Meter - Under 200 feet	136	\$2.96	\$402	\$1.60	\$218	\$3,169	\$1,515	\$5,304	\$7.53	\$1,023	\$4.07	\$554	\$1,536	\$1,246	\$4,359	\$1,425	\$771	\$4,705	\$2,761	\$9,663
17111041	OHIO	WC	OH-BLOOMINGBURG-20 MIRON ST -LEAK-REPAIR~~	2/18/2020	HDPE		Main to Curb	21	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17111210	OHIO	WC	OH-BLOOMINGBURG-58 WEST ST -LEAK-REPAIR~~	2/18/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17277490	OHIO	CN	OH-MIAMISBURG-1032 WOODSVIEW CT -LEAK-REPAIR~~	4/7/2020	HDPE		Curb to Meter	5	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$56	\$5.70	\$28	\$4,142	\$1,691	\$5,917	\$56	\$28	\$4,142	\$1,691	\$5,917
17980642	OHIO	TR	OH-PIQUA-1109 BROADWAY -LEAK-REPAIR~~	7/29/2020	HDPE		Main to Meter - Under 200 feet	57	\$2.96	\$168	\$1.60	\$91	\$3,169	\$1,371	\$4,800	\$7.53	\$429	\$4.07	\$232	\$1,536	\$879	\$3,077	\$597	\$323	\$4,705	\$2,250	\$7,877
18085248	OHIO	CN	OH-CENTERVILLE-1248 CHARTER PL ~~ ACROSS FROM 1248 CHARTER PL	9/4/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18195298	OHIO	WC	OH-WASHINGTON COURT HOUSE-635 ALBIN AVE -LEAK-REPAIR~~	11/5/2020	HDPE		Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
17171930	OHIO	TR	OH-TROY-686 S ALCONY CONOVER RD ~~RESZG	1/2/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17395357	OHIO	CN	OH-MIAMISBURG-946 WILLIAMS AVE ~~RELOG	2/18/2020	HDPE		Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171
17657477	OHIO	DW	OH-DAYTON-1071 JANICE PL ~~	7/28/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	136	\$2.96	\$402	\$1.60	\$218	\$3,169	\$1,515	\$5,304	\$7.53	\$1,023	\$4.07	\$554	\$1,536	\$1,246	\$4,359	\$1,425	\$771	\$4,705	\$2,761	\$9,663
18204284	OHIO	FA	OH-XENIA-1077 BUCKSKIN TRL -LEAK-REPAIR~~	11/1/2020	HDPE		Curb to Meter	45	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$503	\$5.70	\$256	\$4,142	\$1,961	\$6,863	\$503	\$256	\$4,142	\$1,961	\$6,863
17709661	OHIO	TR	OH-TROY-355 DUKE DR ~~ SERVICE RELOCATE	4/22/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	32	\$2.96	\$95	\$1.60	\$51	\$3,169	\$1,326	\$4,641	\$7.53	\$241	\$4.07	\$130	\$1,536	\$763	\$2,671	\$335	\$182	\$4,705	\$2,089	\$7,311
17213165	OHIO	WC	OH-JEFFERSONVILLE-41 STATE ST -LEAK-REPAIR~~	4/30/2020	HDPE		Curb to Meter	10	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$112	\$5.70	\$57	\$4,142	\$1,724	\$6,036	\$112	\$57	\$4,142	\$1,724	\$6,036
17333453	OHIO	BF	OH-RUSSELLS POINT-200 ELLIOTT RD ~~RESZG	6/24/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17845059	OHIO	CN	OH-KETTERING-3601 HERTLAND DR ~~ SERVICE RENEWAL	6/19/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306
17327767	OHIO	CN	OH-KETTERING-3900 FULTON AVE -LEAK-REPAIR~~	1/6/2020	HDPE		Curb to Meter	33	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$369	\$5.70	\$188	\$4,142	\$1,880	\$6,579	\$369	\$188	\$4,142	\$1,880	\$6,579
17395805	OHIO	DW	OH-DAYTON-55 PIONEER ~~RENEW SERVICE	3/12/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718
17836820	OHIO	CN	OH-CENTERVILLE-6500 CLYO RD ~~ RENEW GAS SERVICE AND BRING METER TO	6/25/2020	HDPE	2.00 INCH	Main to Meter - Over 200 feet	344	\$2.96	\$1,017	\$0.64	\$221	\$3,169	\$1,763	\$6,169	\$7.53	\$2,589	\$1.63	\$562	\$1,536	\$1,875	\$6,562	\$3,606	\$782	\$4,705	\$3,637	\$12,731
17917398	OHIO	CN	OH-GERMANTOWN-6 S WALNUT ST -LEAK-REPAIR~~	7/29/2020	HDPE		Curb to Meter	38	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$425	\$5.70	\$217	\$4,142	\$1,913	\$6,697	\$425	\$217	\$4,142	\$1,913	\$6,697
16909451	OHIO	CN	OH-DAYTON-1440 SPRING FALLS CIR ~~RESZG	3/11/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17562097	OHIO	CN	OH-WEST CARROLLTON-6 E MAIN ST -LEAK-REPAIR~~ -LEAK-REPAIR	3/10/2020	HDPE		Curb to Meter	7	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17817166	OHIO	CN	OH-KETTERING-2517 CLARENDON DR -LEAK-REPAIR~~	6/4/2020	HDPE		Main to Meter - Under 200 feet	1																			

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation																													
										Totals (\$000s):					\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282
										Main to Curb (Non-Incremental)							Curb to Meter (Incremental)							Grand Total (Main to Curb + Curb to Meter)					
										Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length																					
18147045	OHIO	DW	OH-DAYTON-1437 KIPLING DR -LEAK-REPAIR~~	10/7/2020	HDPE		Main to Meter - Under 200 feet	76		\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306	
18124355	OHIO	WC	OH-WILMINGTON-88 LIBRARY AVE -LEAK-REPAIR~~	10/22/2020	HDPE		Main to Meter - Under 200 feet	31		\$2.96	\$92	\$1.60	\$50	\$3,169	\$1,324	\$4,634	\$7.53	\$233	\$4.07	\$126	\$1,536	\$758	\$2,654	\$325	\$176	\$4,705	\$2,082	\$7,289	
17339988	OHIO	CN	OH-BELLBROOK-3885 UPPER BELLBROOK DR ---RELOG	3/4/2020	HDPE	1.00 INCH	Main to Meter - Over 200 feet	283		\$2.96	\$836	\$0.64	\$182	\$3,169	\$1,675	\$5,862	\$7.53	\$2,130	\$1.63	\$462	\$1,536	\$1,651	\$5,780	\$2,966	\$644	\$4,705	\$3,326	\$11,641	
18145436	OHIO	DW	OH-DAYTON-15 S HEDGES ST --- SERVICE RENEWAL/ MTR MOVEOUT	10/13/2020	HDPE		Main to Meter - Under 200 feet	41		\$2.96	\$121	\$1.60	\$66	\$3,169	\$1,342	\$4,698	\$7.53	\$309	\$4.07	\$167	\$1,536	\$805	\$2,817	\$430	\$233	\$4,705	\$2,147	\$7,515	
17502934	OHIO	TR	OH-SIDNEY-112 TWINBROOK PL --- REPLACE CURBSTOP	2/22/2020	HDPE		Main to Curb	2		Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17925333	OHIO	WC	OH-WASHINGTON COURT HOUSE-146 FAIRVIEW AVE -LEAK-REPAIR~~	10/9/2020	HDPE		Main to Meter - Under 200 feet	81		\$2.96	\$239	\$1.60	\$130	\$3,169	\$1,415	\$4,953	\$7.53	\$610	\$4.07	\$330	\$1,536	\$990	\$3,466	\$849	\$459	\$4,705	\$2,406	\$8,419	
18172053	OHIO	CN	OH-DAYTON-735 BOWEN ST -LEAK-REPAIR~~ -LEAK-REPAIR	10/18/2020	HDPE		Main to Meter - Under 200 feet	0		\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
18139932	OHIO	CN	OH-DAYTON-5450 WOODBRIDGE LN --- RENEW SERVICE NEXT 10 DAYS MTR IN W	10/12/2020	HDPE		Main to Meter - Under 200 feet	52		\$2.96	\$154	\$1.60	\$83	\$3,169	\$1,362	\$4,768	\$7.53	\$391	\$4.07	\$212	\$1,536	\$856	\$2,995	\$545	\$295	\$4,705	\$2,218	\$7,764	
17454115	OHIO	WC	OH-WASHINGTON COURT HOUSE-731 MCLEAN ST -LEAK-REPAIR~~	3/16/2020	HDPE		Main to Meter - Under 200 feet	100		\$2.96	\$296	\$1.60	\$160	\$3,169	\$1,450	\$5,074	\$7.53	\$753	\$4.07	\$407	\$1,536	\$1,078	\$3,775	\$1,048	\$567	\$4,705	\$2,528	\$8,849	
17910742	OHIO	CN	OH-DAYTON-2724 ENTERPRISE AVE --- RUN NEW SERV AND HOOK INTO 2"MPP	7/6/2020	HDPE		Main to Meter - Under 200 feet	45		\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605	
17706632	OHIO	WC	OH-WASHINGTON COURT HOUSE-1236 ROBINSON RD SE-LEAK-REPAIR~~ -LEAK-REPAIR	4/27/2020	HDPE		Main to Meter - Under 200 feet	0		\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17837245	OHIO	TR	OH-TROY-606 N MARKET ST -LEAK-REPAIR~~ -LEAK-REPAIR	6/16/2020	HDPE		Curb to Meter	2		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847	
17712029	OHIO	DW	OH-FARMERSVILLE-102 ASHBROOK TRL ---RESZG	6/18/2020	HDPE	1.25 INCH	Meter Set Replacement	0		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18080128	OHIO	DW	OH-DAYTON-2401 OTTELLO AVE -LEAK-REPAIR~~ -LEAK-REPAIR	9/1/2020	HDPE		Curb to Meter	2		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847	
18159112	OHIO	DW	OH-DAYTON-2915 LINDALE AVE --- SERVICE CORRODED COMING THROUGH WAL	10/19/2020	MDPE		Main to Meter - Under 200 feet	67		\$2.96	\$198	\$1.60	\$107	\$3,169	\$1,390	\$4,864	\$7.53	\$504	\$4.07	\$273	\$1,536	\$925	\$3,239	\$702	\$380	\$4,705	\$2,315	\$8,103	
18190752	OHIO	DW	OH-TROTWOOD-616 BRADFIELD DR -LEAK-REPAIR~~	11/10/2020	HDPE		Main to Meter - Under 200 feet	61		\$2.96	\$180	\$1.60	\$98	\$3,169	\$1,379	\$4,826	\$7.53	\$459	\$4.07	\$248	\$1,536	\$988	\$3,141	\$639	\$346	\$4,705	\$2,276	\$7,967	
18249480	OHIO	DW	OH-DAYTON-790 HORRELL -LEAK-REPAIR~~	11/30/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	17		\$2.96	\$50	\$1.60	\$27	\$3,169	\$1,299	\$4,545	\$7.53	\$128	\$4.07	\$69	\$1,536	\$693	\$2,427	\$178	\$96	\$4,705	\$1,992	\$6,972	
17528184	OHIO	CN	OH-KETTERING-1031 GARDNER RD -LEAK-REPAIR~~	3/6/2020	HDPE		Main to Meter - Under 200 feet	60		\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944	
17693693	OHIO	BF	OH-BELLEFONTAINE-606 HILLTOP AVE -LEAK-REPAIR~~	4/20/2020	HDPE		Main to Meter - Under 200 feet	6		\$2.96	\$18	\$1.60	\$10	\$3,169	\$1,279	\$4,475	\$7.53	\$45	\$4.07	\$24	\$1,536	\$642	\$2,248	\$63	\$34	\$4,705	\$1,921	\$6,723	
18148833	OHIO	WC	OH-WILMINGTON-1268 ROMBACH AVE -LEAK-REPAIR~~	10/8/2020	HDPE		Curb to Meter	11		\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$123	\$5.70	\$63	\$4,142	\$1,731	\$6,059	\$123	\$63	\$4,142	\$1,731	\$6,059	
18174970	OHIO	CN	OH-DAYTON-4708 SILVERWOOD DRIVE -LEAK-REPAIR~~	10/21/2020	HDPE		Main to Meter - Under 200 feet	96		\$2.96	\$284	\$1.60	\$154	\$3,169	\$1,443	\$5,049	\$7.53	\$722	\$4.07	\$391	\$1,536	\$1,060	\$3,710	\$1,006	\$545	\$4,705	\$2,502	\$8,759	
18114418	OHIO	CN	OH-DAYTON-2319 SOUTHLEA DRIVE -LEAK-REPAIR~~	9/28/2020	HDPE		Main to Meter - Under 200 feet	128		\$2.96	\$378	\$1.60	\$205	\$3,169	\$1,501	\$5,253	\$7.53	\$963	\$4.07	\$521	\$1,536	\$1,208	\$4,229	\$1,342	\$726	\$4,705	\$2,709	\$9,482	
17416934	OHIO	CN	OH-MIAMISBURG-803 E SYCAMORE ST ---RENEW SERVICE	3/6/2020	HDPE		Main to Meter - Under 200 feet	25		\$2.96	\$74	\$1.60	\$40	\$3,169	\$1,313	\$4,596	\$7.53	\$188	\$4.07	\$102	\$1,536	\$731	\$2,557	\$262	\$142	\$4,705	\$2,044	\$7,153	
18029063	OHIO	DW	OH-DAYTON-558 ELM GROVE DR -LEAK-REPAIR~~	8/20/2020	HDPE		Main to Meter - Under 200 feet	55		\$2.96	\$163	\$1.60	\$98	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831	
17976769	OHIO	FA	OH-FAIRBORN-1635 STEWART BLVD ---RELOG	8/28/2020	HDPE		Main to Meter - Under 200 feet	78		\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$4,442	\$818	\$442	\$4,705	\$2,386	\$8,352	
17202148	OHIO	CN	OH-DAYTON-2001 FAR HILLS AVE ---RELO	6/30/2020	HDPE		Main to Meter - Under 200 feet	131		\$2.96	\$387	\$1.60	\$210	\$3,169	\$1,506	\$5,272	\$7.53	\$986	\$4.07	\$534	\$1,536	\$1,222	\$4,278	\$1,373	\$743	\$4,705	\$2,729	\$9,550	
17748333	OHIO	DW	OH-DAYTON-6725 PETERS PIKE --- SERVICE RENEWAL	5/20/2020	HDPE		Main to Meter - Under 200 feet	186		\$2.96	\$550	\$1.60	\$298	\$3,169	\$1,607	\$5,623	\$7.53	\$1,400	\$4.07	\$758	\$1,536	\$1,477	\$5,171	\$1,949	\$1,055	\$4,705	\$3,084	\$10,794	
16397625	OHIO	FA	OH-NEW CARLISLE-603 W WASHINGTON ST -LEAK-REPAIR~~	2/11/2020	HDPE		Main to Meter - Under 200 feet	60		\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944	
17421422	OHIO	DW	OH-DAYTON-4506 OAKRIDGE DR --- SERVICE FULL OF WATER, 2ND TIME IN A WEI	2/11/2020	HDPE		Main to Meter - Under 200 feet	80		\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397	
18083770	OHIO	FA	OH-DAYTON-5067 NORMAN BLVD -LEAK-REPAIR~~	9/4/2020	HDPE		Main to Meter - Under 200 feet	33		\$2.96	\$98	\$1.60	\$53	\$3,169	\$1,328	\$4,647	\$7.53	\$248	\$4.07	\$134	\$1,536	\$768	\$2,687	\$346	\$187	\$4,705	\$2,095	\$7,334	
18194091	OHIO	CN	OH-DAYTON-2696 CORLINGTON DR ---RELOG	12/10/2020	HDPE		Main to Meter - Under 200 feet	89		\$2.96	\$263	\$1.60	\$142	\$3,169	\$1,430	\$5,004	\$7.53	\$670	\$4.07	\$362	\$1,536	\$1,027	\$3,596	\$933	\$505	\$4,705	\$2,457	\$8,600	
17822983	OHIO	TR	OH-PIQUA-8590 N HETZLER RD APT A---REPLACE SERVICE	8/12/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	60		\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944	
17646129	OHIO	CN	OH-CENTERVILLE-890 S MAIN ST ---RESZ	8/20/2020	HDPE		Meter Set Replacement	0		\$0.00	\$0																		

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):								\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282					
								Main to Curb (Non-Incremental)						Curb to Meter (Incremental)						Grand Total (Main to Curb + Curb to Meter)							
								Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length																			
18035174	OHIO	CN	OH-WAYNESVILLE-6413 TRILLIUM RUN -LEAK-REPAIR~~	8/20/2020	MDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894	
17963918	OHIO	CN	OH-DAYTON-1216 S PAUL LAURENCE DUNBAR ST HSMTR ~~RESZG	10/7/2020	MDPE	1.00 INCH	Main to Meter - Under 200 feet	18	\$2.96	\$53	\$1.60	\$29	\$3,169	\$1,300	\$4,551	\$7.53	\$135	\$4.07	\$73	\$1,536	\$698	\$2,443	\$189	\$102	\$4,705	\$1,998	\$6,995
18095918	OHIO	CN	OH-DAYTON-1426 ARBOR AVE -LEAK-REPAIR~~ -LEAK-REPAIR	9/10/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18138402	OHIO	FA	OH-FAIRBORN-1922 CAMPUS -LEAK-REPAIR~~	10/2/2020	HDPE		Curb to Meter	37	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$11.18	\$414	\$5.70	\$211	\$4,142	\$1,907	\$6,674	\$414	\$211	\$4,142	\$1,907	\$6,674	
17562896	OHIO	DW	OH-DAYTON-1840 FIELDSTONE DR -LEAK-REPAIR~~	3/20/2020	MDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306
164489273	OHIO	FA	OH-WILBERFORCE-1230 WILB CLIFTON RD --AMR PROJECT	7/8/2020	HDPE	2.00 INCH	Main to Meter - Under 200 feet	17	\$2.96	\$50	\$1.60	\$27	\$3,169	\$1,299	\$4,545	\$7.53	\$128	\$4.07	\$69	\$1,536	\$693	\$2,427	\$178	\$96	\$4,705	\$1,992	\$6,972
18090027	OHIO	CN	OH-DAYTON-4005 MARICARR DR -LEAK-REPAIR~~	9/9/2020	HDPE		Main to Meter - Under 200 feet	11	\$2.96	\$33	\$1.60	\$18	\$3,169	\$1,288	\$4,507	\$7.53	\$83	\$4.07	\$45	\$1,536	\$666	\$2,330	\$115	\$62	\$4,705	\$1,953	\$6,836
17823109	OHIO	CN	OH-BELLBROOK-2371 BARNETT DR -LEAK-REPAIR~~	6/15/2020	HDPE		Main to Meter - Under 200 feet	93	\$2.96	\$275	\$1.60	\$149	\$3,169	\$1,437	\$5,030	\$7.53	\$700	\$4.07	\$379	\$1,536	\$1,046	\$3,661	\$975	\$528	\$4,705	\$2,483	\$8,691
17510126	OHIO	TR	OH-TROY-1381 COVENT RD -LEAK-REPAIR~~	2/25/2020	HDPE		Main to Meter - Under 200 feet	94	\$2.96	\$278	\$1.60	\$150	\$3,169	\$1,439	\$5,036	\$7.53	\$707	\$4.07	\$383	\$1,536	\$1,051	\$3,677	\$985	\$533	\$4,705	\$2,490	\$8,713
18007071	OHIO	DW	OH-DAYTON-5468 WADSWORTH -LEAK-REPAIR~~	12/10/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
18204907	OHIO	WC	OH-WASHINGTON COURT HOUSE-501 COMFORT LN -LEAK-REPAIR~~	11/10/2020	HDPE		Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171
17321838	OHIO	DW	OH-DAYTON-1024 S SMITHVILLE RD ~~ NEED TAP DUG UP AND FLOW VALVE REPI	2	1/3/2020	STEEL	Main to Curb	2	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
18157112	OHIO	FA	OH-DAYTON-1720 ROCKHURST AVE -LEAK-REPAIR~~	10/14/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306
16990317	OHIO	TR	OH-SIDNEY-1315 GARFIELD AVE -LEAK-REPAIR~~	8/25/2020	HDPE		Main to Meter - Under 200 feet	78	\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$3,417	\$818	\$442	\$4,705	\$2,386	\$8,352
17651058	OHIO	CN	OH-CENTERVILLE-9498 WHISPERING STREAM CT -LEAK-REPAIR~~ -LEAK-REPAIR	4/16/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847	
17927453	OHIO	TR	OH-SIDNEY-517 FAIR RD -LEAK-REPAIR~~	7/16/2020	HDPE		Main to Meter - Under 200 feet	65	\$2.96	\$192	\$1.60	\$104	\$3,169	\$1,386	\$4,851	\$7.53	\$489	\$4.07	\$265	\$1,536	\$916	\$3,206	\$681	\$369	\$4,705	\$2,302	\$8,058
17642687	OHIO	DW	OH-UNION-106 BURGUNDY DR ~~RESZG	7/13/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18098582	OHIO	DW	OH-DAYTON-3107 W RIVERVIEW AVE ~~ CURB VALVE BROKEN IN OFF POSITION	9/13/2020	HDPE		Main to Meter - Under 200 feet	88	\$2.96	\$260	\$1.60	\$141	\$3,169	\$1,428	\$4,998	\$7.53	\$662	\$4.07	\$358	\$1,536	\$1,023	\$3,580	\$922	\$499	\$4,705	\$2,451	\$8,578
18186965	OHIO	CN	OH-DAYTON-2223 JAIME ROSE WAY ~~ GSRPLPS	10/14/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	51	\$2.96	\$151	\$1.60	\$82	\$3,169	\$1,361	\$4,762	\$7.53	\$384	\$4.07	\$208	\$1,536	\$851	\$2,979	\$535	\$289	\$4,705	\$2,212	\$7,741
17732424	OHIO	TR	OH-MINSTER-714 SR-119 -LEAK-REPAIR~~	8/21/2020	MDPE		Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870	
17834416	OHIO	DW	OH-DAYTON-2935 CATALPA DR -LEAK-REPAIR~~	9/2/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18073291	OHIO	TR	OH-TROY-1030 N MARKET ST ~~RESZG	11/13/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18201732	OHIO	FA	OH-KETTERING-8 CHIPPENDALE LN -LEAK-REPAIR~~ -LEAK-REPAIR	11/7/2020	HDPE		Main to Meter - Under 200 feet	22	\$2.96	\$65	\$1.60	\$35	\$3,169	\$1,308	\$4,577	\$7.53	\$166	\$4.07	\$90	\$1,536	\$717	\$2,508	\$231	\$125	\$4,705	\$2,024	\$7,095
18210818	OHIO	CN	OH-DAYTON-566 HARRIET ST --RELOG	11/30/2020	HDPE		Main to Meter - Under 200 feet	79	\$2.96	\$233	\$1.60	\$126	\$3,169	\$1,412	\$4,940	\$7.53	\$595	\$4.07	\$322	\$1,536	\$981	\$3,434	\$928	\$448	\$4,705	\$2,393	\$8,374
18248170	OHIO	CN	OH-DAYTON-1229 S BROADWAY -LEAK-REPAIR~~	12/4/2020	HDPE		Main to Meter - Under 200 feet	59	\$2.96	\$174	\$1.60	\$94	\$3,169	\$1,375	\$4,813	\$7.53	\$444	\$4.07	\$240	\$1,536	\$988	\$3,109	\$818	\$335	\$4,705	\$2,263	\$7,922
17128661	OHIO	DW	OH-DAYTON-2735 KEENAN AVE -LEAK-REPAIR~~	2/7/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17257670	OHIO	CN	OH-DAYTON-6700 GREEN PARK DR ~~RESZG	3/12/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17888886	OHIO	CN	OH-DAYTON-7462 W THIRD ST ~~ GSRPLPS	5/28/2020	STEEL	0.75 INCH	Main to Meter - Under 200 feet	164	\$2.96	\$485	\$1.60	\$262	\$3,169	\$1,566	\$5,482	\$7.53	\$1,234	\$4.07	\$668	\$1,536	\$1,375	\$4,814	\$1,719	\$930	\$4,705	\$2,942	\$10,296
18207017	OHIO	FA	OH-FAIRBORN-10 W DORIS DR -LEAK-REPAIR~~	11/13/2020	HDPE		Main to Meter - Under 200 feet	26	\$2.96	\$77	\$1.60	\$42	\$3,169	\$1,315	\$4,602	\$7.53	\$196	\$4.07	\$106	\$1,536	\$735	\$2,573	\$273	\$147	\$4,705	\$2,050	\$7,176
17399666	OHIO	CN	OH-DAYTON-319 WYOMING ST -LEAK-REPAIR~~	5/5/2020			Main to Curb	0	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
18008686	OHIO	CN	OH-DAYTON-2728 DELLA DR -LEAK-REPAIR~~	8/17/2020	HDPE		Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
18057693	OHIO	FA	OH-XENIA-521 DAYTON XENIA DR ~~RESZG	9/9/2020	HDPE		Main to Meter - Under 200 feet	96	\$2.96	\$284	\$1.60	\$154	\$3,169	\$1,443	\$5,049	\$7.53	\$722	\$4.07	\$391	\$1,536	\$1,060	\$3,710	\$1,006	\$545	\$4,705	\$2,502	\$8,599
18102166	OHIO	TR	OH-SIDNEY-301 E COURT ST ~~RESZG	9/24/2020		1.00 INCH	Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17510006	OHIO	CN	OH-DAYTON-314 TRIANGLE AVE -LEAK-REPAIR~~	2/26/2020	HDPE		Main to Meter - Under 200 feet	71	\$2.96	\$210	\$1.60	\$114	\$3,169	\$1,397	\$4,889	\$7.53	\$534	\$4.07	\$289	\$1,536	\$944	\$3,304	\$744	\$403	\$4,705	\$2,341	\$8,193
17622304	OHIO	WC	OH-NEW HOLLAND-35 ALLEN AVE -LEAK-REPAIR~~	4/1/2020	HDPE		Main to Meter - Under 200 feet	140	\$2.96	\$414	\$1.60	\$224	\$3,169	\$1,523	\$5, <												

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Main to Curb (Non-Incremental)							Curb to Meter (Incremental)							Grand Total (Main to Curb + Curb to Meter)					
									Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
17405301	OHIO	CN	OH-DAYTON-512 W STEWART ST ~~~ RENEW SERV FAILED PDT	2/6/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492	
18195126	OHIO	TR	OH-PIQUA-409 KITT -LEAK-REPAIR~~~	11/5/2020	HDPE		Main to Meter - Under 200 feet	54	\$2.96	\$160	\$1.60	\$86	\$3,169	\$1,366	\$4,781	\$7.53	\$406	\$4.07	\$220	\$1,536	\$865	\$3,028	\$566	\$306	\$4,705	\$2,231	\$7,809	
17732407	OHIO	FA	OH-XENIA-303 YORK ST -LEAK-REPAIR~~~	5/20/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17042588	OHIO	TR	OH-SIDNEY-229 NEW ST -LEAK-REPAIR~~~	5/12/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492	
17508723	OHIO	CN	OH-DAYTON-1709 WAYNE AVE ~~~RESZG	7/9/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17397308	OHIO	TR	OH-GREENVILLE-111 CHESTNUT ~~~ NEXT DAY SERVICE RENEWAL	1/29/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	58	\$2.96	\$171	\$1.60	\$93	\$3,169	\$1,373	\$4,806	\$7.53	\$436	\$4.07	\$236	\$1,536	\$884	\$3,093	\$608	\$329	\$4,705	\$2,257	\$7,899	
17220323	OHIO	CN	OH-KETTERING-2124 REARDON DR -LEAK-REPAIR~~~	2/27/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17152992	OHIO	CN	OH-TROTWOOD-6513 W 3RD ST -LEAK-REPAIR~~~	2/21/2020	HDPE		Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$102	\$3,169	\$1,384	\$4,845	\$7.53	\$482	\$4.07	\$261	\$1,536	\$911	\$3,190	\$671	\$363	\$4,705	\$2,296	\$8,035	
17986040	OHIO	TR	OH-TROY-360 DUKE CT ~~~ RELOCATE SERVICE	7/27/2020	HDPE		Curb to Meter	46	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$514	\$5.70	\$262	\$4,142	\$1,968	\$6,886	\$514	\$262	\$4,142	\$1,968	\$6,886	
17781512	OHIO	CN	OH-DAYTON-5009 ROLLING WOODS TRL ~~~RESZG	10/9/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18062507	OHIO	WC	OH-JEFFERSONVILLE-18 JANES ~~~ *10 DAY SERVICE RENEWAL	9/16/2020	HDPE		Main to Meter - Under 200 feet	46	\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$828	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628	
17547991	OHIO	FA	OH-DAYTON-3766 DAYTON XENIA RD ~~~RESZG	6/23/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397	
17644205	OHIO	FA	OH-DAYTON-3269 INDIAN RIPPLE RD ~~~RESZG	5/5/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17925528	OHIO	CN	OH-DAYTON-4818 WEST HILLCREST AVENUE -LEAK-REPAIR~~~	7/15/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306	
16453212	OHIO	WC	OH-WASHINGTON COURT HOUSE-3323 US RT 22 ~~~AMR PROJECT	2/6/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17715668	OHIO	BF	OH-LAKEVIEW-8795 CHAUTAUQUA BLVD ~~~ SERVICE RENEWAL	4/13/2020	HDPE		Main to Meter - Under 200 feet	115	\$2.96	\$340	\$1.60	\$184	\$3,169	\$1,477	\$5,170	\$7.53	\$865	\$4.07	\$468	\$1,536	\$1,148	\$4,018	\$1,205	\$652	\$4,705	\$2,625	\$9,188	
17800682	OHIO	TR	OH-SIDNEY-1402 N MAIN -LEAK-REPAIR~~~	5/23/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718	
14825400	OHIO	CN	OH-DAYTON-2915 TUBMAN AVE ~~~ RISER INSIDE WALL	7/13/2020	MDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306	
17931155	OHIO	TR	OH-TROY-110 ASH ST UNIT A~~~RESZG	10/20/2020	HDPE	2.00 INCH	Main to Meter - Over 200 feet	235	\$2.96	\$695	\$0.64	\$151	\$3,169	\$1,606	\$5,620	\$7.53	\$1,768	\$1.63	\$384	\$1,536	\$1,475	\$5,164	\$2,463	\$534	\$4,705	\$3,081	\$10,784	
18313182	OHIO	DW	OH-DAYTON-7301 POE AVE -LEAK-REPAIR~~~ -LEAK-REPAIR	12/22/2020	HDPE		Main to Meter - Under 200 feet	1	\$2.96	\$3	\$1.60	\$2	\$3,169	\$1,269	\$4,443	\$7.53	\$8	\$4.07	\$4	\$1,536	\$619	\$2,167	\$10	\$6	\$4,705	\$1,889	\$6,610	
17637208	OHIO	TR	OH-MINSTER-6 N MAIN ST ~~~RELOG	11/16/2020	HDPE	1.00 INCH	Curb to Meter	10	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$112	\$5.70	\$57	\$4,142	\$1,724	\$6,036	\$112	\$57	\$4,142	\$1,724	\$6,036	
17827471	OHIO	CN	OH-KETTERING-2205 S SMITHVILLE RD ~~~RESZG	12/10/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18250271	OHIO	CN	OH-BELLBROOK-3572 CATALPA VIEW WAY ~~~ RELOCATE SERVICE	11/17/2020	HDPE		Main to Meter - Under 200 feet	20	\$2.96	\$59	\$1.60	\$32	\$3,169	\$1,304	\$4,564	\$7.53	\$151	\$4.07	\$81	\$1,536	\$707	\$2,476	\$210	\$113	\$4,705	\$2,011	\$7,040	
17620908	OHIO	DW	OH-DAYTON-816 WALTON -LEAK-REPAIR~~~	3/31/2020	HDPE		Curb to Meter	40	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$447	\$5.70	\$228	\$4,142	\$1,927	\$6,744	\$447	\$228	\$4,142	\$1,927	\$6,744	
17775699	OHIO	CN	OH-DAYTON-608 ST JOSEPH ST ~~~ RUN NEW SERVICE OF 2"MP	5/20/2020	HDPE		Main to Meter - Under 200 feet	37	\$2.96	\$109	\$1.60	\$59	\$3,169	\$1,335	\$4,673	\$7.53	\$278	\$4.07	\$151	\$1,536	\$786	\$2,752	\$338	\$210	\$4,705	\$2,121	\$7,424	
17317798	OHIO	DW	OH-DAYTON-4015 KEATS DR -LEAK-REPAIR~~~	1/3/2020	HDPE		Main to Meter - Under 200 feet	52	\$2.96	\$154	\$1.60	\$83	\$3,169	\$1,362	\$4,768	\$7.53	\$391	\$4.07	\$212	\$1,536	\$856	\$2,995	\$545	\$295	\$4,705	\$2,218	\$7,764	
17337809	OHIO	TR	OH-FORT LORAMIE-60 ELM -LEAK-REPAIR~~~	3/5/2020	HDPE		Main to Meter - Under 200 feet	144	\$2.96	\$426	\$1.60	\$230	\$3,169	\$1,530	\$5,355	\$7.53	\$1,084	\$4.07	\$586	\$1,536	\$1,283	\$4,489	\$1,509	\$817	\$4,705	\$2,813	\$9,844	
17415012	OHIO	DW	OH-WEST ALEXANDRIA-73 E 3RD ST -LEAK-REPAIR~~~	6/18/2020	STEEL	1.25 INCH	Main to Meter - Under 200 feet	30	\$2.96	\$89	\$1.60	\$48	\$3,169	\$1,322	\$4,628	\$7.53	\$226	\$4.07	\$122	\$1,536	\$754	\$2,638	\$314	\$170	\$4,705	\$2,076	\$7,266	
17262742	OHIO	FA	OH-FAIRBORN-108 OAKWOOD AVE -LEAK-REPAIR~~~	7/8/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718	
17401272	OHIO	CN	OH-DAYTON-1203 IRVING AVE -LEAK-REPAIR~~~	2/3/2020	HDPE		Curb to Meter	40	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$447	\$5.70	\$228	\$4,142	\$1,927	\$6,744	\$447	\$228	\$4,142	\$1,927	\$6,744	
17517514	OHIO	TR	OH-COVINGTON-204 E FOUNTAIN ~~~ NO GAS	2/27/2020		1.00 INCH	Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17712795	OHIO	CN	OH-DAYTON-1053 MORSE AVE -LEAK-REPAIR~~~	5/1/2020	HDPE		Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944	
17193750	OHIO	DW	OH-DAYTON-76 VICTORY DR -LEAK-REPAIR~~~	7/1/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17614223	OHIO	CN	OH-DAYTON-2224 FAUVER AVE -LEAK-REPAIR~~~	3/26/2020	HDPE		Main to Meter - Under 200 feet	62	\$2.96	\$183	\$1.60	\$99	\$3,169	\$1,381	\$4,832	\$7.53	\$467	\$4.07	\$253	\$1,536	\$902	\$3,158	\$650	\$352	\$4,705	\$2,283	\$7,990	
18183481	OHIO	DW	OH-DAYTON-3700 E FOURTH ~~~ WATER IN SVC. 2 DAY RENEWAL & MOVEOUT	10/30/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397	
18099390	OHIO	FA	OH-KETTERING-3537 GLASER DR -LEAK-REPAIR~~~ -LEAK-REPAIR	9/14/2020	HDPE		Main to Curb	3	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
18162288	OHIO	CN	OH-DAYTON-744 WILMINGTON AVE -LEAK-REPAIR~~~	10/16/2020	HDPE		Main to Meter - Under 200 feet	57	\$2.96	\$168	\$1.60	\$91	\$3,169	\$1,371	\$4,800	\$7.53	\$429	\$4.07	\$232	\$1,536	\$879	\$3,077	\$597	\$323	\$4,705	\$2,250	\$7,877	
18145028	OHIO	FA	OH-KETTERING-3445 OAKMONT AVE -LEAK-REPAIR~~~	10/7/2020	HDPE		Main to Meter - Under 200 feet	111	\$2.96	\$328	\$1.60	\$1																

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation																											
Totals (\$000s):									\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282				
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Main to Curb (Non-Incremental)						Curb to Meter (Incremental)						Grand Total (Main to Curb + Curb to Meter)						
									Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
17922737	OHIO	FA	OH-XENIA-1078 TRIANON DR -LEAK-REPAIR~~	7/24/2020	HDPE		Main to Meter - Under 200 feet	101	\$2.96	\$299	\$1.60	\$162	\$3,169	\$1,452	\$5,081	\$7.53	\$760	\$4.07	\$411	\$1,536	\$1,083	\$3,791	\$1,059	\$573	\$4,705	\$2,535	\$8,872
17903028	OHIO	DW	OH-DAYTON-1932 SOUTH SUNNY RIDGE RD -LEAK-REPAIR~~	7/7/2020	HDPE		Curb to Meter	49	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$548	\$5.70	\$279	\$4,142	\$1,988	\$6,957	\$548	\$279	\$4,142	\$1,988	\$6,957
18036346	OHIO	FA	OH-NEW CARLISLE-215 FENWICK DR -LEAK-REPAIR~~	8/21/2020	HDPE		Main to Meter - Under 200 feet	57	\$2.96	\$168	\$1.60	\$91	\$3,169	\$1,371	\$4,800	\$7.53	\$429	\$4.07	\$232	\$1,536	\$879	\$3,077	\$597	\$323	\$4,705	\$2,250	\$7,877
17336158	OHIO	CN	OH-KETTERING-634 WILTSHIRE BLVD ~~~ RETIRE OLD TAP RE-ROUTE SER,MAKE N	1/14/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17715598	OHIO	TR	OH-PIQUA-321 N DOWNING ST -LEAK-REPAIR~~ -LEAK-REPAIR	5/4/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847
18206289	OHIO	TR	OH-VERSAILLES-139 E WARD -LEAK-REPAIR~~	11/12/2020	HDPE		Main to Meter - Under 200 feet	104	\$2.96	\$307	\$1.60	\$166	\$3,169	\$1,457	\$5,100	\$7.53	\$783	\$4.07	\$424	\$1,536	\$1,097	\$3,840	\$1,090	\$590	\$4,705	\$2,554	\$8,940
17894579	OHIO	TR	OH-WEST MILTON-43 WAGNER RD ~~~RELOG	7/29/2020	HDPE		Main to Meter - Under 200 feet	78	\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$3,417	\$818	\$442	\$4,705	\$2,386	\$8,352
18004618	OHIO	FA	OH-DAYTON-750 E DOROTHY LN ~~~ NEXT DAY SERVICE RENEW	8/12/2020	HDPE		Main to Meter - Under 200 feet	26	\$2.96	\$77	\$1.60	\$42	\$3,169	\$1,315	\$4,602	\$7.53	\$196	\$4.07	\$106	\$1,536	\$735	\$2,573	\$273	\$147	\$4,705	\$2,050	\$7,176
18210996	OHIO	WC	OH-WASHINGTON COURT HOUSE-1007 LEESBURG AVE -LEAK-REPAIR~~	11/17/2020	HDPE		Main to Meter - Under 200 feet	85	\$2.96	\$251	\$1.60	\$136	\$3,169	\$1,422	\$4,979	\$7.53	\$640	\$4.07	\$346	\$1,536	\$1,009	\$3,531	\$891	\$482	\$4,705	\$2,431	\$8,510
17327168	OHIO	TR	OH-PIQUA-416 VIRGINIA ST -LEAK-REPAIR~~	1/6/2020	HDPE		Main to Meter - Under 200 feet	5	\$2.96	\$15	\$1.60	\$8	\$3,169	\$1,277	\$4,469	\$7.53	\$38	\$4.07	\$20	\$1,536	\$638	\$2,232	\$52	\$28	\$4,705	\$1,914	\$6,701
17419673	OHIO	TR	OH-TIPP CITY-216 GINGHAMSBURG RD -LEAK-REPAIR~~	6/3/2020	HDPE		Main to Curb	2	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17728082	OHIO	TR	OH-MINSTER-197 W FIRST ST -LEAK-REPAIR~~	5/28/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	46	\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$828	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628
18143276	OHIO	FA	OH-DAYTON-1910 FARMSIDE DR -LEAK-REPAIR~~	10/6/2020	HDPE		Curb to Meter	37	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$414	\$5.70	\$211	\$4,142	\$1,907	\$6,674	\$414	\$211	\$4,142	\$1,907	\$6,674
17203150	OHIO	CN	OH-DAYTON-2199 NORWAY DR -LEAK-REPAIR~~	9/8/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492
18101809	OHIO	DW	OH-NEW LEBANON-238 S CHURCH ST -LEAK-REPAIR~~	9/16/2020	HDPE		Main to Curb	131	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
18159524	OHIO	DW	OH-BROOKVILLE-524 VINE ST -LEAK-REPAIR~~	10/15/2020	HDPE		Curb to Meter	43	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$481	\$5.70	\$245	\$4,142	\$1,947	\$6,815	\$481	\$245	\$4,142	\$1,947	\$6,815
17464721	OHIO	DW	OH-DAYTON-731 ELEANOR RD -LEAK-REPAIR~~	6/12/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
12301419	OHIO	BF	OH-HUNTSVILLE-10594 BUCKEYE DR ~~~12301419	7/20/2020	HDPE		Main to Meter - Under 200 feet	30	\$2.96	\$89	\$1.60	\$48	\$3,169	\$1,322	\$4,628	\$7.53	\$226	\$4.07	\$122	\$1,536	\$754	\$2,638	\$314	\$170	\$4,705	\$2,076	\$7,266
17827159	OHIO	DW	OH-DAYTON-2400 YOLANDA DR -LEAK-REPAIR~~	6/18/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894
18010825	OHIO	CN	OH-BELLBROOK-1733 KENSINGTON DR -LEAK-REPAIR~~	8/14/2020	HDPE		Main to Meter - Under 200 feet	83	\$2.96	\$245	\$1.60	\$133	\$3,169	\$1,419	\$4,966	\$7.53	\$625	\$4.07	\$338	\$1,536	\$1,000	\$3,499	\$870	\$471	\$4,705	\$2,418	\$8,465
18309845	OHIO	CN	OH-MORAINNE-6760 ROSEZITA LN -LEAK-REPAIR~~ -LEAK-REPAIR	12/22/2020	HDPE		Main to Curb	2	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17270779	OHIO	CN	OH-KETTERING-5136 CROFTSHIRE DR -LEAK-REPAIR~~	6/15/2020	HDPE		Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171
17417291	OHIO	DW	OH-DAYTON-1970 ARLENE AVE -LEAK-REPAIR~~	2/7/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18098673	OHIO	DW	OH-DAYTON-4023 W THIRD ST -LEAK-REPAIR~~	9/14/2020	HDPE		Curb to Meter	10	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$112	\$5.70	\$57	\$4,142	\$1,724	\$6,036	\$112	\$57	\$4,142	\$1,724	\$6,036
18284598	OHIO	DW	OH-DAYTON-121 KNECHT DR -LEAK-REPAIR~~	12/18/2020	HDPE		Main to Meter - Under 200 feet	43	\$2.96	\$127	\$1.60	\$69	\$3,169	\$1,346	\$4,711	\$7.53	\$324	\$4.07	\$175	\$1,536	\$814	\$2,849	\$451	\$244	\$4,705	\$2,160	\$7,560
17889839	OHIO	DW	OH-DAYTON-5620 HONEYLEAF WAY -LEAK-REPAIR~~ -LEAK-REPAIR	6/23/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17992121	OHIO	FA	OH-DAYTON-1431 WHEATLAND AVE -LEAK-REPAIR~~	8/4/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397
17695005	OHIO	TR	OH-PIQUA-112 N MAIN ST ~~~RELOG	10/12/2020	HDPE		Main to Meter - Under 200 feet	112	\$2.96	\$331	\$1.60	\$179	\$3,169	\$1,472	\$5,151	\$7.53	\$843	\$4.07	\$456	\$1,536	\$1,134	\$3,970	\$1,174	\$635	\$4,705	\$2,606	\$9,120
18191745	OHIO	CN	OH-CENTERVILLE-8151 LONGCREEK DR -LEAK-REPAIR~~ -LEAK-REPAIR	11/1/2020	HDPE		Curb to Meter	5	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$56	\$5.70	\$28	\$4,142	\$1,691	\$5,917	\$56	\$28	\$4,142	\$1,691	\$5,917
17634977	OHIO	CN	OH-KETTERING-4420 OVERLAND TRL ~~~RESZG	10/22/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17998082	OHIO	DW	OH-DAYTON-2341 CADIE AVE -LEAK-REPAIR~~	8/12/2020	OTHER		Main to Meter - Under 200 feet	1	\$2.96	\$3	\$1.60	\$2	\$3,169	\$1,269	\$4,443	\$7.53	\$8	\$4.07	\$4	\$1,536	\$619	\$2,167	\$10	\$6	\$4,705	\$1,889	\$6,610
18193157	OHIO	CN	OH-CENTERVILLE-95 LOOP RD ~~~RESZG	12/10/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17537275	OHIO	TR	OH-TROY-2603 ST ANDREWS DR -LEAK-REPAIR~~	9/9/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17502902	OHIO	DW	OH-DAYTON 527 HERBERT APT A-RESZG	4/22/2020	HDPE		Main to Curb	30	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
18271313	OHIO	CN	OH-DAYTON-3405 WAYNE AVE ~~~ RENEW FROM CURB TO HW /CHECK OUT OFF S	12/17/2020			Curb to Meter	0	\$0</																		

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

										Main to Curb (Non-Incremental)										Curb to Meter (Incremental)						Grand Total (Main to Curb + Curb to Meter)				
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs			
17964381	OHIO	DW	OH-DAYTON-844 HILLROSE -LEAK-REPAIR---	7/20/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588			
17219084	OHIO	BF	OH-LAKEVIEW-280 S MAIN ST -LEAK-REPAIR---	2/6/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588			
17966662	OHIO	CN	OH-BELLBROOK-502 S ALPHA BELL RD ---RESZG	9/26/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512			
18202102	OHIO	CN	OH-DAYTON-2854 S GETTYSBURG AVE ---RESZG	12/4/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512			
18181631	OHIO	CN	OH-DAYTON-1800 ROSLYN AVE -LEAK-REPAIR---	12/17/2020 HDPE			Main to Meter - Under 200 feet	127	\$2.96	\$375	\$1.60	\$203	\$3,169	\$1,499	\$5,247	\$7.53	\$956	\$4.07	\$517	\$1,536	\$1,204	\$4,213	\$1,331	\$720	\$4,705	\$2,703	\$9,460			
18206246	OHIO	WC	OH-GREENFIELD-236 JEFFERSON ST ---RESZG	12/11/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512			
17977628	OHIO	FA	OH-BEAVERCREEK-2690 GREENE HILLS DR -LEAK-REPAIR---	7/27/2020 HDPE			Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870			
17994483	OHIO	CN	OH-DAYTON-820 LARRIWOOD AVE -LEAK-REPAIR---	8/6/2020 HDPE			Curb to Meter	6	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$67	\$5.70	\$34	\$4,142	\$1,697	\$5,941	\$67	\$34	\$4,142	\$1,697	\$5,941			
17634415	OHIO	DW	OH-DAYTON-4156 GLENBROOK DR ---RENEW SERVICE	4/20/2020 HDPE			Main to Meter - Under 200 feet	42	\$2.96	\$124	\$1.60	\$67	\$3,169	\$1,344	\$4,704	\$7.53	\$316	\$4.07	\$171	\$1,536	\$809	\$2,833	\$440	\$238	\$4,705	\$2,154	\$7,537			
17614213	OHIO	TR	OH-TIPP CITY-18 KILGORE BLVD --- SERVICE RENEWAL	7/29/2020 HDPE			Main to Curb	69	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724			
17067148	OHIO	FA	OH-XENIA-1395 BOTTO DR -LEAK-REPAIR---	1/14/2020 HDPE			Main to Meter - Under 200 feet	37	\$2.96	\$109	\$1.60	\$59	\$3,169	\$1,335	\$4,673	\$7.53	\$278	\$4.07	\$151	\$1,536	\$786	\$2,752	\$388	\$210	\$4,705	\$2,121	\$7,424			
18172051	OHIO	CN	OH-DAYTON-732 BOWEN ST --- MOVE MTR OUT USE NEW MAIN BY BSCI RETIRE C	10/20/2020		1.00 INCH	Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588			
18060608	OHIO	WC	OH-WASHINGTON COURT HOUSE-659 WARREN AVE -LEAK-REPAIR---	8/26/2020 HDPE			Main to Meter - Under 200 feet	75	\$2.96	\$222	\$1.60	\$120	\$3,169	\$1,404	\$4,915	\$7.53	\$564	\$4.07	\$305	\$1,536	\$963	\$3,369	\$786	\$425	\$4,705	\$2,367	\$8,284			
17421689	OHIO	CN	OH-DAYTON-305 SMITH ST --- SERV FAILED PDT RENEW	2/19/2020 HDPE			Main to Meter - Under 200 feet	79	\$2.96	\$233	\$1.60	\$126	\$3,169	\$1,412	\$4,940	\$7.53	\$595	\$4.07	\$322	\$1,536	\$981	\$3,434	\$828	\$448	\$4,705	\$2,393	\$8,374			
17518524	OHIO	FA	OH-DAYTON-1965 AMY'S RIDGE CT ---RESZG	4/22/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512			
17835984	OHIO	DW	OH-DAYTON-1221 CUMBERLAND AVENUE -LEAK-REPAIR---	6/16/2020 HDPE			Main to Meter - Under 200 feet	79	\$2.96	\$233	\$1.60	\$126	\$3,169	\$1,412	\$4,940	\$7.53	\$595	\$4.07	\$322	\$1,536	\$981	\$3,434	\$828	\$448	\$4,705	\$2,393	\$8,374			
17037065	OHIO	FA	OH-BEAVERCREEK-4100 COLONEL GLENN HWY -LEAK-REPAIR---	6/24/2020 MDPE		1.00 INCH	Main to Meter - Under 200 feet	10	\$2.96	\$30	\$1.60	\$16	\$3,169	\$1,286	\$4,500	\$7.53	\$75	\$4.07	\$41	\$1,536	\$661	\$2,313	\$105	\$57	\$4,705	\$1,947	\$6,814			
16676961	OHIO	FA	OH-CDARVILL-91 N MAIN ST -LEAK-REPAIR---	3/5/2020 HDPE			Main to Curb	2	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724			
17465390	OHIO	DW	OH-NEW LEBANON-14777 EATON PIKE -LEAK-REPAIR---	3/5/2020 STEEL		1.00 INCH	Main to Meter - Under 200 feet	26	\$2.96	\$77	\$1.60	\$42	\$3,169	\$1,315	\$4,602	\$7.53	\$196	\$4.07	\$106	\$1,536	\$735	\$2,573	\$273	\$147	\$4,705	\$2,050	\$7,176			
16918119	OHIO	DW	OH-VANDALIA-6756 TRIMDELL LN -LEAK-REPAIR---	7/29/2020 HDPE			Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894			
11104436	OHIO	DW	OH-DAYTON-7611 N MAIN --- SERVICE REPLACEMENT FOR CORROSION	7/28/2020 HDPE			Main to Meter - Under 200 feet	110	\$2.96	\$325	\$1.60	\$176	\$3,169	\$1,468	\$5,138	\$7.53	\$828	\$4.07	\$448	\$1,536	\$1,125	\$3,937	\$1,153	\$624	\$4,705	\$2,593	\$9,075			
18089694	OHIO	WC	OH-WILMINGTON-109 GARDEN CIR ---RELOG	9/30/2020 HDPE			Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944			
18246080	OHIO	CN	OH-CENTERVILLE-1416 QUAKER WAY --- SERVICE TIE OVER	1/12/2020 HDPE		1.00 INCH	Main to Meter - Under 200 feet	4	\$2.96	\$12	\$1.60	\$6	\$3,169	\$1,275	\$4,462	\$7.53	\$30	\$4.07	\$16	\$1,536	\$633	\$2,216	\$42	\$23	\$4,705	\$1,908	\$6,678			
17643236	OHIO	BF	OH-LAKEVIEW-10037 TWP RD 253 --- RENEW SERVICE AFTER HIT	4/15/2020 HDPE			Main to Meter - Over 200 feet	225	\$2.96	\$665	\$0.64	\$144	\$3,169	\$1,591	\$5,570	\$7.53	\$1,693	\$1.63	\$367	\$1,536	\$1,439	\$5,036	\$2,358	\$512	\$4,705	\$3,030	\$10,606			
17694716	OHIO	DW	OH-DAYTON-107 CROWN AVE -LEAK-REPAIR---	4/20/2020 HDPE			Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870			
17994096	OHIO	DW	OH-DAYTON-261 N DELMAR --- SERVICE RENEWAL MTR MOVE OUT	8/6/2020 MDPE		1.00 INCH	Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306			
18197955	OHIO	CN	OH-DAYTON-2349 WYMORE PLACE -LEAK-REPAIR---	11/6/2020 HDPE			Main to Meter - Under 200 feet	115	\$2.96	\$340	\$1.60	\$184	\$3,169	\$1,477	\$5,170	\$7.53	\$865	\$4.07	\$468	\$1,536	\$1,148	\$4,018	\$1,205	\$652	\$4,705	\$2,625	\$9,188			
18194631	OHIO	FA	OH-XENIA-178 HIGH ST -LEAK-REPAIR---	11/4/2020 HDPE			Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492			
17694920	OHIO	FA	OH-BEAVERCREEK-2776 GREENRIDGE CIR -LEAK-REPAIR---	4/20/2020 HDPE			Main to Meter - Under 200 feet	7	\$2.96	\$21	\$1.60	\$11	\$3,169	\$1,280	\$4,481	\$7.53	\$53	\$4.07	\$29	\$1,536	\$647	\$2,265	\$73	\$40	\$4,705	\$1,927	\$6,746			
17253380	OHIO	TR	OH-JACKSON CENTER-1001 W PIKE ST ---RESZG	8/20/2020 HDPE			Main to Meter - Under 200 feet	8	\$2.96	\$24	\$1.60	\$13	\$3,169	\$1,282	\$4,488	\$7.53	\$60	\$4.07	\$33	\$1,536	\$652	\$2,281	\$84	\$45	\$4,705	\$1,934	\$6,769			
18060609	OHIO	DW	OH-RIVERSIDE-168 COMMUNITY DR -LEAK-REPAIR---	8/26/2020 HDPE			Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306			
18104444	OHIO	BF	OH-BELLEFONTAINE-204 E PINE AVE -LEAK-REPAIR---	9/21/2020 HDPE			Curb to Meter	30	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$335	\$5.70	\$171	\$4,142	\$1,859	\$6,508	\$335	\$171	\$4,142	\$1,859	\$6,508			
17993505	OHIO	DW	OH-TIPP CITY-2546 BLUEFLAG ST ---RESZG	9/10/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512			
17595072	OHIO	CN	OH-DAYTON-2400 SOUTHLEA DR -LEAK-REPAIR---	3/23/2020 HDPE			Curb to Meter	19	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$212	\$5.70	\$108	\$4,142	\$1,785	\$6,248	\$212	\$108	\$4,142	\$1,785	\$6,248			
18204966	OHIO	FA	OH-DAYTON-1335 ASHLAND AVE -LEAK-REPAIR---	12/23/2020 HDPE			Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492			
17985505	OHIO	FA	OH-XENIA-521 E CHURCH ST -LEAK-REPAIR---	8/6/2020 HDPE			Main to Meter - Under 200 feet	44	\$2.96	\$130	\$1.60	\$70	\$3,169	\$1,348	\$4,717	\$7.53	\$331	\$4.07	\$179	\$1,536	\$819	\$2,865	\$461	\$250	\$4,705	\$2,166	\$7,583			
17913577	OHIO	TR	OH-GREENVILLE-205 N BROADWAY -LEAK-REPAIR---	7/7/2020 HDPE			Main to Curb	2	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724			
17803981	OHIO	DW	OH-DAYTON-1229 BRENTWOOD DR -LEAK-REPAIR---	8/19/2020 HDPE		1.00 INCH	Main to Meter - Under 200 feet	46	\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$828	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628			
18242177	OHIO	CN	OH-DALTON-141 NAPOLEON DR -LEAK-REPAIR---	11/24/2020 HDPE			Main to Meter - Under 200 feet	48	\$2.96	\$142	\$1.60	\$77	\$3,169	\$																

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

										Main to Curb (Non-Incremental)										Curb to Meter (Incremental)										Grand Total (Main to Curb + Curb to Meter)				
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs							
17411405	OHIO	BF	OH-LAKEVIEW-120 S MAIN ST -LEAK-REPAIR~~	2/5/2020	HDPE		Curb to Meter	7	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$78	\$5.70	\$40	\$4,142	\$1,704	\$5,965	\$78	\$40	\$4,142	\$1,704	\$5,965							
17213427	OHIO	CN	OH-DAYTON-1451 W STEWART ST -LEAK-REPAIR~~	0/18/2020			Main to Meter - Under 200 feet	1	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
16681757	OHIO	FA	OH-JAMESTOWN-21 S LIMESTONE ST -LEAK-REPAIR~~	3/3/2020	HDPE		Main to Curb	4	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724							
17464490	OHIO	CN	OH-KETTERING-2035 POLEN DR --- MOVE MTR OUT DUE TO HEAVY CORROSION	1/3/2020	HDPE		Main to Meter - Under 200 feet	25	\$2.96	\$74	\$1.60	\$40	\$3,169	\$1,313	\$4,596	\$7.53	\$188	\$4.07	\$102	\$1,536	\$731	\$2,557	\$262	\$142	\$4,705	\$2,044	\$7,153							
17590709	OHIO	CN	OH-DAYTON-5101 MARSHALL DR --- RENEW SERV MOVE MTR OS ELIMINATE REG	3/24/2020	HDPE		Main to Meter - Under 200 feet	91	\$2.96	\$269	\$1.60	\$146	\$3,169	\$1,433	\$5,017	\$7.53	\$685	\$4.07	\$371	\$1,536	\$1,037	\$3,629	\$954	\$516	\$4,705	\$2,470	\$8,646							
18197999	OHIO	FA	OH-XENIA-1125 WOODLAND -LEAK-REPAIR~~	11/16/2020	HDPE		Main to Meter - Under 200 feet	75	\$2.96	\$222	\$1.60	\$120	\$3,169	\$1,404	\$4,915	\$7.53	\$564	\$4.07	\$305	\$1,536	\$963	\$3,369	\$786	\$425	\$4,705	\$2,367	\$8,284							
17634408	OHIO	TR	OH-GREENVILLE-480 WAGNER AVE -LEAK-REPAIR~~	4/22/2020	HDPE		Curb to Meter	6	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$67	\$5.70	\$34	\$4,142	\$1,697	\$5,941	\$67	\$34	\$4,142	\$1,697	\$5,941							
14825396	OHIO	CN	OH-DAYTON-2831 YERGEN CT --- METER SET IN A PIT	7/31/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329							
17639209	OHIO	CN	OH-KETTERING-2628 CALIFORNIA AVE -LEAK-REPAIR~~	4/15/2020	HDPE		Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171							
17998371	OHIO	TR	OH-VERSAILLES-451 S WEST -LEAK-REPAIR~~	8/10/2020	HDPE		Main to Meter - Under 200 feet	115	\$2.96	\$340	\$1.60	\$184	\$3,169	\$1,477	\$5,170	\$7.53	\$865	\$4.07	\$468	\$1,536	\$1,148	\$4,018	\$1,205	\$652	\$4,705	\$2,625	\$9,188							
17925272	OHIO	FA	OH-SOUTH CHARLESTON-300 JAMESTOWN RD -LEAK-REPAIR~~	7/15/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329							
17926447	OHIO	DW	OH-DAYTON-2245 FALMOUTH AVE -LEAK-REPAIR~~	7/15/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
17789881	OHIO	CN	OH-MIAMISBURG-9723 FOXHOUND DR -LEAK-REPAIR~~	5/22/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
17529420	OHIO	CN	OH-DAYTON-420 HARRIET ST ---RELOG	7/9/2020	HDPE		Main to Meter - Under 200 feet	67	\$2.96	\$198	\$1.60	\$107	\$3,169	\$1,390	\$4,864	\$7.53	\$504	\$4.07	\$273	\$1,536	\$925	\$3,239	\$702	\$380	\$4,705	\$2,315	\$8,103							
17911637	OHIO	CN	OH-KETTERING-4358 CARLO DR --- RENEW GAS SERVICE	7/9/2020	HDPE		Main to Meter - Under 200 feet	46	\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$828	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628							
17832277	OHIO	DW	OH-DAYTON-1364 CORY DR -LEAK-REPAIR~~	8/29/2020	HDPE		Main to Meter - Under 200 feet	92	\$2.96	\$272	\$1.60	\$147	\$3,169	\$1,435	\$5,023	\$7.53	\$692	\$4.07	\$375	\$1,536	\$1,041	\$3,645	\$964	\$522	\$4,705	\$2,477	\$8,668							
17966037	OHIO	DW	OH-DAYTON-7657 MORNING MIST CIR ---RESZG	10/5/2020		1.25 INCH	Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512							
17387614	OHIO	BF	OH-BELLEFONTAINE-913 RUSH AVE -LEAK-REPAIR~~	1/27/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397							
17696715	OHIO	CN	OH-DAYTON-7681 WHITEHALL DR -LEAK-REPAIR~~	4/24/2020	HDPE		Main to Meter - Under 200 feet	46	\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$828	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628							
17164217	OHIO	CN	OH-CENTERVILLE-10407 STREAM PARK CT -LEAK-REPAIR~~	1/30/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
17395349	OHIO	CN	OH-DAYTON-634 WILTSHIRE BLVD --- NEXT RENEW / RETAP MAIN	1/28/2020	HDPE		Main to Meter - Under 200 feet	92	\$2.96	\$272	\$1.60	\$147	\$3,169	\$1,435	\$5,023	\$7.53	\$692	\$4.07	\$375	\$1,536	\$1,041	\$3,645	\$964	\$522	\$4,705	\$2,477	\$8,668							
17326825	OHIO	TR	OH-SIDNEY-104 TWINBROOK PL -LEAK-REPAIR~~	2/22/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894							
17213180	OHIO	CN	OH-DAYTON-4773 JOYCE DR -LEAK-REPAIR~~	4/16/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718							
17422077	OHIO	BF	OH-LAKEVIEW-10025 TWP 253 --- SERVICE BORED THOUGH SANITARY SEWER, NI	2/12/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
17330841	OHIO	DW	OH-NEW LEBANON-255 E WEAVER ST --- RENEW SERVICE FROM MAIN TO MTR	1/13/2020	HDPE		Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$102	\$3,169	\$1,384	\$4,845	\$7.53	\$482	\$4.07	\$261	\$1,536	\$911	\$3,190	\$671	\$363	\$4,705	\$2,296	\$8,035							
17537645	OHIO	CN	OH-MIAMISBURG-0 PLACID DR AND WASHINGTON CHURCH RD -LEAK-REPAIR~~	5/6/2020	HDPE		Main to Meter - Under 200 feet	105	\$2.96	\$310	\$1.60	\$168	\$3,169	\$1,459	\$5,106	\$7.53	\$790	\$4.07	\$428	\$1,536	\$1,102	\$3,856	\$1,101	\$596	\$4,705	\$2,561	\$8,962							
17331016	OHIO	FA	OH-DAYTON-228 BLACKBERRY RD ---RELOG	2/11/2020	HDPE		Curb to Meter	5	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$56	\$5.70	\$28	\$4,142	\$1,691	\$5,917	\$56	\$28	\$4,142	\$1,691	\$5,917							
17638537	OHIO	TR	OH-GREENVILLE-407 CIRCLE DR ---RELOG	6/9/2020	HDPE		Main to Meter - Under 200 feet	42	\$2.96	\$124	\$1.60	\$67	\$3,169	\$1,344	\$4,704	\$7.53	\$316	\$4.07	\$171	\$1,536	\$809	\$2,833	\$440	\$238	\$4,705	\$2,154	\$7,537							
17829301	OHIO	DW	OH-WEST MANCHESTER-38 E HOLTZMULLER RD ---	7/1/2020	HDPE		Main to Curb	1	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724							
18013120	OHIO	CN	OH-DAYTON-300 WONDERLY AVE -LEAK-REPAIR~~ -LEAK-REPAIR	8/14/2020	HDPE		Main to Meter - Under 200 feet	65	\$2.96	\$192	\$1.60	\$104	\$3,169	\$1,386	\$4,851	\$7.53	\$489	\$4.07	\$265	\$1,536	\$916	\$3,206	\$681	\$369	\$4,705	\$2,302	\$8,058							
18027327	OHIO	DW	OH-EATON-807 E SOMERS ST ---RELOG	9/22/2020	HDPE		Main to Meter - Under 200 feet	99	\$2.96	\$293	\$1.60	\$158	\$3,169	\$1,448	\$5,068	\$7.53	\$745	\$4.07	\$403	\$1,536	\$1,074	\$3,758	\$1,038	\$562	\$4,705	\$2,522	\$8,826							
17995758	OHIO	FA	OH-DAYTON-620 ROCKHILL AVE ---RELOG	9/25/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831							
18129321	OHIO	DW	OH-DAYTON-7218 CLAYBECK -LEAK-REPAIR~~ -LEAK-REPAIR	9/27/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
18242709	OHIO	FA	OH-FAIRBORN-65 N CENTRAL AVE -LEAK-REPAIR~~ -LEAK-REPAIR	11/23/2020	HDPE		Main to Meter - Under 200 feet	2	\$2.96	\$6	\$1.60	\$3	\$3,169	\$1,271	\$4,449	\$7.53	\$15	\$4.07	\$8	\$1,536	\$624	\$2,183	\$21	\$11	\$4,705	\$1,895	\$6,633							
18224289	OHIO	CN	OH-DAYTON-376 W STEWART ST BLDG --- SERVICE RENEWAL	11/20/2020	HDPE		Main to Meter - Under 200 feet	35	\$2.96	\$103	\$1.60	\$56	\$3,169	\$1,331	\$4,660	\$7.53	\$263	\$4.07	\$143	\$1,536	\$777	\$2,719	\$367	\$199	\$4,705	\$2,108	\$7,379							
18183583	OHIO	WC	OH-WASHINGTON COURT HOUSE-325 ELY ST -LEAK-REPAIR~~	10/28/2020	HDPE		Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$102	\$3,169	\$1,384	\$4,845	\$7.53	\$482	\$4.07	\$261	\$1,536	\$911	\$3,190	\$671	\$363	\$4,705	\$2,296	\$8,035							
17976752	OHIO	DW	OH-DAYTON-2235 CATALPA DR -LEAK-REPAIR~~ -LEAK-REPAIR	7/27/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894							
17637207	OHIO	WF	OH-WRIGHT-PATTERSON AFB-LITTRELL DR BLDG 30143-REPLACE SECTION OF S	6/9/2020	STEEL		Main to Meter - Under 200 feet	21	\$2.96	\$62	\$1.60	\$34	\$3,169	\$1,306	\$4,571																			

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation																											
Totals (\$000s):									\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282				
									Main to Curb (Non-Incremental)							Curb to Meter (Incremental)						Grand Total (Main to Curb + Curb to Meter)					
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
18071622	OHIO	DW	OH-DAYTON-49 N SMITHVILLE RD -LEAK-REPAIR~~	8/31/2020	HDPE		Main to Meter - Under 200 feet	63	\$2.96	\$186	\$1.60	\$101	\$3,169	\$1,382	\$4,838	\$7.53	\$474	\$4.07	\$257	\$1,536	\$907	\$3,174	\$660	\$357	\$4,705	\$2,289	\$8,012
18255976	OHIO	WC	OH-WILMINGTON-254 VIRGINIA CIR ~~ NEXT DAY SERVICE RENEWAL* WATER IN S	12/4/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	150	\$2.96	\$443	\$1.60	\$240	\$3,169	\$1,541	\$5,393	\$7.53	\$1,129	\$4.07	\$611	\$1,536	\$1,310	\$4,581	\$1,572	\$851	\$4,705	\$2,851	\$9,980
18041133	OHIO	BF	OH-BELLEFONTAINE-1000 GARFIELD AVE LOT 51~~RELOG	9/23/2020	HDPE		Curb to Meter	16	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$179	\$5.70	\$91	\$4,142	\$1,765	\$6,177	\$179	\$91	\$4,142	\$1,765	\$6,177
17419654	OHIO	DW	OH-DAYTON-3137 SALEM AVE ~~ RENEW LONG SERV AND MTR MOVE OUT X4	2/2/2020	HDPE		Main to Meter - Under 200 feet	110	\$2.96	\$325	\$1.60	\$176	\$3,169	\$1,468	\$5,138	\$7.53	\$828	\$4.07	\$448	\$1,536	\$1,125	\$3,937	\$1,153	\$624	\$4,705	\$2,593	\$9,075
17517346	OHIO	DW	OH-DAYTON-2300 OME AVE -LEAK-REPAIR~~ -LEAK-REPAIR	3/2/2020	HDPE		Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$102	\$3,169	\$1,384	\$4,845	\$7.53	\$482	\$4.07	\$261	\$1,536	\$911	\$3,190	\$671	\$363	\$4,705	\$2,296	\$8,035
18120182	OHIO	FA	OH-FAIRBORN-1328 HEMLOCK DR ~~RELOG	10/14/2020	HDPE		Main to Meter - Under 200 feet	68	\$2.96	\$201	\$1.60	\$109	\$3,169	\$1,392	\$4,870	\$7.53	\$512	\$4.07	\$277	\$1,536	\$930	\$3,255	\$713	\$386	\$4,705	\$2,322	\$8,125
17514071	OHIO	DW	OH-DAYTON-2735 RIDGE AVE -LEAK-REPAIR~~	2/27/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$933	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650
17115604	OHIO	FA	OH-DAYTON-1504 RADIO -LEAK-REPAIR~~	10/23/2020	HDPE		Main to Meter - Under 200 feet	59	\$2.96	\$174	\$1.60	\$94	\$3,169	\$1,375	\$4,813	\$7.53	\$444	\$4.07	\$240	\$1,536	\$888	\$3,109	\$618	\$335	\$4,705	\$2,263	\$7,922
17401415	OHIO	DW	OH-DAYTON-316 ALICIA RD ~~ SERVICE RENEWAL/METER MOVEOUT	1/31/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17464445	OHIO	CN	OH-KETTERING-3901 FULTON AVE ~~ EXPOSED SERVICE TAP WORKING ON 3900	1/6/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17926426	OHIO	DW	OH-DAYTON-2931 RIDGE AVE -LEAK-REPAIR~~	12/9/2020	HDPE		Main to Meter - Under 200 feet	21	\$2.96	\$62	\$1.60	\$34	\$3,169	\$1,306	\$4,571	\$7.53	\$158	\$4.07	\$86	\$1,536	\$712	\$2,492	\$220	\$119	\$4,705	\$2,018	\$7,063
17250288	OHIO	DW	OH-EATON-415 LEXINGTON ~~RENEW SERVICE	3/19/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17611540	OHIO	FA	OH-FAIRBORN-34 FRAHN AVE - BSCI V-138 (2020) -LEAK-REPAIR~~	3/18/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	37	\$2.96	\$109	\$1.60	\$59	\$3,169	\$1,335	\$4,673	\$7.53	\$278	\$4.07	\$151	\$1,536	\$786	\$2,752	\$388	\$210	\$4,705	\$2,121	\$7,424
17781030	OHIO	DW	OH-BROOKVILLE-827 KIMMEL TRL ~~RESZG	7/22/2020		1.00 INCH	Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
18077467	OHIO	WC	OH-JEFFERSONVILLE-4 NE MAIN ST -LEAK-REPAIR~~	9/2/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894
18186408	OHIO	CN	OH-DAYTON-2300 ALVARADO DR ~~ SERVICE RENEWAL MRT NEEDS TO BE MOVE	11/6/2020	HDPE		Main to Meter - Under 200 feet	43	\$2.96	\$127	\$1.60	\$69	\$3,169	\$1,346	\$4,711	\$7.53	\$324	\$4.07	\$175	\$1,536	\$814	\$2,849	\$451	\$244	\$4,705	\$2,160	\$7,560
18085144	OHIO	CN	OH-DAYTON-19 BRIAR HILL RD ~~RELOG	9/21/2020	HDPE		Main to Meter - Under 200 feet	83	\$2.96	\$245	\$1.60	\$133	\$3,169	\$1,419	\$4,966	\$7.53	\$625	\$4.07	\$338	\$1,536	\$1,000	\$3,499	\$870	\$471	\$4,705	\$2,418	\$8,465
17310687	OHIO	TR	OH-SIDNEY-1390 MAPLE LEAF CT -LEAK-REPAIR~~	1/3/2020	HDPE		Main to Meter - Under 200 feet	65	\$2.96	\$192	\$1.60	\$104	\$3,169	\$1,386	\$4,851	\$7.53	\$489	\$4.07	\$265	\$1,536	\$916	\$3,206	\$681	\$369	\$4,705	\$2,302	\$8,058
16417462	OHIO	FA	OH-XENIA-343 W ANKENEY MILL RD ~~AMR PROJECT	3/26/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17131148	OHIO	FA	OH-XENIA-1332 BURNETTE DR ~~RESZG	5/4/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
18283676	OHIO	BF	OH-BELLEFONTAINE-124 EVANSVILLE ST -LEAK-REPAIR~~	12/28/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	20	\$2.96	\$59	\$1.60	\$32	\$3,169	\$1,304	\$4,564	\$7.53	\$151	\$4.07	\$81	\$1,536	\$707	\$2,476	\$210	\$113	\$4,705	\$2,011	\$7,040
17171380	OHIO	CN	OH-DAYTON-521 DEARBORN AVE -LEAK-REPAIR~~	12/1/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
11202599	OHIO	DW	OH-DAYTON-3942 OTIS ~~RELO	2/5/2020	HDPE		Main to Meter - Under 200 feet	54	\$2.96	\$160	\$1.60	\$86	\$3,169	\$1,366	\$4,781	\$7.53	\$406	\$4.07	\$220	\$1,536	\$865	\$3,028	\$566	\$306	\$4,705	\$2,231	\$7,809
16625931	OHIO	WC	OH-WASHINGTON COURT HOUSE-1550 STATE ROUTE 38 -LEAK-REPAIR~~	0	1/9/2020		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
16745718	OHIO	CN	OH-CENTERVILLE-8200 S SUBURBAN DR ~~DATTUS METER	10/3/2020	HDPE		Main to Meter - Under 200 feet	15	\$2.96	\$44	\$1.60	\$24	\$3,169	\$1,295	\$4,532	\$7.53	\$113	\$4.07	\$61	\$1,536	\$684	\$2,395	\$157	\$85	\$4,705	\$1,979	\$6,927
16304990	OHIO	DW	OH-DAYTON-628 TYRON AVE -LEAK-REPAIR~~	1/2/2020	HDPE		Main to Meter - Under 200 feet	74	\$2.96	\$219	\$1.60	\$118	\$3,169	\$1,402	\$4,909	\$7.53	\$557	\$4.07	\$301	\$1,536	\$958	\$3,353	\$776	\$420	\$4,705	\$2,360	\$8,261
16299339	OHIO	DW	OH-DAYTON-1335 KUMLER AVENUE ~~ CV LOCATE BY 10.12.18 MPCZ	7/24/2020	HDPE		Main to Meter - Under 200 feet	88	\$2.96	\$260	\$1.60	\$141	\$3,169	\$1,428	\$4,998	\$7.53	\$662	\$4.07	\$358	\$1,536	\$1,023	\$3,580	\$922	\$499	\$4,705	\$2,451	\$8,578
17182226	OHIO	CN	OH-DAYTON-3117 LAKEVIEW AVE -LEAK-REPAIR~~	8/11/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17401246	OHIO	DW	OH-HUBER HEIGHTS-5570 SHULL RD -LEAK-REPAIR~~	1/31/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17998525	OHIO	CN	OH-DAYTON-5505 TALL TREES -LEAK-REPAIR~~	9/9/2020	MDPE		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18161663	OHIO	DW	OH-ENGLEWOOD-216 WEST WENGER ROAD -LEAK-REPAIR~~	10/16/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	85	\$2.96	\$251	\$1.60	\$136	\$3,169	\$1,422	\$4,979	\$7.53	\$640	\$4.07	\$346	\$1,536	\$1,009	\$3,531	\$891	\$482	\$4,705	\$2,431	\$8,510
17389388	OHIO	DW	OH-ENGLEWOOD-801 BONNYCASTLE AVE -LEAK-REPAIR~~	1/24/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17258691	OHIO	WC	OH-WILMINGTON-2841 OLD RT 73 ~~RESZG	1/9/2020	HDPE		Main to Meter - Under 200 feet	62	\$2.96	\$154	\$1.60	\$83	\$3,169	\$1,362	\$4,768	\$7.53	\$391	\$4.07	\$212	\$1,536	\$856	\$2,995	\$545	\$295	\$4,705	\$2,218	\$7,764
17925973	OHIO	FA	OH-NEW CARLISLE-1205 HEMLOCK WAY -LEAK-REPAIR~~	7/15/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$195	\$1.60	\$106	\$3,169	\$1,388	\$4,858	\$7.53	\$497	\$4.07	\$269								

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

										Main to Curb (Non-Incremental)							Curb to Meter (Incremental)							Grand Total (Main to Curb + Curb to Meter)				
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
18027511	OHIO	DW	OH-EATON-332 LEXINGTON AVE -LEAK-REPAIR~~	8/20/2020	HDPE		Curb to Meter	30	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$335	\$5.70	\$171	\$4,142	\$1,859	\$6,508	\$335	\$171	\$4,142	\$1,859	\$6,508	
18122970	OHIO	DW	OH-HUBER HEIGHTS-5859 BRANDT PIKE -LEAK-REPAIR~~	9/24/2020	HDPE		Main to Meter - Under 200 feet	51	\$2.96	\$151	\$1.60	\$82	\$3,169	\$1,361	\$4,762	\$7.53	\$384	\$4.07	\$208	\$1,536	\$851	\$2,979	\$535	\$289	\$4,705	\$2,212	\$7,741	
17411011	OHIO	CN	OH-CENTERVILLE-1883 STONEWATER DR -LEAK-REPAIR~~ -LEAK-REPAIR	2/3/2020	HDPE	1.00 INCH	Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847	
17270398	OHIO	DW	OH-DAYTON-200 N JAMES H MCGEE BLVD ~~RELOG	1/14/2020	HDPE		Main to Meter - Under 200 feet	25	\$2.96	\$74	\$1.60	\$40	\$3,169	\$1,313	\$4,596	\$7.53	\$188	\$4.07	\$102	\$1,536	\$731	\$2,557	\$262	\$142	\$4,705	\$2,044	\$7,153	
17223656	OHIO	DW	OH-DAYTON-437 SANDALWOOD -LEAK-REPAIR~~	2/22/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718	
18248434	OHIO	FA	OH-BEAVERCREEK-2559 WENDOVER DR ~~RELOG	12/3/2020	HDPE		Curb to Meter	10	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$112	\$5.70	\$57	\$4,142	\$1,724	\$6,036	\$112	\$57	\$4,142	\$1,724	\$6,036	
17923116	OHIO	TR	OH-PIQUA-6 CORONADA -LEAK-REPAIR~~	7/31/2020	HDPE		Main to Curb	3	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
18105468	OHIO	DW	OH-DAYTON-867 N UPLAND AVE ~~ SERVICE RENEWAL/ METER MOVEOUT	9/18/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492	
18132698	OHIO	CN	OH-DAYTON-109 WINCHCOMBE DR -LEAK-REPAIR~~	9/30/2020	HDPE		Curb to Meter	20	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$224	\$5.70	\$114	\$4,142	\$1,792	\$6,272	\$224	\$114	\$4,142	\$1,792	\$6,272	
17310357	OHIO	DW	OH-DAYTON-2535 RONDOWA AVE -LEAK-REPAIR~~	1/8/2020	HDPE		Main to Meter - Under 200 feet	78	\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$3,417	\$818	\$442	\$4,705	\$2,386	\$8,352	
18159686	OHIO	CN	OH-WEST CARROLLTON-32 N ELM ST -LEAK-REPAIR~~ -LEAK-REPAIR	10/14/2020	HDPE		Main to Curb	1	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
18181462	OHIO	FA	OH-DAYTON-2833 VINELAND TRL ~~ RENEW SERV AND MOVE MTR TO HW	10/28/2020	HDPE		Main to Meter - Under 200 feet	125	\$2.96	\$369	\$1.60	\$200	\$3,169	\$1,495	\$5,234	\$7.53	\$941	\$4.07	\$509	\$1,536	\$1,194	\$4,181	\$1,310	\$709	\$4,705	\$2,690	\$9,414	
18186971	OHIO	BF	OH-BELLEFONTAINE-228 WHITE PINES DR -LEAK-REPAIR~~ -LEAK-REPAIR	10/28/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894	
18186982	OHIO	TR	OH-ANSONIA-601 E CANAL ST -LEAK-REPAIR~~ -LEAK-REPAIR	10/28/2020	HDPE		Main to Curb	1	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
17923528	OHIO	WC	OH-WASHINGTON COURT HOUSE-1195 US 22 W -LEAK-REPAIR~~	7/14/2020	HDPE		Curb to Meter	7	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$78	\$5.70	\$40	\$4,142	\$1,704	\$5,965	\$78	\$40	\$4,142	\$1,704	\$5,965	
17333518	OHIO	TR	OH-WEST MILTON-113 HIGH ST ~~RENEW SERVICE	1/23/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718	
18059813	OHIO	FA	OH-BEAVERCREEK-111 JAMES RIVER RD ~~RESZG	1/23/2020	HDPE		Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17730485	OHIO	DW	OH-DAYTON-427 WANETA AVENUE -LEAK-REPAIR~~	5/13/2020	HDPE		Curb to Meter	40	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$447	\$5.70	\$228	\$4,142	\$1,927	\$6,744	\$447	\$228	\$4,142	\$1,927	\$6,744	
18017464	OHIO	DW	OH-UNION-224 W MARTINDALE RD -LEAK-REPAIR~~	8/18/2020	HDPE		Curb to Meter	30	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$335	\$5.70	\$171	\$4,142	\$1,859	\$6,508	\$335	\$171	\$4,142	\$1,859	\$6,508	
12250564	OHIO	CN	OH-DAYTON-148 DOVER ST ~~12250564	7/13/2020	HDPE		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
18077067	OHIO	DW	OH-DAYTON-3685 OLD SALEM RD -LEAK-REPAIR~~ -LEAK-REPAIR	8/31/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894	
18083988	OHIO	TR	OH-TROY-3 E MAIN ST ~~RESZG	10/7/2020	HDPE		Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18281853	OHIO	TR	OH-MINSTER-47 WASHINGTON ST -LEAK-REPAIR~~	12/18/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718	
16544852	OHIO	CN	OH-WEST CARROLLTON-5544 KEITH -LEAK-REPAIR~~	1/7/2020	HDPE		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17252886	OHIO	DW	OH-EATON-415 LEXINGTON ~~RENEW SERVICE	3/19/2020	HDPE		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17089346	OHIO	CN	OH-DAYTON-484 S BROADWAY ST -LEAK-REPAIR~~	1/17/2020	HDPE		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17171867	OHIO	CN	OH-DAYTON-3980 EAGLE STONE DR -LEAK-REPAIR~~	3/10/2020	HDPE	1.00 INCH	Main to Curb	10	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
18162403	OHIO	CN	OH-KETTERING-2767 SOUTH BLVD ~~ RENEW SERVICE WMTR MOVE OUT 10/22/2	10/22/2020	HDPE		Main to Meter - Under 200 feet	39	\$2.96	\$115	\$1.60	\$62	\$3,169	\$1,339	\$4,685	\$7.53	\$293	\$4.07	\$159	\$1,536	\$795	\$2,784	\$409	\$221	\$4,705	\$2,134	\$7,470	
17648584	OHIO	WC	OH-WILMINGTON-326 VIRGINIA CIR ~~RESZG	10/27/2020	HDPE		Main to Meter - Under 200 feet	102	\$2.96	\$301	\$1.60	\$163	\$3,169	\$1,453	\$5,087	\$7.53	\$768	\$4.07	\$415	\$1,536	\$1,088	\$3,807	\$1,069	\$579	\$4,705	\$2,541	\$8,894	
18147754	OHIO	FA	OH-DAYTON-999 BRUBAKER DR -LEAK-REPAIR~~ -LEAK-REPAIR	10/7/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894	
17389460	OHIO	FA	OH-JAMESTOWN-16 DAVIS -LEAK-REPAIR~~	1/24/2020	HDPE	1.00 INCH	Curb to Meter	8	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$89	\$5.70	\$46	\$4,142	\$1,711	\$5,988	\$89	\$46	\$4,142	\$1,711	\$5,988	
17381331	OHIO	TR	OH-ARCANUM-6287 HOLLANSBURG ARCANUM RD -LEAK-REPAIR~~ -LEAK-REPAIR	3/18/2020	HDPE		Main to Curb	3	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
17702171	OHIO	DW	OH-UNION-101 S MAIN ST -LEAK-REPAIR~~	4/27/2020	HDPE		Main to Meter - Under 200 feet	33	\$2.96	\$98	\$1.60	\$53	\$3,169	\$1,328	\$4,647	\$7.53	\$248	\$4.07	\$134	\$1,536	\$768	\$2,687	\$346	\$187	\$4,705	\$2,095	\$7,334	
17152422	OHIO	TR	OH-CASTINE-129 MAIN ST -LEAK-REPAIR~~	3/13/2020	MDPE		Main to Meter - Under 200 feet	3	\$2.96	\$9	\$1.60	\$5	\$3,169	\$1,273	\$4,456	\$7.53	\$23	\$4.07	\$12	\$1,536	\$628	\$2,200	\$31	\$17	\$4,705	\$1,902	\$6,655	
17184699	OHIO	CN	OH-DAYTON-2349 LEHIGH PL -LEAK-REPAIR~~	2/25/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605	
17318085	OHIO	DW	OH-DAYTON-1413 HAGERMAN ~~RENEW SERVICE	3/16/2020	HDPE		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17386110	OHIO	TR	OH-TIPP CITY-744 KYLE DR -LEAK-REPAIR~~	4/8/2020	HDPE		Curb to Meter	21	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$235	\$5.70	\$120	\$4,142	\$1,799	\$6,296	\$235	\$120	\$4,142	\$1,799	\$6,296	
17992895	OHIO	CN	OH-GERMANTOWN-1 HALE AVE -LEAK-REPAIR~~ -LEAK-REPAIR	8/4/2020	HDPE		Curb to Meter																					

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation										Totals (\$000s):																	
										\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282			
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Main to Curb (Non-Incremental)							Curb to Meter (Incremental)							Grand Total (Main to Curb + Curb to Meter)				
									Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
18133575	OHIO	FA	OH-NEW CARLISLE-327 S MAIN -LEAK-REPAIR~~	9/30/2020	HDPE		Main to Meter - Under 200 feet	115	\$2.96	\$340	\$1.60	\$184	\$3,169	\$1,477	\$5,170	\$7.53	\$865	\$4.07	\$468	\$1,536	\$1,148	\$4,018	\$1,205	\$652	\$4,705	\$2,625	\$9,188
16431706	OHIO	FA	OH-XENIA-1679 W SECOND ST ~~AMR PROJECT	2/4/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397
17254712	OHIO	FA	OH-DAYTON-3024 SANTA ROSA DR -LEAK-REPAIR~~	7/9/2020	HDPE		Main to Meter - Under 200 feet	82	\$2.96	\$242	\$1.60	\$131	\$3,169	\$1,417	\$4,960	\$7.53	\$617	\$4.07	\$334	\$1,536	\$995	\$3,482	\$859	\$465	\$4,705	\$2,412	\$8,442
18200536	OHIO	CN	OH-BELLBROOK-3572 CATALPA VIEW WAY -LEAK-REPAIR~~ -LEAK-REPAIR	4 11/6/2020	HDPE		Curb to Meter	4	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$45	\$5.70	\$23	\$4,142	\$1,684	\$5,894	\$45	\$23	\$4,142	\$1,684	\$5,894
17964857	OHIO	DW	OH-TIPP CITY-4129 FORESTEDGE ST ~~RESZG	10/1/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17718158	OHIO	CN	OH-DAYTON-936 GAINSBOROUGH RD -LEAK-REPAIR~~	6/6/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$833	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650
18091768	OHIO	WC	OH-WILMINGTON-64 HIGHLAND CT ~~RELOG	10/16/2020	HDPE		Main to Meter - Under 200 feet	66	\$2.96	\$1195	\$1.60	\$106	\$3,169	\$1,388	\$4,858	\$7.53	\$497	\$4.07	\$269	\$1,536	\$921	\$3,223	\$692	\$374	\$4,705	\$2,309	\$8,080
17628665	OHIO	DW	OH-DAYTON-3104 CATALPA DR ~~LONG SIDE SIDE SERVICE RENEWAL DUE TO P	4/9/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	75	\$2.96	\$222	\$1.60	\$120	\$3,169	\$1,404	\$4,915	\$7.53	\$564	\$4.07	\$305	\$1,536	\$963	\$3,369	\$786	\$425	\$4,705	\$2,367	\$8,284
18268089	OHIO	BF	OH-LAKEVIEW-520 LIMA ST ~~	8/11/2020	HDPE		Main to Meter - Under 200 feet	89	\$2.96	\$263	\$1.60	\$142	\$3,169	\$1,430	\$5,004	\$7.53	\$670	\$4.07	\$362	\$1,536	\$1,027	\$3,596	\$933	\$505	\$4,705	\$2,457	\$8,600
17651099	OHIO	DW	OH-TROTWOOD-28 CARMA ST -LEAK-REPAIR~~	5/4/2020	HDPE		Main to Meter - Under 200 feet	106	\$2.96	\$313	\$1.60	\$170	\$3,169	\$1,461	\$5,113	\$7.53	\$798	\$4.07	\$432	\$1,536	\$1,106	\$3,872	\$1,111	\$601	\$4,705	\$2,567	\$8,985
17815256	OHIO	TR	OH-SIDNEY-805 MICHIGAN ST -LEAK-REPAIR~~ -LEAK-REPAIR	6/3/2020	HDPE		Curb to Meter	9	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$101	\$5.70	\$51	\$4,142	\$1,718	\$6,012	\$101	\$51	\$4,142	\$1,718	\$6,012
17337525	OHIO	DW	OH-DAYTON-4252 MELGROVE AVE ~~ RENEW SERV UNABLE TO TEST SERV REG	1/20/2020	HDPE		Main to Meter - Under 200 feet	53	\$2.96	\$157	\$1.60	\$85	\$3,169	\$1,364	\$4,775	\$7.53	\$399	\$4.07	\$216	\$1,536	\$860	\$3,012	\$556	\$301	\$4,705	\$2,225	\$7,786
18271924	OHIO	DW	OH-DAYTON-3573 SPICEWOOD DR -LEAK-REPAIR~~	12/11/2020	HDPE	1.00 INCH	Curb to Meter	8	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$89	\$5.70	\$46	\$4,142	\$1,711	\$5,988	\$89	\$46	\$4,142	\$1,711	\$5,988
17395836	OHIO	TR	OH-NEW BREMEN-15 N FRANKLIN ST -LEAK-REPAIR~~	4/27/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17426182	OHIO	FA	OH-XENIA-341 STELTON DR -LEAK-REPAIR~~	2/20/2020	HDPE		Main to Meter - Under 200 feet	31	\$2.96	\$92	\$1.60	\$50	\$3,169	\$1,324	\$4,634	\$7.53	\$233	\$4.07	\$126	\$1,536	\$758	\$2,654	\$325	\$176	\$4,705	\$2,082	\$7,289
18129934	OHIO	BF	OH-RUSSELLS POINT-8253 OH-366 -LEAK-REPAIR~~	10/10/2020	MDPE		Main to Curb	3	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17312672	OHIO	DW	OH-DAYTON-3862 RIDGE AVE -LEAK-REPAIR~~	1/10/2020	HDPE		Main to Meter - Under 200 feet	82	\$2.96	\$242	\$1.60	\$131	\$3,169	\$1,417	\$4,960	\$7.53	\$617	\$4.07	\$334	\$1,536	\$995	\$3,482	\$859	\$465	\$4,705	\$2,412	\$8,442
17400996	OHIO	DW	OH-DAYTON-2400 BUSHNELL AVE ~~RENEW SERVICE	3/18/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17254713	OHIO	FA	OH-DAYTON-3112 SANTA ROSA DR -LEAK-REPAIR~~	7/9/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17822983	OHIO	TR	OH-PIQUA-8590 N HETZLER RD APT A~~REPLACE SERVICE	8/12/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
17825413	OHIO	CN	OH-CENTERVILLE-10647 REDPETAL DRIVE -LEAK-REPAIR~~	9/23/2020			Curb to Meter	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$0	\$5.70	\$0	\$4,142	\$1,657	\$5,799	\$0	\$0	\$4,142	\$1,657	\$5,799
17185789	OHIO	TR	OH-TIPP CITY-4900 S CO 25A ~~RESZG	1/21/2020	HDPE	2.00 INCH	Main to Meter - Under 200 feet	125	\$2.96	\$369	\$1.60	\$200	\$3,169	\$1,495	\$5,234	\$7.53	\$941	\$4.07	\$509	\$1,536	\$1,194	\$4,181	\$1,310	\$709	\$4,705	\$2,690	\$9,414
11203033	OHIO	DW	OH-DAYTON-650 BELMONT PARK ~~RELO	2/27/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718
17708822	OHIO	TR	OH-GREENVILLE-319 CHESTNUT ST -LEAK-REPAIR~~ -LEAK-REPAIR	4/28/2020	HDPE		Main to Meter - Under 200 feet	58	\$2.96	\$171	\$1.60	\$93	\$3,169	\$1,373	\$4,806	\$7.53	\$436	\$4.07	\$236	\$1,536	\$884	\$3,093	\$608	\$329	\$4,705	\$2,257	\$7,899
17033324	OHIO	CN	OH-CENTERVILLE-700 E SPRING VALLEY RD ~~RESZG	6/24/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17885263	OHIO	DW	OH-DAYTON-5742 BARBANNA LN ~~RELOG	7/31/2020	HDPE		Main to Meter - Under 200 feet	8	\$2.96	\$24	\$1.60	\$13	\$3,169	\$1,282	\$4,488	\$7.53	\$60	\$4.07	\$33	\$1,536	\$652	\$2,281	\$84	\$45	\$4,705	\$1,934	\$6,769
11203059	OHIO	DW	OH-DAYTON-673 BROOKLYN AVE ~~RELO	7/21/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718
17915305	OHIO	DW	OH-EATON-1704 N BARRON ST ~~RESZG	9/9/2020	HDPE		Main to Meter - Under 200 feet	15	\$2.96	\$44	\$1.60	\$24	\$3,169	\$1,295	\$4,532	\$7.53	\$113	\$4.07	\$61	\$1,536	\$684	\$2,395	\$157	\$85	\$4,705	\$1,979	\$6,927
18093384	OHIO	CN	OH-BELLBROOK-71 E SOUTH ST -LEAK-REPAIR~~	9/11/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$166	\$1.60	\$90	\$3,169	\$1,370	\$4,794	\$7.53	\$421	\$4.07	\$228	\$1,536	\$874	\$3,060	\$587	\$318	\$4,705	\$2,244	\$7,854
18144769	OHIO	CN	OH-DAYTON-4072 WOODLAND RIDGE CT ~~RESZG	10/27/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
15154438	OHIO	FA	OH-KETTERING-2964 PRENTICE ~~ TILTED METER	12/17/2020		1.25 INCH	Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18000614	OHIO	TR	OH-ARCANUM-7003 ALT SR 49 -LEAK-REPAIR~~ -LEAK-REPAIR	8/8/2020	HDPE		Main to Meter - Under 200 feet	101	\$2.96	\$299	\$1.60	\$162	\$3,169	\$1,452	\$5,081	\$7.53	\$760	\$4.07	\$411	\$1,536	\$1,083	\$3,791	\$1,059	\$573	\$4,705	\$2,535	\$8,872
18198370	OHIO	DW	OH-DAYTON-1029 HUFFMAN AVE -LEAK-REPAIR~~	11/6/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605
17397506	OHIO	DW	OH-DAYTON-23 S MONMOUTH ST -LEAK-REPAIR~~	1/29/2020	HDPE		Curb to Meter	38	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$425	\$5.70	\$217	\$4,142	\$1,913	\$6,697	\$425	\$217	\$4,14		

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
17400968	OHIO	FA	OH-PARK LAYNE-1525 LAMBERS -LEAK-REPAIR~~	2/3/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17223882	OHIO	BF	OH-HUNTSVILLE-7736 EDGEWATER DR ~~RELOG	1/30/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492	
17781597	OHIO	TR	OH-SIDNEY-1423 FOXDALE -LEAK-REPAIR~~	5/21/2020	HDPE		Main to Meter - Under 200 feet	90	\$2.96	\$266	\$1.60	\$144	\$3,169	\$1,432	\$5,011	\$7.53	\$677	\$4.07	\$367	\$1,536	\$1,032	\$3,612	\$943	\$510	\$4,705	\$2,464	\$8,623	
17831667	OHIO	CN	OH-DAYTON-110 BALMORAL DR ~~RESZG	7/16/2020	HDPE		Main to Meter - Under 200 feet	53	\$2.96	\$157	\$1.60	\$85	\$3,169	\$1,364	\$4,775	\$7.53	\$399	\$4.07	\$216	\$1,536	\$860	\$3,012	\$556	\$301	\$4,705	\$2,225	\$7,786	
17886171	OHIO	DW	OH-DAYTON-6549 MILLER LN ~~RELOG	9/3/2020	HDPE	2.00 INCH	Main to Meter - Over 200 feet	292	\$2.96	\$863	\$0.64	\$187	\$3,169	\$1,688	\$5,907	\$7.53	\$2,197	\$1.63	\$477	\$1,536	\$1,684	\$5,895	\$3,060	\$664	\$4,705	\$3,372	\$11,802	
18097513	OHIO	CN	OH-DAYTON-7660 W VON DETTE CIR ~~RESZG	11/5/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18190574	OHIO	DW	OH-DAYTON-724 BRADFIELD DR -LEAK-REPAIR~~	11/10/2020	HDPE		Main to Meter - Under 200 feet	43	\$2.96	\$127	\$1.60	\$69	\$3,169	\$1,346	\$4,711	\$7.53	\$324	\$4.07	\$175	\$1,536	\$814	\$2,849	\$451	\$244	\$4,705	\$2,160	\$7,560	
18195864	OHIO	DW	OH-DAYTON-5929 WOODVILLE DR -LEAK-REPAIR~~	11/13/2020	HDPE		Main to Meter - Under 200 feet	109	\$2.96	\$322	\$1.60	\$174	\$3,169	\$1,466	\$5,132	\$7.53	\$820	\$4.07	\$444	\$1,536	\$1,120	\$3,921	\$1,142	\$618	\$4,705	\$2,586	\$9,053	
15151640	OHIO	FA	OH-KETTERING-2836 PRENTICE ~~ BURIED METER	12/17/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17271877	OHIO	TR	OH-WEST MILTON-4930 W STATE ROUTE 571 -LEAK-REPAIR~~	5/7/2020	STEEL	0.75 INCH	Curb to Meter	20	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$224	\$5.70	\$114	\$4,142	\$1,792	\$6,272	\$224	\$114	\$4,142	\$1,792	\$6,272	
18321156	OHIO	FA	OH-DAYTON-4206 BLUE ROCK RD -LEAK-REPAIR~~	12/29/2020	HDPE		Main to Meter - Under 200 feet	93	\$2.96	\$275	\$1.60	\$149	\$3,169	\$1,437	\$5,030	\$7.53	\$700	\$4.07	\$379	\$1,536	\$1,046	\$3,661	\$975	\$528	\$4,705	\$2,483	\$8,691	
18014616	OHIO	DW	OH-DAYTON-122 W MCPHERSON -LEAK-REPAIR~~	8/17/2020	HDPE		Curb to Meter	26	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$291	\$5.70	\$148	\$4,142	\$1,832	\$6,414	\$291	\$148	\$4,142	\$1,832	\$6,414	
15225170	OHIO	DW	OH-DAYTON-1415 RAY ST ~~ RENEW SVC, MTR MOVEOUT BY 10.22.17 MPCZ	7/17/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	38	\$2.96	\$112	\$1.60	\$61	\$3,169	\$1,337	\$4,679	\$7.53	\$286	\$4.07	\$155	\$1,536	\$791	\$2,768	\$398	\$216	\$4,705	\$2,128	\$7,447	
17723300	OHIO	CN	OH-DAYTON-1115 SOUTH BROADWAY STREET -LEAK-REPAIR~~	6/30/2020			Main to Curb	0	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
18083061	OHIO	DW	OH-DAYTON-149 LORETTA DRIVE -LEAK-REPAIR~~	9/3/2020	HDPE		Main to Meter - Under 200 feet	82	\$2.96	\$242	\$1.60	\$131	\$3,169	\$1,417	\$4,960	\$7.53	\$617	\$4.07	\$334	\$1,536	\$995	\$3,482	\$859	\$465	\$4,705	\$2,412	\$8,442	
18156680	OHIO	TR	OH-GETTYSBURG-253 SHORT ST -LEAK-REPAIR~~	10/14/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	96	\$2.96	\$284	\$1.60	\$154	\$3,169	\$1,443	\$5,049	\$7.53	\$722	\$4.07	\$391	\$1,536	\$1,060	\$3,710	\$1,006	\$545	\$4,705	\$2,502	\$8,759	
17694405	OHIO	CN	OH-DAYTON-1325 OAKDALE AVE -LEAK-REPAIR~~	4/21/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492	
17844516	OHIO	DW	OH-TROTWOOD-4893 LIVINGSTONE AVE -LEAK-REPAIR~~	6/18/2020		1.00 INCH	Main to Curb	0	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
15131595	OHIO	TR	OH-NEW BREMEN-125 S HERMAN ST ~~AMR PROJECT	8/25/2020	HDPE		Main to Meter - Under 200 feet	31	\$2.96	\$92	\$1.60	\$50	\$3,169	\$1,324	\$4,634	\$7.53	\$233	\$4.07	\$126	\$1,536	\$758	\$2,654	\$325	\$176	\$4,705	\$2,082	\$7,289	
18123024	OHIO	DW	OH-HUBER HEIGHTS-3047 BURR OAK DR -LEAK-REPAIR~~ -LEAK-REPAIR	9/23/2020	HDPE		Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870	
17389297	OHIO	DW	OH-DAYTON-2324 STANLEY AVE ~~RENEW SERVICE	12/2/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17225279	OHIO	DW	OH-VANDALIA-3250 OLD SPOGLD RD HSMTR ~~RESZG	1/9/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18193466	OHIO	DW	OH-DAYTON-645 DALEVIEW AVE ~~ RENEW SERVICE MTR MOVE OUT	11/12/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	93	\$2.96	\$275	\$1.60	\$149	\$3,169	\$1,437	\$5,030	\$7.53	\$700	\$4.07	\$379	\$1,536	\$1,046	\$3,661	\$975	\$528	\$4,705	\$2,483	\$8,691	
18192644	OHIO	DW	OH-DAYTON-1615 N KEOWEE ST -LEAK-REPAIR~~	11/3/2020	HDPE		Curb to Meter	5	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$56	\$5.70	\$28	\$4,142	\$1,691	\$5,917	\$56	\$28	\$4,142	\$1,691	\$5,917	
18035202	OHIO	FA	OH-SPRING VALLEY-2745 CENTER CREEK CIR ~~RESZG	9/24/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18197959	OHIO	FA	OH-SOUTH CHARLESTON-31 S CHILLICOTHE ST -LEAK-REPAIR~~ -LEAK-REPAIR	11/4/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$166	\$1.60	\$90	\$3,169	\$1,370	\$4,794	\$7.53	\$421	\$4.07	\$228	\$1,536	\$874	\$3,060	\$587	\$318	\$4,705	\$2,244	\$7,854	
17537405	OHIO	CN	OH-DAYTON-704 BOWEN ST -LEAK-REPAIR~~	3/12/2020	HDPE		Curb to Meter	30	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$335	\$5.70	\$171	\$4,142	\$1,859	\$6,508	\$335	\$171	\$4,142	\$1,859	\$6,508	
17640519	OHIO	TR	OH-NEW BREMEN-213 N FRANKLIN ST -LEAK-REPAIR~~ -LEAK-REPAIR	4/10/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847	
16988695	OHIO	DW	OH-DAYTON-402 DAVIS -LEAK-REPAIR~~	1/29/2020	STEEL	1.00 INCH	Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
18197591	OHIO	DW	OH-UNION-177 WOBURN FARM CIRCLE -LEAK-REPAIR~~	11/6/2020	HDPE	1.00 INCH	Curb to Meter	49	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$548	\$5.70	\$279	\$4,142	\$1,988	\$6,957	\$548	\$279	\$4,142	\$1,988	\$6,957	
18060865	OHIO	DW	OH-DAYTON-168 COMMUNITY DR -LEAK-REPAIR~~ -LEAK-REPAIR	8/25/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
17790051	OHIO	DW	OH-TROTWOOD-816 FAIRGROVE WAY -LEAK-REPAIR~~	5/28/2020	HDPE	1.00 INCH	Main to Curb	11	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
17833539	OHIO	CN	OH-MIAMISBURG-714 N TWELFTH ST -LEAK-REPAIR~~ -LEAK-REPAIR	6/13/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$166	\$1.60	\$90	\$3,169	\$1,370	\$4,794	\$7.53	\$421	\$4.07	\$228	\$1,536	\$874	\$3,060	\$587	\$318	\$4,705	\$2,244	\$7,854	
17902763	OHIO	DW	OH-DAYTON-1430 EARLHAM DR ~~RELOG	7/29/2020	HDPE		Main to Meter - Under 200 feet	62	\$2.96	\$183	\$1.60	\$99	\$3,169	\$1,381	\$4,832	\$7.53	\$467	\$4.07	\$253	\$1,536	\$902	\$3,158	\$650	\$352	\$4,705	\$2,283	\$7,990	
16974222	OHIO	DW	OH-DAYTON-37 FINDLAY -LEAK-REPAIR~~	8/26/2020	HDPE		Main to Meter - Under 200 feet	30	\$2.96	\$89	\$1.60	\$48	\$3,169	\$1,322	\$4,628	\$7.53	\$226	\$4.07	\$122	\$1,536	\$754	\$2,638	\$314	\$170	\$4,705	\$2,076	\$7,266	
18009569	OHIO	CN	OH-DAYTON-526 HOLLENDALE DR -LEAK-REPAIR~~	8/31/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306	
16585505	OHIO	CN	OH-WAYNESVILLE-659 DAYTON RD ~~RESZG	9/3/2020	HDPE		Main to Meter - Over 200 feet	221	\$2.96	\$653	\$0.64	\$142	\$3,169	\$1,586	\$5,550	\$7.53	\$1,663	\$1.63	\$361	\$1,536	\$1,424	\$4,985	\$2,316	\$503	\$4,705	\$3,010	\$10,534	
1717981																												

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

										Main to Curb (Non-Incremental)										Curb to Meter (Incremental)										Grand Total (Main to Curb + Curb to Meter)				
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs							
18250111	OHIO	DW	OH-DAYTON-8292 OLD TROY PIKE --RESZG	12/18/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512								
17280738	OHIO	BF	OH-BELLEFONTAINE-127 E COLUMBUS AVE BLDG THEATR--RELOG	5/15/2020	HDPE		Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,711							
18113906	OHIO	CN	OH-KETTERING-1715 MAYFIELD DR -- RENEW SERVICE	9/17/2020	HDPE		Main to Meter - Under 200 feet	43	\$2.96	\$127	\$1.60	\$69	\$3,169	\$1,346	\$4,711	\$7.53	\$324	\$4.07	\$175	\$1,536	\$814	\$2,849	\$451	\$244	\$4,705	\$2,160	\$7,560							
18279537	OHIO	CN	OH-DAYTON-2408 MUNDALE AVE - VACANT LOT -LEAK-REPAIR--	12/15/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
17204752	OHIO	TR	OH-VERSAILLES-424 OLIVE ST --RENEW SERVICE	7/24/2020	HDPE		Main to Meter - Under 200 feet	58	\$2.96	\$171	\$1.60	\$93	\$3,169	\$1,373	\$4,806	\$7.53	\$436	\$4.07	\$236	\$1,536	\$884	\$3,093	\$608	\$329	\$4,705	\$2,257	\$7,899							
17963847	OHIO	FA	OH-DAYTON-3439 WELLINGTON DR -LEAK-REPAIR-- -LEAK-REPAIR	3/7/19/2020	HDPE	1.00 INCH	Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870							
17171676	OHIO	CN	OH-DAYTON-313 E THURSTON BLVD -LEAK-REPAIR--	12/16/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$166	\$1.60	\$90	\$3,169	\$1,370	\$4,794	\$7.53	\$421	\$4.07	\$228	\$1,536	\$874	\$3,060	\$587	\$318	\$4,705	\$2,244	\$7,854							
18197736	OHIO	DW	OH-DAYTON-3501 HOOVER -LEAK-REPAIR--	11/17/2020	HDPE		Curb to Meter	31	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$347	\$5.70	\$177	\$4,142	\$1,866	\$6,532	\$347	\$177	\$4,142	\$1,866	\$6,532							
18197899	OHIO	DW	OH-DAYTON-707 BURLEIGH -- SERVICE RENEWAL METER MOVE OUT	11/17/2020	HDPE		Main to Meter - Under 200 feet	31	\$2.96	\$92	\$1.60	\$50	\$3,169	\$1,324	\$4,634	\$7.53	\$233	\$4.07	\$126	\$1,536	\$758	\$2,654	\$325	\$176	\$4,705	\$2,082	\$7,289							
18274561	OHIO	DW	OH-EATON-107 S BARRON BLDG -- MTR MOVE OUT	12/11/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
17042708	OHIO	CN	OH-DAYTON-4328 MARSHALL RD -LEAK-REPAIR--	3/20/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$833	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650							
17052747	OHIO	BF	OH-BELLEFONTAINE-520 PATTERSON AVE -LEAK-REPAIR--	2/18/2020	MDPE		Main to Curb	2	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724							
18122561	OHIO	DW	OH-HUBER HEIGHTS-6078 CHURCHILL DOWNS PL --RELOG	9/5/2020	MDPE		Curb to Meter	39	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$436	\$5.70	\$222	\$4,142	\$1,920	\$6,721	\$436	\$222	\$4,142	\$1,920	\$6,721							
18208591	OHIO	FA	OH-FAIRBORN-486 RISING HILL DR -LEAK-REPAIR--	11/13/2020	HDPE		Main to Meter - Under 200 feet	85	\$2.96	\$251	\$1.60	\$136	\$3,169	\$1,422	\$4,979	\$7.53	\$640	\$4.07	\$346	\$1,536	\$1,009	\$3,531	\$891	\$482	\$4,705	\$2,431	\$8,510							
18211415	OHIO	FA	OH-DAYTON-1106 MAYAPPLE AVE -LEAK-REPAIR--	11/17/2020	HDPE		Main to Meter - Under 200 feet	68	\$2.96	\$201	\$1.60	\$109	\$3,169	\$1,392	\$4,870	\$7.53	\$512	\$4.07	\$277	\$1,536	\$930	\$3,255	\$713	\$386	\$4,705	\$2,322	\$8,125							
17831684	OHIO	DW	OH-DAYTON-1638 LINNBROOK DR -LEAK-REPAIR--	8/28/2020	STEEL		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588							
18094460	OHIO	FA	OH-DAYTON-1908 ROOP -LEAK-REPAIR--	9/11/2020	HDPE		Main to Meter - Under 200 feet	37	\$2.96	\$109	\$1.60	\$59	\$3,169	\$1,335	\$4,673	\$7.53	\$278	\$4.07	\$151	\$1,536	\$786	\$2,752	\$388	\$210	\$4,705	\$2,121	\$7,424							
18159156	OHIO	DW	OH-DAYTON-2301 EMERSON AVE -LEAK-REPAIR--	10/19/2020	HDPE		Curb to Meter	33	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$369	\$5.70	\$188	\$4,142	\$1,880	\$6,579	\$369	\$188	\$4,142	\$1,880	\$6,579							
18210073	OHIO	DW	OH-DAYTON-948 N UPLAND -LEAK-REPAIR--	11/14/2020	HDPE		Main to Meter - Under 200 feet	56	\$2.96	\$166	\$1.60	\$90	\$3,169	\$1,370	\$4,794	\$7.53	\$421	\$4.07	\$228	\$1,536	\$874	\$3,060	\$587	\$318	\$4,705	\$2,244	\$7,854							
17992142	OHIO	FA	OH-FAIRBORN-321 FAIRWAY DR -- GAS SERVICE RENEWAL	7/31/2020	HDPE		Main to Meter - Under 200 feet	68	\$2.96	\$201	\$1.60	\$109	\$3,169	\$1,392	\$4,870	\$7.53	\$512	\$4.07	\$277	\$1,536	\$930	\$3,255	\$713	\$386	\$4,705	\$2,322	\$8,125							
18141860	OHIO	FA	OH-BEAVERCREEK-1982 WINTERGLEN CT -LEAK-RECHECK--	12/28/2020	HDPE	1.00 INCH	Main to Curb	10	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724							
17722502	OHIO	DW	OH-TIPP CITY-4129 FORESTEDGE ST -- SERVICE RENEWAL	4/23/2020	HDPE		Main to Meter - Under 200 feet	49	\$2.96	\$145	\$1.60	\$78	\$3,169	\$1,357	\$4,749	\$7.53	\$369	\$4.07	\$200	\$1,536	\$842	\$2,947	\$514	\$278	\$4,705	\$2,199	\$7,696							
18161707	OHIO	FA	OH-DAYTON-2597 DOWDEN LN --RELOG	10/26/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718							
18319011	OHIO	FA	OH-DAYTON-1495 DEERLAND -LEAK-REPAIR--	12/29/2020	HDPE		Main to Meter - Under 200 feet	53	\$2.96	\$157	\$1.60	\$85	\$3,169	\$1,364	\$4,775	\$7.53	\$399	\$4.07	\$216	\$1,536	\$860	\$3,012	\$556	\$301	\$4,705	\$2,225	\$7,786							
17793985	OHIO	FA	OH-DAYTON-1032 S SMITHVILLE RD --RESZG	5/27/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512								
17730118	OHIO	CN	OH-DAYTON-7618 KINGS RUN RD -LEAK-REPAIR--	5/13/2020	HDPE		Main to Meter - Under 200 feet	106	\$2.96	\$313	\$1.60	\$170	\$3,169	\$1,461	\$5,113	\$7.53	\$798	\$4.07	\$432	\$1,536	\$1,106	\$3,872	\$1,111	\$601	\$4,705	\$2,567	\$8,985							
17836231	OHIO	FA	OH-FAIRBORN-1220 ADAMS ST -LEAK-REPAIR--	6/17/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718							
17034611	OHIO	TR	OH-SIDNEY-2040 OLD ENGLISH CT -LEAK-REPAIR--	8/6/2020	HDPE		Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870							
18101819	OHIO	DW	OH-DAYTON-6315 BRANDT PIKE --RESZG	11/5/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512								
17720237	OHIO	FA	OH-DAYTON-256 POE LN -LEAK-REPAIR--	6/1/2020	HDPE		Main to Meter - Under 200 feet	41	\$2.96	\$121	\$1.60	\$66	\$3,169	\$1,342	\$4,698	\$7.53	\$309	\$4.07	\$167	\$1,536	\$805	\$2,817	\$430	\$233	\$4,705	\$2,147	\$7,515							
17770892	OHIO	FA	OH-XENIA-1148 WESTOVER RD -LEAK-REPAIR-- -LEAK-REPAIR	5/15/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847							
18155611	OHIO	DW	OH-DAYTON-2112 CATALPA DR-RELOG	12/15/2020	HDPE	1.00 INCH	Main to Curb	76	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724							
18244744	OHIO	FA	OH-RIVERSIDE-4348 DELHI -LEAK-REPAIR--	11/25/2020	HDPE		Main to Meter - Under 200 feet	61	\$2.96	\$180	\$1.60	\$98	\$3,169	\$1,379	\$4,826	\$7.53	\$459	\$4.07	\$248	\$1,536	\$898	\$3,141	\$639	\$346	\$4,705	\$2,276	\$7,967							
17917261	OHIO	CN	OH-GERMANTOWN-154 MARSHALL AVE -LEAK-REPAIR--	7/29/2020	HDPE		Main to Meter - Under 200 feet	61	\$2.96	\$180	\$1.60	\$98	\$3,169	\$1,379	\$4,826	\$7.53	\$459	\$4.07	\$248	\$1,536	\$898	\$3,141	\$639	\$346	\$4,705	\$2,276	\$7,967							
17633748	OHIO	FA	OH-DAYTON-791 WAKE FOREST RD -LEAK-REPAIR-- -LEAK-REPAIR	4/6/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823							
17648136	OHIO	CN	OH-CENTERVILLE-9573 CROOKED CREEK DR -LEAK-REPAIR--	4/15/2020	MDPE		Main to Curb	1	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724							
18057525	OHIO	DW	OH-CLAYTON-1 CLUB DR -LEAK-REPAIR--	8/26/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151												

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
17904349	OHIO	CN	OH-DAYTON-1428 KIMMEL LN -LEAK-REPAIR~~	8/27/2020	STEEL		Main to Meter - Under 200 feet	25	\$2.96	\$74	\$1.60	\$40	\$3,169	\$1,313	\$4,596	\$7.53	\$188	\$4.07	\$102	\$1,536	\$731	\$2,557	\$262	\$142	\$4,705	\$2,044	\$7,153
18142777	OHIO	FA	OH-XENIA-472 US RT 68 S-LEAK-REPAIR~~	10/7/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17418573	OHIO	FA	OH-XENIA-1900 STEWART RD ~~ REMOVE LINE MARKER	2/8/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17273139	OHIO	DW	OH-DAYTON-418 HURON AVE ~~NEWG	1/2/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17114985	OHIO	CN	OH-MIAMISBURG-1218 CASE AVE -LEAK-REPAIR~~	1/29/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$833	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650
17381271	OHIO	CN	OH-DAYTON-309 TOWERVIEW RD ~~ RENEW SERVICE MTR MOVE OUT WIREG LO	1/21/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17611538	OHIO	CN	OH-OKAWOOD-243 CLARANNA AVE -LEAK-REPAIR~~	3/25/2020	HDPE		Main to Meter - Under 200 feet	78	\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$3,417	\$818	\$442	\$4,705	\$2,386	\$8,352
18093808	OHIO	CN	OH-DAYTON-3849 RIDGEWAY RD ~~RESZG	10/5/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
18278905	OHIO	CN	OH-DAYTON-4001 FULTON AVE -LEAK-REPAIR~~ -LEAK-REPAIR	12/14/2020	HDPE		Main to Meter - Under 200 feet	67	\$2.96	\$198	\$1.60	\$107	\$3,169	\$1,390	\$4,864	\$7.53	\$504	\$4.07	\$273	\$1,536	\$925	\$3,239	\$702	\$380	\$4,705	\$2,315	\$8,103
18248712	OHIO	DW	OH-DAYTON-20 HENRY ST -LEAK-REPAIR~~ -LEAK-REPAIR	11/27/2020			Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847
17595609	OHIO	CN	OH-DAYTON-702 OAK LEAF -LEAK-REPAIR~~	3/24/2020	HDPE		Main to Meter - Under 200 feet	62	\$2.96	\$183	\$1.60	\$99	\$3,169	\$1,381	\$4,832	\$7.53	\$467	\$4.07	\$253	\$1,536	\$902	\$3,158	\$650	\$352	\$4,705	\$2,283	\$7,990
17413700	OHIO	TR	OH-GREENVILLE-230 E FOURTH ST -LEAK-REPAIR~~ -LEAK-REPAIR	2/5/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17696682	OHIO	FA	OH-XENIA-76 POCAHONTAS ST -LEAK-REPAIR~~	4/27/2020	HDPE		Curb to Meter	44	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$492	\$5.70	\$251	\$4,142	\$1,954	\$6,839	\$492	\$251	\$4,142	\$1,954	\$6,839
17145076	OHIO	CN	OH-DAYTON-1421 ALBRITTON FALL -LEAK-REPAIR~~	1/27/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17170252	OHIO	DW	OH-NEW PARIS-9777 WESLER RD ~~RESZG	2/11/2020		1.00 INCH	Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17923110	OHIO	CN	OH-DAYTON-275 MARCHESTER DR -LEAK-REPAIR~~	7/14/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492
17804287	OHIO	CN	OH-SPRINGBORO-767 GRAND WOOD CT -LEAK-REPAIR~~ -LEAK-REPAIR	5/27/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17528506	OHIO	DW	OH-BROOKVILLE-111 HARSHMAN ST -LEAK-REPAIR~~	3/6/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847
17806656	OHIO	DW	OH-DAYTON-4453 GREENWICH AVE BLDG ~~ GAS SERVICE RENWEAL PLUS MOV	6/4/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$833	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650
17817812	OHIO	DW	OH-CAMDEN-52 E CENTRAL AVE -LEAK-REPAIR~~	8/8/2020	STEEL		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18099005	OHIO	BF	OH-DAYTON-3405 POBST DR -LEAK-REPAIR~~	9/16/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17338326	OHIO	WC	OH-SABINA-129 S HOWARD ST ~~ SERVICE RENEWAL	1/15/2020	HDPE		Main to Meter - Under 200 feet	120	\$2.96	\$355	\$1.60	\$192	\$3,169	\$1,486	\$5,202	\$7.53	\$903	\$4.07	\$489	\$1,536	\$1,171	\$4,099	\$1,258	\$681	\$4,705	\$2,658	\$9,301
17103109	OHIO	CN	OH-CENTERVILLE-7790 CLIFFVIEW CT -LEAK-REPAIR~~	5/27/2020		1.00 INCH	Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18144601	OHIO	WC	OH-WASHINGTON COURT HOUSE-1131 GRACE ST -LEAK-REPAIR~~	11/8/2020	HDPE		Main to Meter - Under 200 feet	66	\$2.96	\$195	\$1.60	\$106	\$3,169	\$1,388	\$4,858	\$7.53	\$487	\$4.07	\$269	\$1,536	\$921	\$3,223	\$692	\$374	\$4,705	\$2,309	\$9,080
16644766	OHIO	CN	OH-DAYTON-4741 ACKERMAN BLVD ~~RESZG	1/22/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17966810	OHIO	CN	OH-DAYTON-387 CARLYLE CIR -LEAK-REPAIR~~	7/22/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$833	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650
18150549	OHIO	WC	OH-WILLMINGTON-872 COLUMBUS ST -LEAK-REPAIR~~	10/20/2020	HDPE		Main to Meter - Under 200 feet	81	\$2.96	\$239	\$1.60	\$130	\$3,169	\$1,415	\$4,953	\$7.53	\$610	\$4.07	\$330	\$1,536	\$990	\$3,466	\$849	\$459	\$4,705	\$2,406	\$8,419
17105943	OHIO	CN	OH-MIAMISBURG-1502 MARY FRANCIS CT -LEAK-REPAIR~~	4/2/2020	HDPE		Main to Curb	10	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
16681444	OHIO	DW	OH-DAYTON-2829 E THIRD ST ~~RESZG	4/1/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512
17538943	OHIO	FA	OH-FAIRBORN-322 BELLAIRE -LEAK-REPAIR~~	7/31/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
16431619	OHIO	FA	OH-NEW CARLISLE-103 LINDEN AVE -LEAK-REPAIR~~	3/12/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17635211	OHIO	DW	OH-EATON-1880 US ROUTE 127 N -LEAK-REPAIR~~	4/8/2020	HDPE		Main to Meter - Under 200 feet	78	\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$3,417	\$818	\$442	\$4,705	\$2,386	\$8,352
17199353	OHIO	CN	OH-DAYTON-3033 LOCUST CAMP RD -LEAK-REPAIR~~	4/9/2020	HDPE		Main to Meter - Under 200 feet	131	\$2.96	\$387	\$1.60	\$210	\$3,169	\$1,506	\$5,272	\$7.53	\$986	\$4.07	\$534	\$1,536	\$1,222	\$4,278	\$1,373	\$743	\$4,705	\$2,729	\$9,550
14825397	OHIO	CN	OH-DAYTON-14 TROTTER CT ~~ RISER INSIDE WALL	7/21/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$88	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17927297	OHIO	CN	OH-MIAMISBURG-521 CAROLYN DR -LEAK-REPAIR~~	7/16/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718
18148053	OHIO	CN	OH-DAYTON-613 STEELE AVE ~~ SERVICE RENEWAL	12/8/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	54	\$2.96	\$160	\$1.60	\$86	\$3,169	\$1,366	\$4,781	\$7.53	\$406	\$4.07	\$220	\$1,536	\$865	\$3,028	\$566	\$306	\$4,705	\$2,231	\$7,809
18000607	OHIO	TR	OH-TROY-1882 S COUNTY RD 25A -LEAK-REPAIR~~	8/10/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	61	\$2.96	\$180	\$1.60	\$98	\$3,169	\$1,379	\$4,826	\$7.53	\$459	\$4.07	\$248	\$1,536	\$898	\$3,141	\$639	\$346	\$4,705	\$2,276	\$7,967
18195533	OHIO	BF	OH-LAKEVIEW-8919 CRESCENT ST ~~RESZG	11/17/2020		1.00 INCH	Meter Set Replacement	0	\$0.0																		

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation																												
									Totals (\$000s):																			
									Main to Curb (Non-Incremental)								Curb to Meter (Incremental)								Grand Total (Main to Curb + Curb to Meter)			
									Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length																				
17548839	OHIO	FA	OH-DAYTON-4065 RANCH DR ---RELOG	8/28/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	78	\$2.96	\$231	\$1.60	\$125	\$3,169	\$1,410	\$4,934	\$7.53	\$587	\$4.07	\$318	\$1,536	\$976	\$3,417	\$818	\$442	\$4,705	\$2,386	\$8,352	
17411280	OHIO	DW	OH-DAYTON-54 CENTRE ST -LEAK-REPAIR---	2/5/2020	HDPE		Main to Meter - Under 200 feet	71	\$2.96	\$210	\$1.60	\$114	\$3,169	\$1,397	\$4,889	\$7.53	\$534	\$4.07	\$289	\$1,536	\$944	\$3,304	\$744	\$403	\$4,705	\$2,341	\$8,193	
18191149	OHIO	CN	OH-DAYTON-986 MARYCREST LN -LEAK-REPAIR---	10/31/2020	HDPE		Curb to Meter	5	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$56	\$5.70	\$28	\$4,142	\$1,691	\$5,917	\$56	\$28	\$4,142	\$1,691	\$5,917	
18003866	OHIO	TR	OH-SIDNEY-349 MAPLE --- SHORT ON SERVICE	8/19/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588	
18245034	OHIO	FA	OH-DAYTON-2517 E DOROTHY LN -LEAK-REPAIR---	12/2/2020	HDPE		Main to Meter - Under 200 feet	69	\$2.96	\$204	\$1.60	\$110	\$3,169	\$1,393	\$4,877	\$7.53	\$519	\$4.07	\$281	\$1,536	\$935	\$3,271	\$723	\$391	\$4,705	\$2,328	\$8,148	
18186405	OHIO	FA	OH-KETTERING-2566 CRESTWELL PL -LEAK-REPAIR---	12/2/2020	HDPE		Main to Meter - Under 200 feet	66	\$2.96	\$195	\$1.60	\$106	\$3,169	\$1,388	\$4,858	\$7.53	\$497	\$4.07	\$269	\$1,536	\$921	\$3,223	\$692	\$374	\$4,705	\$2,309	\$8,080	
18099722	OHIO	CN	OH-DAYTON-200 SCHUYLER DR -LEAK-REPAIR---	9/18/2020	HDPE		Curb to Meter	7	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$78	\$5.70	\$40	\$4,142	\$1,704	\$5,965	\$78	\$40	\$4,142	\$1,704	\$5,965	
17387552	OHIO	CN	OH-DAYTON-10900 COBBLE BROOK DR -LEAK-REPAIR--- LEAK-REPAIR	1/21/2020	HDPE		Main to Meter - Under 200 feet	2	\$2.96	\$6	\$1.60	\$3	\$3,169	\$1,271	\$4,449	\$7.53	\$15	\$4.07	\$8	\$1,536	\$624	\$2,183	\$21	\$11	\$4,705	\$1,895	\$6,633	
17532434	OHIO	DW	OH-DAYTON-33 CROWN -LEAK-REPAIR---	3/10/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329	
17612119	OHIO	TR	OH-SIDNEY-202 W PARKWOOD ST ---RELOG	5/29/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605	
17524600	OHIO	CN	OH-KETTERING-600 E STROOP RD -LEAK-REPAIR---	3/4/2020	HDPE		Main to Meter - Under 200 feet	54	\$2.96	\$160	\$1.60	\$86	\$3,169	\$1,366	\$4,781	\$7.53	\$406	\$4.07	\$220	\$1,536	\$865	\$3,028	\$566	\$306	\$4,705	\$2,231	\$7,809	
17313287	OHIO	FA	OH-BEAVERCREEK-2122 MATRENA DR ---RESZG	1/8/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17321839	OHIO	CN	OH-WEST CARROLLTON CITY-705 S ELM ST -LEAK-REPAIR---	1/2/2020	HDPE		Curb to Meter	20	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$224	\$5.70	\$114	\$4,142	\$1,792	\$6,272	\$224	\$114	\$4,142	\$1,792	\$6,272	
17985927	OHIO	FA	OH-DAYTON-612 POLLOCK RD -LEAK-REPAIR---	7/31/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397	
18133902	OHIO	WC	OH-WILMINGTON-202 COLUMBUS ST -LEAK-REPAIR---	9/30/2020	HDPE		Curb to Meter	48	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$537	\$5.70	\$274	\$4,142	\$1,981	\$6,934	\$537	\$274	\$4,142	\$1,981	\$6,934	
17414107	OHIO	DW	OH-DAYTON-3222 SALEM AVE -LEAK-REPAIR--- LEAK-REPAIR	2/5/2020	STEEL		Main to Curb	1.5	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
17448799	OHIO	DW	OH-CLAYTON-300 WINDGATE CT -LEAK-REPAIR---	2/17/2020	HDPE		Main to Curb	4	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724	
17910758	OHIO	FA	OH-DAYTON-1463 S LONGVIEW ST --- SERVICE RENEW	7/6/2020	HDPE	1.00 INCH	Curb to Meter	35	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$391	\$5.70	\$199	\$4,142	\$1,893	\$6,626	\$391	\$199	\$4,142	\$1,893	\$6,626	
18132223	OHIO	FA	OH-NEW CARLISLE-319 N CHURCH ST -LEAK-REPAIR---	10/1/2020	HDPE		Main to Meter - Under 200 feet	5	\$2.96	\$15	\$1.60	\$8	\$3,169	\$1,277	\$4,469	\$7.53	\$38	\$4.07	\$20	\$1,536	\$638	\$2,232	\$52	\$28	\$4,705	\$1,914	\$6,701	
17385883	OHIO	DW	OH-HUBER HEIGHTS-6856 PABLO DR -LEAK-REPAIR--- LEAK-REPAIR	1/22/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$102	\$3,169	\$1,384	\$4,845	\$7.53	\$482	\$4.07	\$261	\$1,536	\$911	\$3,190	\$671	\$363	\$4,705	\$2,296	\$8,035	
17108740	OHIO	DW	OH-DAYTON-2621 SHERER -LEAK-REPAIR---	1/9/2020	HDPE		Main to Meter - Under 200 feet	87	\$2.96	\$257	\$1.60	\$139	\$3,169	\$1,426	\$4,991	\$7.53	\$655	\$4.07	\$354	\$1,536	\$1,018	\$3,564	\$912	\$493	\$4,705	\$2,444	\$8,555	
17415145	OHIO	CN	OH-KETTERING-4166 ACKERMAN BLVD --- MOVE METER OUTSIDE @ REMOVE RE	2/18/2020	HDPE		Main to Meter - Under 200 feet	53	\$2.96	\$157	\$1.60	\$85	\$3,169	\$1,364	\$4,775	\$7.53	\$399	\$4.07	\$216	\$1,536	\$860	\$3,012	\$556	\$301	\$4,705	\$2,225	\$7,786	
17383898	OHIO	DW	OH-DAYTON-2216 TITUS AVE -LEAK-REPAIR--- LEAK-REPAIR	6/17/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823	
17709779	OHIO	WC	OH-WASHINGTON COURT HOUSE-312 GREGG ST --- NEXT DAY SERVICE RENEW	4/30/2020	HDPE		Main to Meter - Under 200 feet	39	\$2.96	\$115	\$1.60	\$62	\$3,169	\$1,339	\$4,685	\$7.53	\$293	\$4.07	\$159	\$1,536	\$795	\$2,784	\$409	\$221	\$4,705	\$2,134	\$7,470	
17145862	OHIO	CN	OH-DAYTON-1615 ROOSEVELT AVE -LEAK-REPAIR---	2/26/2020	HDPE		Main to Meter - Under 200 feet	50	\$2.96	\$148	\$1.60	\$80	\$3,169	\$1,359	\$4,755	\$7.53	\$376	\$4.07	\$204	\$1,536	\$847	\$2,963	\$524	\$284	\$4,705	\$2,205	\$7,718	
18017325	OHIO	FA	OH-YELLOW SPRINGS-1609 MERCER CT ---RELOG	9/10/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605	
17836164	OHIO	TR	OH-NEW MADISON-2562 RICHMOND PAL RD ---RESZG	9/4/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17918203	OHIO	CN	OH-CENTERVILLE-20 S GRACEWOOD DR -LEAK-REPAIR---	7/15/2020	HDPE		Main to Meter - Under 200 feet	88	\$2.96	\$260	\$1.60	\$141	\$3,169	\$1,428	\$4,998	\$7.53	\$662	\$4.07	\$358	\$1,536	\$1,023	\$3,580	\$922	\$499	\$4,705	\$2,451	\$8,578	
16251294	OHIO	DW	OH-DAYTON-1516 STANLEY AVE ---METER REPLACEMENT	8/18/2020	HDPE	2.00 INCH	Main to Meter - Under 200 feet	134	\$2.96	\$396	\$1.60	\$214	\$3,169	\$1,512	\$5,291	\$7.53	\$1,008	\$4.07	\$546	\$1,536	\$1,236	\$4,327	\$1,404	\$760	\$4,705	\$2,748	\$9,618	
17704783	OHIO	DW	OH-DAYTON-204 E SIEBERTHALER AVE --- RENEW SERV AND MOVE MTR OUTSID	4/27/2020	HDPE		Main to Meter - Under 200 feet	90	\$2.96	\$266	\$1.60	\$144	\$3,169	\$1,432	\$5,011	\$7.53	\$677	\$4.07	\$367	\$1,536	\$1,032	\$3,612	\$943	\$510	\$4,705	\$2,464	\$8,623	
17720263	OHIO	DW	OH-DAYTON-331 RYBURN AVE -LEAK-REPAIR---	5/6/2020	HDPE		Main to Meter - Under 200 feet	48	\$2.96	\$142	\$1.60	\$77	\$3,169	\$1,355	\$4,743	\$7.53	\$361	\$4.07	\$195	\$1,536	\$837	\$2,930	\$503	\$272	\$4,705	\$2,192	\$7,673	
16397963	OHIO	FA	OH-NEW CARLISLE-1102 W LAKE AVE -LEAK-REPAIR---	2/7/2020	HDPE		Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171	
17330841	OHIO	DW	OH-NEW LEBANON-255 E WEAVER ST --- RENEW SERVICE FROM MAIN TO MTR	1/13/2020	HDPE		Main to Meter - Under 200 feet	64	\$2.96	\$189	\$1.60	\$102	\$3,169	\$1,384	\$4,845	\$7.53	\$482	\$4.07	\$261	\$1,536	\$911	\$3,190	\$671	\$363	\$4,705	\$2,296	\$8,035	
18242123	OHIO	FA	OH-FAIRBORN-1112 LEXINGTON AVE --- RENEW SERVICE	11/19/2020	HDPE		Main to Meter - Under 200 feet	39	\$2.96	\$115	\$1.60	\$62	\$3,169	\$1,339	\$4,685	\$7.53	\$293	\$4.07	\$159	\$1,536	\$795	\$2,784	\$409	\$221	\$4,705	\$2,134	\$7,470	

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

Totals (\$000s):

\$199

\$115

\$3,590

\$1,562

\$5,467

\$552

\$297

\$2,591

\$1,376

\$4,816

\$751

\$412

\$6,181

\$2,938

\$10,282

WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs	
18117763	OHIO	WP	OH-WRIGHT-PATTERSON AFB-SKEEL AVE BLDG 30016 -- INSTALL SERVICE	11/10/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	110	\$2.96	\$325	\$1.60	\$176	\$3,169	\$1,468	\$5,138	\$7.53	\$828	\$4.07	\$448	\$1,536	\$1,125	\$3,937	\$1,153	\$624	\$4,705	\$2,593	\$9,075
18224392	OHIO	CN	OH-KETTERING-311 SHADY CREST DRIVE -LEAK-REPAIR---	11/20/2020	HDPE		Main to Meter - Under 200 feet	83	\$2.96	\$245	\$1.60	\$133	\$3,169	\$1,419	\$4,966	\$7.53	\$625	\$4.07	\$338	\$1,536	\$1,000	\$3,499	\$870	\$471	\$4,705	\$2,418	\$8,465
17415088	OHIO	TR	OH-WEST MILTON-389 HAYES ST --- RENEW SERVICE/METER MOVEOUT	3/12/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17973150	OHIO	FA	OH-DAYTON-1624 FORESTDALE AVE -LEAK-REPAIR---	7/24/2020	HDPE	1.00 INCH	Curb to Meter	6	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$67	\$5.70	\$34	\$4,142	\$1,697	\$5,941	\$67	\$34	\$4,142	\$1,697	\$5,941
17339594	OHIO	FA	OH-XENIA-2040 FOREST BEND -LEAK-REPAIR---	1/16/2020	STEEL	1.25 INCH	Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17293317	OHIO	DW	OH-DAYTON-4600 KINGS HWY --- SERVICE RENEWAL	1/8/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	70	\$2.96	\$207	\$1.60	\$112	\$3,169	\$1,395	\$4,883	\$7.53	\$527	\$4.07	\$285	\$1,536	\$939	\$3,288	\$734	\$397	\$4,705	\$2,334	\$8,171
17459212	OHIO	DW	OH-FARMERSVILLE-300 DEAN DR -LEAK-REPAIR--- -LEAK-REPAIR	2/20/2020	HDPE		Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
17279284	OHIO	CN	OH-CENTERVILLE-290 ROANNE CT -LEAK-REPAIR---	4/3/2020	HDPE		Main to Meter - Under 200 feet	32	\$2.96	\$95	\$1.60	\$51	\$3,169	\$1,326	\$4,641	\$7.53	\$241	\$4.07	\$130	\$1,536	\$763	\$2,671	\$335	\$182	\$4,705	\$2,089	\$7,311
16449151	OHIO	WC	OH-NEW HOLLAND-3778 MILLER RD UNIT GRNDRY---AMR PROJECT	2/6/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605
17148789	OHIO	DW	OH-DAYTON-3703 W. SECOND -LEAK-REPAIR---	2/12/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17129475	OHIO	TR	OH-SIDNEY-1062 S FOURTH AVE ---RESZG	2/19/2020	HDPE		Main to Meter - Under 200 feet	32	\$2.96	\$95	\$1.60	\$51	\$3,169	\$1,326	\$4,641	\$7.53	\$241	\$4.07	\$130	\$1,536	\$763	\$2,671	\$335	\$182	\$4,705	\$2,089	\$7,311
18008707	OHIO	DW	OH-ENGLEWOOD-261 PORTER DR ---RELOG	9/12/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329
17337237	OHIO	DW	OH-DAYTON-2043 BICKMORE AVE -LEAK-REPAIR---	1/14/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	29	\$2.96	\$86	\$1.60	\$46	\$3,169	\$1,320	\$4,622	\$7.53	\$218	\$4.07	\$118	\$1,536	\$749	\$2,622	\$304	\$164	\$4,705	\$2,070	\$7,243
17193383	OHIO	DW	OH-DAYTON-2044 EDGEWORTH AVE -LEAK-REPAIR---	3/23/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306
13886294	OHIO	DW	OH-DAYTON-1837 LITCHFIELD AVE ---	3/16/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18006400	OHIO	FA	OH-FAIRBORN-3 GALEWOOD DR HSMTR --- OH-FAIRBORN-3 GALEWOOD DR BSCI	8/21/2020	HDPE		Main to Meter - Under 200 feet	25	\$2.96	\$74	\$1.60	\$40	\$3,169	\$1,313	\$4,596	\$7.53	\$188	\$4.07	\$102	\$1,536	\$731	\$2,557	\$262	\$142	\$4,705	\$2,044	\$7,153
18192251	OHIO	CN	OH-DAYTON-5397 BIGGER RD -LEAK-REPAIR---	11/3/2020	HDPE		Main to Meter - Under 200 feet	51	\$2.96	\$151	\$1.60	\$82	\$3,169	\$1,361	\$4,762	\$7.53	\$384	\$4.07	\$208	\$1,536	\$851	\$2,979	\$535	\$289	\$4,705	\$2,212	\$7,741
17992742	OHIO	FA	OH-KETTERING-3525 VALLEYWOOD DR -LEAK-REPAIR---	8/5/2020	HDPE		Curb to Meter	22	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$246	\$5.70	\$125	\$4,142	\$1,805	\$6,319	\$246	\$125	\$4,142	\$1,805	\$6,319
17329367	OHIO	DW	OH-DAYTON-6525 STILLCREST WAY -LEAK-REPAIR---	4/2/2020	HDPE		Main to Meter - Under 200 feet	2	\$2.96	\$6	\$1.60	\$3	\$3,169	\$1,271	\$4,449	\$7.53	\$15	\$4.07	\$8	\$1,536	\$624	\$2,183	\$21	\$11	\$4,705	\$1,895	\$6,633
17732238	OHIO	WC	OH-WILMINGTON-634 KATHRYN DR -LEAK-REPAIR---	5/15/2020	HDPE		Main to Meter - Under 200 feet	100	\$2.96	\$296	\$1.60	\$160	\$3,169	\$1,450	\$5,074	\$7.53	\$753	\$4.07	\$407	\$1,536	\$1,078	\$3,775	\$1,048	\$567	\$4,705	\$2,528	\$8,849
18205839	OHIO	CN	OH-KETTERING-4329 MAXLIN RD -LEAK-REPAIR--- -LEAK-REPAIR	11/11/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306
18255993	OHIO	DW	OH-DAYTON-5 LANYARD --- SERVICE RENEWAL METER MOVE OUT	12/3/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
14098623	OHIO	WC	OH-WASHINGTON COURT HOUSE-612 LAMAR CT ---	1/15/2020	HDPE		Main to Meter - Under 200 feet	103	\$2.96	\$304	\$1.60	\$165	\$3,169	\$1,455	\$5,093	\$7.53	\$775	\$4.07	\$419	\$1,536	\$1,092	\$3,823	\$1,080	\$584	\$4,705	\$2,548	\$8,917
17333280	OHIO	DW	OH-DAYTON-281 IMOGENE RD ---RELOG	3/3/2020	HDPE		Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492
17590728	OHIO	CN	OH-DAYTON-1118 ARBOR AVE --- SERVICE RENEW/WATER IN SERVICE	3/23/2020	HDPE		Main to Meter - Under 200 feet	30	\$2.96	\$89	\$1.60	\$48	\$3,169	\$1,322	\$4,628	\$7.53	\$226	\$4.07	\$122	\$1,536	\$754	\$2,638	\$314	\$170	\$4,705	\$2,076	\$7,286
17537734	OHIO	WC	OH-JEFFERSONVILLE-142 WOODSVIEW CT --- SERVICE RENEWAL	3/13/2020	HDPE		Main to Meter - Under 200 feet	114	\$2.96	\$337	\$1.60	\$182	\$3,169	\$1,475	\$5,164	\$7.53	\$858	\$4.07	\$464	\$1,536	\$1,143	\$4,002	\$1,195	\$647	\$4,705	\$2,619	\$9,166
17813918	OHIO	CN	OH-DAYTON-118 WOODLAND AVE ---RESZG	8/25/2020	HDPE		Main to Meter - Under 200 feet	19	\$2.96	\$56	\$1.60	\$30	\$3,169	\$1,302	\$4,558	\$7.53	\$143	\$4.07	\$77	\$1,536	\$703	\$2,459	\$199	\$108	\$4,705	\$2,005	\$7,017
18010615	OHIO	TR	OH-GREENVILLE-1327 JONQUIL LN -RELOG	9/4/2020	HDPE		Main to Meter - Under 200 feet	98	\$2.96	\$290	\$1.60	\$157	\$3,169	\$1,446	\$5,062	\$7.53	\$737	\$4.07	\$399	\$1,536	\$1,069	\$3,742	\$1,027	\$556	\$4,705	\$2,515	\$8,804
18181974	OHIO	DW	OH-TIPP CITY-2112 SILVER LINDEN DR -LEAK-REPAIR--- -LEAK-REPAIR	10/26/2020	HDPE	1.00 INCH	Curb to Meter	1	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$11	\$5.70	\$6	\$4,142	\$1,664	\$5,823	\$11	\$6	\$4,142	\$1,664	\$5,823
18006825	OHIO	DW	OH-TIPP CITY-3011 CATTAIL DR ---RESZG	9/30/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18101611	OHIO	CN	OH-DAYTON-1232 ROSE BOWER AVE -LEAK-REPAIR---	9/16/2020	HDPE		Main to Meter - Under 200 feet	46	\$2.96	\$136	\$1.60	\$74	\$3,169	\$1,351	\$4,730	\$7.53	\$346	\$4.07	\$187	\$1,536	\$828	\$2,898	\$482	\$261	\$4,705	\$2,179	\$7,628
18264574	OHIO	FA	OH-DAYTON-2200 HAZEL AVE ---RELOG	12/9/2020	HDPE		Main to Meter - Under 200 feet	63	\$2.96	\$186	\$1.60	\$101	\$3,169	\$1,382	\$4,838	\$7.53	\$474	\$4.07	\$257	\$1,536	\$907	\$3,174	\$660	\$357	\$4,705	\$2,289	\$8,012
17168122	OHIO	DW	OH-DAYTON-1729 CATALPA DR -LEAK-REPAIR---	3/5/2020	HDPE		Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
17590725	OHIO	CN	OH-DAYTON-950 WENBROOK DR --- RENEW SERV AND MOVE REG TO HW	3/23/2020	HDPE		Main to Meter - Under 200 feet	59	\$2.96	\$174	\$1.60	\$94	\$3,169	\$1,375	\$4,813	\$7.53	\$444	\$4.07	\$240	\$1,536	\$888	\$3,109	\$618	\$335	\$4,705	\$2,263	\$7,922
17424406	OHIO	FA	OH-KETTERING-1336 BERWIN AVE -LEAK-REPAIR---	2/28/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17803900	OHIO	WC	OH-WILMINGTON-216 N CHILLICOTHE -LEAK-REPAIR---	5/27/2020	HDPE		Main to Meter - Under 200 feet	111	\$2.96	\$328	\$1.60	\$178	\$3,169	\$1,470	\$5,144	\$7.53	\$835	\$4.07	\$452	\$1,536	\$1,130	\$3,953	\$1,163	\$630	\$4,705	\$2,599	\$9,098
16814400	OHIO	DW	OH-CLAYTON-6800 HOKE RD ---RESZG	6/3/2020	HDPE		Main to Meter - Over 200 feet	489	\$2.96	\$1,445	\$0.64	\$314	\$3,169	\$1,971	\$6,899	\$7.53	\$3,680	\$1.63	\$799	\$1,536	\$2,406	\$8,421	\$5,125	\$1,112	\$4,705	\$4,377	\$15,320
17279029	OHIO	FA	OH-NEW CARUSILE-616 W MADISON ST -LEAK-REPAIR---	8/8/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	22	\$2.96	\$65	\$1.60	\$35	\$3,169	\$1,308	\$4,577	\$7.53	\$166	\$4.07	\$90	\$1,536	\$717	\$2,508	\$231	\$125	\$4,705	\$2,024</	

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation										Totals (\$000s):																	
										\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282			
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Main to Curb (Non-Incremental)							Curb to Meter (Incremental)							Grand Total (Main to Curb + Curb to Meter)				
									Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total misc cost	Total overhead cost	Total all costs
15131716	OHIO	DW	OH-DAYTON-721 SPRINGFIELD ST --AMR PROJECT	1/23/2020	HDPE		Main to Meter - Under 200 feet	13	\$2.96	\$38	\$1.60	\$21	\$3,169	\$1,291	\$4,520	\$7.53	\$98	\$4.07	\$53	\$1,536	\$675	\$2,362	\$136	\$74	\$4,705	\$1,966	\$6,882
17325720	OHIO	TR	OH-SIDNEY-1453 MAIN AVE -LEAK-REPAIR--	5/1/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17708692	OHIO	CN	OH-DAYTON-2639 BLANCHARD AVE -LEAK-REPAIR--	4/29/2020	HDPE		Main to Meter - Under 200 feet	55	\$2.96	\$163	\$1.60	\$98	\$3,169	\$1,368	\$4,787	\$7.53	\$414	\$4.07	\$224	\$1,536	\$870	\$3,044	\$576	\$312	\$4,705	\$2,238	\$7,831
17931110	OHIO	DW	OH-DAYTON-331 N ORCHARD AVE -- SERVICE RENEWAL	7/6/2020	HDPE		Main to Meter - Under 200 feet	42	\$2.96	\$124	\$1.60	\$67	\$3,169	\$1,344	\$4,704	\$7.53	\$316	\$4.07	\$171	\$1,536	\$809	\$2,833	\$440	\$238	\$4,705	\$2,154	\$7,537
16888128	OHIO	DW	OH-BROOKVILLE-39 MARCH AVE -LEAK-REPAIR--	7/24/2020	HDPE		Main to Meter - Under 200 feet	47	\$2.96	\$139	\$1.60	\$75	\$3,169	\$1,353	\$4,736	\$7.53	\$354	\$4.07	\$191	\$1,536	\$833	\$2,914	\$493	\$267	\$4,705	\$2,186	\$7,650
16980181	OHIO	DW	OH-DAYTON-1018 HAVILAND -LEAK-REPAIR--	1/28/2020	STEEL		Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18156839	OHIO	DW	OH-BROOKVILLE-351 SYCAMORE STREET -LEAK-REPAIR--	10/14/2020	HDPE		Curb to Meter	38	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$425	\$5.70	\$217	\$4,142	\$1,913	\$6,697	\$425	\$217	\$4,142	\$1,913	\$8,697
18281846	OHIO	TR	OH-PIQUA-114 LAKEWOOD -LEAK-REPAIR--	12/17/2020	HDPE		Curb to Meter	3	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$34	\$5.70	\$17	\$4,142	\$1,677	\$5,870	\$34	\$17	\$4,142	\$1,677	\$5,870
17558514	OHIO	DW	OH-DAYTON-49 W NOTTINGHAM RD -LEAK-REPAIR--	6/1/2020	HDPE		Main to Meter - Under 200 feet	61	\$2.96	\$180	\$1.60	\$98	\$3,169	\$1,379	\$4,826	\$7.53	\$459	\$4.07	\$248	\$1,536	\$988	\$3,141	\$639	\$346	\$4,705	\$2,276	\$7,967
18066029	OHIO	CN	OH-DAYTON-4116 MEADOWCROFT RD -LEAK-REPAIR--	8/28/2020	HDPE		Main to Meter - Under 200 feet	108	\$2.96	\$319	\$1.60	\$173	\$3,169	\$1,464	\$5,125	\$7.53	\$813	\$4.07	\$440	\$1,536	\$1,116	\$3,905	\$1,132	\$613	\$4,705	\$2,580	\$9,030
17312935	OHIO	WC	OH-WASHINGTON COURT HOUSE-624 GIBBS AVE -LEAK-REPAIR--	1/8/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	41	\$2.96	\$121	\$1.60	\$66	\$3,169	\$1,342	\$4,698	\$7.53	\$309	\$4.07	\$167	\$1,536	\$805	\$2,817	\$430	\$233	\$4,705	\$2,147	\$7,515
17931126	OHIO	TR	OH-NEW BREMEN-6617 COUNTY ROAD 66A --RELOG	10/1/2020	HDPE		Main to Meter - Under 200 feet	81	\$2.96	\$239	\$1.60	\$130	\$3,169	\$1,415	\$4,953	\$7.53	\$610	\$4.07	\$330	\$1,536	\$990	\$3,466	\$849	\$459	\$4,705	\$2,406	\$8,419
17339707	OHIO	DW	OH-DAYTON-122 S GARFIELD ST -LEAK-REPAIR--	1/17/2020	HDPE		Main to Meter - Under 200 feet	20	\$2.96	\$59	\$1.60	\$32	\$3,169	\$1,304	\$4,564	\$7.53	\$151	\$4.07	\$81	\$1,536	\$707	\$2,476	\$210	\$113	\$4,705	\$2,011	\$7,040
17325831	OHIO	BF	OH-RUSSELLS POINT-7795 MAPLE ST --RESZG	1/8/2020			Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
17034197	OHIO	WC	OH-NEW HOLLAND-30 N EAST ST -LEAK-REPAIR--	3/6/2020	HDPE		Main to Meter - Under 200 feet	45	\$2.96	\$133	\$1.60	\$72	\$3,169	\$1,350	\$4,724	\$7.53	\$339	\$4.07	\$183	\$1,536	\$823	\$2,882	\$472	\$255	\$4,705	\$2,173	\$7,605
17649605	OHIO	TR	OH-GREENVILLE-151 VIRGINIA -LEAK-REPAIR--	4/16/2020	HDPE		Main to Curb	12	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17794151	OHIO	CN	OH-KETTERING-1513 W STROOP RD -LEAK-REPAIR--	5/28/2020	HDPE		Curb to Meter	10	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$112	\$5.70	\$57	\$4,142	\$1,724	\$6,036	\$112	\$57	\$4,142	\$1,724	\$6,036
17814253	OHIO	TR	OH-SIDNEY-102 LYNHDURST ST -- SERV NEEDS TO BE WRITTEN UP FOR SERV R	6/19/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
17915287	OHIO	CN	OH-DAYTON-2306 HOME AVE -LEAK-REPAIR-- -LEAK-REPAIR	7/8/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18057396	OHIO	FA	OH-FAIRBORN-3218 LANCASTER RD -LEAK-REPAIR--	8/24/2020	HDPE		Main to Meter - Under 200 feet	155	\$2.96	\$458	\$1.60	\$248	\$3,169	\$1,550	\$5,425	\$7.53	\$1,166	\$4.07	\$631	\$1,536	\$1,334	\$4,668	\$1,625	\$879	\$4,705	\$2,884	\$10,093
17335955	OHIO	DW	OH-TROTWOOD-6253 WEYBRIDGE DR -- SERVICE RENEWEL CATTLE HORN SER	1/9/2020	HDPE	1.00 INCH	Main to Meter - Under 200 feet	94	\$2.96	\$278	\$1.60	\$150	\$3,169	\$1,439	\$5,036	\$7.53	\$707	\$4.07	\$383	\$1,536	\$1,051	\$3,677	\$985	\$533	\$4,705	\$2,490	\$8,713
17713097	OHIO	WC	OH-JEFFERSONVILLE-35 STATE ST -LEAK-REPAIR-- RCKD 4.20.20	10/12/2020			Main to Meter - Under 200 feet	0	\$2.96	\$0	\$1.60	\$0	\$3,169	\$1,268	\$4,437	\$7.53	\$0	\$4.07	\$0	\$1,536	\$615	\$2,151	\$0	\$0	\$4,705	\$1,882	\$6,588
18135680	OHIO	FA	OH-YELLOW SPRINGS-1730 SOUTHWIEW DR --RESZG	10/2/2020		1.00 INCH	Meter Set Replacement	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	Unit cost	\$661	Unit cost	\$419	\$0	\$432	\$1,512	\$661	\$419	\$0	\$432	\$1,512	
18285003	OHIO	WC	OH-WILMINGTON-204 GRANT ST -LEAK-REPAIR-- -LEAK-REPAIR	12/18/2020	HDPE		Main to Curb	3	Unit cost	\$435	Unit cost	\$377	\$4,705	\$2,207	\$7,724	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$435	\$377	\$4,705	\$2,207	\$7,724
17824419	OHIO	DW	OH-DAYTON-5575 DENLINGER RD -LEAK-REPAIR-- -LEAK-REPAIR	6/8/2020	HDPE		Curb to Meter	2	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$11.18	\$22	\$5.70	\$11	\$4,142	\$1,670	\$5,847	\$22	\$11	\$4,142	\$1,670	\$5,847
17454568	OHIO	CN	OH-KETTERING-640 WILTSHIRE BLVD -LEAK-REPAIR--	2/20/2020	HDPE		Main to Meter - Under 200 feet	79	\$2.96	\$233	\$1.60	\$126	\$3,169	\$1,412	\$4,940	\$7.53	\$595	\$4.07	\$322	\$1,536	\$981	\$3,434	\$828	\$448	\$4,705	\$2,393	\$8,374
16714377	OHIO	WC	OH-SABINA-58 W LEWIS ST -LEAK-REPAIR--	1/15/2020	HDPE		Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
11203629	OHIO	TR	OH-PIQUA-129 ROOSEVELT AVE --RELO	3/6/2020	HDPE		Main to Meter - Under 200 feet	33	\$2.96	\$98	\$1.60	\$53	\$3,169	\$1,328	\$4,647	\$7.53	\$248	\$4.07	\$134	\$1,536	\$768	\$2,687	\$346	\$187	\$4,705	\$2,095	\$7,334
17202147	OHIO	BF	OH-LAKEVIEW-11549 COOPER AVE -LEAK-REPAIR--	4/6/2020	HDPE	0.50 INCH	Main to Meter - Under 200 feet	60	\$2.96	\$177	\$1.60	\$96	\$3,169	\$1,377	\$4,819	\$7.53	\$452	\$4.07	\$244	\$1,536	\$893	\$3,125	\$629	\$340	\$4,705	\$2,270	\$7,944
18008933	OHIO	DW	OH-VANDALIA-349 NORTH AMERICAN BLVD --RELOG	9/24/2020	HDPE		Main to Meter - Under 200 feet	58	\$2.96	\$171	\$1.60	\$93	\$3,169	\$1,373	\$4,806	\$7.53	\$436	\$4.07	\$236	\$1,536	\$884	\$3,093	\$608	\$329	\$4,705	\$2,257	\$7,899
17998522	OHIO	CN	OH-DAYTON-1609 CHARTWELL DR --RELOG	10/13/2020	HDPE		Main to Meter - Under 200 feet	49	\$2.96	\$145	\$1.60	\$78	\$3,169	\$1,357	\$4,749	\$7.53	\$369	\$4.07	\$200	\$1,536	\$842	\$2,947	\$514	\$278	\$4,705	\$2,199	\$7,696
17225556	OHIO	CN	OH-DAYTON-1158 ASHLAND AVE -LEAK-REPAIR--	12/14/2020	HDPE		Main to Meter - Under 200 feet	28	\$2.96	\$83	\$1.60	\$45	\$3,169	\$1,319	\$4,615	\$7.53	\$211	\$4.07	\$114	\$1,536	\$744	\$2,606	\$293	\$159	\$4,705	\$2,063	\$7,221
17144343	OHIO	CN	OH-DAYTON-20 CENTERWOOD LN -LEAK-REPAIR--	1/21/2020	HDPE		Main to Meter - Under 200 feet	114	\$2.96	\$337	\$1.60	\$182	\$3,169	\$1,475	\$5,164	\$7.53	\$858	\$4.07	\$464	\$1,536	\$1,143	\$4,002	\$1,195	\$647	\$4,705	\$2,619	\$9,166
17650985	OHIO	DW	OH-BROOKVILLE-630 ALBERT RD -LEAK-REPAIR-- -LEAK-REPAIR	4/16/2020	HDPE		Main to Meter - Under 200 feet	2	\$2.96	\$6	\$1.60	\$3	\$3,169	\$1,271	\$4,449	\$7.53	\$15	\$4.07	\$8	\$1,536	\$624	\$2,183	\$21	\$11	\$4,70		

CEOH 2020 Service Replacement Work Order Detail & Cost Allocation

									Totals (\$000s):					\$199	\$115	\$3,590	\$1,562	\$5,467	\$552	\$297	\$2,591	\$1,376	\$4,816	\$751	\$412	\$6,181	\$2,938	\$10,282
WONUM	DIV	OC	DESCRIPTION	ACT_FINISH DATE	pipe_installed-material	pipe_installed-size	Service Replacement Type	pipe_installed-length	Main to Curb (Non-Incremental)						Curb to Meter (Incremental)						Grand Total (Main to Curb + Curb to Meter)							
									Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal main to curb	Labor cost/ft	Labor cost	Mat'l cost/ft	Mat'l cost	Misc cost	Overhead cost	Subtotal curb to meter	Total labor cost	Total mat'l cost	Total Misc cost	Total overhead cost	Total all costs	
17924229	OHIO	FA	OH-FAIRBORN-448 IVANHOE DR -LEAK-REPAIR~~	7/14/2020	HDPE	2.00 INCH	Main to Meter - Under 200 feet	40	\$2.96	\$118	\$1.60	\$64	\$3,169	\$1,340	\$4,692	\$7.53	\$301	\$4.07	\$163	\$1,536	\$800	\$2,800	\$419	\$227	\$4,705	\$2,141	\$7,492	
17228270	OHIO	DW	OH-DAYTON-3301 KLEPINGER RD ~-AMR	8/5/2020	HDPE		Main to Meter - Under 200 feet	132	\$2.96	\$390	\$1.60	\$211	\$3,169	\$1,508	\$5,278	\$7.53	\$993	\$4.07	\$538	\$1,536	\$1,227	\$4,294	\$1,384	\$749	\$4,705	\$2,735	\$9,573	
17141283	OHIO	FA	OH-DAYTON-1317 WHEATLAND AVE -LEAK-REPAIR~~	3/5/2020	HDPE		Main to Meter - Under 200 feet	80	\$2.96	\$236	\$1.60	\$128	\$3,169	\$1,413	\$4,947	\$7.53	\$602	\$4.07	\$326	\$1,536	\$986	\$3,450	\$838	\$454	\$4,705	\$2,399	\$8,397	
17814253	OHIO	TR	OH-SIDNEY-102 LYN DHURST ST ~-SERV NEEDS TO BE WRITTEN UP FOR SERV R	6/19/2020	HDPE		Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329	
18017189	OHIO	CN	OH-DAYTON-4070 GLENHEATH -LEAK-REPAIR~~	8/18/2020	HDPE		Main to Meter - Under 200 feet	76	\$2.96	\$225	\$1.60	\$122	\$3,169	\$1,406	\$4,921	\$7.53	\$572	\$4.07	\$310	\$1,536	\$967	\$3,385	\$797	\$431	\$4,705	\$2,373	\$8,306	
16905752	OHIO	CN	OH-WAYNESVILLE-127 NORTH ST -LEAK-REPAIR~~	9/4/2020	HDPE	Main to Meter - Under 200 feet	63	\$2.96	\$186	\$1.60	\$101	\$3,169	\$1,382	\$4,838	\$7.53	\$474	\$4.07	\$257	\$1,536	\$907	\$3,174	\$660	\$357	\$4,705	\$2,289	\$8,012		
17928979	OHIO	FA	OH-DAYTON-3171 RESEARCH BLVD ~-REPLACE SERVICE	8/19/2020	HDPE	Main to Meter - Under 200 feet	4	\$2.96	\$12	\$1.60	\$6	\$3,169	\$1,275	\$4,462	\$7.53	\$30	\$4.07	\$16	\$1,536	\$633	\$2,216	\$42	\$23	\$4,705	\$1,908	\$6,678		
18147814	OHIO	CN	OH-KETTERING-1472 E STROOP RD -LEAK-REPAIR~~	10/8/2020	HDPE	Main to Meter - Under 200 feet	77	\$2.96	\$228	\$1.60	\$123	\$3,169	\$1,408	\$4,928	\$7.53	\$579	\$4.07	\$314	\$1,536	\$972	\$3,401	\$807	\$437	\$4,705	\$2,380	\$8,329		
18199632	OHIO	CN	OH-WEST CARROLLTON-1116 EAGLE FEATHER CIR -LEAK-REPAIR~~	11/10/2020	HDPE	Main to Meter - Under 200 feet	30	\$2.96	\$89	\$1.60	\$48	\$3,169	\$1,322	\$4,628	\$7.53	\$226	\$4.07	\$122	\$1,536	\$754	\$2,638	\$314	\$170	\$4,705	\$2,076	\$7,266		

Operating & Maintenance Savings Calculation

A		B	C	
			Baseline Savings	
1	Savings from 2018 Retired BS/CI Mileage	56.49	\$ 5,882	\$ 332,274 A1xB1
2	Savings from 2019 Retired BS/CI Mileage	49.55	\$ 5,882	\$ 291,453 A2xB2
3	Savings from 2020 Retired BS/CI Mileage	56.72	\$ 5,882	\$ 333,627 A3xB3
4	Total Savings:		\$ 957,354	C1

* Baseline savings prior to 2018 are in base rates

CEOH 2020 Maintenance Expense - BS/CI & Service Line Ownership

Service O&M Expense Change							
		A		B		C	
Meter Order Management							
		Baseline		2020		Change from Baseline	
1	Meter Orders						
	Outside Leaks	3,616		2,867			
2	Investigate Gas Emergency	685		620			
3	No Gas	1,756		1,175			
4	Water in Service	2		-			
5	Total	6,059		4,662			
6	% Allocated to BS/CI Facilities	30%		21%			
7	Orders applicable to BS/CI	1,806	A5 * A6	956	B5 * B6		
		Baseline		2020			
8	Total Meter Orders	141,145		96,720			
9	Meter Order Mgmt Actuals	\$ 5,364,831		\$ 4,250,553			
10	Average Cost per Order	38.01	A9/A8	43.95	B9/B8		
11	Average cost per Asset Condition based Order	76.02	2 * A10	87.89	2 * B10		
* Leak Investigation order averages approximately 2x's longer than average meter order							
		Baseline (C1xC2)		2020		Change from Baseline	
12	Orders Applicable to BS/CI x Average Order Cost per Asset Condition based Order	\$ 137,258	A7 * A11	\$ 84,001	B7 * B11	\$ 53,257	A12 - B12

Leak Repair & Management							
		Baseline		2020		Change from Baseline	
13	Service Leak Repair Actuals	\$ 510,754		\$ 225,927		\$ 284,827	A13-B13
14	% of Service BS/CI Leak Repairs	26%		14%			
15	Incremental Service O&M Expenses attributable to BS/CI	\$ 130,753	A13*A14	\$ 32,533	B13*B14	\$ 98,220	A15-B15
16	Incremental Service O&M Expenses attributable to All Other Asset Types	\$ 380,001	A13-A15	\$ 193,394	B13-B15	\$ 186,607	A16-B16
17	TOTAL BS/CI SERVICE MAINTENANCE EXPENSES	\$ 268,011	A12+A15	\$ 116,535	B12+B15	\$ 151,476	A17-B17

MAIN O&M Expense Change							
Leak Repair & Management							
		Baseline		2020		Change from Baseline	
18	Total Main Leak Repair Actuals	\$ 2,854,630		\$ 1,689,723			
19	Cost Associated with Soft Surface Repairs	\$ 2,198,065		\$ 1,142,253			
20	% of Soft Surface Repairs on BS/CI Main Leaks	28%		14%			
21	Cost Associated with Hard Surface Repairs	\$ 656,565		\$ 547,470			
22	% of Hard Surface Repairs on BS/CI Main Leaks	48%		39%			
23	Main O&M Expenses attributable to BS/CI	\$ 923,593	(A19*A20)+(A21*A22)	\$ 367,951	(B19*B20)+(B21*B22)	\$ 555,642	A23-B23
24	Total O&M Maintenance Expenses (Main + Services)	\$ 1,191,604	A17+A23	\$ 484,485	B17+B23	\$ 707,118	A24-B24

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of)	
Vectren Energy Delivery of Ohio, Inc. d/b/a)	
CenterPoint Energy Ohio for Authority to)	Case No. 21-0491-GA-RDR
Adjust Its Distribution Replacement Rider)	
Charges.)	

DIRECT TESTIMONY

OF

BRITTANY A. FLEIG

MANAGER, REGULATORY REPORTING

ON BEHALF OF

VECTREN ENERGY DELIVERY OF OHIO, INC.

D/B/A CENTERPOINT ENERGY OHIO

**Direct Testimony of
Brittany A. Fleig**

I. INTRODUCTION

Q1. Please state your name and business address.

A. My name is Brittany A. Fleig and my business address is 211 NW Riverside Drive,
Evansville, Indiana 47708.

Q2. What position do you hold with Applicant CenterPoint Energy Ohio (CEOH or the Company)?

A. I am Manager, Regulatory Reporting for CenterPoint Energy, Inc. (CenterPoint), the
immediate parent company of Vectren Energy Delivery of Ohio, Inc. d/b/a CenterPoint
Energy Ohio (CEOH or Company). I also hold this same position with two other utility
subsidiaries of CenterPoint – Indiana Gas Company, Inc. d/b/a CenterPoint Energy
Indiana North (CEI North) and Southern Indiana Gas and Electric Company d/b/a
CenterPoint Energy Indiana South (CEI South).

Q3. Please describe your educational background.

A. I graduated from University of Southern Indiana in 2013 with a Bachelor of Science
Degree in Accounting.

Q4. Please describe your professional experience.

A. I began working for CenterPoint or its predecessor companies in April 2013 as an Associate
Auditor and have held various auditing and accounting positions with increasing responsibility
within the Company since that time. Those positions include Staff Auditor, Senior Auditor, and
Manager of Minnesota Gas and Corporate Consolidations. In April 2020, I was named to my
current position as Manager of Regulatory Reporting. Prior to my role as Senior Auditor, I was
employed by Kimball Electronics as a Staff Auditor.

Q5. What are your present duties and responsibilities as Manager, Regulatory Reporting?

A. I am responsible for the financial analysis and implementation of regulatory initiatives for CenterPoint's regulated utility operations covering Indiana and Ohio. These duties include preparation of accounting exhibits submitted in various regulatory proceedings for these operations, including CEOH.

Q6. Are you familiar with the books, records, and accounting procedures of CEOH?

A. Yes, I am.

Q7. Are CEOH's books and records maintained in accordance with the Uniform System of Accounts (USoA) and generally accepted accounting principles?

A. Yes.

Q8. Have you previously testified before this Commission or any other state regulatory commission?

A. Yes, I have testified in CEOH's Capital Expenditure Plan (CEP) Rider proceeding, Case No. 21-0620-GA-RDR. Additionally, I have testified before the Indiana Utility Regulatory Commission (IURC) on behalf of CenterPoint Energy, Inc.

Q9. What is the purpose of your testimony in this proceeding?

A. My testimony explains the calculation of the revenue requirement for CEOH's DRR, which includes the bare-steel and cast-iron replacement program (the Replacement Program) and incremental costs associated with the Company's assumption of service line responsibility. I will also provide an explanation of the accounting procedures the Company uses to record and segregate the costs recoverable in the DRR.

Q10. What Exhibits are you sponsoring in this proceeding?

A. The following exhibits are attached to my testimony:

- Exhibit No. BAF-1 – Summary of DRR Revenue Requirement

- 1 • Exhibit No. BAF-2 – Revenue Requirement for Main Replacement Program
- 2 • Exhibit No. BAF-2a – Utility Plant Additions for Main Replacement Program
- 3 • Exhibit No. BAF-2b – Utility Plant Retirements for Main Replacement Program
- 4 • Exhibit No. BAF-2c – Accumulated Depreciation for Main Replacement Program
- 5 • Exhibit No. BAF-2d – Cost of Removal for Main Replacement Program
- 6 • Exhibit No. BAF-2e – Post in Service Carrying Costs (PISCC) for Main Replacement
- 7 Program
- 8 • Exhibit No. BAF-2f – Annualized Property Tax Expense for Main Replacement
- 9 Program
- 10 • Exhibit No. BAF-2g – Deferred Taxes on Liberalized Depreciation for Main
- 11 Replacement Program
- 12 • Exhibit No. BAF-2h – Deferred Depreciation Regulatory Asset Balance for Main
- 13 Replacement Program
- 14 • Exhibit No. BAF-3 – Revenue Requirement for Service Line and Completed Riser
- 15 Replacement Program
- 16 • Exhibit No. BAF-3a – Utility Plant Additions for Service Line and Riser
- 17 Replacement Program
- 18 • Exhibit No. BAF-3b – Utility Plant Retirements for Service Line and Riser
- 19 Replacement Program
- 20 • Exhibit No. BAF-3c – Accumulated Depreciation for Service Line and Riser
- 21 Replacement Program
- 22 • Exhibit No. BAF-3d – Cost of Removal for Service Line and Riser Replacement
- 23 Program
- 24 • Exhibit No. BAF-3e – PISCC for Service Line and Riser Replacement Program
- 25 • Exhibit No. BAF-3f – Annualized Property Tax Expense for Service Line and Riser
- 26 Replacement Program
- 27 • Exhibit No. BAF-3g – Deferred Taxes on Liberalized Depreciation for Service Line
- 28 and Riser Replacement Program
- 29 • Exhibit No. BAF-3h – Deferred Depreciation Regulatory Asset Balance for Service

II. BACKGROUND

Q11. Has the Commission approved changes to the DRR since it was originally approved in Case No. 07-1080-GA-AIR?

A. Yes. The Commission’s February 19, 2014 Order in Case No. 13-1571-GA-ALT approved a Stipulation and Recommendation (the 13-1571 Stipulation) between CEOH and the Staff of the Public Utilities Commission of Ohio. In the 13-1571 Stipulation, the Commission approved continuation of the DRR, which was originally approved in Case No. 07-1080-GA-AIR (the 2007 Rate Case). The 13-1571 Stipulation allowed CEOH to recover a return on and of investments made by the Company under an accelerated bare-steel and cast-iron pipeline replacement program, inclusive of capitalized interest (or post-in-service carrying costs, or PISCC) associated with the Replacement Program, and to recover the incremental costs of assuming responsibility for service lines.

Q12. How did the 13-1571 Stipulation modify the DRR?

A. The 13-1571 Stipulation provided that Replacement Program costs incurred through December 31, 2017 are recoverable in the DRR. It also accelerated the pace of the Replacement Program and clarified and expanded the scope of costs recoverable in the DRR. These and other modifications are described in further detail in the 13-1571 Stipulation itself.

Q13. Has CEOH been granted an extension of the DRR beyond 2017?

A. Yes. The 2018 Rate Case extended the DRR and Replacement Program for six years, for investments made starting in 2018 through 2023. The 2018 Rate Case specifically reflected agreement, within the Stipulation and Recommendation, by the signatory parties to continue the DRR and Replacement Program for this six-year period.

III. DRR REVENUE REQUIREMENT

Q14. Please explain the work order process that CEOH uses to segregate and record the capital costs of the bare steel and cast iron replacement and riser/service line replacement programs (collectively, the Programs) while the projects are under construction (the Program Construction Costs).

A. To ensure proper accumulation and segregation of Program Construction Costs, a project number is assigned to each capital work order. All Program Construction Costs, as incurred, are recorded to the assigned project number and are maintained in the Company's financial systems (specifically the Financial Information System (FIS) Projects Accounting (PA) module). The project number is required for the recording of all Program Construction Costs into any of the FIS feeder systems. Each of the feeder systems, which include payroll, accounts payable, and material inventory, interface with the PA module. Total Program Construction Costs incurred can be viewed and/or reported by the project number at any point in time as the Programs progress.

Q15. What costs did CEOH include in the value of the property for the DRR rate base additions?

A. The DRR includes the construction costs of the Programs, as well as engineering and project management, permitting, consulting services, site preparation, equipment and installation, cost of retirement, an allocation of administrative overhead, and other related expenses.

Q16. Is an allowance for funds used during construction (AFUDC) included in the Program Construction Costs?

A. Yes, AFUDC has been recorded as part of the Program Construction Costs in accordance with USoA. The 2020 AFUDC rate used for all other CEOH construction projects was 2.44%.

Q17. When does CEOH discontinue recording AFUDC on the Program Construction Costs?

A. CEOH ceases the accrual of AFUDC when each work order is placed in service and begins accruing PISCC. The annual PISCC rate in place prior to January 1, 2019, in accordance with the Order in the 2007 Rate Case, the 13-1571 Stipulation and the Order in Case No. 19-1011-GA-RDR, is 7.02%. In accordance with the Order in Case No. 20-101-GA-RDR, the PISCC rate is 5.07%, effective January 1, 2019. The Commission's order in the 2007 Rate Case approved the accrual of PISCC after the work order in-service date, along with the fixed rate utilized. The net PISCC deferred for the calendar year ended December 31, 2020 has been reflected on Exhibit No. BAF-2, Line 11 for mains and Exhibit No. BAF-3, Line 16 for service lines. In accordance with the 2018 Rate Case, all PISCC deferred through December 31, 2017 have been included in base rates and removed from the DRR.

Q18. What is PISCC?

A. PISCC stands for post-in-service carrying costs and is an allocation of interest cost to the infrastructure investments made in the Programs and is accumulated from the in-service date through the date each project's costs are included for recovery in the DRR or in base rates.

Q19. What rate of return is used to calculate the DRR revenue requirement?

A. In accordance with the terms of the 2018 Rate Case, the pre-tax rate of return applicable to DRR-recoverable investments is 8.81%.

Q20. Does the DRR revenue requirement include retirements and the cost of removal of utility plant assets?

A. Yes. Existing bare-steel and cast-iron mains and service lines are being retired as part of the Program. CEOH had discontinued the installation of bare-steel and cast-iron pipe by

the 1950s; therefore any retirements of these types of mains and service lines represent fully depreciated plant in service. As the retirements are performed, CEOH is also recording the cost to retire or remove the bare-steel and cast-iron assets as part of the Replacement Program.

Q21. How did CEOH account for the asset retirements and associated cost of removal?

A. In accordance with the USoA, the retirement of utility assets, at original cost, and the retirement's related cost of removal made necessary by the Replacement Program were charged to the associated depreciation reserve(s). The Replacement Program's original cost retirements are reflected on Exhibit No. BAF-2, Lines 4 and 9 for mains, and on Exhibit No. BAF-3, Lines 6 and 7 and Lines 13 and 14 for service lines, and cost of removal is reflected on Exhibit No. BAF-2, Line 8 for mains and Exhibit No. BAF-3, Line 12 for service lines.

Q22. What operating expenses are included in the DRR revenue requirement?

A. CEOH has reflected the incremental property tax (Exhibit No. BAF-2, Line 20 (mains) and Exhibit No. BAF-3, Line 27 (service lines)) and annualized depreciation expense (Exhibit No. BAF-2, Line 21 (mains) and Exhibit No. BAF-3, Line 28 and 29 (service lines)) based on the net additions to plant in service shown on Exhibit No. BAF-2, Line 5, mains, and Exhibit No. BAF-3, Line 8, service lines. The annualized depreciation expense was calculated using the depreciation rates approved in the 2018 Rate Case (2.57%), and property tax expense is supported by Exhibit No. BAF-2f (mains) and Exhibit No. BAF-3f (service lines and risers).

CEOH has also included in the DRR revenue requirement the incremental cost associated with assuming ownership of service lines. This expense is reflected on Exhibit No. BAF-

3, Line 33. CEOH witness Steven A. Hoover provides the support for the incremental expense in Exhibit No. SAH-8.

Q23. Are there maintenance expense adjustments associated with the Replacement Program?

A. Yes. As approved in the 2018 Rate Case, operations and maintenance (O&M) savings attributed to the Replacement Program are included as an offset to the costs recoverable in the DRR. In this case, the amount of the offset, reflected on CEOH witness Hoover's Exhibit No. SAH-7, was determined by a credit of \$5,882 per mile of cumulative bare-steel and cast-iron main retired, which results in a total O&M Savings Credit of \$957,354. As the 2018 Rate Case captured the impact of savings reflected for miles replaced through 2017, this credit captures savings for 2018 and beyond. This credit is reflected in the DRR revenue requirement on Exhibit No. BAF-2, Line 24 for mains and Exhibit No. BAF-3, Line 34 for services. CEOH witness Hoover discusses the determination of this O&M savings credit.

IV. EXPLANATION OF EXHIBITS

Q24. Please explain Exhibit No. BAF-1.

A. Exhibit No. BAF-1 summarizes the annualized revenue requirement exclusive of variances for the Programs. The revenue requirement is supported by Exhibit Nos. BAF-2 and BAF-3. Also, the level of actual incurred O&M expense associated with the Blue Ridge audit in 2020 is included within the total annual revenue requirement and will be recovered over the twelve-month rate effective period, as discussed by CEOH witness Katie J. Tieken.

Q25. Please explain Exhibit No. BAF-2 and Exhibit No. BAF-3.

A. Exhibit No. BAF-2 and Exhibit No. BAF-3 represent the revenue requirement calculation for CEOH's DRR charges based on net rate base at December 31, 2020, inclusive of PISCC and deferred taxes related to depreciation and PISCC. Exhibit No. BAF-2 represents the revenue requirement calculation for the main replacement program, and Exhibit No. BAF-3 represents the revenue requirement calculation for service line replacements.

Q26. Please explain Exhibit No. BAF-2a and Exhibit No. BAF-3a.

A. Exhibit No. BAF-2a and Exhibit No. BAF-3a provide the actual plant additions by month for the twelve months ended December 31, 2020, to determine utility plant additions at December 31, 2020. Exhibit No. BAF-2a provides information for the main replacement program, and Exhibit No. BAF-3a provides information for the service line replacement programs.

Q27. Please explain Exhibit No. BAF-2b and Exhibit No. BAF-3b.

A. Exhibit No. BAF-2b and Exhibit No. BAF-3b provides the actual original cost retired by month for projects completed during the twelve months ended December 31, 2020, to calculate the Replacement Program's total original cost retirements. Exhibit No. BAF-2b provides information for the main replacement program, and Exhibit No. BAF-3b provides information for the service line replacement programs.

Q28. Please explain Exhibit No. BAF-2c and Exhibit No. BAF-3c.

A. Exhibit No. BAF-2c and Exhibit No. BAF-3c provides the actual provision for depreciation by month for the twelve months ended December 31, 2020, to calculate the accumulated depreciation provision at December 31, 2020. The depreciation rates utilized for this period reflect those approved in the 2018 Rate Case for January 1, 2019 and

thereafter. Exhibit No. BAF-2c provides information for the main replacement program, and Exhibit No. BAF-3c provides information for the service line replacement programs.

Q29. Please explain Exhibit No. BAF-2d and Exhibit No. BAF-3d.

A. Exhibit No. BAF-2d and Exhibit No. BAF-3d provide the actual cost of removal by month for the twelve months ended December 31, 2020, to calculate the Program's total cost of removal through December 31, 2020. Exhibit No. BAF-2d provides information for the main replacement program, and Exhibit No. BAF-3d provides information for the service line replacement programs.

Q30. Please explain Exhibit No. BAF-2e and Exhibit No. BAF-3e.

A. Exhibit No. BAF-2e and Exhibit No. BAF-3e provide the PISCC activity by month for the twelve months ended December 31, 2020, to calculate the PISCC regulatory asset balance at December 31, 2020. These schedules also provide the amortization of PISCC by month for the twelve months ended December 31, 2020, and an accumulated PISCC amortization balance at December 31, 2020. Furthermore, these schedules provide the Net PISCC Regulatory Asset at December 31, 2020. As noted earlier in my testimony, the PISCC rate utilized for the period through December 31, 2018, 7.02%, is the rate approved in the 13-1571 Stipulation. Effective January 1, 2019, with the order in the 2018 Rate Case Order, the PISCC rate is updated to 5.07%. Exhibit No. BAF-2e provides information for the main replacement program, and Exhibit No. BAF-3e provides information for the service line replacement programs.

Q31. Please explain Exhibit No. BAF-2f and Exhibit No. BAF-3f.

A. Exhibit No. BAF-2f and Exhibit No. BAF-3f provide the calculation of the annualized property tax expense based on the net additions (mains, service lines and risers) to Plant In-Service under the Programs. This calculation follows the process used in CEOH's

Annual Report to the Ohio Department of Taxation to determine the Net Property Valuation and uses the latest known average personal property tax rate. Exhibit No. BAF-2f provides information for the net main additions, and Exhibit No. BAF-3f provides information for the net service line additions.

Q32. Please explain Exhibit No. BAF-2g and Exhibit No. BAF-3g.

A. Exhibit No. BAF-2g (mains) and Exhibit No. BAF-3g (service lines) provide the calculation of depreciation-related deferred taxes for the Programs' capital investments placed in service during 2020.

Q33. Please explain Exhibit No. BAF-2h and Exhibit No. BAF-3h.

A. Exhibit No. BAF-2h (mains) and Exhibit No. BAF-3h (service lines) provide the deferred depreciation activity by month for the twelve months ended December 31, 2020, to calculate the deferred depreciation regulatory asset balance as of December 31, 2020. These schedules also provide the amortization of deferred depreciation by month for the twelve months ended December 31, 2020, and an accumulated deferred depreciation amortization balance at December 31, 2020. Furthermore, these schedules provide the net deferred depreciation Regulatory Asset at December 31, 2020. Exhibit No. BAF-2h provides information for the main replacement program, and Exhibit No. BAF-3h provides information for the service line replacement programs.

V. CONCLUSION

Q34. Does this conclude your direct testimony?

A. Yes.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
SUMMARY OF DRR REVENUE REQUIREMENT

Line	Description	Amount	Reference
1	Mains Revenue Requirement	\$ 13,031,487	Exhibit No. BAF-2, Line 26
2	Service Lines Revenue Requirement	16,514,021	Exhibit No. BAF-3, Line 36
3	Subtotal DRR Revenue Requirement	\$ 29,545,509	Sum of Lines 1-2
4	O&M Expense associated with Blue Ridge Audit	\$ 50,925	WP BAF-1.2, Line 8
5	Annual DRR Revenue Requirement	\$ 29,596,434	Line 3 + Line 4

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
ANNUAL REVENUE REQUIREMENT - MAINS

Line	Description	Amount	Reference
1	<u>Return on Investment:</u>		
2	<u>Plant In-Service at December 31, 2020</u>		
3	Additions - Main Replacements	\$ 96,816,075	Exhibit BAF-2a, Column O, Line 2
4	Original Cost - Retired Mains	(2,172,036)	Exhibit BAF-2b, Column P, Line 2
5	Total Plant In-Service	\$ 94,644,038	Line 3 + Line 4
6	<u>Less: Accumulated Depreciation at December 31, 2020</u>		
7	Depreciation Expense - Mains	\$ (3,054,377)	Exhibit BAF-2c, Column O, Line 2
8	Cost of Removal - Mains	2,837,176	Exhibit BAF-2d, Column O, Line 2
9	Original Cost - Retired Mains	2,172,036	-Line 4
10	Total Accumulated Depreciation	\$ 1,954,835	Sum of Lines 7 - 9
11	Net Deferred Post In-Service Carrying Costs (PISCC) ⁽³⁾	\$ 4,928,787	Exhibit BAF-2e, Column O, Line 4
12	Deferred Depreciation Regulatory Asset Balance - Mains	\$ 1,821,722	Exhibit BAF-2h, Column B, Line 3
13	Net Deferred Tax Balance - PISCC	\$ (1,035,045)	-Line 11 x 21%
14	Deferred Taxes on Depreciation	\$ (2,118,432)	Exhibit No. BAF-2g, Line 18
15	Deferred Taxes on Deferred Depreciation Regulatory Asset	\$ (382,562)	-Line 12 x 21%
16	Net Rate Base	\$ 99,813,344	Sum of Lines 5 and 10 thru 15
17	Pre-Tax Rate of Return	8.81%	(4)
18	Annualized Return on Rate Base - Mains	\$ 8,793,556	Line 16 x Line 17
19	<u>Operations and Maintenance Expenses</u>		
20	Annualized Property Tax Expense	\$ 2,242,782	Exhibit No. BAF-2f, Line 17
21	Annualized Depreciation Expense	\$ 2,432,352	Line 5 x 2.57% ⁽¹⁾
22	Annualized PISCC Amortization Expense	\$ 70,941	Exhibit BAF-2e, Column D, Line 13
23	Annualized Deferred Depreciation Amortization Expense - Mains	\$ 26,163	Exhibit BAF-2h, Column Q, Line 21
24	Annualized Maintenance Adjustment	\$ (534,306)	(2)
25	Total Incremental Operating Expenses - Mains	\$ 4,237,932	Sum of Lines 20-24
26	Total Annual Revenue Requirement - Mains	\$ 13,031,487	Line 18 + Line 25
		(To Exhibit No. BAF-1)	

(1) FERC Account 676 depreciation rate as approved in Case No. 18-0298-GA-AIR.

(2) Support provided by CEOH Witness Steven A. Hoover, Exhibit No. SAH-7, Column C, Line 4.

Allocation of Exhibit No. SAH-7 between Mains and Services based upon cumulative gross investment.

(3) PISCC is accrued at an annual rate of 5.07% from the in-service date until investments are reflected in the DRR rate as approved in Case No. 18-0298-GA-AIR.

(4) Rate of Return as approved in Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Mains - Plant Additions
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Line No.	Description	Balance at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	Balance at 12/31/2020	
1	<u>Cumulative Balance</u>														
2	Mains	\$ 61,852,388	\$ 63,134,930	\$ 64,127,405	\$ 68,139,372	\$ 70,424,800	\$ 72,656,617	\$ 75,903,138	\$ 77,195,124	\$ 78,464,877	\$ 84,872,934	\$ 86,575,056	\$ 88,261,121	\$ 96,816,075	To BAF-2, Line 3
3	<u>Current Year Activity</u>		<u>1/31/2020</u>	<u>2/28/2020</u>	<u>3/31/2020</u>	<u>4/30/2020</u>	<u>5/31/2020</u>	<u>6/30/2020</u>	<u>7/31/2020</u>	<u>8/31/2020</u>	<u>9/30/2020</u>	<u>10/31/2020</u>	<u>11/30/2020</u>	<u>12/31/2020</u>	Activity for Twelve Months Ended 12/31/2020
4	Mains		\$ 1,282,542	\$ 992,475	\$ 4,011,966	\$ 2,285,428	\$ 2,231,817	\$ 3,246,521	\$ 1,291,986	\$ 1,269,753	\$ 6,408,057	\$ 1,702,122	\$ 1,686,065	\$ 8,554,954	\$ 34,963,687

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Mains - Retirements
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Line No.	Description	Retirements at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Total Retirements for Work Orders Placed in Service by 12/31/2020
1	<u>Cumulative Balance</u>														
2	Mains	\$ (1,239,504)	\$ (1,239,504)	\$ (1,253,406)	\$ (1,429,374)	\$ (1,491,887)	\$ (1,574,786)	\$ (1,674,891)	\$ (1,692,754)	\$ (1,726,049)	\$ (2,043,277)	\$ (2,059,922)	\$ (1,951,762)	\$ (2,172,036)	\$ (2,172,036)
3	<u>Current Year Activity</u>		<u>1/31/2020</u>	<u>2/28/2020</u>	<u>3/31/2020</u>	<u>4/30/2020</u>	<u>5/31/2020</u>	<u>6/30/2020</u>	<u>7/31/2020</u>	<u>8/31/2020</u>	<u>9/30/2020</u>	<u>10/31/2020</u>	<u>11/30/2020</u>	<u>12/31/2020</u>	Retirements for Work Orders Placed In Service in 2020
4	Mains		\$ -	\$ (13,902)	\$ (175,968)	\$ (62,512)	\$ (82,899)	\$ (100,106)	\$ (17,862)	\$ (33,295)	\$ (317,228)	\$ (16,645)	\$ 108,160	\$ (220,274)	\$ (932,533)

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Mains - Depreciation
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Line No.	Description	Accumulated Depreciation at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	
1	<u>Cumulative Balance</u>														
2	Mains	\$ (1,107,410)	\$ (1,241,251)	\$ (1,377,527)	\$ (1,519,163)	\$ (1,667,542)	\$ (1,820,759)	\$ (1,979,841)	\$ (2,143,784)	\$ (2,310,470)	\$ (2,485,378)	\$ (2,668,970)	\$ (2,856,190)	\$ (3,054,377)	To BAF-2, Line 7
3	<u>Current Year Activity</u>		<u>1/31/2020</u>	<u>2/28/2020</u>	<u>3/31/2020</u>	<u>4/30/2020</u>	<u>5/31/2020</u>	<u>6/30/2020</u>	<u>7/31/2020</u>	<u>8/31/2020</u>	<u>9/30/2020</u>	<u>10/31/2020</u>	<u>11/30/2020</u>	<u>12/31/2020</u>	2020 Depreciation Expense
4	Mains ⁽¹⁾⁽²⁾		\$ (133,841)	\$ (136,277)	\$ (141,636)	\$ (148,379)	\$ (153,216)	\$ (159,083)	\$ (163,943)	\$ (166,686)	\$ (174,908)	\$ (183,592)	\$ (187,220)	\$ (198,187)	\$ (1,946,967)

Notes:

(1) FERC Account 676 depreciation rate of 2.57% implemented on 9/1/2019 and approved in Case No. 18-0298-GA-AIR.

(2) Monthly depreciation activity represents this rate divided by 12 months. Depreciation on in-service activity in the current month receives a half-month of depreciation, and the cumulative balance from the prior month receives a full month of depreciation.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Mains - Cost of Removal
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Line No.	Description	Cost of Removal at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	Balance at 12/31/2020	
1	<u>Cumulative Balance</u>														
2	Mains	\$ 2,522,276	\$ 2,604,677	\$ 2,659,887	\$ 2,712,783	\$ 2,751,811	\$ 2,790,688	\$ 2,815,163	\$ 2,888,040	\$ 2,914,889	\$ 2,928,319	\$ 2,945,015	\$ 2,981,393	\$ 2,837,176	To BAF-2, Line 8
3	<u>Current Year Activity</u>		1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Activity for Twelve Months Ended 12/31/2020
4	Mains		\$ 82,401	\$ 55,210	\$ 52,896	\$ 39,028	\$ 38,877	\$ 24,475	\$ 72,877	\$ 26,849	\$ 13,430	\$ 16,696	\$ 36,378	\$ (144,217)	\$ 314,900

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Mains - Post In Service Carrying Costs (PISCC)
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Line No.	Description	PISCC at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	Balance at 12/31/2020	
1	Cumulative Balance														
2	Mains-PISCC	\$ 3,189,732	\$ 3,314,773	\$ 3,445,122	\$ 3,592,355	\$ 3,750,115	\$ 3,916,259	\$ 4,096,806	\$ 4,281,666	\$ 4,472,591	\$ 4,577,159	\$ 4,691,389	\$ 4,812,059	\$ 4,965,849	
3	Mains-PISCC Amortization	\$ (7,291)	\$ (9,114)	\$ (10,937)	\$ (12,759)	\$ (14,582)	\$ (16,405)	\$ (18,228)	\$ (20,051)	\$ (21,873)	\$ (25,671)	\$ (29,468)	\$ (33,265)	\$ (37,062)	
4	Deferred PISCC - Mains	\$ 3,182,441	\$ 3,305,660	\$ 3,434,186	\$ 3,579,595	\$ 3,735,532	\$ 3,899,854	\$ 4,078,578	\$ 4,261,616	\$ 4,450,718	\$ 4,551,488	\$ 4,661,921	\$ 4,778,793	\$ 4,928,787	To BAF-2, Line 11
5	Current Year Activity (1)		1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Activity for Twelve Months Ended 12/31/2020
6	2019 Mains - Deferred PISCC	\$	110,958	\$ 110,958	\$ 110,958	\$ 110,958	\$ 110,958	\$ 110,958	\$ 110,958	\$ 110,958	\$ -	\$ -	\$ -	\$ -	\$ 887,666
7	2020 Mains - Deferred PISCC	\$	14,083	\$ 19,391	\$ 36,274	\$ 46,802	\$ 55,186	\$ 69,589	\$ 73,902	\$ 79,967	\$ 104,567	\$ 114,230	\$ 120,670	\$ 153,790	\$ 888,451
8	Total 2020 Deferred PISCC	\$	125,041	\$ 130,349	\$ 147,232	\$ 157,760	\$ 166,144	\$ 180,547	\$ 184,860	\$ 190,925	\$ 104,567	\$ 114,230	\$ 120,670	\$ 153,790	\$ 1,776,117
9	Mains-PISCC Amortization (2)	\$	(1,823)	\$ (1,823)	\$ (1,823)	\$ (1,823)	\$ (1,823)	\$ (1,823)	\$ (1,823)	\$ (1,823)	\$ (3,797)	\$ (3,797)	\$ (3,797)	\$ (3,797)	\$ (29,771)
10	Annualized PISCC Amortization														
11	2020 Cumulative PISCC	\$	4,965,849												
12	Amortization % (2)		1.43%												
13	Annualized PISCC Amortization	\$	70,941												To BAF-2, Line 22

Notes:

- (1) The PISCC rate of 5.07% was approved in Case No. 18-0298-GA-AIR
(2) FERC Account 676 depreciation rate's average service life of 70 years, as approved in Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
ANNUALIZED PROPERTY TAX EXPENSE - MAIN REPLACEMENTS

Line	Description					Reference
		<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Total</u>	
1	Mains Replacements - Book Value	\$ 32,898,125	\$ 28,954,262	\$ 34,963,687	\$ 96,816,075	Exhibit No. BAF-2, Line 3
2	Less: Capitalized Interest / AFUDC	\$ (56,425)	\$ (38,460)	\$ (88,729)	\$ (183,615)	
3	Net Cost of Taxable Property	\$ 32,841,700	\$ 28,915,802	\$ 34,874,958	\$ 96,632,460	Line 1 + Line 2
4	% Good ⁽¹⁾	91.7%	95.0%	98.3%		
5	Tax Value	\$ 30,115,839	\$ 27,470,012	\$ 34,282,084	\$ 91,867,935	Line 3 x Line 4
6	x Valuation Percentage (25%) ⁽²⁾	25.0%	25.0%	25.0%	25.0%	
7	Taxable Value/Assessment	\$ 7,528,960	\$ 6,867,503	\$ 8,570,521	\$ 22,966,984	Line 5 x Line 6
8	CEOH's Average 2020 Personal Property Tax Rate				9.800%	
9	Annual Property Tax Expense - Main Replacements				\$ 2,250,764	Line 7 x Line 8
10	Mains Retired - Property Tax Basis	\$ (665,386)	\$ (574,117)	\$ (932,533)	\$ (2,172,036)	Exhibit No. BAF-2, Line 4
11	% Good ⁽³⁾	15.0%	15.0%	15.0%	15.0%	
12	Tax Value	\$ (99,808)	\$ (86,118)	\$ (139,880)	\$ (325,805)	Line 10 x Line 11
13	x Valuation Percentage (25%) ⁽²⁾	25.0%	25.0%	25.0%	25.0%	
14	Taxable Value/Assessment	\$ (24,952)	\$ (21,529)	\$ (34,970)	\$ (81,451)	Line 12 x Line 13
15	CEOH's Average 2020 Personal Property Tax Rate				9.800%	
16	Annual Property Tax Reduction - Main Retirements				\$ (7,982)	Line 14 x Line 15
17	Annualized Property Tax Expense - Mains				\$ 2,242,782	Line 9 + Line 16
					(To Exhibit No. BAF-2, Line 20)	

Notes:

(1) Per Ohio Department of Taxation Annual Natural Gas Property Tax Report, Schedule C, Distribution Plant.

(2) Per Ohio Department of Taxation Annual Natural Gas Property Tax Report, Schedule G.

(3) Per Ohio Department of Taxation Annual Natural Gas Property Tax Report, Schedule C(2), Distribution Plant.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
DEFERRED TAXES ON LIBERALIZED DEPRECIATION - MAINS

Line	Description	2018	2019	2020	Total	Reference
1	<u>Plant in Service at December 31, 2020:</u>					
2	Mains - Bare Steel/Cast Iron Replacements	\$ 32,898,125	\$ 28,954,262	\$ 34,963,687	\$ 96,816,074	Exhibit No. BAF-2, Line 3
3	Book to Tax Basis Adjustment - Capitalized Interest	\$ 46,734	\$ 21,197	\$ 55,086	\$ 123,017	
4	Book to Tax Basis Adjustment-Bonus Depreciation	-	-	-	\$ -	[2]
5	Total Income Tax 20 year MACRS Depreciation Base	\$ 32,944,859	\$ 28,975,459	\$ 35,018,773	\$ 96,939,092	Sum of Lines 2-4
6	<u>Tax Depreciation:</u>					
7	MACRS Rate - 15 Year	23.050%	14.500%	5.000%		
8	MACRS Rate - 20 Year	17.646%	10.969%	3.750%		
9	MACRS Depreciation - 15 Year	\$ -	\$ -	\$ -		[1]
10	MACRS Depreciation - 20 Year	5,813,450	3,178,318	1,313,204	\$ 10,304,972	[1]
11	Bonus Depreciation	-	-	-	\$ -	[2]
12	Cost of Removal Incurred	2,198,137	324,139	314,900	\$ 2,837,176	Exhibit No. BAF-2, Line 8
13	Total Tax Depreciation	\$ 8,011,587	\$ 3,502,457	\$ 1,628,104	\$ 13,142,148	Sum of Lines 9-12
14	<u>Book Depreciation:</u>					
15	Mains				\$ 3,054,377	-Exhibit No. BAF-2, Line 7
16	Tax Depreciation in Excess of Book Depreciation				\$ (10,087,771)	Line 15 - Line 13
17	Federal Deferred Taxes at 21%				21%	[2]
18	Deferred Tax Balance at December 31, 2020 - Mains				\$ (2,118,432)	Line 16 * Line 17
					(To Exhibit No. BAF-2, Line 14)	

Notes:

[1] Per Internal Revenue Code ("IRC") Sec 168(e)(3)(E)(viii), gas utility distribution facilities placed in service before January 1, 2011 have a MACRS life of 15 years. For utility distribution facilities placed in service after January 1, 2011, MACRS life is 20 years per IRC Rev. Proc. 87-56. Below is the formula for tax depreciation by year.

[2] On December 22, 2017, the United States government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act ("TCJA" or "the Act"). Prior to the enactment of the TCJA, Internal Revenue Code rules and regulations permitted 50% bonus depreciation to be claimed. The Act repealed Bonus Depreciation for assets used in regulated utility operations and established the corporate tax rate to be 21%.

Formula:

Line 10 = Line 5 * Line 8

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Mains - Deferred Depreciation Regulatory Asset Balance
For the Period Ended December 31, 2020

A		B												C	
Line	Description	Deferred Depr at 12/31/2019	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Total Balance at Dec-20	
	Cumulative Balance														
1	Mains - Deferred Depreciation	\$ 966,742	\$ 1,081,746	\$ 1,116,266	\$ 1,224,104	\$ 1,287,772	\$ 1,348,393	\$ 1,468,384	\$ 1,536,914	\$ 1,572,174	\$ 1,649,121	\$ 1,686,965	\$ 1,705,681	\$ 1,831,417	
2	Mains - Deferred Depreciation Amortization	(1,697)	(2,121)	(2,546)	(2,970)	(3,394)	(3,819)	(4,243)	(4,667)	(5,091)	(6,242)	(7,393)	(8,544)	(9,695)	
3	Mains - Deferred Depreciation	\$ 965,044	\$ 1,079,625	\$ 1,113,720	\$ 1,221,134	\$ 1,284,378	\$ 1,344,574	\$ 1,464,141	\$ 1,532,246	\$ 1,567,083	\$ 1,642,879	\$ 1,679,572	\$ 1,697,137	\$ 1,821,722	To BAF-2, Line 12

Line	Description	Activity for	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total Balance by Calendar Year
4	Mains In-Service Activity	2020 Filing Exhibit No. JCS-2h Line 10	\$ 1,088,164	\$ 739,388	\$ 1,769,385	\$ 1,377,611	\$ 1,560,770	\$ 4,572,563	\$ 3,182,269	\$ 1,381,157	\$ 1,878,730	\$ 1,680,245	\$ 800,622	\$ 8,929,088	\$ 26,959,991
5	Less: Retirements	2020 Filing Exhibit No. JCS-2h Line 11	(8,454)	(8,994)	(30,564)	(23,452)	(37,197)	(125,651)	(58,444)	(18,655)	(52,383)	1,839	(44,684)	(111,319)	(517,958)
6	Net Main Additions	Line 4 + Line 5	\$ 1,079,710	\$ 730,394	\$ 1,738,820	\$ 1,354,160	\$ 1,523,573	\$ 4,446,912	\$ 3,123,825	\$ 1,362,502	\$ 1,826,347	\$ 1,682,084	\$ 755,938	\$ 8,817,768	\$ 26,442,032
7	Monthly Depreciation Rate	(1)	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	
8	# of Months from 1/1/2020 to Effective Date of DRR Rates, 9/1/2020		8	8	8	8	8	8	8	8	8	8	8	8	
9	Depreciation Expense Recognized - 1/1/2020 to 9/1/2020	Line 6 x Line 7 x Line 8	\$ 18,499	\$ 12,514	\$ 29,792	\$ 23,201	\$ 26,104	\$ 76,190	\$ 53,522	\$ 23,344	\$ 31,291	\$ 28,820	\$ 12,952	\$ 116,811	\$ 453,040
														\$ -	

Line	Description	Activity for	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total Balance by Calendar Year
10	Mains In-Service Activity	Exhibit No. BAF-2a	\$ 3,974,504	\$ 992,475	\$ 4,011,966	\$ 2,285,428	\$ 2,231,817	\$ 3,246,521	\$ 1,291,986	\$ 1,269,753	\$ 6,408,057	\$ 1,702,122	\$ 1,686,065	\$ 8,554,954	\$ 37,655,649
11	Less: Retirements	Exhibit No. BAF-2b	(56,159)	(13,902)	(175,968)	(62,512)	(82,899)	(100,106)	(17,862)	(33,295)	(317,228)	(16,645)	108,160	(220,274)	(988,692)
12	Net Main Additions	Line 10 + Line 11	\$ 3,918,345	\$ 978,573	\$ 3,835,998	\$ 2,222,916	\$ 2,148,918	\$ 3,146,415	\$ 1,274,124	\$ 1,236,458	\$ 6,090,829	\$ 1,685,477	\$ 1,794,224	\$ 8,334,680	\$ 36,666,957
13	Monthly Depreciation Rate - Post Rate Case		0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	
14	# of Months from In-Service Date to Effective Date of DRR Rate, 9/1/2021		19.5	18.5	17.5	16.5	15.5	14.5	13.5	12.5	11.5	10.5	9.5	8.5	
15	Depreciation Expense Recognized - In-Service to 9/1/2021	Line 12 x Line 13 x Line 14	\$ 163,640	\$ 38,772	\$ 143,770	\$ 78,552	\$ 71,335	\$ 97,709	\$ 36,838	\$ 33,101	\$ 150,012	\$ 37,902	\$ 36,505	\$ 151,726	\$ 1,039,863
16	Deferred Depreciation Expense - Calendar Year 2020		\$ 96,506	\$ 22,006	\$ 78,047	\$ 40,466	\$ 34,517	\$ 43,801	\$ 15,008	\$ 11,916	\$ 45,656	\$ 9,024	\$ 5,764	\$ 8,925	\$ 411,635
17	Deferred Depreciation Expense - Calendar Year 2021		\$ 67,134	\$ 16,766	\$ 65,723	\$ 38,086	\$ 36,818	\$ 53,909	\$ 21,830	\$ 21,185	\$ 104,356	\$ 28,878	\$ 30,741	\$ 142,801	\$ 628,227
18	Mains - Deferred Depreciation Amortization	(2)	\$ (424)	\$ (424)	\$ (424)	\$ (424)	\$ (424)	\$ (424)	\$ (424)	\$ (424)	\$ (1,151)	\$ (1,151)	\$ (1,151)	\$ (1,151)	\$ (7,998)
19	Net Mains 2020 activity Deferred Depreciation	Line 9 Column C + Line 16 Column C													\$ 1,831,417
20	Average Service Life - Mains	(2)													1.43%
21	Annual Amortization Expense	Line 19 x Line 20													\$ 26,163
															<u>To BAF-2, Line 23</u>

Notes:
(1) FERC Account 676 depreciation rate approved in Case No. 18-0298-GA-AIR.
(2) FERC Account 676 depreciation rate's average service life or 70 years, as approved in Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
ANNUAL REVENUE REQUIREMENT - SERVICE LINES

Line	Description	Amount	Reference
1	<u>Return on Investment:</u>		
2	<u>Plant In-Service at December 31, 2020</u>		
3	Additions - Services Replacements (Bare Steel/Cast Iron)	\$ 76,656,167	Exhibit BAF-3a, Column O, Line 2
4	Additions - Meter Installation (Bare Steel/Cast Iron)	17,188,272	Exhibit BAF-3a, Column O, Line 3
5	Additions - Services Replacements (Service Line Responsibility)	17,196,572	Exhibit BAF-3a, Column O, Line 4
6	Original Cost - Retired Services	(1,120,192)	Exhibit BAF-3b, Column P, Line 2
7	Original Cost - Retired Meter Installation	(48,288)	Exhibit BAF-3b, Column P, Line 3
8	Total Plant In-Service	\$ 109,872,531	Sum of Lines 3 - 7
9	<u>Less: Accumulated Depreciation at December 31, 2020</u>		
10	Depreciation Expense - Services	\$ (5,667,795)	Exhibit BAF-3c, Column O, Line 2
11	Depreciation Expense - Meter Installation	(682,690)	Exhibit BAF-3c, Column O, Line 3
12	Cost of Removal - Services	3,514,719	Exhibit BAF-3d, Column O, Line 2
13	Original Cost - Retired Services	1,120,192	-Line 6
14	Original Cost - Retired Meter Installation	48,288	-Line 7
15	Total Accumulated Depreciation	\$ (1,667,286)	Sum of Lines 10 - 14
16	Net Deferred Post In-Service Carrying Costs (PISCC) ⁽³⁾	\$ 7,402,184	Exhibit BAF-3e, Column O, Line 9
17	Deferred Depreciation Regulatory Asset Balance - Services	\$ 4,993,503	Exhibit BAF-3h, Page 1, Column B, Line 3
18	Deferred Depreciation Regulatory Asset Balance - Meter Installation	\$ 437,123	Exhibit BAF-3h, Page 2, Column B, Line 3
19	Net Deferred Tax Balance - PISCC	\$ (1,554,459)	-Line 16 x 21%
20	Deferred Taxes on Depreciation	\$ (1,926,238)	Exhibit No. BAF-3g, Line 23
21	Deferred Taxes on Deferred Depreciation Regulatory Asset - Services	\$ (1,048,636)	-Line 17 x 21%
22	Deferred Taxes on Deferred Depreciation Regulatory Asset - Meter Installation	\$ (91,796)	-Line 18 x 21%
23	Net Rate Base	\$ 116,416,928	Sum of Lines 8 and 15-22
24	Pre-Tax Rate of Return	8.81%	(5)
25	Annualized Return on Rate Base -Service Lines	\$ 10,256,331	Line 23 x Line 24
26	<u>Operations and Maintenance Expenses</u>		
27	Annualized Property Tax Expense	\$ 2,576,215	Exhibit No. BAF-3f, Line 17
28	Annualized Depreciation Expense - Services	\$ 3,570,203	(Line 3+ Line 5+ Line 6) x 3.85% ⁽¹⁾
29	Annualized Depreciation Expense - Meter Installation	\$ 514,200	(Line 4 + Line 7) x 3.00% ⁽¹⁾
30	Annualized PISCC Amortization Expense	\$ 120,311	Exhibit No. BAF-3e, Column D, Line 29
31	Annualized Deferred Depreciation Amortization Expense - Services	\$ 77,593	Exhibit BAF-3h, Page 1, Column C, Line 23
32	Annualized Deferred Depreciation Amortization Expense - Meter Installation	\$ 8,824	Exhibit BAF-3h, Page 2, Column C, Line 21
33	Incremental O&M - Service Line Responsibility	\$ (186,607)	(2)
34	Annualized Maintenance Adjustment	\$ (423,048)	(4)
35	Total Incremental Operating Expenses - Service Lines	\$ 6,257,690	Sum of Lines 27-34
36	Total Revenue Requirement - Service Lines	\$ 16,514,021	Line 25 + Line 35
	(To Exhibit No. BAF-1)		

(1) FERC Account 680 (Line 28) and FERC Account 682 (Line 29) depreciation rates as approved in Case No. 18-0298-GA-AIR.

(2) Support provided by CEOH Witness Steven A. Hoover, Exhibit No. SAH-8, Column C, Line 16.

(3) PISCC is accrued at an annual rate of 5.07% from the in-service date until investments are reflected in the DRR rate as approved in Case No. 18-0298-GA-AIR.

(4) Support provided by CEOH Witness Steven A. Hoover, Exhibit No. SAH-7, Column C, Line 4.
Allocation of Exhibit No. SAH-7 between Mains and Services based upon cumulative gross investment.

(5) Rate of Return as approved in Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Service Lines - Plant Additions
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
Line No.	Description	Reference	Balance at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	Balance at 12/31/2020	
1	Cumulative Balance															
2	Services		\$ 48,391,289.90	\$ 49,765,458	\$ 50,792,109	\$ 55,292,476	\$ 56,896,858	\$ 59,072,255	\$ 61,651,599	\$ 62,664,593	\$ 63,816,637	\$ 68,927,586	\$ 70,119,779	\$ 70,658,849	\$ 76,656,167	To BAF-3, Line 3
3	Meter Installation		\$ 11,914,922.76	\$ 12,322,661	\$ 12,655,837	\$ 13,336,193	\$ 13,559,691	\$ 14,175,034	\$ 14,595,001	\$ 14,782,294	\$ 15,045,776	\$ 15,817,369	\$ 16,080,978	\$ 16,120,896	\$ 17,188,272	To BAF-3, Line 4
4	Service Line Responsibility		\$ 13,101,382.46	\$ 13,594,881	\$ 13,942,142	\$ 14,318,540	\$ 14,567,983	\$ 14,766,075	\$ 14,985,870	\$ 15,395,037	\$ 15,784,135	\$ 16,228,456	\$ 16,608,397	\$ 16,983,652	\$ 17,196,572	To BAF-3, Line 5
5	Total Service Line Additions	Sum of Lines 2-4	\$ 73,407,595	\$ 75,683,000	\$ 77,390,088	\$ 82,947,209	\$ 85,024,532	\$ 88,013,364	\$ 91,232,470	\$ 92,841,925	\$ 94,646,548	\$ 100,973,412	\$ 102,809,153	\$ 103,763,397	\$ 111,041,011	
6	Current Year Activity			1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Activity for Twelve Months Ended 12/31/2020
7	Services			\$ 1,374,168	\$ 1,026,651	\$ 4,500,367	\$ 1,604,382	\$ 2,175,397	\$ 2,579,344	\$ 1,012,994	\$ 1,152,044	\$ 5,110,949	\$ 1,192,192	\$ 539,071	\$ 5,997,318	\$ 28,264,877
8	Meter Installation (1)			\$ 407,739	\$ 333,176	\$ 680,356	\$ 223,498	\$ 615,343	\$ 419,968	\$ 187,293	\$ 263,482	\$ 771,594	\$ 263,609	\$ 39,918	\$ 1,067,376	\$ 5,273,349
9	Service Line Responsibility			\$ 493,498	\$ 347,261	\$ 376,398	\$ 249,443	\$ 198,092	\$ 219,795	\$ 409,167	\$ 389,097	\$ 444,322	\$ 379,941	\$ 375,255	\$ 212,920	\$ 4,095,190
10	Total Service Line Additions	Sum of Lines 7-9		\$ 2,275,405	\$ 1,707,088	\$ 5,557,121	\$ 2,077,323	\$ 2,988,832	\$ 3,219,106	\$ 1,609,454	\$ 1,804,623	\$ 6,326,864	\$ 1,835,742	\$ 954,244	\$ 7,277,613	\$ 37,633,416

(1) Also includes Meter Installation from Service Line Responsibility.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Service Lines - Retirements
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
Line No.	Description	Retirements at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Total Retirements for Work Orders Placed in Service by 12/31/2020	
1	Cumulative Balance															
2	Services	\$ (682,496)	\$ (682,496)	\$ (690,848)	\$ (793,228)	\$ (854,964)	\$ (870,540)	\$ (897,927)	\$ (903,045)	\$ (1,018,368)	\$ (1,068,928)	\$ (1,074,523)	\$ (1,015,801)	\$ (1,120,192)	(1,120,192) To BAF-3, Line 6	
3	Meter Installations	\$ (32,637)	\$ (32,637)	\$ (32,988)	\$ (35,050)	\$ (38,177)	\$ (39,692)	\$ (40,790)	\$ (41,226)	\$ (42,191)	\$ (44,963)	\$ (45,390)	\$ (44,936)	\$ (48,288)	(48,288) To BAF-3, Line 7	
4	Current Year Activity		1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Retirements for Work Orders Placed In Service in 2020	2020 Work Orders Closed 2021
5	Services	\$ -	\$ (8,352)	\$ (102,379)	\$ (61,736)	\$ (15,576)	\$ (27,387)	\$ (5,118)	\$ (115,323)	\$ (50,561)	\$ (5,594)	\$ 58,722	\$ (104,391)	\$ (437,695)	\$ (15,112)	
6	Meter Installations	\$ -	\$ (351)	\$ (2,062)	\$ (3,127)	\$ (1,515)	\$ (1,099)	\$ (435)	\$ (965)	\$ (2,772)	\$ (427)	\$ 455	\$ (3,352)	\$ (15,651)	\$ -	

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Service Lines - Depreciation
Twelve Months Ended December 31, 2020

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Line No.	Description	Accumulated Depreciation at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	
1	Cumulative Balance														
2	Services ⁽²⁾	\$ (2,733,754)	\$ (2,934,039)	\$ (3,139,524)	\$ (3,355,037)	\$ (3,581,346)	\$ (3,814,436)	\$ (4,055,825)	\$ (4,303,984)	\$ (4,556,898)	\$ (4,821,195)	\$ (5,096,926)	\$ (5,376,646)	\$ (5,667,795)	To BAF-3, Line 10
3	Meter Installation	\$ (250,082)	\$ (280,379)	\$ (311,602)	\$ (344,092)	\$ (377,712)	\$ (412,380)	\$ (448,343)	\$ (485,064)	\$ (522,349)	\$ (560,928)	\$ (600,801)	\$ (641,054)	\$ (682,690)	To BAF-3, Line 11
4	Current Year Activity		1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	2020 Depreciation Expense
5	BS/CI Service Lines		\$ (157,460)	\$ (161,311)	\$ (170,177)	\$ (179,970)	\$ (186,034)	\$ (193,661)	\$ (199,424)	\$ (202,897)	\$ (212,944)	\$ (223,055)	\$ (225,832)	\$ (236,318)	\$ (2,349,084)
6	Incremental Service Line Responsibility		\$ (42,825)	\$ (44,174)	\$ (45,335)	\$ (46,339)	\$ (47,057)	\$ (47,727)	\$ (48,736)	\$ (50,017)	\$ (51,354)	\$ (52,676)	\$ (53,887)	\$ (54,831)	\$ (584,957)
7	Services ⁽¹⁾⁽²⁾	Line 5 + Line 6	\$ (200,285)	\$ (205,485)	\$ (215,512)	\$ (226,309)	\$ (233,091)	\$ (241,388)	\$ (248,160)	\$ (252,914)	\$ (264,297)	\$ (275,731)	\$ (279,720)	\$ (291,149)	\$ (2,934,040)
8	Meter Installation ⁽²⁾⁽³⁾⁽⁴⁾		\$ (30,297)	\$ (31,223)	\$ (32,490)	\$ (33,620)	\$ (34,668)	\$ (35,963)	\$ (36,722)	\$ (37,285)	\$ (38,579)	\$ (39,873)	\$ (40,252)	\$ (41,636)	\$ (432,608)

Notes:

(1) FERC Account 680 depreciation rate of 3.85% as approved in Case No. 18-0298-GA-AIR.

Depreciation on in-service activity in the current month receive a half-month of depreciation, and the cumulative balance from the prior month receives a full month of depreciation.

(2) Monthly depreciation activity represents the depreciation rate divided by 12 months.

(3) FERC Account 682 depreciation rate of 3.00% as approved in Case No. 18-0298-GA-AIR.

Depreciation on in-service activity in the current month receives a half-month of depreciation, and the cumulative balance from the prior month receives a full month of depreciation.

(4) This line includes depreciation activity for utility plant additions for BS/CI service replacements and service line responsibility.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
Line No.	Description	Cost of Removal at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	Balance at 12/31/2020		
1	Cumulative Balance															
2	Services	\$ 2,083,345	\$ 2,284,882	\$ 2,423,149	\$ 2,539,058	\$ 2,633,024	\$ 2,749,463	\$ 2,810,016	\$ 2,923,281	\$ 2,999,478	\$ 3,133,746	\$ 3,187,952	\$ 3,240,445	\$ 3,514,719	To BAF-3, Line 12	
3	Current Year Activity		1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Activity for Twelve Months Ended 12/31/2020	2020 Work Orders Closed 2021
4	Services		\$ 201,537	\$ 138,267	\$ 115,909	\$ 93,966	\$ 116,440	\$ 60,553	\$ 113,265	\$ 76,197	\$ 134,268	\$ 54,206	\$ 52,492	\$ 274,274	\$ 1,431,374	\$ 36,453

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Service Lines - Post In Service Carrying Costs (PISCC)
Twelve Months Ended December 31, 2020

		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Line No.	Description		PISCC at 12/31/2019	1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	Balance at 12/31/2020	
1	Cumulative Balance															
2	Service Lines-PISCC	\$	3,278,088	\$ 3,387,053	\$ 3,501,586	\$ 3,634,903	\$ 3,775,984	\$ 3,925,281	\$ 4,086,429	\$ 4,251,148	\$ 4,420,893	\$ 4,508,479	\$ 4,603,650	\$ 4,700,308	\$ 4,819,151	
3	Meter Installation-PISCC (3)		812,865	\$ 835,766	\$ 860,328	\$ 888,016	\$ 916,780	\$ 947,913	\$ 981,009	\$ 1,014,862	\$ 1,049,785	\$ 1,066,343	\$ 1,084,376	\$ 1,102,501	\$ 1,124,462	
4	Service Line Responsibility-PISCC		1,259,717	\$ 1,282,442	\$ 1,306,942	\$ 1,332,972	\$ 1,360,324	\$ 1,388,621	\$ 1,417,801	\$ 1,448,309	\$ 1,480,504	\$ 1,492,777	\$ 1,506,792	\$ 1,522,402	\$ 1,539,254	
5	Gross Deferred PISCC - Services	\$	5,350,670	\$ 5,505,260	\$ 5,668,856	\$ 5,855,892	\$ 6,053,088	\$ 6,261,814	\$ 6,485,239	\$ 6,714,319	\$ 6,951,182	\$ 7,067,600	\$ 7,194,818	\$ 7,325,210	\$ 7,482,868	
6	Service Lines-PISCC Amortization	\$	(14,218)	\$ (17,772)	\$ (21,327)	\$ (24,881)	\$ (28,436)	\$ (31,990)	\$ (35,545)	\$ (39,099)	\$ (42,654)	\$ (48,471)	\$ (54,289)	\$ (60,107)	\$ (65,924)	
7	Meter Installation-PISCC Amortization	\$	(3,113)	\$ (3,892)	\$ (4,670)	\$ (5,448)	\$ (6,227)	\$ (7,005)	\$ (7,783)	\$ (8,562)	\$ (9,340)	\$ (10,695)	\$ (12,050)	\$ (13,404)	\$ (14,759)	
8	Accumulated PISCC Amortization - Services	\$	(17,331)	\$ (21,664)	\$ (25,997)	\$ (30,330)	\$ (34,662)	\$ (38,995)	\$ (43,328)	\$ (47,661)	\$ (51,994)	\$ (59,166)	\$ (66,339)	\$ (73,511)	\$ (80,684)	
9	Net Deferred PISCC - Services	\$	5,333,339	\$ 5,483,596	\$ 5,642,859	\$ 5,825,562	\$ 6,018,425	\$ 6,222,819	\$ 6,441,911	\$ 6,666,658	\$ 6,899,189	\$ 7,008,434	\$ 7,128,480	\$ 7,251,699	\$ 7,402,184	To BAF-3, Line 16
10	Current Year Activity	(1)		1/31/2020	2/28/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020	Activity for Twelve Months Ended 12/31/2020
11	2019 Service Lines - Deferred PISCC		\$	101,390	\$ 101,390	\$ 101,390	\$ 101,390	\$ 101,390	\$ 101,390	\$ 101,390	\$ 101,390	\$ -	\$ -	\$ -	\$ -	811,119
12	2020 Service Lines - Deferred PISCC		\$	7,575	\$ 13,143	\$ 31,928	\$ 39,690	\$ 47,908	\$ 59,759	\$ 63,329	\$ 68,355	\$ 87,586	\$ 95,171	\$ 96,658	\$ 118,844	729,945
13	Total 2020 Services Deferred PISCC		\$	108,965	\$ 114,533	\$ 133,317	\$ 141,080	\$ 149,297	\$ 161,149	\$ 164,719	\$ 169,745	\$ 87,586	\$ 95,171	\$ 96,658	\$ 118,844	1,541,064
14	2019 Meter Installation - Deferred PISCC		\$	21,276	\$ 21,276	\$ 21,276	\$ 21,276	\$ 21,276	\$ 21,276	\$ 21,276	\$ 21,276	\$ -	\$ -	\$ -	\$ -	170,204
15	2020 Meter Installation - Deferred PISCC		\$	1,625	\$ 3,287	\$ 6,412	\$ 7,489	\$ 9,857	\$ 11,821	\$ 12,577	\$ 13,648	\$ 16,558	\$ 18,033	\$ 18,124	\$ 21,961	141,391
16	Total 2020 Meter Installation Deferred PISCC		\$	22,901	\$ 24,563	\$ 27,688	\$ 28,764	\$ 31,132	\$ 33,096	\$ 33,853	\$ 34,924	\$ 16,558	\$ 18,033	\$ 18,124	\$ 21,961	311,596
17	2019 Service Line Responsibility - Deferred PISCC		\$	21,682	\$ 21,682	\$ 21,682	\$ 21,682	\$ 21,682	\$ 21,682	\$ 21,682	\$ 21,682	\$ -	\$ -	\$ -	\$ -	173,457
18	2020 Service Line Responsibility - Deferred PISCC		\$	1,043	\$ 2,819	\$ 4,347	\$ 5,669	\$ 6,815	\$ 7,498	\$ 8,826	\$ 10,513	\$ 12,273	\$ 14,015	\$ 15,610	\$ 16,852	106,079
19	Total 2020 Service Line Responsibility Deferred PISCC		\$	22,725	\$ 24,501	\$ 26,030	\$ 27,352	\$ 28,297	\$ 29,180	\$ 30,508	\$ 32,195	\$ 12,273	\$ 14,015	\$ 15,610	\$ 16,852	279,537
20	Services-PISCC Amortization	(2)	\$	(3,554)	\$ (3,554)	\$ (3,554)	\$ (3,554)	\$ (3,554)	\$ (3,554)	\$ (3,554)	\$ (3,554)	\$ (5,818)	\$ (5,818)	\$ (5,818)	\$ (5,818)	(51,707)
21	Meter Installation-PISCC Amortization	(3)	\$	(778)	\$ (778)	\$ (778)	\$ (778)	\$ (778)	\$ (778)	\$ (778)	\$ (778)	\$ (1,355)	\$ (1,355)	\$ (1,355)	\$ (1,355)	(11,646)
22	Annualized PISCC Amortization															
23	Net Deferred Service Lines PISCC at 12/31/2020		\$	6,358,406	Column O, Line 2 + Line 4											
24	Amortization % ⁽²⁾			1.54%												
25	Annualized Service Lines PISCC Amortization		\$	97,822												
26	Net Deferred Meter Installation PISCC at 12/31/2020		\$	1,124,462	Column O, Line 3											
27	Amortization % ⁽³⁾			2.00%												
28	Annualized Meter Installation PISCC Amortization		\$	22,489												
29	Total Annualized Services PISCC Amortization		\$	120,311	Line 25 + Line 28											
				To BAF-3, Line 30												

Notes:

(1) The PISCC rate of 5.07% was approved in Case No. 18-0298-GA-AIR

(2) FERC Account 680 depreciation rate's average service life or 65 years, as approved in Case No. 18-0298-GA-AIR.

(3) FERC Account 682 depreciation rate's average service life or 50 years, as approved in Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
ANNUALIZED PROPERTY TAX EXPENSE - SERVICE LINES

Line	Description					Reference
		<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Total</u>	
1	Service and Meter Installation Replacements - Book Value	\$ 37,955,937	\$ 35,451,658	\$ 37,633,416	\$ 111,041,011	Exhibit No. BAF-3, Sum of Lines 3-
2	Less: AFUDC	(46,238)	(39,849)	(72,402)	(158,489)	
3	Net Cost of Taxable Property	\$ 37,909,699	\$ 35,411,809	\$ 37,561,014	\$ 110,882,522	Line 1 + Line 2
4	% Good ⁽¹⁾	91.7%	95.0%	98.3%		
5	Tax Value	\$ 34,763,194	\$ 33,641,219	\$ 36,922,477	\$ 105,326,889	Line 3 x Line 4
6	x Valuation Percentage (25%) ⁽³⁾	25.0%	25.0%	25.0%	25.0%	
7	Taxable Value / Assessment	\$ 8,690,798	\$ 8,410,305	\$ 9,230,619	\$ 26,331,722	Line 5 x Line 6
8	CEOH's Average 2020 Personal Property Tax Rate				9.80%	
9	Annual Property Tax Expense - Service Line Replacements				\$ 2,580,509	Line 7 x Line 8
10	Services and Meter Installation Retired - Property Tax Basis	\$ (438,028)	\$ (277,104)	\$ (453,347)	\$ (1,168,479)	Exhibit No. BAF-3, Sum of Lines 6-
11	% Good ⁽³⁾	15.0%	15.0%	15.0%	15.0%	
12	Tax Value	\$ (65,704)	\$ (41,566)	\$ (68,002)	\$ (175,272)	Line 10 x Line 11
13	x Valuation Percentage (25%) ⁽³⁾	25.0%	25.0%	25.0%	25.0%	
14	Taxable Value / Assessment	\$ (16,426)	\$ (10,391)	\$ (17,000)	\$ (43,818)	Line 12 x Line 13
15	CEOH's Average 2020 Personal Property Tax Rate				9.800%	
16	Annual Property Tax Reduction - Service Line Retirements				\$ (4,294)	Line 14 x Line 15
17	Annualized Property Tax Expense - Service Lines				\$ 2,576,215	Line 9 + Line 16
					(To Exhibit No. BAF-3, Line 27)	

Notes:

- (1) Per Ohio Department of Taxation Annual Natural Gas Property Tax Report, Schedule C, Distribution Plant.
- (2) Per Ohio Department of Taxation Annual Natural Gas Property Tax Report, Schedule G.
- (3) Per Ohio Department of Taxation Annual Natural Gas Property Tax Report, Schedule C(2), Distribution Plant.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
DEFERRED TAXES ON LIBERALIZED DEPRECIATION - SERVICE LINES

Line	Description	2018	2019	2020	Total	2020 Reference ^[1]
1	Plant in Service at December 31, 2020					
2	Service Additions - Bare Steel/Cast Iron Replacements	\$ 23,287,924	\$ 25,103,366	\$ 28,264,877	\$ 76,656,167	Exhibit No. BAF-3a, Column P, Line 7
3	Meter Installation Additions - Bare Steel/Cast Iron Replacements	\$ 6,698,504	\$ 5,216,419	\$ 5,273,349	17,188,272	Exhibit No. BAF-3a, Column P, Line 8
4	Service Additions - Service Line Ownership	\$ 7,969,509	\$ 5,131,874	\$ 4,095,190	17,196,572	Exhibit No. BAF-3a, Column P, Line 9
5	Total Plant In Service - Eligible for 50% Bonus Depreciation	\$ 37,955,937	\$ 35,451,658	\$ 37,633,416	\$ 111,041,011	Exhibit No. BAF-3a, Column P, Line 10
6	Book to Tax Basis Adjustment - Capitalized Interest	\$ 37,411	\$ 22,205	\$ 43,721	\$ 103,337	
7	Book to Tax Basis Adjustment - Bonus Depreciation	-	-	-	-	[3]
8	Total Income Tax MACRS Depreciation Base	\$ 37,993,348	\$ 35,473,863	\$ 37,677,137	\$ 111,144,348	Sum of Lines 5 - 7
9	Tax Depreciation:					
10	MACRS - 15 Year Rate	23.050%	14.500%	5.000%		[2]
11	MACRS - 20 Year Rate	17.646%	10.969%	3.750%		[2]
12	MACRS - 15 Year	\$ -	\$ -	\$ -	\$ -	[2]
13	MACRS - 20 Year	6,704,306	3,891,128	1,412,893	12,008,327	[2]
14	Bonus Depreciation	-	-	-	-	[3]
15	Cost of Removal Incurred	1,179,173	904,172	1,431,374	3,514,719	Exhibit No. BAF-3, Line 12
16	Total Tax Depreciation	\$ 7,883,479	\$ 4,795,300	\$ 2,844,266	\$ 15,523,046	Sum of Lines 12 - 15
17	Book Depreciation:					
18	Services				\$ 5,667,795	-Exhibit No. BAF-3, Line 10
19	Meter Installation				682,690	-Exhibit No. BAF-3, Line 11
20	Total Book Depreciation				\$ 6,350,485	Sum of Lines 18 - 19
21	Tax Depreciation in Excess of Book Depreciation				\$ (9,172,561)	Line 20 - Line 16
22	Federal Deferred Taxes at 21%				21%	
23	Deferred Tax Balance at December 31, 2020 - Service Lines				\$ (1,926,238)	Line 21 * Line 22
					(To Exhibit No. BAF-3, Line 20)	

Notes:

(1) Reference column is applicable to column 2020 under the Plant In Service Year section to the left.

(2) Per Internal Revenue Code ("IRC") Sec 168(e)(3)(E)(viii), gas utility distribution facilities placed in service before January 1, 2011 have a MACRS life of 15 years. For utility distribution facilities placed in service after January 1, 2011, MACRS life is 20 years per IRC Rev. Proc. 87-56. Below is the formula for tax depreciation applicable.

[3] On December 22, 2017, the United States government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act ("TCJA" or "the Act"). Prior to the enactment of the TCJA, Internal Revenue Code rules and regulations permitted 50% bonus depreciation to be claimed. The Act repealed Bonus Depreciation for assets used in regulated utility operations.

Formula:

Line 13 = Line 8 * Line 11

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Services, Service Line Responsibility, Risers - Deferred Depreciation Regulatory Asset Balance
For the Period Ended December 31, 2020

A

B

C

Line	Description	Deferred Depreciation at 12/31/2019	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Total Balance at Dec-20	
	Cumulative Balance														
1	Services - Deferred Depreciation	\$ 3,693,054	\$ 3,835,278	\$ 3,914,431	\$ 4,110,044	\$ 4,200,779	\$ 4,317,923	\$ 4,523,027	\$ 4,642,195	\$ 4,723,753	\$ 4,858,811	\$ 4,926,280	\$ 4,957,656	\$ 5,043,520	
2	Services - Deferred Depreciation Amortization	\$ (10,359)	\$ (12,949)	\$ (15,539)	\$ (18,129)	\$ (20,719)	\$ (23,308)	\$ (25,898)	\$ (28,488)	\$ (31,078)	\$ (35,813)	\$ (40,547)	\$ (45,282)	\$ (50,017)	
3	Services - Deferred Depreciation	\$ 3,682,695	\$ 3,822,329	\$ 3,898,892	\$ 4,091,916	\$ 4,180,061	\$ 4,294,615	\$ 4,497,128	\$ 4,613,707	\$ 4,692,676	\$ 4,822,998	\$ 4,885,733	\$ 4,912,374	\$ 4,993,503	
To BAF-3, Line 17															
Line	Description	Activity for Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total Balance by Calendar Year	
4	Services In-Service Activity	2020 Filing Exhibit No. JCS-3a	\$ 944,208	\$ 708,172	\$ 1,463,909	\$ 1,278,065	\$ 1,800,565	\$ 5,359,019	\$ 3,291,331	\$ 1,869,176	\$ 2,454,031	\$ 1,760,639	\$ 710,720	\$ 2,769,093	\$ 24,408,928
5	Service Line Responsibility In-Service Activity	2020 Filing Exhibit No. JCS-3a	353,962	589,025	498,920	364,471	561,602	450,729	402,697	515,027	418,072	393,732	335,251	248,387	\$ 5,131,874
6	Less: Retirements - Services	2020 Filing Exhibit No. JCS-3b	(10,617)	(5,616)	(11,125)	(11,505)	(8,669)	(70,746)	(25,325)	(8,622)	(18,427)	(15,238)	(5,996)	(53,738)	\$ (245,625)
7	Net Services Additions	Line 4 + Line 5 + Line 6	\$ 1,287,554	\$ 1,291,581	\$ 1,951,704	\$ 1,631,031	\$ 2,353,499	\$ 5,739,002	\$ 3,668,703	\$ 2,375,581	\$ 2,853,676	\$ 2,139,132	\$ 1,039,974	\$ 2,963,741	\$ 29,295,177
8	Monthly Depreciation Rate	(1)	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	
9	# of Months from 1/1/2020 to Effective Date of DRR Rates, 9/1/2020		8	8	8	8	8	8	8	8	8	8	8	8	0.32%
10	Depreciation Expense Recognized - 1/1/2020 to 9/1/2020	Line 7 x Line 8 x Line 9	\$ 33,047	\$ 33,151	\$ 50,094	\$ 41,863	\$ 60,406	\$ 147,301	\$ 94,163	\$ 60,973	\$ 73,244	\$ 54,904	\$ 26,693	\$ 76,069	\$ 751,910
Line	Description	Activity for Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total Balance by Calendar Year	
11	Services In-Service Activity	Exhibit No. BAF-3a	\$ 2,479,940	\$ 1,026,651	\$ 4,500,367	\$ 1,604,382	\$ 2,175,397	\$ 2,579,344	\$ 1,012,994	\$ 1,152,044	\$ 5,110,949	\$ 1,192,192	\$ 539,071	\$ 5,997,318	\$ 29,370,649
12	Service Line Responsibility In-Service Activity	Exhibit No. BAF-3a	493,498	347,261	376,398	249,443	198,092	219,795	409,167	389,097	444,322	379,941	375,255	212,920	\$ 4,095,190
13	Less: Retirements - Services	Exhibit No. BAF-3b	(14,378)	(8,352)	(102,379)	(61,736)	(15,576)	(27,387)	(5,118)	(115,323)	(50,561)	(5,594)	58,722	(104,391)	\$ (452,074)
14	Net Services Additions	Line 11 + Line 12 + Line 13	\$ 2,959,060	\$ 1,365,560	\$ 4,774,386	\$ 1,792,089	\$ 2,357,913	\$ 2,771,751	\$ 1,417,044	\$ 1,425,819	\$ 5,504,710	\$ 1,566,539	\$ 973,047	\$ 6,105,847	\$ 33,013,765
15	Monthly Depreciation Rate-Per case # 18-0298-GA-AIR (effective 9/1/19)	(1)	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	0.32%	
16	# months In-Service at .32% depreciation rate to Effective Date of DRR Rates, 9/1/2021		19.5	18.5	17.5	16.5	15.5	14.5	13.5	12.5	11.5	10.5	9.5	8.5	
17	Depreciation Expense Recognized - In-Service to 9/1/2021	(Line 14 x Line 15 x Line 16)	\$ 185,126	\$ 81,052	\$ 268,062	\$ 94,869	\$ 117,257	\$ 128,944	\$ 61,376	\$ 57,181	\$ 203,101	\$ 52,773	\$ 29,658	\$ 166,512	\$ 1,445,909
18	Deferred Depreciation Expense - Calendar Year 2020		\$ 109,177	\$ 46,002	\$ 145,519	\$ 48,872	\$ 56,737	\$ 57,803	\$ 25,005	\$ 20,585	\$ 61,813	\$ 12,565	\$ 4,683	\$ 9,795	\$ 598,556
19	Deferred Depreciation Expense - Calendar Year 2021		\$ 75,949	\$ 35,049	\$ 122,543	\$ 45,997	\$ 60,520	\$ 71,142	\$ 36,371	\$ 36,596	\$ 141,288	\$ 40,208	\$ 24,975	\$ 156,717	\$ 847,353
20	Services - Deferred Depreciation Amortization	(2)	\$ (2,590)	\$ (2,590)	\$ (2,590)	\$ (2,590)	\$ (2,590)	\$ (2,590)	\$ (2,590)	\$ (2,590)	\$ (4,735)	\$ (4,735)	\$ (4,735)	\$ (4,735)	\$ (39,657)
21	Net Services Deferred Depreciation at 12/31/2020	Line 1, Column B												\$ 5,043,520	
22	Average Service Life - Services	(2)												1.54%	
23	Annual Amortization Expense	Line 21 x Line 22												\$ 77,593	
To BAF-3, Line 31															

Notes:

(1) FERC Account 680 depreciation rate approved in Case No. 18-0298-GA-AIR.

(2) FERC Account 680 depreciation rate's average service life or 65 years, as approved in Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
Distribution Replacement Rider (DRR)
Meter Installation - Deferred Depreciation Regulatory Asset Balance
For the Period Ended December 31, 2020

A

B

C

Line	Description	Deferred Depreciation at 12/31/2019	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Total Balance at	
														Dec-20	
	Cumulative Balance														
1	Meter Installation - Deferred Depreciation	\$ 258,293	\$ 281,723	\$ 293,661	\$ 317,586	\$ 330,969	\$ 346,833	\$ 371,268	\$ 387,578	\$ 396,681	\$ 410,274	\$ 422,438	\$ 426,850	\$ 441,223	
2	Meter Installation - Deferred Depreciation Amortization	(793)	(991)	(1,189)	(1,387)	(1,585)	(1,783)	(1,981)	(2,180)	(2,378)	(2,808)	(3,239)	(3,669)	(4,100)	
3	Meter Installation - Deferred Depreciation	\$ 257,500	\$ 280,733	\$ 292,473	\$ 316,199	\$ 329,384	\$ 345,049	\$ 369,286	\$ 385,399	\$ 394,303	\$ 407,466	\$ 419,199	\$ 423,181	\$ 437,123	To BAF-3, Line 18

Line	Description	Activity for Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total Balance by	
														Calendar Year	
4	Meter Installation In-Service Activity	2020 Filing Exhibit No. JCS-3a	\$ 327,168	\$ 160,105	\$ 396,993	\$ 436,038	\$ 218,096	\$ 884,323	\$ 688,716	\$ 308,071	\$ 343,894	\$ 527,109	\$ 212,895	\$ 653,649	\$ 5,157,057
5	Less: Retirements - Services	2020 Filing Exhibit No. JCS-3b	-	(39)	(6,233)	(1,021)	(389)	(2,907)	(1,646)	(609)	(591)	(1,159)	130	(1,495)	(15,960)
6	Net Meter Installation Additions	Line 4 + Line 5	\$ 327,168	\$ 160,066	\$ 390,760	\$ 435,017	\$ 217,707	\$ 881,415	\$ 687,070	\$ 307,461	\$ 343,303	\$ 525,950	\$ 213,025	\$ 652,153	\$ 5,141,097
7	Monthly Depreciation Rate	(1)	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	
8	# of Months from 1/1/2020 to Effective Date of DRR Rates, 9/1/2020		8	8	8	8	8	8	8	8	8	8	8	8	
9	Depreciation Expense Recognized - 1/1/2020 to 9/1/2020	Line 6 x Line 7 x Line 8	\$ 6,543	\$ 3,201	\$ 7,815	\$ 8,700	\$ 4,354	\$ 17,628	\$ 13,741	\$ 6,149	\$ 6,866	\$ 10,519	\$ 4,260	\$ 13,043	\$ 102,822

Line	Description		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Calendar Year
10	Meter Installation In-Service Activity	Exhibit No. BAF-3a	\$ 588,524	\$ 333,176	\$ 680,356	\$ 223,498	\$ 615,343	\$ 419,968	\$ 187,293	\$ 263,482	\$ 771,594	\$ 263,609	\$ 39,918	\$ 1,067,376	\$ 5,454,133
11	Less: Retirements - Services	Exhibit No. BAF-3b	(1,141)	(351)	(2,062)	(3,127)	(1,515)	(1,099)	(435)	(965)	(2,772)	(427)	455	(3,352)	(16,793)
12	Net Meter Installation Additions	Line 10 + Line 11	\$ 587,383	\$ 332,825	\$ 678,294	\$ 220,370	\$ 613,828	\$ 418,869	\$ 186,858	\$ 262,516	\$ 768,822	\$ 263,181	\$ 40,373	\$ 1,064,024	\$ 5,437,341
13	Monthly Depreciation Rate-Per case # 18-0298-GA-AIR (effective 9/1/19)	(1)	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	
14	# months In-Service at .25% depreciation rate to Effective Date of DRR Rates, 9/1/2021		19.5	18.5	17.5	16.5	15.5	14.5	13.5	12.5	11.5	10.5	9.5	8.5	
15	Depreciation Expense Recognized - In-Service to 9/1/2021	(Line 12 x Line 13 x Line 14)	\$ 28,635	\$ 15,393	\$ 29,675	\$ 9,090	\$ 23,786	\$ 15,184	\$ 6,306	\$ 8,204	\$ 22,104	\$ 6,909	\$ 959	\$ 22,611	\$ 188,855
16	Calendar Year 2020		\$ 16,887	\$ 8,737	\$ 16,109	\$ 4,683	\$ 11,509	\$ 6,807	\$ 2,569	\$ 2,953	\$ 6,727	\$ 1,645	\$ 151	\$ 1,330	\$ 80,108
17	Calendar Year 2021		\$ 11,748	\$ 6,656	\$ 13,566	\$ 4,407	\$ 12,277	\$ 8,377	\$ 3,737	\$ 5,250	\$ 15,376	\$ 5,264	\$ 807	\$ 21,280	\$ 108,747
18	Meter Installations - Deferred Depreciation Amortization	(2)	\$ (198)	\$ (198)	\$ (198)	\$ (198)	\$ (198)	\$ (198)	\$ (198)	\$ (198)	\$ (430)	\$ (430)	\$ (430)	\$ (430)	\$ (3,307)
19	Net Meter Installation Deferred Depreciation at 12/31/2020	Line 1, Column B													\$ 441,223
20	Average Service Life - Services	(2)													2.00%
21	Annual Amortization Expense	Line 19 x Line 20													\$ 8,824
															To BAF-3, Line 32

Notes:

(1) FERC Account 682 depreciation rate approved in Case No. 18-0298-GA-AIR.

(2) FERC Account 682 depreciation rate's average service life or 50 years, as approved in Case No. 18-0298-GA-AIR.

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of Vectren)	
Energy Delivery of Ohio, Inc. d/b/a)	
CenterPoint Energy Ohio for Authority to)	Case No. 21-0491-GA-RDR
Adjust Its Distribution Replacement Rider)	
Charges)	

DIRECT TESTIMONY OF

KATIE J. TIEKEN

DIRECTOR, REGULATORY AND RATES

ON BEHALF OF

VECTREN ENERGY DELIVERY OF OHIO, INC.

D/B/A CENTERPOINT ENERGY OHIO

**Direct Testimony of
Katie J. Tieken**

I. BACKGROUND AND QUALIFICATIONS

Q1. Please state your name and business address.

A. My name is Katie J Tieken. My business address is 211 NW Riverside Drive, Evansville, Indiana 47708.

Q2. What position do you hold with Vectren Energy Delivery of Ohio Inc. d/b/a CenterPoint Energy Ohio (CEOH or the Company)?

A. I am Director, Regulatory and Rates for CenterPoint Energy, Inc. (CenterPoint), which is the parent company of CEOH. I have the same role with two other utility subsidiaries of CenterPoint – Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South (CEI South) and Indiana Gas Company, Inc. d/b/a CenterPoint Energy Indiana North (CEI North).

Q3. Please describe your educational background.

A. I am a 2001 graduate of the University of Evansville with a Bachelor of Science degree in Business Administration with double majors in finance and mathematics.

Q4. Please describe your professional experience.

A. From 2002 to 2007, I was employed by EG&G Technical Services as a financial analyst and contract administrator. Since October 2007, I have been employed with CenterPoint in various regulatory capacities. In 2015, I was named Manager, Rates. I was named to Manager, Regulatory and Rates in February 2019. In April 2021, I was named Director, Regulatory and Rates for the above named utilities.

1 **Q5. What are your present duties and responsibilities as Director, Regulatory and**
2 **Rates?**

3 A. I am responsible for the Ohio and Indiana regulatory and rate matters of the regulated
4 utilities within CenterPoint in proceedings before the Ohio and Indiana utility regulatory
5 commissions. I also have responsibility for the implementation of all regulatory
6 initiatives of CEOH (and other utility subsidiaries in Indiana), as well as the preparation
7 of regulatory and rates exhibits submitted in various regulatory proceedings.

8 **Q6. Have you previously testified before any state regulatory commission?**

9 A. Yes, I have testified before the Indiana Utility Regulatory Commission (IURC) on behalf
10 of CEI South and CEI North. I have not previously testified before the Public Utilities
11 Commission of Ohio (PUCO or Commission).

12 **Q7. What is the purpose and scope of your testimony in this proceeding?**

13 A. My testimony describes changes to costs recovered through the Distribution Replacement
14 Rider (DRR) and supports the proposed DRR charges, as well as the proposed tariff sheet
15 and associated bill impacts.

16 **Q8. What Exhibits are you sponsoring in this proceeding?**

17 A. The following exhibits are attached to my testimony:

- 18 • Exhibit No. KJT-1 – DRR Revenue Requirement Variance at December 31, 2020
- 19 • Exhibit No. KJT-1a – DRR Recoveries by Tariff
- 20 • Exhibit No. KJT-2 – DRR Derivation of Charges and Bill Impacts; and
- 21 • Exhibit No. KJT-3 – DRR Tariff Sheet

1 **II. DRR BACKGROUND**

2 **Q9. Has the Commission approved changes to the DRR since it was originally approved**
3 **in Case No. 07-1080-GA-AIR?**

4 A. Yes. The Commission’s February 19, 2014 Order in Case No. 13-1571-GA-ALT
5 approved a Stipulation and Recommendation (the 13-1571 Stipulation) between CEOH
6 and the Staff of the Public Utilities Commission of Ohio. In the 13-1571 Stipulation, the
7 Commission approved continuation of the DRR, which was originally approved in Case
8 No. 07-1080-GA-AIR (the 2007 Rate Case). The 13-1571 Stipulation allowed CEOH to
9 recover a return on and of investments made by the Company under an accelerated bare
10 steel and cast iron pipeline replacement program (the Replacement Program), inclusive of
11 capitalized interest (or post-in-service carrying costs, or PISCC) associated with the
12 Replacement Program, and to recover the incremental costs of assuming responsibility
13 for service lines.

14 **Q10. How did the 13-1571 Stipulation modify the DRR?**

15 A. The 13-1571 Stipulation provided that Replacement Program costs incurred through
16 December 31, 2017 are recoverable in the DRR. It also accelerated the pace of the
17 Replacement Program and clarified and expanded the scope of costs recoverable in the
18 DRR. These and other modifications are described in further detail in the 13-1571
19 Stipulation itself.

20 **Q11. Has CEOH been granted an extension of the DRR beyond 2017?**

21 A. Yes. In Case Nos. 18-0298-GA-AIR, 18-0299-GA-ALT, and 18-0049-GA-ALT (the
22 2018 Rate Case), the Commission extended the DRR and Replacement Program for six
23 years, for investments made starting in 2018 through 2023. The 2018 Rate Case

specifically reflected agreement, within the Stipulation and Recommendation, by the signatory parties to continue the DRR and Replacement Program for this six-year period.

Q12. Please explain the provisions approved in the 2018 Rate Case related to the DRR and the Replacement Program.

A. The 2018 Rate Case modified the rate of return, post-in-service carrying cost rate, and depreciation rates applicable to the DRR and Replacement Program investments, effective September 1, 2019 with an issuance of the Order in the 2018 Rate Case. The 2018 Rate Case continued the requirement that CEOH employ, subject to Staff's review, prudent and reasonable cost controls, including competitive bidding processes; system planning; and negotiation with municipalities regarding permitting, restoration, fees, and other requirements. The 2018 Rate Case reflected agreement that CEOH shall attempt to complete the Replacement Program by December 31, 2023. CEOH witness Steven A. Hoover discusses CEOH's cost control and competitive bidding processes, and progress and expectations for Replacement Program completion within his testimony.

Finally, the 2018 Rate Case established the residential DRR rate caps, as noted in the following table, applicable starting with investments made in 2018.

Rate Effective Period	DRR Investment Period	Residential Rate Cap (per customer, per month)
September 1, 2019-August 31, 2020	As of December 31, 2018	\$2.50
September 1, 2020-August 31, 2021	As of December 31, 2019	\$5.00
September 1, 2021-August 31, 2022	As of December 31, 2020	\$7.50
September 1, 2022-August 31, 2023	As of December 31, 2021	\$10.00
September 1, 2023-August 31, 2024	As of December 31, 2022	\$12.00
September 1, 2024-August 31, 2025	As of December 31, 2023	\$13.75

Q13. Please describe the requirements agreed to in the 2018 Rate Case regarding the review of the riders.

A. The 2018 Rate Case Order approved the Stipulation and Recommendation entered into by multiple parties to the Rate Case, which specified:

“The PUCO Staff or its designee will perform a review of [CEOH]’s filing, every one to two years in its discretion, to determine the necessity, prudence, lawfulness, and reasonableness of the CEP Investment for the prior calendar year.” (Paragraph 8(j).))

In Case No. 20-0101-GA-RDR (the 2020 DRR Case), the Commission selected Blue Ridge Consulting Services, Inc. (Blue Ridge) for audit services to review the accounting accuracy, prudence, and used and usefulness of CEOH’s total rate base investments for 2018 and 2019, as well as to review and evaluate its Capital Expenditure Program (CEP) and DRR investments and program compliance. The 2020 DRR Case

1 application stated “[t]he Company intends to seek recovery of the costs associated with
2 this contractual audit in subsequent proceedings.” (2020 DRR App. at 5.)

3 **Q14. Has CEOH included costs associated with the 2020 audit of DRR in the updated**
4 **DRR revenue requirement?**

5 A. Yes. In the 2020 DRR Case, the Company indicated in its Application and Direct
6 Testimony that it would seek recovery of any annual audit expense in subsequent DRR
7 filings. ((See 2020 DRR App. at 5).) The 2020 audit covered both the CEP and DRR
8 filings in 2020 and was the first time that the Commission had used an outside auditor to
9 review the costs included in an annual update to the Company’s infrastructure riders.
10 Although the Commission issued an RFP for audit services and selects the auditor,
11 CEOH was required to enter into a contract directly with the auditor. Staff then reviewed
12 and approved invoices submitted by the auditor, which CEOH then paid directly to the
13 auditor. Thus, the Company considers the auditor payments to be an incremental,
14 recoverable expense associated with the review of the deferrals included in the DRR
15 Rider, similar to the types of expenses that the Company would incur, account for, and
16 recover as rate case expense in base rate cases. The level of actual incurred audit expense
17 in 2020 is reflected on Schedule 1 of Exhibit No. BAF-1 and will be recovered over the
18 twelve-month rate effective period. As the 2020 audit covered both the CEP and DRR
19 filings, the Company has included 50% of the auditor payments in the updated DRR
20 revenue requirement and has included the other 50% of the payments in its pending 2021
21 CEP filing, Case No. 21-620-GA-RDR.

1 **Q15. Please explain Exhibit No. KJT-1 and Exhibit No. KJT-1a.**

2 A. Exhibit No. KJT-1 provides the calculation of the DRR variance at December 31, 2020.
3 This variance is associated with the DRR revenue requirement for the twelve months
4 ended December 31, 2020.

5 The variance determined on Exhibit No. KJT-1, page 1, is allocated to mains and
6 service lines based upon the approved revenue requirements in CEOH's 2018, 2019 and
7 2020 DRR Filings.

8 Exhibit No. KJT-1a reflects DRR recoveries by month by customer group for the
9 twelve months ended December 31, 2020

10 **Q16. Please describe Exhibit No. KJT-2.**

11 A. This exhibit contains the filing schedules to support the derivation of the Company's
12 proposed DRR change.

13 Exhibit No. KJT-2, page 1, shows the allocation of the DRR revenue requirement
14 and variance by rate schedule. The rate schedule allocation factors are as approved in the
15 order in the 2018 Rate Case, and are multiplied by the total revenue requirement (from
16 Exhibit No. BAF-1) to determine the allocated revenue requirement by rate schedule.
17 These same allocations factors are multiplied by the total variance (from Exhibit No.
18 KJT-1) to determine the allocation variance by rate schedule.

19 The revenue requirement for general service customers is further subdivided by
20 those customers served by a Group 1 meter (customers served under Rates 320, 321 and
21 325; hereinafter collectively referred to as Group 1 Customers) receiving a fixed monthly
22 charge and the remaining customers (customers served by non-Group 1 meters under
23 Rates 320, 321 and 325; hereinafter collectively referred to as Group 2 and Group 3
24 customers) charged volumetrically. The revenue requirement is first allocated to the

1 Group 1 subclassification as 130% of the calculated monthly residential DRR for 2020
2 multiplied by the sum of the number of monthly Group 1 customer bills. Group 2 and
3 Group 3 customers are allocated the residual of the Rate 320, 321 and 325 revenue
4 requirement less the amounts assigned to the Group 1 customers.

5 Exhibit No. KJT-2, page 2, calculates the residential DRR rate per customer
6 applicable to only the revenue requirement amount, and evaluates this rate against the
7 approved cap of \$7.50 per customer per month. For the residential rate schedules (Rates
8 310, 311, and 315), the allocated revenue requirement is divided by the projected number
9 of customers, and then divided by 12, to determine the monthly DRR charge applicable to
10 residential customers. For prior periods, any amount in excess of the defined residential
11 rate cap was deferred and is subsequently included for recovery in the DRR provided the
12 resulting amount does not exceed the defined cap. The total residential DRR on line 4 is
13 compared against the cap on line 5, with any amount in excess of the cap deferred for
14 recovery in a subsequent DRR proceeding. In this proceeding, the revenue requirement
15 for residential customers results in a rate less than the \$7.50 per customer per month
16 approved cap, which would allow for the inclusion of the prior deferrals. As of December
17 31, 2020 the Company had no prior period deferral to include in this proceeding as
18 discussed below.

19 Exhibit No. KJT-2, page 3, calculates the total DRR rates and charges by taking
20 (1) the revenue requirement from page 1, (2) the prior deferral of amounts in excess of
21 the cap from page 2, (3) a reduction for any amounts in excess of the current cap from
22 page 3, and (4) the variance from page 1. The total amount to be recovered by rate
23 schedule is used to derive the proposed rates and charges. For the residential rate

1 schedules (Rates 310, 311, and 315), the allocated revenue requirement is divided by the
2 projected number of customers, and then divided by 12, to determine the monthly DRR
3 charge applicable to residential customers. The allocated revenue requirement for Group
4 1 customers, determined on page 1, is added to the allocated share of recovery variances
5 from page 1, with this total divided by the annual number of Group 1 bills to derive the
6 monthly per customer charge. For Group 2 and Group 3 Customers and all customers
7 receiving service under Rates 345 and 360, the allocated revenue requirement and
8 allocated recovery variances for each rate schedule is divided by the projected annual
9 throughput for each rate schedule to determine the DRR charge per billing Ccf applicable
10 to those rate schedules.

11 Exhibit No. KJT-2, page 4, identifies the recoveries applicable to the periods
12 September 2021 through December 2021 and January 2022 through August 2022. These
13 are the 12 months during which the proposed DRR is projected to be in effect. The
14 purpose of this schedule is to provide the basis for determining the revenue requirement
15 recovery variance applicable to the period of September through December 2021, since in
16 the next annual DRR filing CEOH will reconcile actual costs and actual recoveries
17 through December 2021¹. In the 2022 DRR filing the variance applicable to the period of
18 January through August 2021 will be based upon the recoveries for that period as
19 identified on page 4. This methodology is consistent with the company's previous annual
20 DRR filings.

¹ Recoveries applicable to January through August 2020 were included in the determination of the DRR revenue requirement in the 2019 DRR Filing, Case No. 19-1011-GA-RDR.

1 Exhibit No. KJT-2, page 5, shows the impact of the proposed DRR rates and
2 charges on each rate schedule.

3 Exhibit No. KJT-2, page 6, shows the annual impact of the proposed DRR rates
4 and charges on residential customers.

5 **Q17. Does the calculated residential DRR rate per customer exceed the cap identified in**
6 **the 2018 Rate Case?**

7 A. No. Consistent with the 2018 Rate Case, the evaluation against the rate cap shall only
8 include the DRR revenue requirement exclusive of variances. As shown on Exhibit No.
9 KJT-2, page 2, the 2020 DRR revenue requirement does not exceed the cap. The excess
10 revenue requirement over the cap identified in the 2018 proceeding was later included in
11 part in the 2019 proceeding and fully exhausted in the 2020 proceeding. The under
12 recovery variance presented in Exhibit No. KJT-1 resulting from approval of rates in
13 December of 2020 rather than the expected September 2020 is included here. Consistent
14 with the Commission's approval of CEOH's alternative rate plan in the 2018 Rate Case,
15 the residential rate caps on CEOH's monthly DRR charge do not include any adjustments
16 attributable to the reconciliation of costs recoverable and costs actually recovered for the
17 prior DRR rate effective period.

18 **Q18. What are the proposed DRR rates and charges when considering the applicable cap**
19 **and variances from prior periods?**

20 A. As reflected on Exhibit No. KJT-2, page 3, the proposed DRR rates and charges are as
21 follows:

Rate Schedule	DRR Rate per Customer per Month	DRR Rate per Billing CCF
310, 311, and 315	\$7.59	
320, 321, and 325 (Group 1)	\$9.86	
320, 321, and 325 (Group 2 and 3)		\$0.03007
345		\$0.01262
360		\$0.00539

1 **Q19. Please describe Exhibit No. KJT-3.**

2 A. Exhibit No. KJT-3 illustrates the proposed DRR tariff sheet, with a redlined (page 1) and
3 clean (page 2) version.

4

5 **III. CONCLUSION**

6 **Q20. Does that conclude your prepared direct testimony?**

7 A. Yes, it does.

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
DRR REVENUE REQUIREMENT VARIANCE**

Line	Description		Total	Reference
1	Revenue requirement for January 2020 - August 2020 per Case No. 19-1011-GA-RDR, Exhibit JCS-5-S, Page 4 of 6, Line 14	\$ 5,043,424		
2	Less: DRR Recoveries January 2020 - August 2020	\$ (4,928,046)		-(Sum of Lines 19-26)
3	DRR (Over)/Under Recovery for Eight Months Ended August 31, 2020		\$ 115,378	Line 1 + Line 2
4	Revenue requirement for September 2020 - December 2020 per Case No. 20-0101-GA-RDR, Exhibit JCS-5-C, Page 4 of 6, Line 5	\$ 6,347,030		
5	Less: DRR Recoveries September 2020 - December 2020	\$ (2,585,599)		-(Sum of Lines 27-30)
6	DRR (Over)/Under Recovery for Four Months Ended December 31, 2020		\$ 3,761,431	Line 4 + Line 5
7	DRR (Over)/Under Recovery for Twelve Months Ended December 31, 2020		\$ 3,876,809	Line 3 + Line 6
8	<u>(Over)/Under Recovery - Mains and Services Allocation</u>			
	Description	Revenue Requirement	%	DRR Variance Allocation
	2019	D ⁽¹⁾	E	F = Line 4 * E
9	Mains	\$ 4,589,198	43.5%	\$ 50,149
10	Services	5,969,080	56.5%	65,228
11	Total	\$ 10,558,278	100.0%	\$ 115,378
				Line 3
	2020	D ⁽²⁾	E	F = Line 7 * E
12	Mains	\$ 8,526,250	43.2%	\$ 1,626,610
13	Services	11,190,155	56.8%	2,134,821
14	Total	\$ 19,716,405	100.0%	\$ 3,761,431
				Line 6
15	Total Main (Over) Recovery Variance		\$ 1,676,759	Line 9 + Line 12
				To KJT-2, Page 1, Line 14, Column B.
16	Total Services (Over) Recovery Variance		\$ 2,200,050	Line 10 + Line 13
				To KJT-2, Page 1, Line 14, Column D.
17	<u>DRR Recoveries by Month:</u>			
		Recovery - \$	Reference	
18	January 2020	\$ 696,866	Exhibit No. KJT-1a, Column H, Line 1	
19	February 2020	\$ 627,250	Exhibit No. KJT-1a, Column H, Line 2	
20	March 2020	\$ 625,177	Exhibit No. KJT-1a, Column H, Line 3	
21	April 2020	\$ 606,841	Exhibit No. KJT-1a, Column H, Line 4	
22	June 2020	\$ 596,674	Exhibit No. KJT-1a, Column H, Line 5	
23	June 2020	\$ 584,758	Exhibit No. KJT-1a, Column H, Line 6	
24	July 2020	\$ 591,586	Exhibit No. KJT-1a, Column H, Line 7	
25	August 2020	\$ 598,896	Exhibit No. KJT-1a, Column H, Line 8	
26	September 2020	\$ 612,152	Exhibit No. KJT-1a, Column H, Line 9	
27	October 2020	\$ 594,142	Exhibit No. KJT-1a, Column H, Line 10	
28	November 2020	\$ 599,241	Exhibit No. KJT-1a, Column H, Line 11	
29	December 2020	\$ 780,063	Exhibit No. KJT-1a, Column H, Line 12	
30				
31	Total DRR Recoveries	\$ 7,513,645		

Notes:

(1) Revenue Requirement per Case No. 19-1011-GA-RDR (Exhibit JCS-5-S, Page 1 of 6, Line 7).

(2) Revenue Requirement per Case No. 20-0101-GA-RDR (Exhibit JCS-5-C, Page 1 of 6, Line 7).

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
DRR RECOVERIES BY TARIFF**

		A	B	C	D	E	F	G	H
		DRR Recoveries							
<u>Line</u>	<u>Month</u>	<u>310/311/315</u>	<u>320/321/325 - Grp 1</u>	<u>341</u>	<u>320/321/325 - Grp 2 & 3</u>	<u>345</u>	<u>360/370</u>	<u>Total</u>	
1	Jan-20	\$ 576,189	\$ 35,400	\$ -	\$ 35,804	\$ 21,882	\$ 27,590	\$ 696,866	
2	Feb-20	509,798	30,806	-	39,479	21,255	25,912	\$ 627,250	
3	Mar-20	525,544	31,934	-	27,587	16,002	24,110	\$ 625,177	
4	Apr-20	527,594	31,681	-	14,633	12,688	20,246	\$ 606,841	
5	May-20	527,365	31,718	-	9,636	10,142	17,812	\$ 596,674	
6	Jun-20	524,457	30,248	-	3,851	8,146	18,055	\$ 584,758	
7	Jul-20	527,975	31,777	-	4,146	8,307	19,380	\$ 591,586	
8	Aug-20	534,646	31,771	-	4,675	8,508	19,295	\$ 598,896	
9	Sep-20	545,834	31,730	-	5,669	9,534	19,384	\$ 612,152	
10	Oct-20	516,113	32,212	-	10,062	13,050	22,705	\$ 594,142	
11	Nov-20	511,104	30,417	-	18,800	15,544	23,377	\$ 599,241	
12	Dec-20	609,089	32,303	-	62,509	34,206	41,956	\$ 780,063	
13	Total	<u>\$ 6,435,708</u>	<u>\$ 381,999</u>	<u>\$ -</u>	<u>\$ 236,851</u>	<u>\$ 179,266</u>	<u>\$ 279,822</u>	<u>\$ 7,513,645</u>	

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
ALLOCATION OF REVENUE REQUIREMENT**

<u>Line</u>	<u>Rate Schedule</u>	(A) Mains Allocation Factors (1) (%)	(B) Mains Allocated DRR Revenue Requirement	(C) Service Lines Allocation Factors (1) (%)	(D) Service Lines Allocated DRR Revenue Requirement	(E) DRR Audit Expense Allocation	(F) Total DRR Revenue Requirement (B) + (D)	
1	310/311/325	73.331%	\$ 9,556,120	89.734%	\$ 14,818,692	\$ 42,013	\$ 24,416,825 (2)	82.50%
2	320/321/325	14.221%	\$ 1,853,208	9.913%	\$ 1,637,035	\$ 6,016	\$ 3,496,259	11.81%
3	Group 1						\$ 1,347,989 (3)	4.55%
4	Group 2 & 3						\$ 2,148,269 (4)	7.26%
5	345	4.618%	\$ 601,794	0.280%	\$ 46,239	\$ 1,117	\$ 649,150	2.19%
6	360	<u>7.830%</u>	<u>\$ 1,020,365</u>	<u>0.073%</u>	<u>\$ 12,055</u>	<u>\$ 1,780</u>	<u>\$ 1,034,200</u>	3.49%
7	Total Revenue Requirements	<u>100.000%</u>	<u>\$ 13,031,487</u>	<u>100.000%</u>	<u>\$ 16,514,021</u>	<u>\$ 50,925</u> (5)	<u>\$ 29,596,434</u>	

(1) Allocation Factors for Mains and Service Lines as presented in Case No. 18-0298-GA-AIR.

(2) To KJT-2, Page 2, Line 2.

(3) Allocation of Group 1 revenue is 130% of the Residential monthly rate multiplied by the projected customer counts.

(4) Allocation of Group 2&3 revenue is the residual of the GS allocation less Group 1 charges.

(5) Audit Expense to allocate proportionately by Rate Class Revenue Requirement

ALLOCATION OF VARIANCES

<u>Line</u>	<u>Rate Schedule</u>	(A) Mains Allocation Factors (1) (%)	(B) Mains Allocated DRR Variance	(C) Service Lines Allocation Factors (1) (%)	(D) Service Lines Allocated DRR Variance	(F) Total DRR Variance (B) + (D)
8	310/311/325	73.331%	\$1,229,584.42	89.734%	\$ 1,974,192.44	\$ 3,203,776.86 (6)
9	320/321/325	14.221%	\$ 238,451.96	9.913%	\$ 218,091.13	\$ 456,543.09
10	Group 1					\$ 176,021.05 (7)
11	Group 2 & 3					\$ 280,522.04 (7)
12	345	4.618%	\$ 77,432.75	0.280%	\$ 6,160.14	\$ 83,592.89
13	360	<u>7.830%</u>	<u>\$ 131,290.27</u>	<u>0.073%</u>	<u>\$ 1,606.04</u>	<u>\$ 132,896.31</u>
14	Variance	<u>100.000%</u>	<u>\$1,676,759.45</u>	<u>100.000%</u>	<u>\$ 2,200,049.53</u>	<u>\$ 3,876,809.15</u>

(6) To KJT-2, Page 2, Line 7.

(7) Allocation of variance credit to 320/321/325 derived by applying the same proportion as used in revenue allocation for Group 1 and Group 2 & 3.

VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
CALCULATION OF RESIDENTIAL DRR DEFERRED 310/311/315 REVENUE

<u>Line</u>	<u>Description</u>	(A) <u>DRR Rate Revenue Requirement</u>	(B) <u>Residential Customer Count</u>	(C) <u>DRR Rate per Customer per Month</u> (A) / (B) / 12
1	Residential Customer Count		303,175	
2	Calculated DRR - Rate 310/311/315	\$ 24,416,825		\$ 6.71
3	<u>Prior Deferred Revenue - Rate 310/311/315</u>	<u>\$ - (1)</u>		
4	<u>Total Residential DRR</u>	<u>\$ 24,416,825</u>		\$ 6.71
5	Residential Rate Cap			<u>\$ 7.50</u>
6	<u>Excess Revenue Requirement Deferred</u>	<u>N/A (2)</u>		N/A
7	<u>Prior Deferred Revenue to be Recovered</u>	<u>\$ - (3)</u>		

(1) 310/311/315 Deferred Revenue Requirements As Filed in Case No. 18-0762-GA-RDR. Exhausted in 20-101-GA-RDR

(2) 310/311/315 Deferred Revenue Requirements carried to 2022 DRR filing. Excess calculated rate per customer per month multiplied by the projected residential customer count.

(3) Prior Deferred Revenue allowable for recovery under the Residential Rate Cap proposed in Case No. 18-0298-GA-AIR.

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
CALCULATION OF DRR RATES**

<u>Line</u>	<u>Schedule</u>	(A) Revenue Requirement (1)	(B) Prior Deferral	(C) Amount Over Cap (2)	(D) Variance (3)	(E) Recovery by Rate Schedule A + (B-C) + D	(F) Customer Count - or - Volumes	(G) Proposed DRR Per Customer Per Month (E) / (F) / 12	(H) Proposed DRR Per Billing Ccf (E) / (F)
1	310/311/315	\$ 24,416,825	\$ -	\$ -	\$ 3,203,777	\$ 27,620,602	303,175 #	\$ 7.59	
2	320/321/325	\$ 3,496,259			\$ 456,543	\$ 3,952,802			
3	Group 1	\$ 1,347,989			\$ 176,021	\$ 1,524,010	12,875 #	\$ 9.86	
4	Group 2 & 3	\$ 2,148,269			\$ 280,522	\$ 2,428,792	80,759,737 Ccf		\$ 0.03007
5	345	\$ 649,150			\$ 83,593	\$ 732,743	58,068,694 Ccf		\$ 0.01262
6	<u>360</u>	<u>\$ 1,034,200</u>			<u>\$ 132,896</u>	<u>\$ 1,167,097</u>	216,554,241 Ccf		\$ 0.00539
7	<u>Total</u>	<u>\$ 29,596,434</u>			<u>\$ 3,876,809</u>	<u>\$ 33,473,243</u>			

(1) From KJT-2, Page 1, Line 7, Column E

(2) From KJT-2, Page 2, Line 6

(3) From KJT-2, Page 1, Line 14, Column E

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
DETERMINATION OF APPROVED RECOVERIES
BY CALENDAR MONTH**

	(A)	(B)	(C)
Line	Month	Allocation Factor (1)	Approved Recoveries (2)
1	September-21	7.62%	\$ 2,551,710
2	October-21	8.03%	\$ 2,686,258
3	November-21	8.61%	\$ 2,883,506
4	December-21	9.11%	\$ 3,049,443
5	<u>Subtotal (To Annual DRR Filing in 2022)</u>		<u>\$ 11,170,917</u>
6	January-22	9.51%	\$ 3,183,373
7	February-22	8.96%	\$ 3,000,299
8	March-22	8.83%	\$ 2,954,771
9	April-22	8.35%	\$ 2,794,699
10	May-22	7.87%	\$ 2,634,169
11	June-22	7.75%	\$ 2,595,460
12	July-22	7.69%	\$ 2,573,527
13	August-22	7.67%	\$ 2,566,027
14	<u>Subtotal (To Annual DRR Filing in 2023)</u>		<u>\$ 22,302,327</u>

(1) Based on monthly volumes / customer count (as applicable) as a percentage of annual, in 2021-2022 Budget.

(2) Allocation Factor in Column B times total revenue requirement - inclusive of prior deferrals and variances.

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
RATE SCHEDULE BILL IMPACTS**

<u>Line</u>	<u>Rate Schedule</u>	(A) <u>Present Revenue (1)</u>	(B) <u>Gas Cost Revenue</u>	(C) <u>Revenue Less Gas Cost Revenue (A) - (B)</u>	(D) <u>Previous DRR Revenue Requirement</u>	(E) <u>Current DRR Revenue Requirement (2)</u>	(F) <u>Incremental DRR Revenue Requirement (D) - (E)</u>	(G) <u>% Increase (F) / (C)</u>	
1	310/311/315	\$ 122,189,089	\$ 5,834,923	\$ 116,354,166	\$ 15,716,562	\$ 27,620,602	\$ 11,904,040	10.23%	(3)
2	320/321/325	\$ 28,048,919	\$ 191,118	\$ 27,857,801	\$ 2,163,592	\$ 3,952,802	\$ 1,789,210	6.42%	(4)
3	345	\$ 7,028,841		\$ 7,028,841	\$ 402,844	\$ 732,743	\$ 329,899	4.69%	
4	360	\$ 15,986,151		\$ 15,986,151	\$ 642,066	\$ 1,167,097	\$ 525,031	3.28%	
5	<u>Total</u>	<u>\$ 173,253,000</u>	<u>\$ 6,026,041</u>	<u>\$ 167,226,959</u>	<u>\$ 18,925,063</u>	<u>\$ 33,473,243</u>	<u>\$ 14,548,180</u>	<u>8.70%</u>	

(1) Rate Case Revenues (Test Year) under proposed rates.

(2) Reflects Revenue Requirement for 2018 only; From Exhibit No. JCS-5, Page 3, Line 7, column E.

(3) For column (E), Revenue Requirement equals unit rate times number of customers.

(4) For column (E), Revenue Requirement equals unit rate times number of customers for Group 1, and unit rate times projected volumes for Group 2 & 3.

**VECTREN ENERGY DELIVERY OF OHIO, INC. D/B/A CENTERPOINT ENERGY OHIO
DISTRIBUTION REPLACEMENT RIDER
ANNUAL RESIDENTIAL CUSTOMER BILL IMPACT**

<u>Line</u>			<u>Reference</u>
1	Proposed DRR Charge Per Customer Per Month	\$ 7.59	Exhibit No. KJT-2, Page 3
2	Current DRR Charge Per Customer Per Month	<u>\$ 4.35</u> (1)	CN 20-0101
3	Incremental DRR Charge Per Month	\$ 3.24	Line [1] - Line [2]
4	Months	<u>12</u>	
5	Annual Incremental Bill Impact	\$ 38.90	Line [3] x Line [4]
6	Total Annual DRR Bill Amount	\$ 91.10	Line [1] x Line [4]

(1) Investment through December 31, 2017 included in base rates per Case No. 18-0298-GA-AIR.

VECTREN ENERGY DELIVERY OF OHIO, INC.
Tariff for Gas Service
P.U.C.O. No. 4

Sheet No. 45
~~First~~~~Second~~ Revised Page 1 of 1
Cancels ~~First Revised~~~~Original~~ Page 1 of 1

DISTRIBUTION REPLACEMENT RIDER

APPLICABILITY

The Distribution Replacement Rider ("DRR") is applicable to any Customer served under the Rate Schedules identified below.

- Rate 310 - Residential Default Sales Service
- Rate 311 - Residential Standard Choice Offer Service
- Rate 315 - Residential Transportation Service
- Rate 320 - General Default Sales Service
- Rate 321 - General Standard Choice Offer Service
- Rate 325 - General Transportation Service
- Rate 345 - Large General Transportation Service
- Rate 360 - Large Volume Transportation Service

DESCRIPTION

The DRR will be effective through August 31, 2025 or until new rates become effective as a result of the filing by Company of an application for an increase in rates pursuant to Section 4909.18, Revised Code, or a proposal to establish base rates pursuant to an alternative method of regulation under Section 4929.05, Revised Code, whichever comes first.

The DRR will recover costs associated with Company's accelerated infrastructure replacement program approved by the Commission in Case No. 18-0299-GA-ALT. All applicable Customers shall be assessed either (a) a monthly charge in addition to the Monthly Charge or Customer Charge component of their applicable Rate Schedule, or (b) a volumetric charge applicable to each Billing Ccf of metered gas usage each month.

Actual costs and actual recoveries are reconciled in each annual DRR update, with any under- or over-recovery being recovered or returned over the next twelve (12) month period.

The monthly DRR charge applicable to Rate 310, 311, 315, 320 (Group 1), 321 (Group 1) and 325 (Group 1) customers shall be subject to caps approved by the Commission in Case No. 18-0299-GA-ALT.

RECONCILIATION

The DRR is subject to reconciliation or adjustment annually, including but not limited to, increases or refunds. Such reconciliation or adjustment shall be limited to: (1) the twelve-month period of expenditures upon which the rates were calculated, if determined to be unlawful, unreasonable, or imprudent by the Commission in the docket those rates were approved or the Supreme Court of Ohio; (2) the Commission's orders in Case No. 18-47-AU-COI or any case ordered by the Commission to address tax reform changes.

DISTRIBUTION REPLACEMENT RIDER CHARGE

The charges for the respective Rate Schedules are:

<u>Rate Schedule</u>	<u>\$ Per Month</u>	<u>\$ Per Billing Ccf</u>
310, 311 and 315	\$4.357.59	
320, 321 and 325 (Group 1)	\$5.469.86	
320, 321 and 325 (Group 2 and 3)		\$0.0162803007
345		\$0.0069401262
360		\$0.0030700539

Filed pursuant to the Opinion and Order dated December 16, 2020 in Case No. 20-0101-GA-RDR of The Public Utilities Commission of Ohio.

Issued _____

Issued by Katie J Tieken, Director

Effective _____

VECTREN ENERGY DELIVERY OF OHIO, INC.
Tariff for Gas Service
P.U.C.O. No. 4

Sheet No. 45
Second Revised Page 1 of 1
Cancels First Revised Page 1 of 1

DISTRIBUTION REPLACEMENT RIDER

APPLICABILITY

The Distribution Replacement Rider ("DRR") is applicable to any Customer served under the Rate Schedules identified below.

- Rate 310 - Residential Default Sales Service
- Rate 311 - Residential Standard Choice Offer Service
- Rate 315 - Residential Transportation Service
- Rate 320 - General Default Sales Service
- Rate 321 - General Standard Choice Offer Service
- Rate 325 - General Transportation Service
- Rate 345 - Large General Transportation Service
- Rate 360 - Large Volume Transportation Service

DESCRIPTION

The DRR will be effective through August 31, 2025 or until new rates become effective as a result of the filing by Company of an application for an increase in rates pursuant to Section 4909.18, Revised Code, or a proposal to establish base rates pursuant to an alternative method of regulation under Section 4929.05, Revised Code, whichever comes first.

The DRR will recover costs associated with Company's accelerated infrastructure replacement program approved by the Commission in Case No. 18-0299-GA-ALT. All applicable Customers shall be assessed either (a) a monthly charge in addition to the Monthly Charge or Customer Charge component of their applicable Rate Schedule, or (b) a volumetric charge applicable to each Billing Ccf of metered gas usage each month.

Actual costs and actual recoveries are reconciled in each annual DRR update, with any under- or over-recovery being recovered or returned over the next twelve (12) month period.

The monthly DRR charge applicable to Rate 310, 311, 315, 320 (Group 1), 321 (Group 1) and 325 (Group 1) customers shall be subject to caps approved by the Commission in Case No. 18-0299-GA-ALT.

RECONCILIATION

The DRR is subject to reconciliation or adjustment annually, including but not limited to, increases or refunds. Such reconciliation or adjustment shall be limited to: (1) the twelve-month period of expenditures upon which the rates were calculated, if determined to be unlawful, unreasonable, or imprudent by the Commission in the docket those rates were approved or the Supreme Court of Ohio; (2) the Commission's orders in Case No. 18-47-AU-COI or any case ordered by the Commission to address tax reform changes.

DISTRIBUTION REPLACEMENT RIDER CHARGE

The charges for the respective Rate Schedules are:

<u>Rate Schedule</u>	<u>\$ Per Month</u>	<u>\$ Per Billing Ccf</u>
310, 311 and 315	\$7.59	
320, 321 and 325 (Group 1)	\$9.86	
320, 321 and 325 (Group 2 and 3)		\$0.03007
345		\$0.01262
360		\$0.00539

Filed pursuant to the Opinion and Order dated December 16, 2020 in Case No. 20-0101-GA-RDR of The Public Utilities Commission of Ohio.

Issued _____

Issued by Katie J Tieken, Director

Effective _____

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Case No(s). 21-0491-GA-RDR

Summary: Application Application for Authority to Adjust Its Distribution Replacement Rider Charges electronically filed by Christopher T Kennedy on behalf of Vectren Energy Delivery of Ohio, Inc. d/b/a CenterPoint Energy Ohio