



Main installation along the 2300 block of West Grand Avenue.

The Peoples Gas Light and Coke Company
Safety Modernization Program
ICC 2021 4th Quarter Report

SMP Progress through: December 31, 2021

Published: February 14, 2022

Quarterly Highlights

1. Cost per mile metrics are in line with the plan and historic ranges despite the inclusion of complex public improvement (PI) and system improvement (SI) projects in the fourth quarter during which over 25 miles of main was installed.
2. Project teams continue to mitigate risks and coordinate with various entities to move projects from design through construction.
3. Peoples Gas completed construction of two vaults supporting the Budlong Woods neighborhood, which is 13th in the neighborhood risk ranking.

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February 14, 2022

Illinois Commerce Commission
527 East Capitol Avenue
Springfield, IL 62701

Dear Chairman Zalewski and Commissioners Kimbrel, Bocanegra Carrigan, and McCabe:

We are pleased to submit the fourth quarter report for 2021 for the Peoples Gas Safety Modernization Program (SMP) in compliance with the ICC's order in docket 16-0376. As you will notice throughout the report, we recently updated the name of the program to more accurately reflect its primary goal of ensuring customer and public safety. Here are a few year-end statistics for 2021 and highlights from the fourth quarter:

Construction budget and schedule – SMP finished 2021 on budget, overcoming challenges related to employee availability due to COVID-19, third-party approval of plans, and changes in the complexity of several large-scale projects. Throughout the year, Peoples Gas worked closely with the City of Chicago to coordinate SMP with other infrastructure work while simultaneously balancing community concerns. SMP remains on schedule and is now one-third complete.

2021 construction overview – SMP crews installed 102 miles of natural gas main, 9,605 service lines and 17,747 gas meters in 2021. More than 76 miles of outdated natural gas main was retired, about the distance between Chicago and Racine, Wisconsin. In all, SMP work included 413 projects across 16 Chicago neighborhoods in 2021.

New regulator vaults – Two new high pressure regulator vaults were installed in the fourth quarter to support SMP upgrades in the Budlong Woods neighborhood. The Budlong Woods upgrades will run throughout 2022 and involve the installation of more than eight miles of natural gas main.

Avalon Park and McKinley Park – Crews completed meter transfers and main retirements in the fourth quarter on two major neighborhood upgrades that began in 2020. The Avalon Park project involved the installation of more than eight miles of main, retirement of about five miles of main, and transfer of nearly 900 meters. The McKinley Park project included more than 12 miles of main installation, more than eight miles of retirement, and the transfer of nearly 2,500 meters.

We look forward to continuing to partner with you to improve the safety, reliability and environmental sustainability of our delivery system. As always, feel free to contact me with any questions or concerns.

Sincerely,



Andy Hesselbach
Senior Vice President of Gas Operations

2. Summary Observations & Analysis

Enclosed is Peoples Gas' Safety Modernization Program (SMP) Fourth Quarter 2021 Report. The information displayed on the pages that follow are actual results recorded from January 2021 through December 2021 as measured against the plan established in the fourth quarter of 2020.

The plan supports the necessary pace of the program and is shown through the blue lines and bars throughout the report. As always, execution of the planned installation and retirement quantities involves coordination and collaboration with various groups and thousands of customers each year. Peoples Gas continues to mitigate global supply chain disruptions that are affecting the entire economy. Team members are working closely with manufacturers to understand and minimize impacts from various material delays.

Steady progress was made during the fourth quarter on installation across our Neighborhood, PI/SI, and High Pressure programs, and construction started on 20 projects. Even with several schedule impact drivers throughout 2021, such as OUC delays and the COVID-19 impact on employee availability, overall construction progress was on target for the year. Peoples Gas continued working in the Central Business District (CBD) on the Magnificent Mile. Construction involved multiple levels of coordination between the impacted ward offices and CDOT to efficiently manage work within highly congested public rights-of-way. These efforts ensured minimal disruption to the local businesses and residences. Overall for 2021, Peoples Gas completed 96 percent of planned main installations, 90 percent of planned service installations, 98 percent of planned meter transfers, and 94 percent of planned gas main retirement. The following pages detail this progress. Specific highlights include:

- For Neighborhood work, the year to date cost per mile is aligned with the plan, as shown on page 7. Main installation started in the Budlong Woods neighborhood, which is 13th in the neighborhood risk ranking. Main retirement was completed for the McKinley and Avalon neighborhoods.
- PI/SI cost per installed mile narrowly exceeded the planned rate and was well within historical levels. A strategic pivot to complete additional complex projects pushed costs up modestly, but supported excellent program progress. . Installations in the fourth quarter include a project at 58th and Nottingham, where crews completed gas main installation ahead of schedule. Additionally, construction involved the installation of large-diameter pipe by insertion utilizing existing high-risk corroding cast iron pipe in the South District at 114th & State St. See pages 10 – 12 for the PI/SI Program metrics.
- Meter moves completed exceed the fourth quarter plan. Team members continue to coordinate with thousands of customers to complete the moves, which is key to retirement of old main. Metrics related to meter moves are on pages 13 and 14.
- 2021 work under the High Pressure Program involved the completion of both the Ainslie and Francisco High Pressure/Medium Pressure (HP/MP) Vault and the Bryn Mawr and Virginia HP/MP Vault, which were both completed on time and under budget. These vaults were both installed to support construction in the Budlong Woods neighborhood, which began in the fourth quarter of 2021.

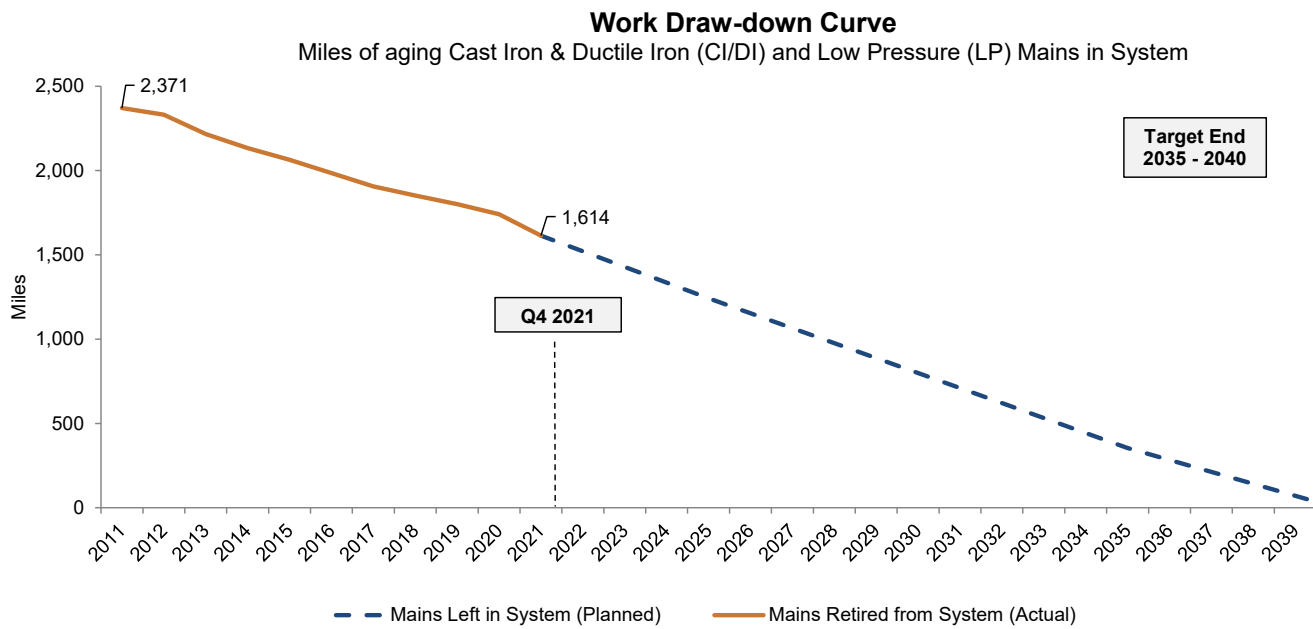
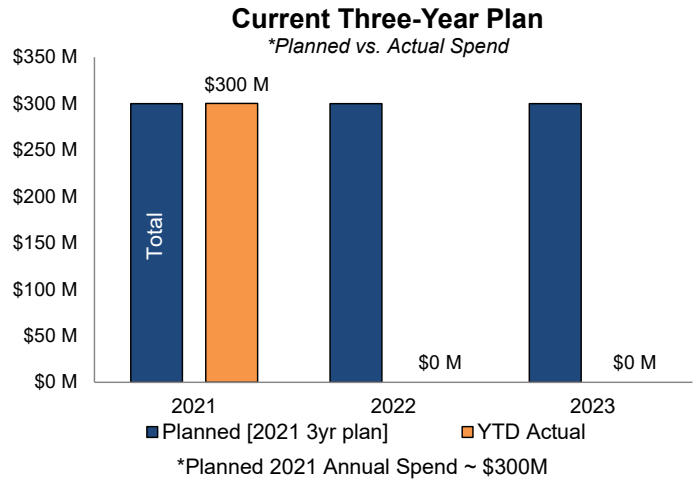
3. High Level Program Status

Program Cumulative Year-to-Date Metrics:

- 102.0 Miles Installed**
- 9,605 Services**
- 17,747 Meters**
- 76.4 Miles Retired**
- \$ 42.3 M Restoration Costs**

Cost per mile Installed

- \$ 2.6 M Neighborhood**
- \$ 3.6 M PI/SI**

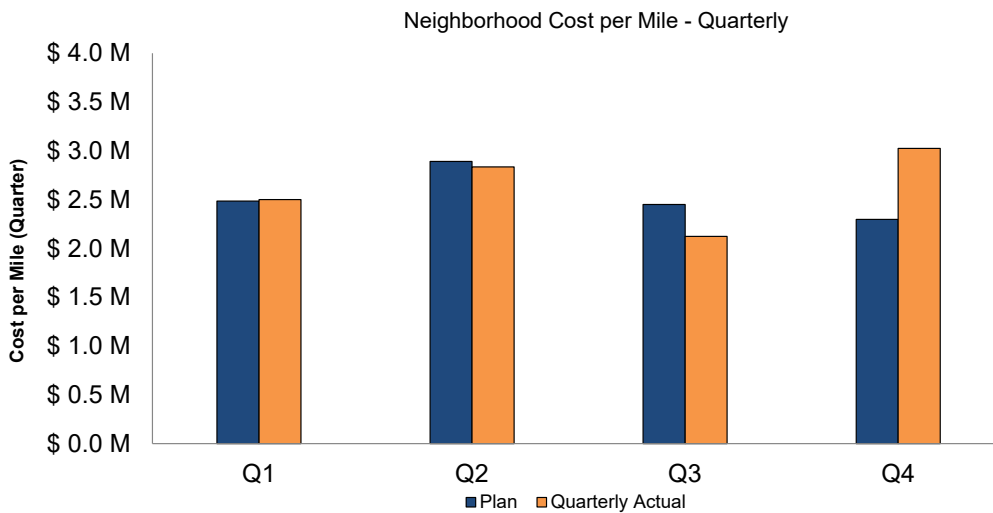
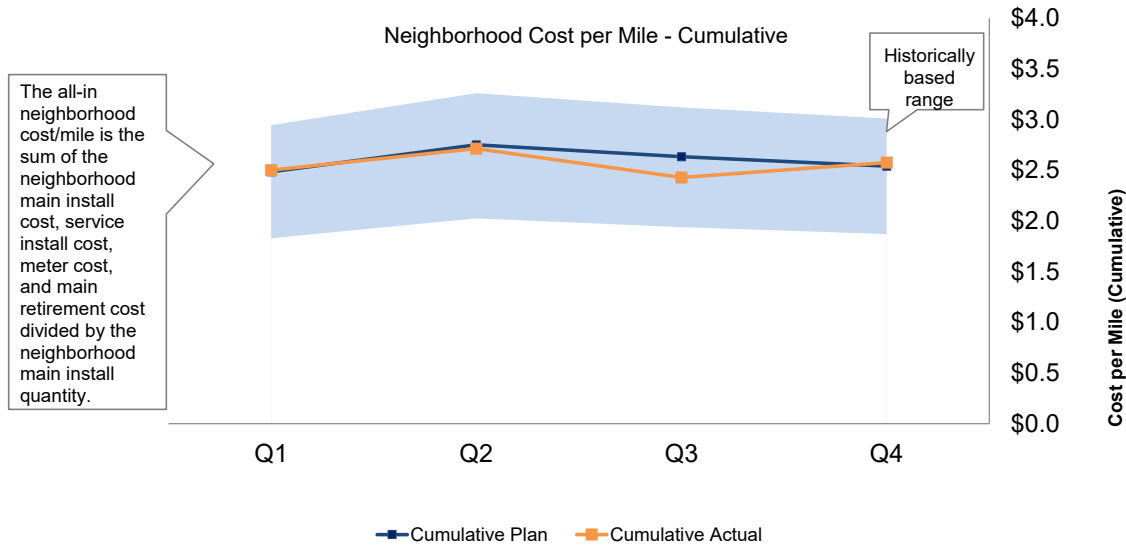


Peoples Gas - Safety Modernization Program *Quarterly Report*

Prepared for the Illinois Commerce Commission - Quarter ending December 31, 2021

Neighborhood Replacement Program – Projects that Peoples Gas ranks, designs, and constructs based on the most at risk system components identified by the company’s neighborhood ranking tool.

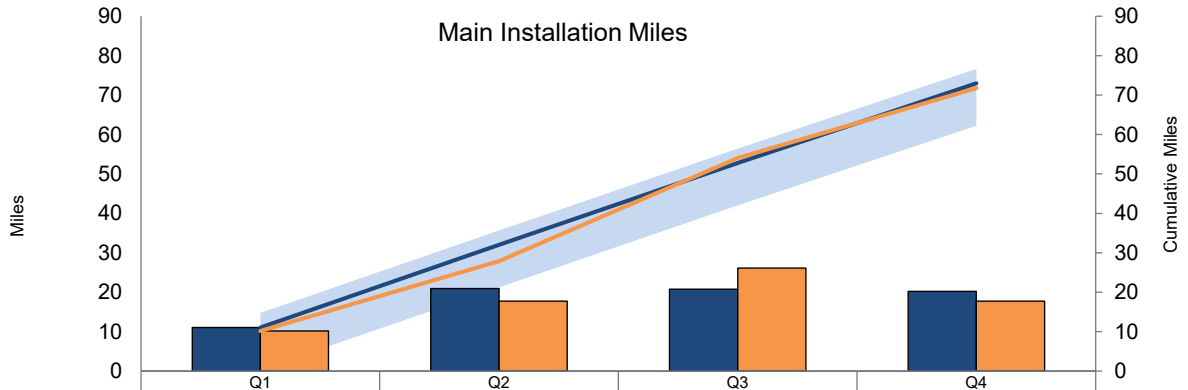
4A. Neighborhood Program Performance



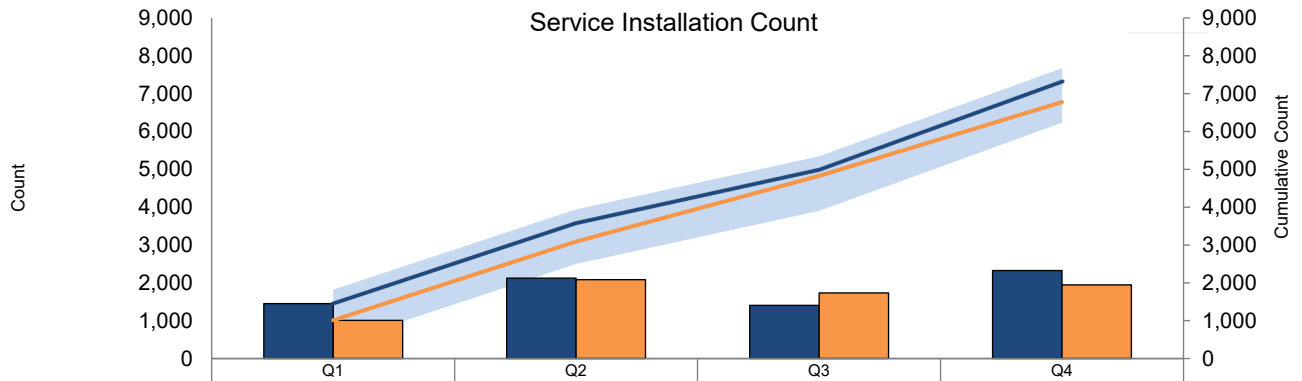
Year-to-Date Numbers

	Cumulative Planned			Cumulative Actual		
	Cost (A)	Unit (B)	Cost/Unit (C=A/B)	Cost (D)	Unit (E)	Cost/Unit (F=D/E)
Main Install	\$ 112.8 M	73.0	\$1.5 M / install mile	\$ 103.9 M	71.8	\$1.4 M / install mile
Main Retirement	\$ 9.0 M	60.3	\$0.1 M / retire mile	\$ 8.8 M	58.1	\$0.2 M / retire mile
Service Replacement	\$ 41.0 M	7,308	\$5,604 / service	\$ 47.4 M	6,777	\$6,993 / service
Meter Moves (allocation)	\$ 22.7 M	12,166	\$1,863 / meter	\$ 24.8 M	12,048	\$2,058 / meter
TOTAL	\$ 185.4 M	73.0	\$2.5 M / install mile	\$ 184.9 M	71.8	\$2.6 M / install mile

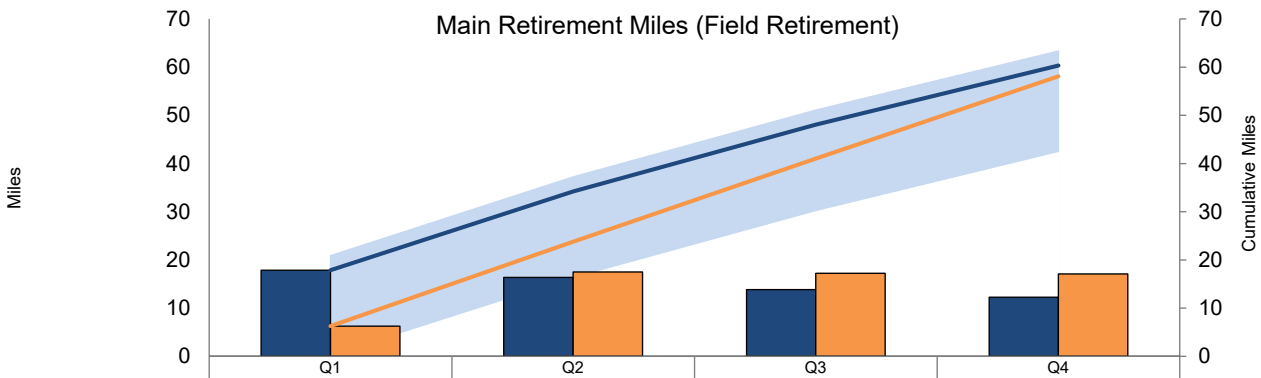
4B. Neighborhood - Quantity Graphs



Quarterly Plan	11.1	21.0	20.8	20.2
Quarterly Actual	10.2	17.8	26.1	17.7
Cumulative Plan	11.1	32.0	52.8	73.0
Cumulative Actual	10.2	27.9	54.0	71.8

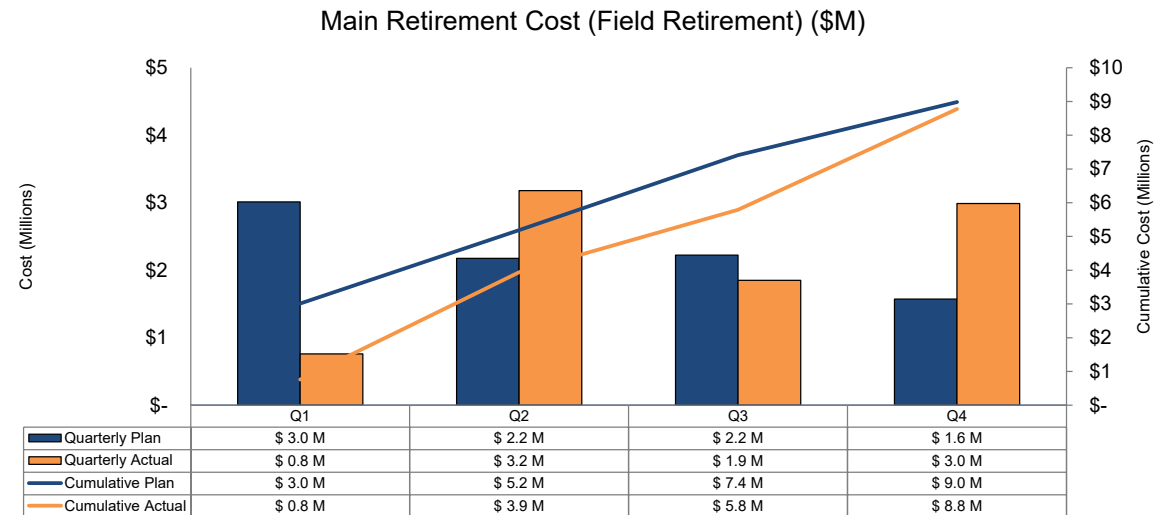
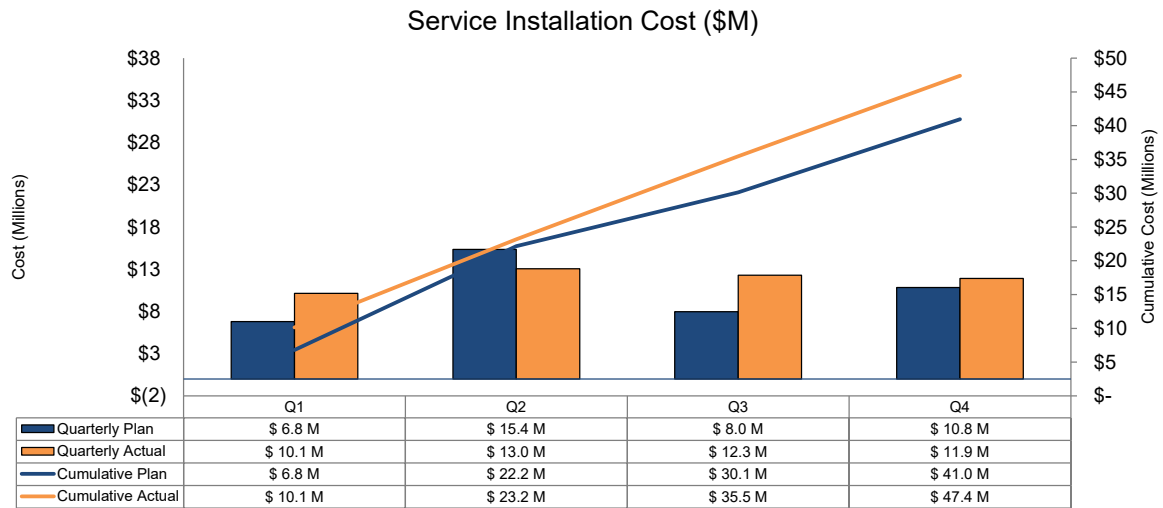
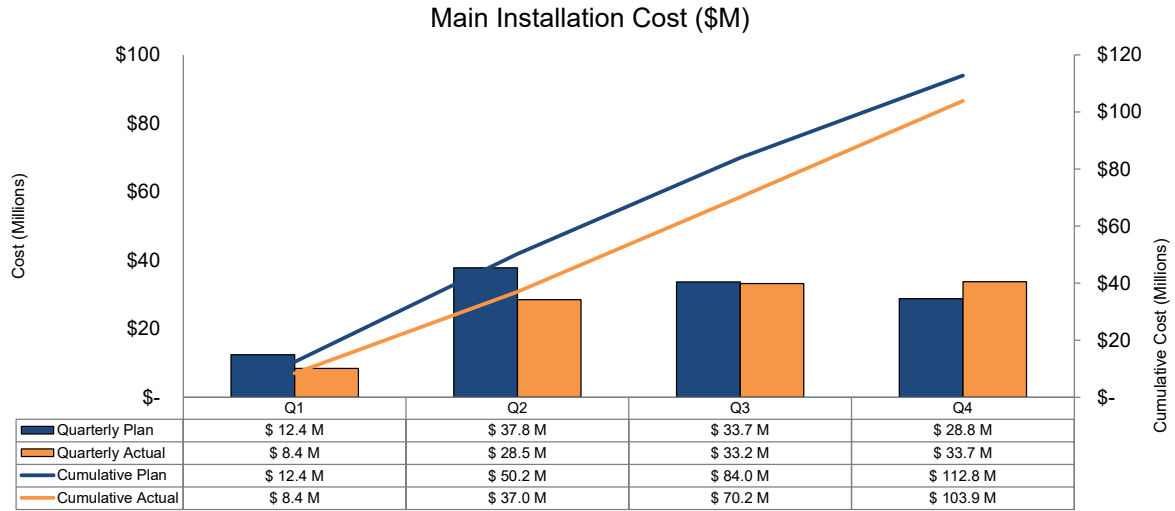


Quarterly Plan	1,452	2,124	1,404	2,328
Quarterly Actual	1,010	2,083	1,736	1,948
Cumulative Plan	1,452	3,576	4,980	7,308
Cumulative Actual	1,010	3,093	4,829	6,777



Quarterly Plan	17.9	16.4	13.9	12.3
Quarterly Actual	6.3	17.5	17.2	17.1
Cumulative Plan	17.9	34.2	48.1	60.3
Cumulative Actual	6.3	23.8	41.0	58.1

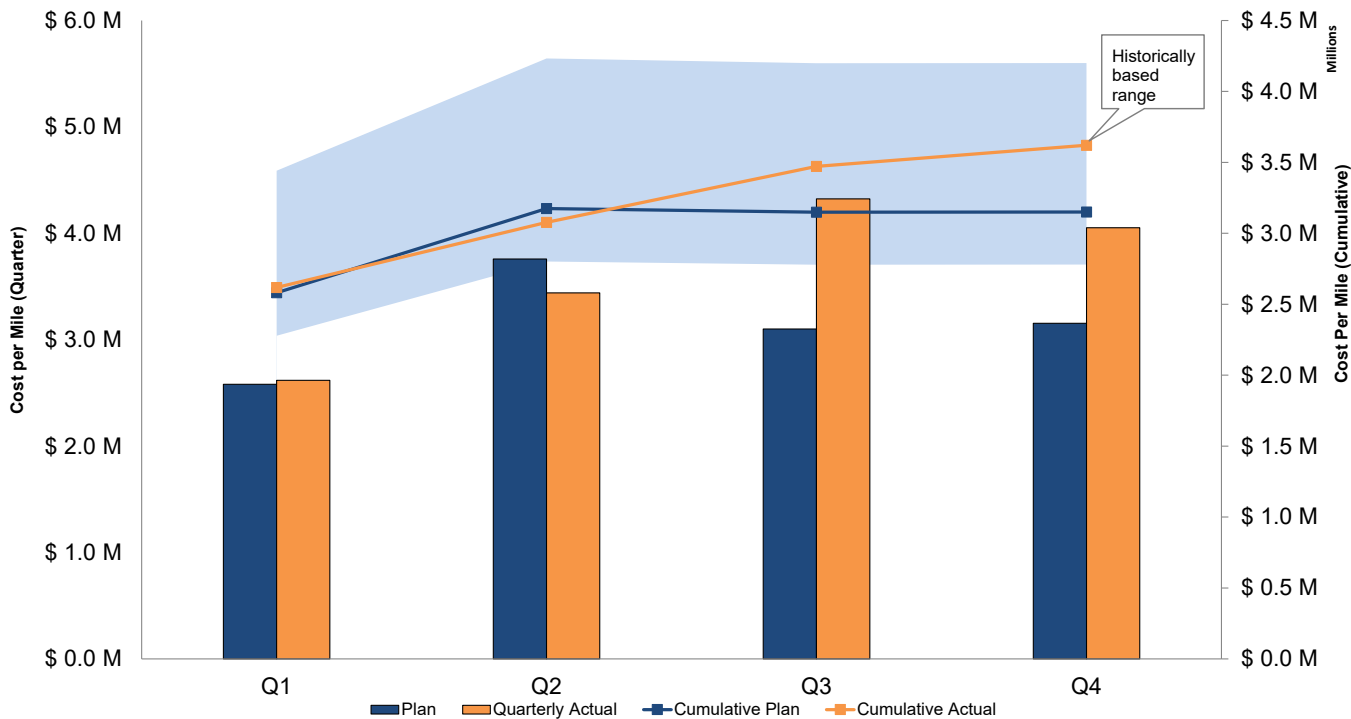
4C. Neighborhood - Cost Graphs



Public Improvement/System Improvement (PI/SI) - Projects similar to the Neighborhood Replacement Program, but other factors require the upgrade or relocation of existing vulnerable material - Peoples Gas is responding to a third party request to relocate or replace facilities due to conflicts with the third party or addressing capacity or reliability concerns.

5A. Public Improvement / System Improvement Program Performance

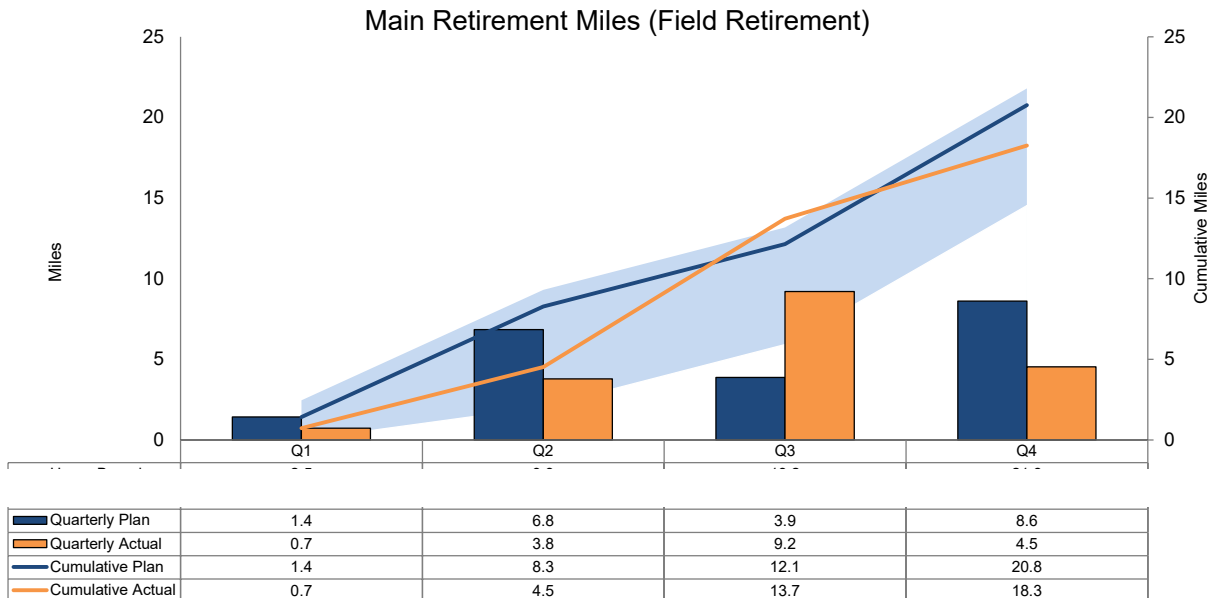
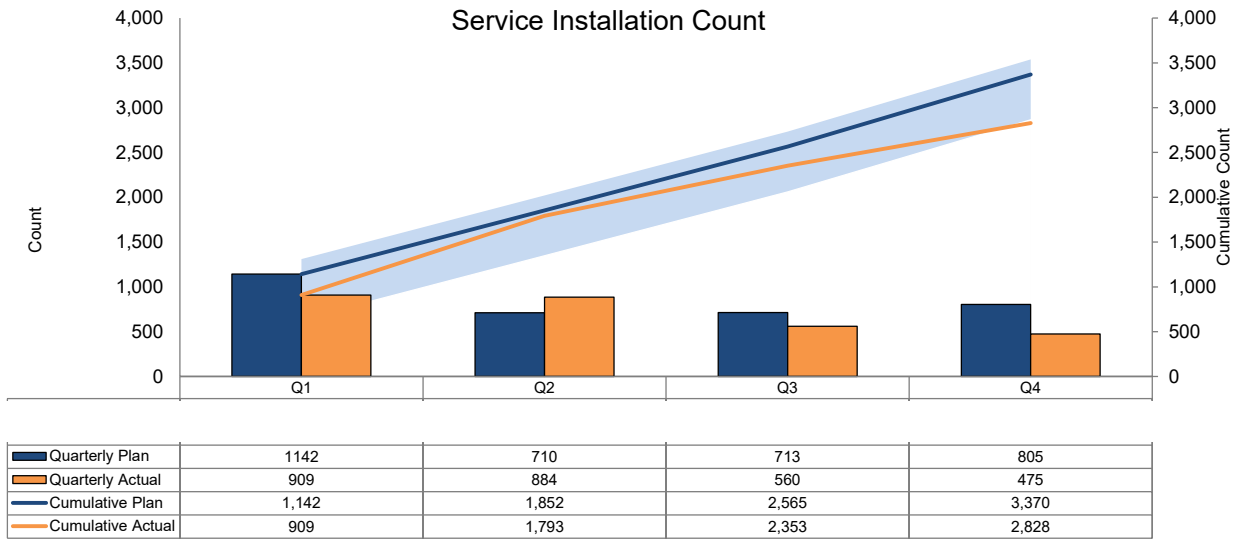
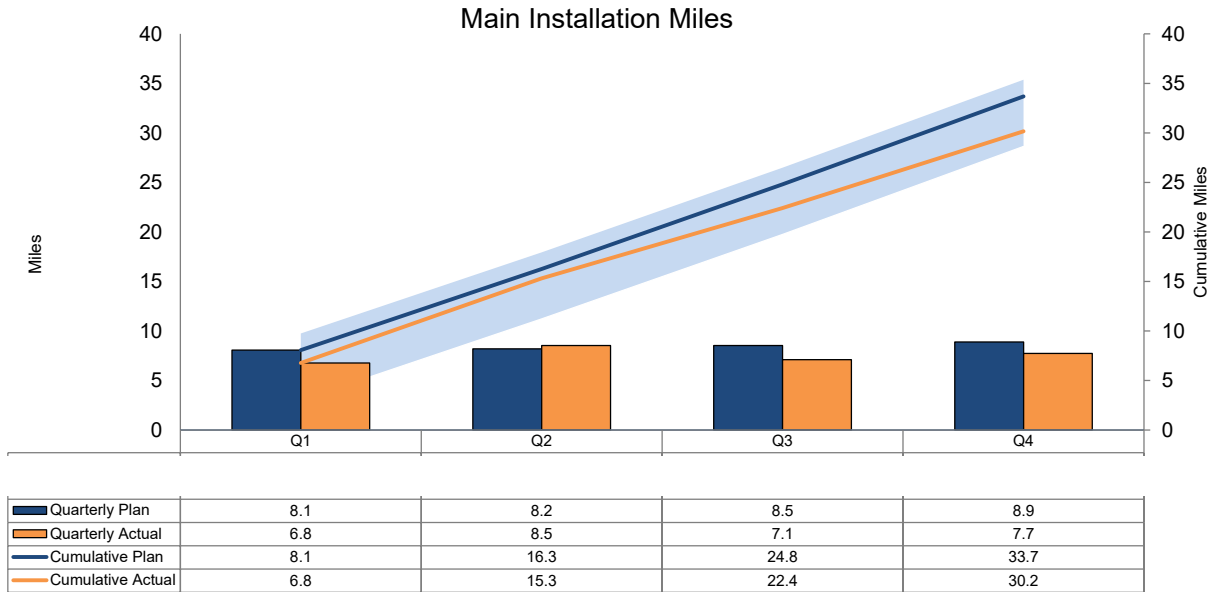
PI/SI Cost per Mile



Year-to-Date Numbers

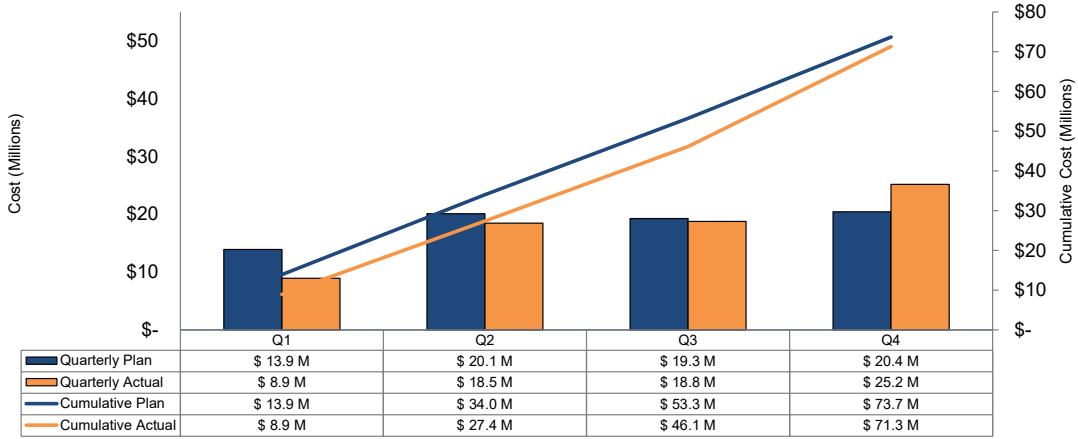
	Cumulative Planned			Cumulative Actual		
	Cost (A)	Unit (B)	Cost/Unit (C=A/B)	Cost (D)	Unit (E)	Cost/Unit (F=D/E)
Main Install	\$ 73.7 M	33.7	\$2.2 M / install mile	\$ 71.3 M	30.2	\$2.4 M / install mile
Main Retirement	\$ 6.7 M	20.8	\$0.3 M / retire mile	\$ 7.9 M	18.3	\$0.4 M / retire mile
Service Replacement	\$ 15.6 M	3,370	\$4,644 / service	\$ 18.9 M	2,828	\$6,697 / service
Meter Moves (allocation)	\$ 10.1 M	5,958	\$1,700 / meter	\$ 11.0 M	5,699	\$1,932 / meter
TOTAL	\$ 106.1 M	33.7	\$3.2 M / install mile	\$ 109.2 M	30.2	\$3.6 M / install mile

5B. Public Improvement / System Improvement - Quantity Graphs

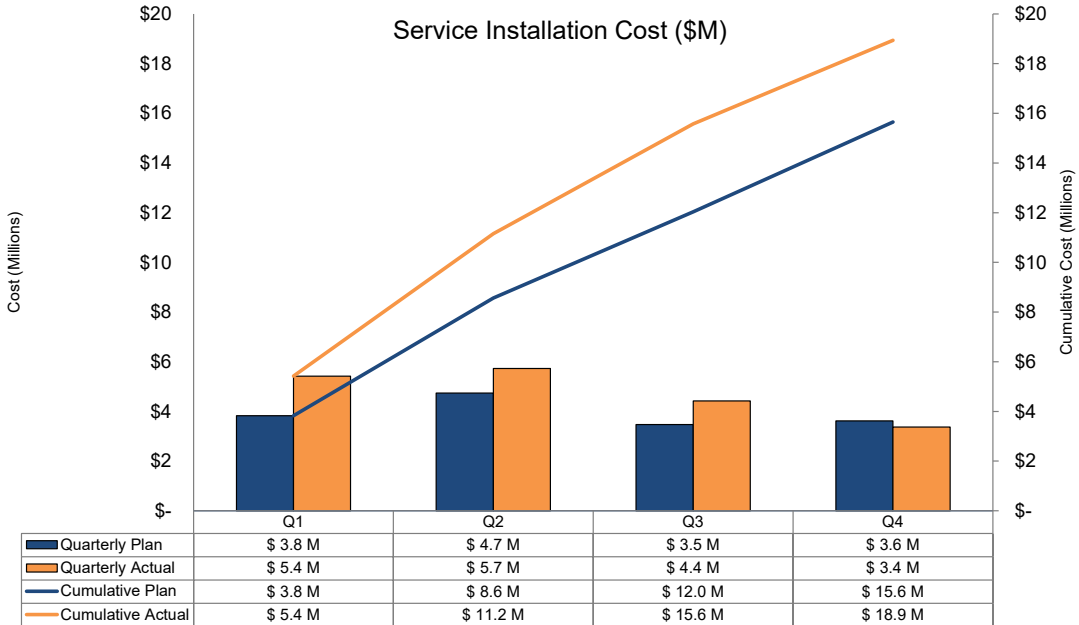


5C. Public Improvement / System Improvement - Cost Graphs

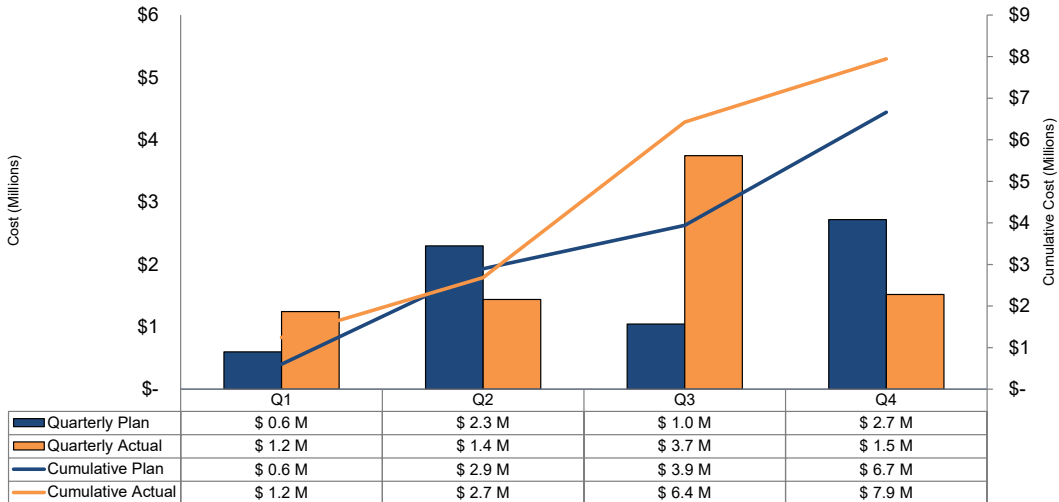
Main Installation Cost (\$M)



Service Installation Cost (\$M)

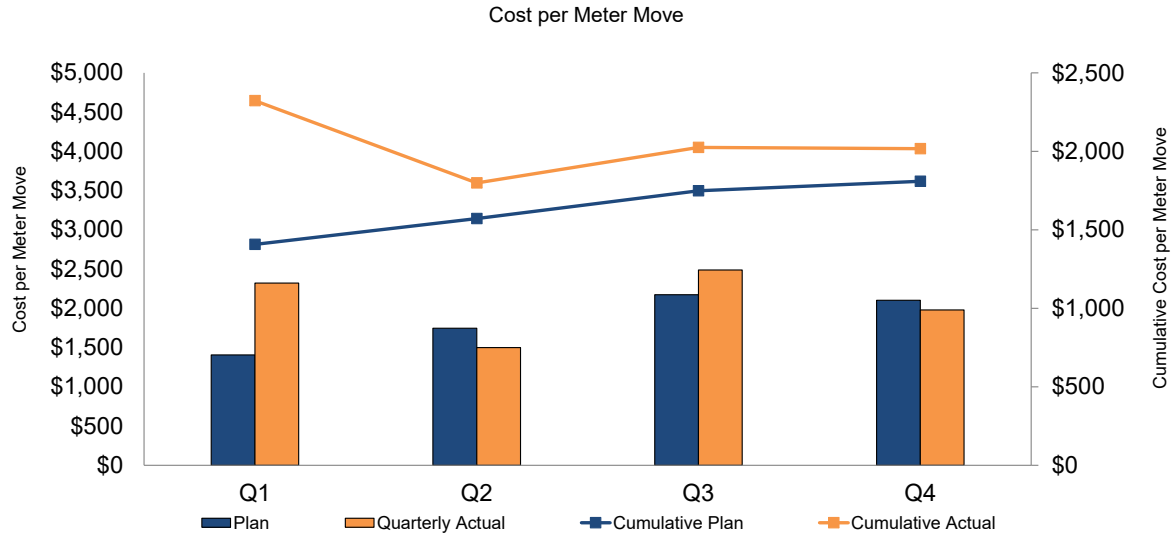


Main Retirement Cost (Field Retirement) (\$M)



Meter Moves – Costs associated with moving customer meters as part of the Safety Modernization Program.

6A. Meter Moves Program Performance

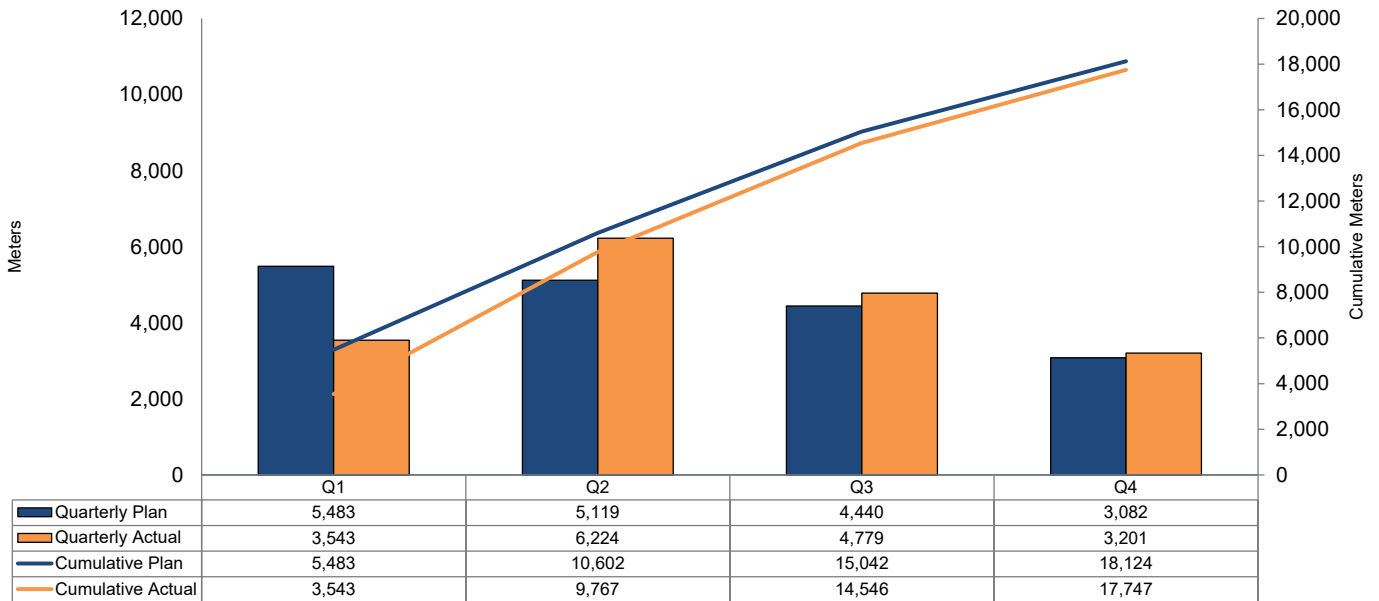


Year-to-Date Numbers

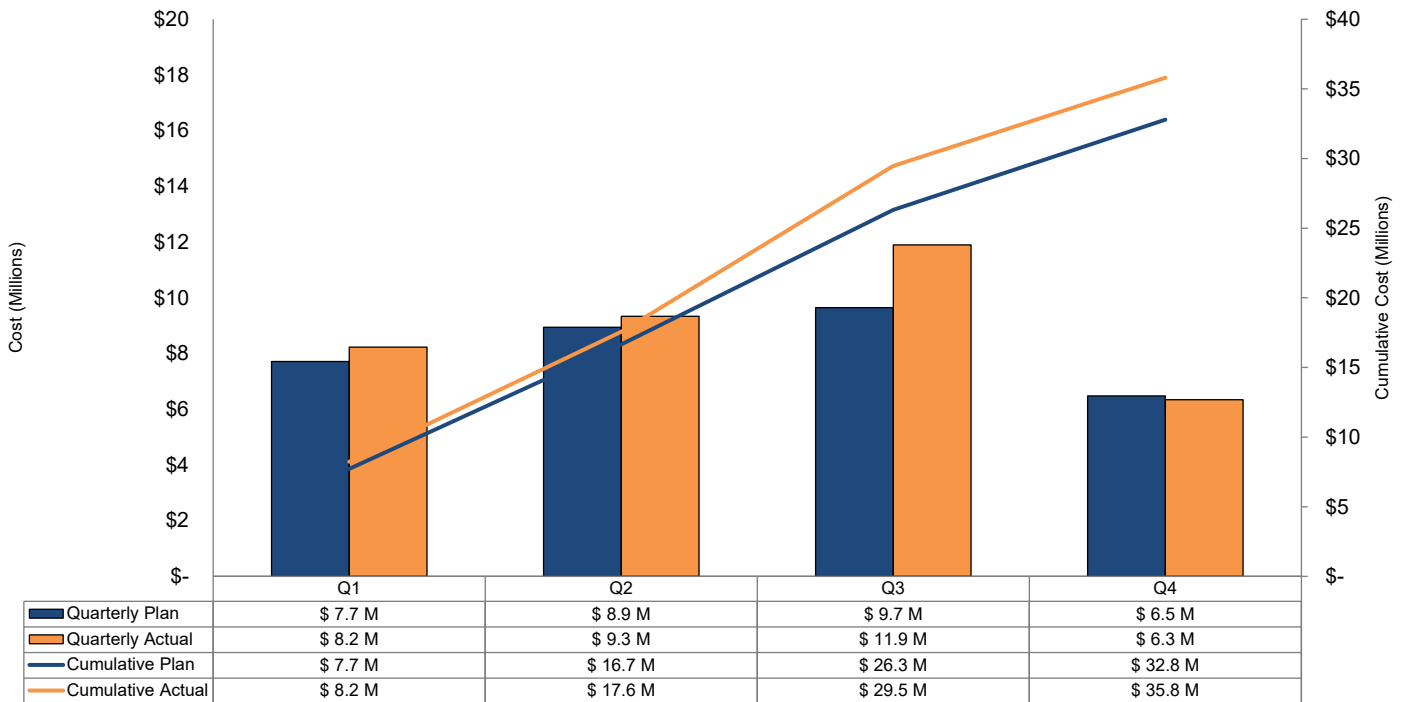
	Cumulative Planned			Cumulative Actual		
	Cost (A)	Unit (B)	Cost/Unit (C=A/B)	Cost (D)	Unit (E)	Cost/Unit (F=D/E)
Meter Moves (allocation)	\$ 32.8 M	18,124	\$1,809 / meter	\$ 35.8 M	17,747	\$2,017 / meter

6B. Meter Move Quantity and Cost

Meter Quantity



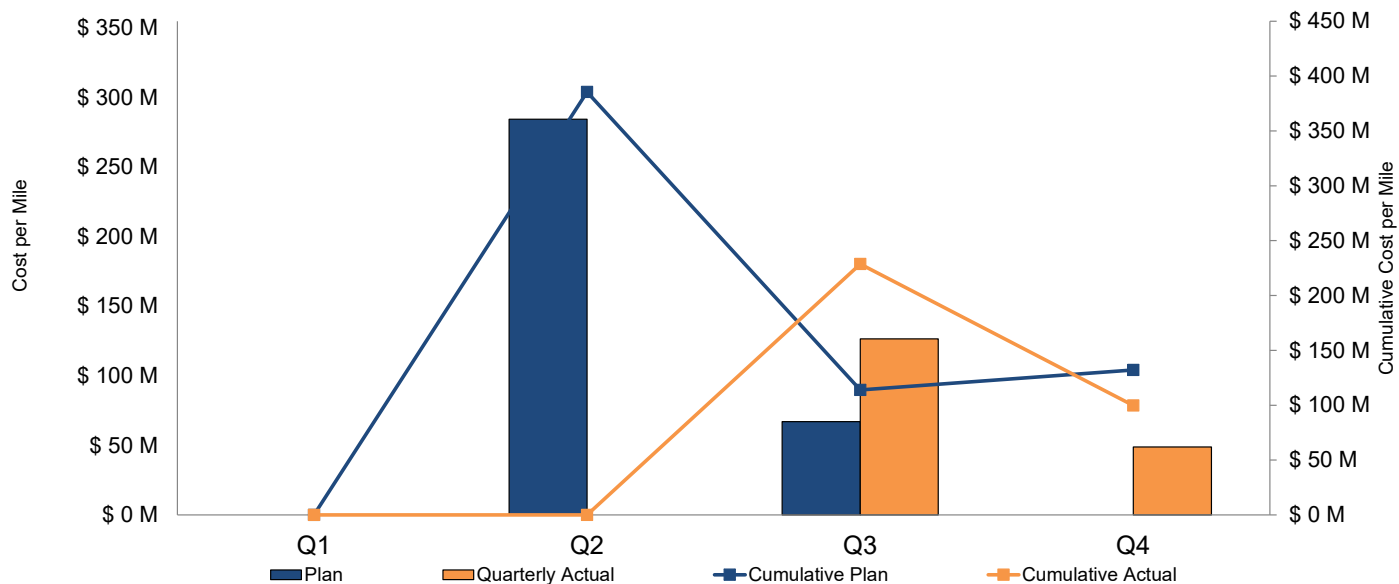
Meter Cost (\$M)



High Pressure (HP) - Projects that support upgrading the system from Low Pressure to Medium Pressure as well as projects establishing records and maximum allowable operating pressures.

7A. HP Program Performance

HP Cost per Mile



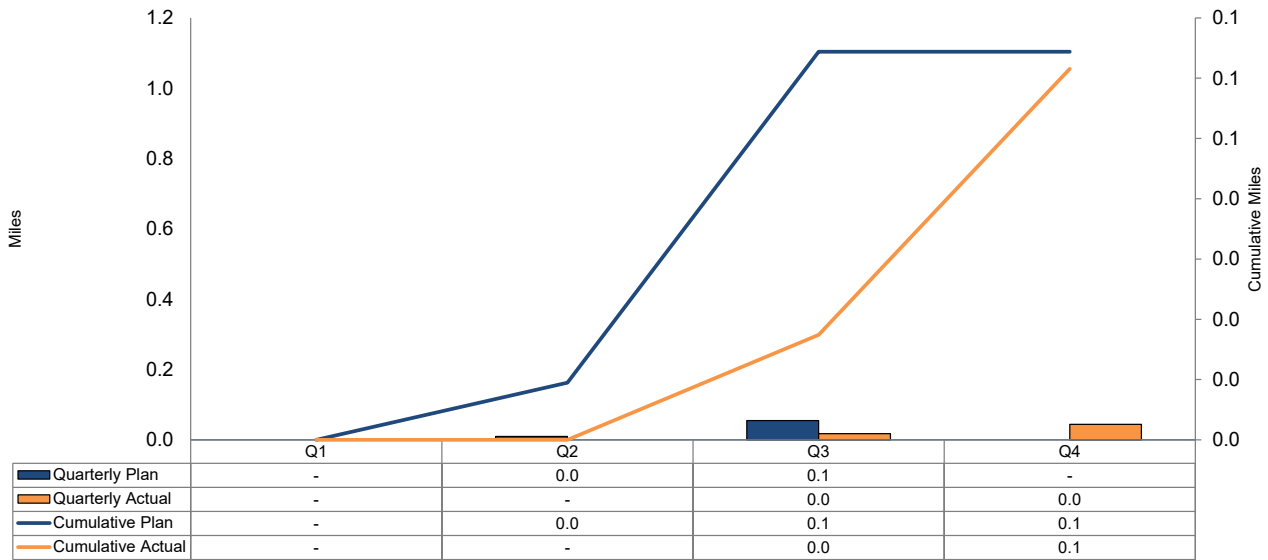
Year-to-Date Numbers

	Cumulative Planned			Cumulative Actual		
	Cost (A)	Unit (B)	Cost/Unit (C=A/B)	Cost (D)	Unit (E)	Cost/Unit (F=D/E)
Main Install	\$ 8.5 M	0.06	n/a	\$ 6.1 M	0.06	n/a

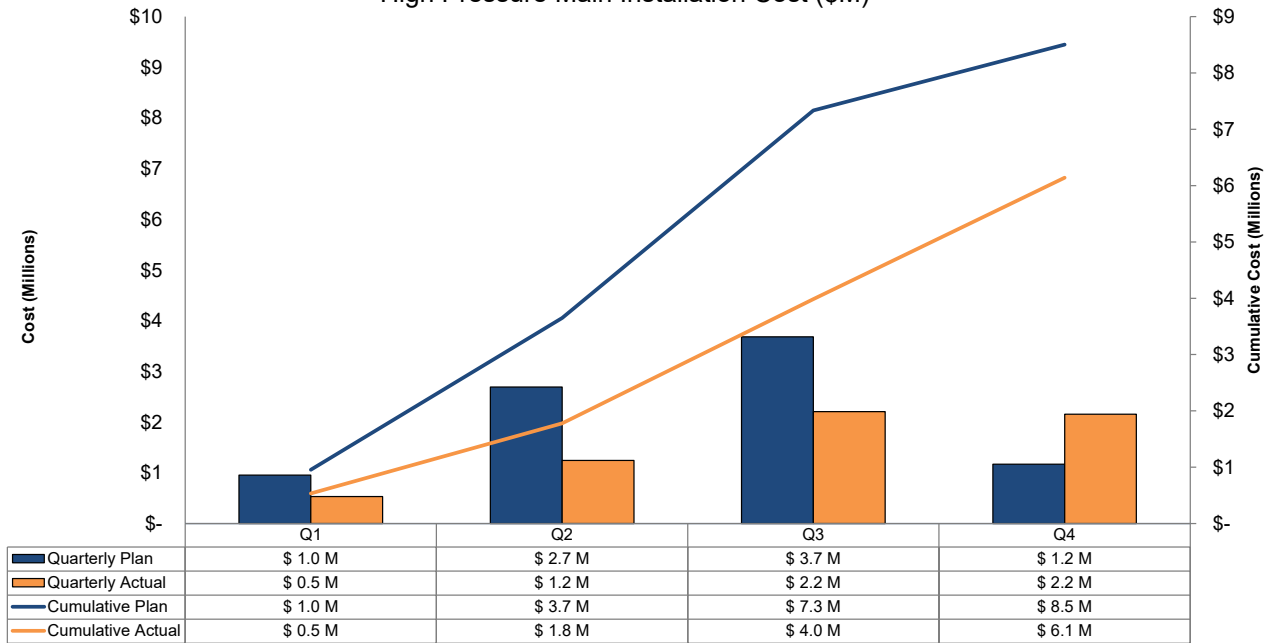
The High Pressure Program work this year involves the construction of a gate station. This gate station will have a footprint of about 25,000 square feet and includes various pieces of equipment like valves and heaters.

7B. High Pressure Main Installation

High Pressure Main Installation Quantity



High Pressure Main Installation Cost (\$M)



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8A. Disconnection Metrics

A.1. Number of Disconnections per month

	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	YTD Total
Res Heating -Low Income ⁽¹⁾	-	-	-	-	-	-	17	122	78	57	38	-	312
Res Heating -Not-Low Income ⁽¹⁾	-	-	-	44	156	496	2,316	3,580	2,659	1,958	611	-	11,820
Res Non-Heating	-	-	-	-	3	11	150	242	228	146	37	-	817
Non Residential	129	128	289	160	221	350	188	143	132	111	49	35	1,935
Total	129	128	289	204	380	857	2,671	4,087	3,097	2,272	735	35	14,884

A.2. Percentage of Disconnections per month

	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	YTD Total
Res Heating -Low Income ⁽¹⁾	-	-	-	-	-	-	0.0021%	0.0152%	0.0097%	0.0071%	0.0047%	-	0.0388%
Res Heating -Not-Low Income ⁽¹⁾	-	-	-	0.0055%	0.0194%	0.0617%	0.2882%	0.4455%	0.3309%	0.2436%	0.0760%	-	1.4708%
Res Non-Heating	-	-	-	-	0.0004%	0.0014%	0.0187%	0.0301%	0.0284%	0.0182%	0.0046%	-	0.1017%
Non-Residential	0.1640%	0.1627%	0.3673%	0.2034%	0.2809%	0.4448%	0.2389%	0.1817%	0.1678%	0.1411%	0.0623%	0.0445%	2.4593%

A.3. Number of Accounts Eligible for Disconnection⁽²⁾

	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	YTD Total
Res Heating -Low Income ⁽¹⁾	-	-	-	301	122	131	743	711	1,051	1,448	708	-	5,215
Res Heating -Not-Low Income ⁽¹⁾	-	-	-	11,967	9,203	22,780	26,196	23,035	25,097	18,059	10,140	-	146,477
Res Non-Heating	-	-	-	459	500	2,006	2,614	2,916	3,642	2,763	2,070	-	16,970
Non Residential	3,098	4,066	4,593	3,783	3,402	3,166	2,623	2,081	2,143	2,007	1,669	2,014	34,645
Total	3,098	4,066	4,593	16,510	13,227	28,083	32,176	28,743	31,933	24,277	14,587	2,014	203,307

A.4. Number of Reconnections per month

	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09	2021-10	2021-11	2021-12	YTD Total
Res Heating -Low Income ⁽¹⁾	9	5	1	3	2	2	5	20	114	280	302	137	880
Res Heating -Not-Low Income ⁽¹⁾	33	13	11	9	18	28	197	701	760	981	847	278	3,876
Res Non-Heating	2	-	2	3	-	-	3	17	20	30	22	12	111
Non Residential	174	123	138	95	94	87	92	66	67	140	226	79	1,381
Total	218	141	152	110	114	117	297	804	961	1,431	1,397	506	6,248

Notes:

⁽¹⁾Low Income is defined as accounts that received LIHEAP funding in the current program year which runs September through August.

⁽²⁾Number of Accounts Eligible for Disconnection reflects the number of disconnection notices sent each month. Summing the monthly numbers reflects the number of notices sent year-to-date, but not the number of accounts eligible during that same period. An account may receive more than one notice during a multi-month period.

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8B. Uncollectibles Metrics

B.1. Dollar Amount of Uncollectibles⁽²⁾

	2021-01	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07 ⁽³⁾	2021-08	2021-09	2021-10	2021-11	2021-12	YTD Total
S.C. 1 Heating - Low Income ⁽¹⁾	\$ 18,778.12	\$ 5,651.05	\$ 18,490.17	\$ 9,113.28	\$ (943.92)	\$ 2,701.64	\$ 617,818.57	\$ 71,169.03	\$ 85,686.59	\$ 92,520.74	\$ 71,842.82	\$ 2,117.62	\$ 994,945.71
S.C. 1 Heating - Not Low Income ⁽¹⁾	\$ (408,460.07)	\$ (355,405.74)	\$ 636,808.35	\$ (314,786.94)	\$ (348,859.06)	\$ 76,777.27	\$ 17,251,101.80	\$ 1,542,899.10	\$ 1,588,839.65	\$ 1,621,770.11	\$ 3,824,833.05	\$ 3,457,006.07	\$ 28,572,523.59
S.C. 1 Non-Heating	\$ (21,108.91)	\$ (17,474.12)	\$ (22,920.12)	\$ (28,531.06)	\$ (32,153.38)	\$ 5,259.74	\$ 1,102,449.74	\$ 100,760.37	\$ 77,315.15	\$ 78,039.80	\$ 179,019.98	\$ 158,313.54	\$ 1,578,970.73
S.C. 2	\$ 14,424.74	\$ (27,751.52)	\$ 47,600.97	\$ (34,898.33)	\$ 56,216.94	\$ 25,334.87	\$ 1,050,589.30	\$ 157,906.76	\$ 166,277.22	\$ 209,971.62	\$ 416,232.30	\$ 441,694.06	\$ 2,523,598.93
S.C. 4	\$ -	\$ -	\$ 2,703.87	\$ -	\$ -	\$ 112.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,816.52
S.C. 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ (396,366.12)	\$ (394,980.33)	\$ 682,683.24	\$ (369,103.05)	\$ (325,739.42)	\$ 110,186.17	\$ 20,021,959.41	\$ 1,872,735.26	\$ 1,918,118.61	\$ 2,002,302.27	\$ 4,491,928.15	\$ 4,059,131.29	\$ 33,672,855.48

Notes:

⁽¹⁾Low Income is defined as accounts that received LIHEAP funding in the current program year which runs September through August.

⁽²⁾Uncollectibles is defined as net write offs (write offs less recoveries); Uncollectibles are low due to the PHE moratorium on disconnections in 2020.

⁽³⁾Large Uncollectibles in July 2021 were the result of accounts that were finaled in 2020 but were not sent to a collection agency until June and July of 2021 due to a collection moratorium ordered by the ICC resulting from the economic impacts of COVID-19 on our customer base. If there had not been a hold on sending accounts to collection agencies these accounts would have been written off late 2020 or early 2021.

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8C. Bill Impact Metrics - October 2021

Line No.	Service Classification [A]	Therm Sales ⁽¹⁾ [B]	Number of Customers ⁽²⁾ [C]	Average monthly usage per service classification [D] = [B] / [C]	Base Rate Charges ⁽³⁾ [E]	Rider QIP Charges ⁽⁴⁾ [F]	Gas Charges ⁽⁵⁾ [G]	Other Rider Charges ⁽⁶⁾ [H]	Other State Charges ⁽⁷⁾ [I]	State and Municipal Taxes ⁽⁸⁾ [J]	Total [K] Sum of col. [E]-[J]
1 Sales											
2	S. C. 1 Non-Htg	422,135	95,144	4	\$ 1,630,570	\$ 500,515	\$ 314,879	\$ 41,390	\$ 53,127	\$ 221,848	\$ 2,762,329
3	S. C. 1 Heating	23,645,585	658,360	36	\$ 27,238,563	\$ 8,376,424	\$ 17,067,040	\$ 1,830,329	\$ 364,065	\$ 5,136,321	\$ 60,012,742
4	S. C. 2	11,324,964	60,069	189	6,436,527	1,960,280	8,259,139	684,650	337,449	1,743,927	19,421,972
5	S. C. 4	31,390	10	1	35,075	9,495	31,405	1,720	17	(2,266)	75,445
6	S. C. 5 / 7	-	-	-	-	-	-	-	-	-	-
7	S. C. 8	1,650	12	138	2,918	892	1,224	569	62	512	6,178
8	Total Sales	35,425,724	813,595		\$ 35,343,653	\$ 10,847,607	\$ 25,673,687	\$ 2,558,658	\$ 754,719	\$ 7,100,342	\$ 82,278,666
9 Transportation											
10	S. C. 1 Non-Htg	32,178	6,070	5	103,883	31,920	1,405	1,742	3,402	14,711	157,063
11	S. C. 1 Heating	1,283,600	32,432	40	1,358,595	418,272	110,333	68,472	18,211	277,379	2,251,263
12	S. C. 2	18,319,387	16,459	1,113	5,674,172	1,745,701	987,915	797,134	91,493	2,327,949	11,624,364
13	S. C. 4	15,802,987	165	95,776	2,372,271	729,209	216,922	501,796	4,178	773,765	4,598,141
14	S. C. 5 / 7	1,920,199	2	960,100	226,706	-	-	32,871	433	57,513	317,523
15	S. C. 8	57,799	3	19,266	7,978	2,457	711	2,003	17	6,048	19,215
16	Contract and Pool	-	-	-	125,054	26,040	95,006	-	-	16,879	262,979
17	Total Transportation	37,416,150	55,131		\$ 9,868,659	\$ 2,953,600	\$ 1,412,293	\$ 1,404,018	\$ 117,733	\$ 3,474,244	\$ 19,230,546
18 Sales and Transportation											
19	S. C. 1 Non-Htg	454,313	101,214	4	1,734,453	532,435	316,284	43,132	56,529	236,559	2,919,392
20	S. C. 1 Heating	24,929,185	690,792	36	28,597,158	8,794,696	17,177,374	1,898,801	382,276	5,413,700	62,264,005
21	S. C. 2	29,644,351	76,528	387	12,110,699	3,705,981	9,247,054	1,481,784	428,941	4,071,876	31,046,336
22	S. C. 4	15,834,377	175	90,482	2,407,346	738,705	248,327	503,516	4,194	771,498	4,673,586
23	S. C. 5 / 7	1,920,199	3	640,066	226,706	-	-	32,871	433	57,513	317,523
24	S. C. 8	59,449	15	3,963	10,896	3,349	1,936	2,572	79	6,561	25,393
25	Contract and Pool	-	-	-	125,054	26,040	95,006	-	-	16,879	262,979
26	Total Sales and Transportation	72,841,874	868,727		\$ 45,212,312	\$ 13,801,207	\$ 27,085,980	\$ 3,962,676	\$ 872,452	\$ 10,574,586	\$ 101,509,212
27	Add: Other Revenues ⁽⁹⁾										\$ (4,676,225)
28	Operating Revenues plus State and Municipalities Taxes and Other State Charges (line 26 + line 27)										\$ 96,832,987

* There may be differences due to rounding.

Notes: (1) Excludes Company Use of 404,990 therms.

(2) Number of customers at October 18, 2021.

(3) Base Rate charges in effect and include Rider UEA, Rider VBA, Rider SSC, Rider ICTA and Rider VITA.

(4) Rider QIP charges

(5) Gas charge and refund adjustments.

(6) Charges under Rider UEA-Gas Cost, Rider 11 and Rider EOA.

(7) Additional state charges under Rider 1.

(8) Additional charge for state and municipal utility taxes under Rider 1.

(9) Other revenues consist of amounts in ICC Account 487, 488, 489.3, 493 and 495.

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8C. Bill Impact Metrics - November 2021

Line No.	Service Classification [A]	Therm Sales ⁽¹⁾ [B]	Number of Customers ⁽²⁾ [C]	Average monthly usage per service classification [D] = [B] / [C]	Base Rate Charges ⁽³⁾ [E]	Rider QIP Charges ⁽⁴⁾ [F]	Gas Charges ⁽⁵⁾ [G]	Other Rider Charges ⁽⁶⁾ [H]	Other State Charges ⁽⁷⁾ [I]	State and Municipal Taxes ⁽⁸⁾ [J]	Total [K] Sum of col. [E]-[J]
1	Sales										
2	S. C. 1 Non-Htg	1,075,403	95,283	11	\$ 1,751,298	\$ 424,988	\$ 793,858	\$ 79,860	\$ 54,311	\$ 284,095	\$ 3,388,409
3	S. C. 1 Heating	73,153,150	662,911	110	\$ 37,852,152	\$ 9,225,336	\$ 53,954,754	\$ 3,941,971	\$ 372,013	\$ 10,540,143	\$ 115,886,370
4	S. C. 2	31,276,463	60,710	515	10,223,874	2,482,014	22,976,573	1,684,567	341,635	3,873,884	41,582,547
5	S. C. 4	144,670	9	2	43,270	9,595	117,778	5,706	59	17,432	193,840
6	S. C. 5 / 7	-	-	-	-	-	-	-	-	-	-
7	S. C. 8	4,496	18	250	4,271	987	3,327	834	84	900	10,403
8	Total Sales	105,654,182	818,931		\$ 49,874,864	\$ 12,142,920	\$ 77,846,290	\$ 5,712,939	\$ 768,103	\$ 14,716,454	\$ 161,061,569
9	Transportation										
10	S. C. 1 Non-Htg	52,918	6,022	9	108,916	26,454	1,731	2,190	3,486	16,510	159,287
11	S. C. 1 Heating	3,341,087	32,331	103	1,717,142	418,970	130,396	111,576	18,163	491,617	2,887,863
12	S. C. 2	42,339,333	16,451	2,574	8,887,810	2,127,945	1,156,627	1,776,376	92,218	4,484,119	18,525,094
13	S. C. 4	21,477,674	166	129,384	2,703,357	645,186	256,472	656,582	4,158	2,377,260	6,643,014
14	S. C. 5 / 7	2,287,483	2	1,143,742	149,700	-	-	47,075	433	29,863	227,071
15	S. C. 8	31,622	3	10,541	4,883	980	842	1,124	17	3,341	11,186
16	Contract and Pool	-	-	-	53,681	1,945	171,761	-	-	5,546	232,932
17	Total Transportation	69,530,117	54,975		\$ 13,625,489	\$ 3,221,479	\$ 1,717,829	\$ 2,594,922	\$ 118,474	\$ 7,408,256	\$ 28,686,448
18	Sales and Transportation										
19	S. C. 1 Non-Htg	1,128,322	101,305	11	1,860,214	451,442	795,589	82,050	57,797	300,605	3,547,696
20	S. C. 1 Heating	76,494,237	695,242	110	39,569,294	9,644,306	54,085,150	4,053,547	390,176	11,031,760	118,774,233
21	S. C. 2	73,615,796	77,161	954	19,111,684	4,609,958	24,133,200	3,460,943	433,853	8,358,003	60,107,641
22	S. C. 4	21,622,344	175	123,556	2,746,626	654,781	374,250	662,288	4,217	2,394,692	6,836,855
23	S. C. 5 / 7	2,287,483	3	762,494	149,700	-	-	47,075	433	29,863	227,071
24	S. C. 8	36,118	21	1,720	9,154	1,967	4,170	1,958	100	4,242	21,589
25	Contract and Pool	-	-	-	53,681	1,945	171,761	-	-	5,546	232,932
26	Total Sales and Transportation	175,184,299	873,907		\$ 63,500,353	\$ 15,364,399	\$ 79,564,119	\$ 8,307,860	\$ 886,577	\$ 22,124,710	\$ 189,748,017
27	Add: Other Revenues ⁽⁹⁾										\$ (15,695,739)
28	Operating Revenues plus State and Municipalities Taxes and Other State Charges (line 26 + line 27)										\$ 174,052,279

* There may be differences due to rounding.

- Notes: (1) Excludes Company Use of 430,430 therms.
 (2) Number of customers at November 16, 2021.
 (3) Base Rate charges in effect and include Rider UEA, Rider VBA, Rider SSC, Rider ICTA and Rider VITA.
 (4) Rider QIP charges
 (5) Gas charge and refund adjustments.
 (6) Charges under Rider UEA-Gas Cost, Rider 11 and Rider EOA.
 (7) Additional state charges under Rider 1.
 (8) Additional charge for state and municipal utility taxes under Rider 1.
 (9) Other revenues consist of amounts in ICC Account 487, 488, 489.3, 493 and 495.

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8C. Bill Impact Metrics - December 2021

Line No.	Service Classification [A]	Therm Sales ⁽¹⁾ [B]	Number of Customers ⁽²⁾ [C]	Average monthly usage per service classification [D] = [B] / [C]	Base Rate Charges ⁽³⁾ [E]	Rider QIP Charges ⁽⁴⁾ [F]	Gas Charges ⁽⁵⁾ [G]	Other Rider Charges ⁽⁶⁾ [H]	Other State Charges ⁽⁷⁾ [I]	State and Municipal Taxes ⁽⁸⁾ [J]	Total [K] Sum of col. [E]-[J]
1 Sales											
2	S. C. 1 Non-Htg	1,269,729	95,822	13	\$ 1,682,885	\$ 329,343	\$ 863,116	\$ 82,900	\$ 51,277	\$ 280,693	\$ 3,290,215
3	S. C. 1 Heating	95,360,110	667,988	143	\$ 41,908,320	\$ 8,295,820	\$ 65,218,175	\$ 4,429,094	\$ 359,180	\$ 12,308,400	\$ 132,518,989
4	S. C. 2	39,138,721	61,276	639	11,530,708	2,288,255	26,676,782	1,934,067	329,686	4,463,814	47,223,313
5	S. C. 4	604,444	10	10	93,666	18,042	414,350	18,315	44	59,687	604,104
6	S. C. 5 / 7	-	-	-	-	-	-	-	-	-	-
7	S. C. 8	7,520	22	342	7,060	1,431	5,162	1,358	138	1,444	16,593
8 Total Sales		136,380,524	825,118		\$ 55,222,639	\$ 10,932,892	\$ 93,177,585	\$ 6,465,734	\$ 740,325	\$ 17,114,038	\$ 183,653,213
9 Transportation											
10	S. C. 1 Non-Htg	79,883	5,982	13	101,138	19,764	1,990	2,462	3,195	17,919	146,467
11	S. C. 1 Heating	5,495,206	32,369	170	2,037,193	406,304	150,304	140,956	17,511	712,356	3,464,624
12	S. C. 2	45,048,738	16,517	2,727	8,637,926	1,679,123	1,387,135	1,745,358	90,106	4,303,982	17,843,629
13	S. C. 4	20,331,192	165	123,219	2,695,143	530,498	304,503	549,757	4,164	1,441,149	5,525,213
14	S. C. 5 / 7	2,515,019	2	1,257,509	137,749	-	-	53,067	433	25,513	216,761
15	S. C. 8	56,889	3	18,963	7,879	1,596	1,012	1,793	17	5,934	18,230
16	Contract and Pool	-	-	-	89,031	7,312	583,046	-	-	29,473	708,862
17 Total Transportation		73,526,926	55,038		\$ 13,706,058	\$ 2,644,596	\$ 2,427,989	\$ 2,493,392	\$ 115,426	\$ 6,536,326	\$ 27,923,787
18 Sales and Transportation											
19	S. C. 1 Non-Htg	1,349,612	101,804	13	1,784,023	349,107	865,106	85,362	54,472	298,612	3,436,682
20	S. C. 1 Heating	100,855,316	700,357	144	43,945,514	8,702,124	65,368,478	4,570,050	376,691	13,020,756	135,983,613
21	S. C. 2	84,187,459	77,793	1,082	20,168,634	3,967,378	28,063,917	3,679,425	419,792	8,767,796	65,066,942
22	S. C. 4	20,935,637	175	119,632	2,788,809	548,540	718,853	568,072	4,208	1,500,836	6,129,317
23	S. C. 5 / 7	2,515,019	3	838,340	137,749	-	-	53,067	433	25,513	216,761
24	S. C. 8	64,408	25	2,576	14,938	3,027	6,174	3,151	155	7,378	34,823
25	Contract and Pool	-	-	-	89,031	7,312	583,046	-	-	29,473	708,862
26 Total Sales and Transportation		209,907,450	880,157		\$ 68,928,697	\$ 13,577,488	\$ 95,605,574	\$ 8,959,126	\$ 855,751	\$ 23,650,364	\$ 211,577,000
27 Add: Other Revenues ⁽⁹⁾											\$ (12,478,932)
28 Operating Revenues plus State and Municipalities Taxes and Other State Charges (line 26 + line 27)											\$ 199,098,069

* There may be differences due to rounding.

- Notes: (1) Excludes Company Use of 333,560 therms.
 (2) Number of customers at December 16, 2021.
 (3) Base Rate charges in effect and include Rider UEA, Rider VBA, Rider SSC, Rider ICTA and Rider VITA.
 (4) Rider QIP charges
 (5) Gas charge and refund adjustments.
 (6) Charges under Rider UEA-Gas Cost, Rider 11 and Rider EOA.
 (7) Additional state charges under Rider 1.
 (8) Additional charge for state and municipal utility taxes under Rider 1.
 (9) Other revenues consist of amounts in ICC Account 487, 488, 489.3, 493 and 495.

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8C. Bill Impact Metrics

Average residential heating customer's monthly bill

Service Classification No. 1 - Residential Heating Customer

	Therms ⁽¹⁾	Base Rates ⁽²⁾	Rider QIP	Gas Charges	Other Riders ⁽³⁾	Other State Charges ⁽⁴⁾	State & Municipal Taxes ⁽⁵⁾	Total
January	207.70	\$ 79.41	\$ 11.55	\$ 59.96	\$ 7.90	\$ 0.55	\$ 18.28	\$ 177.65
February	172.42	\$ 71.88	\$ 11.61	\$ 50.69	\$ 6.87	\$ 0.55	\$ 15.95	\$ 157.55
March	133.32	\$ 63.54	\$ 12.04	\$ 42.92	\$ 5.69	\$ 0.55	\$ 13.60	\$ 138.34
April	82.44	\$ 52.07	\$ 13.00	\$ 38.19	\$ 3.58	\$ 0.55	\$ 10.93	\$ 118.32
May	36.27	\$ 42.68	\$ 13.15	\$ 19.31	\$ 2.15	\$ 0.55	\$ 7.36	\$ 85.20
June	28.33	\$ 39.45	\$ 13.28	\$ 16.35	\$ 2.28	\$ 0.55	\$ 6.68	\$ 78.59
July	20.63	\$ 37.83	\$ 13.49	\$ 12.95	\$ 2.03	\$ 0.55	\$ 6.07	\$ 72.92
August	17.21	\$ 37.12	\$ 13.51	\$ 11.23	\$ 1.92	\$ 0.55	\$ 5.78	\$ 70.11
September	22.65	\$ 38.04	\$ 13.63	\$ 14.99	\$ 2.16	\$ 0.55	\$ 6.33	\$ 75.70
October	53.11	\$ 44.46	\$ 13.66	\$ 38.54	\$ 3.50	\$ 0.55	\$ 9.67	\$ 110.38
November	115.17	\$ 57.53	\$ 13.85	\$ 85.08	\$ 6.12	\$ 0.55	\$ 16.37	\$ 179.50
December	176.33	\$ 70.41	\$ 13.91	\$ 120.15	\$ 7.90	\$ 0.55	\$ 21.99	\$ 234.91
Calendar Year	1,065.58	\$ 634.42	\$ 156.68	\$ 510.36	\$ 52.10	\$ 6.60	\$ 139.01	\$ 1,499.17

Notes:

⁽¹⁾Weather normalized therms

⁽²⁾Base Rate charges in effect and include Rider UEA, Rider VBA, Rider SSC, Rider VITA, and Rider ICTA

⁽³⁾Charges under Rider UEA-Gas Cost, Rider 11, Rider SPC, and Rider EOA

⁽⁴⁾Additional state charges and PUAC under Rider 1

⁽⁵⁾Additional charges for state and municipal utility taxes under Rider 1

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8D. Safety Modernization Program (SMP)

	D1.		D2.	S.C. No. 1 Rider QIP ⁽¹⁾	D3.
	SMP Dollars Spent	QIP Dollars Spent	SMP % of QIP		S.C. No. 1 SMP ⁽²⁾
January	\$ 9,207,156.07	\$ 9,207,156.07	100.0%	\$ 11.55	\$ 11.55
February	\$ 9,615,462.82	\$ 9,615,462.82	100.0%	\$ 11.61	\$ 11.61
March	\$ 24,874,723.91	\$ 24,874,723.91	100.0%	\$ 12.04	\$ 12.04
April	\$ 29,753,569.51	\$ 29,753,569.51	100.0%	\$ 13.00	\$ 13.00
May	\$ 27,831,265.30	\$ 27,831,265.30	100.0%	\$ 13.15	\$ 13.15
June	\$ 23,372,437.32	\$ 23,372,437.32	100.0%	\$ 13.28	\$ 13.28
July	\$ 28,572,735.81	\$ 28,572,735.81	100.0%	\$ 13.49	\$ 13.49
August	\$ 28,050,091.11	\$ 28,050,091.11	100.0%	\$ 13.51	\$ 13.51
September	\$ 31,740,803.31	\$ 31,740,803.31	100.0%	\$ 13.63	\$ 13.63
October	\$ 39,190,631.65	\$ 39,190,631.65	100.0%	\$ 13.66	\$ 13.66
November	\$ 25,330,343.34	\$ 25,330,343.34	100.0%	\$ 13.85	\$ 13.85
December	\$ 22,672,225.02	\$ 22,687,816.10	99.9%	\$ 13.91	\$ 13.90
Calendar Year	\$ 300,211,445.17	\$ 300,227,036.25	100.0%	\$ 156.68	\$ 156.67

Notes:

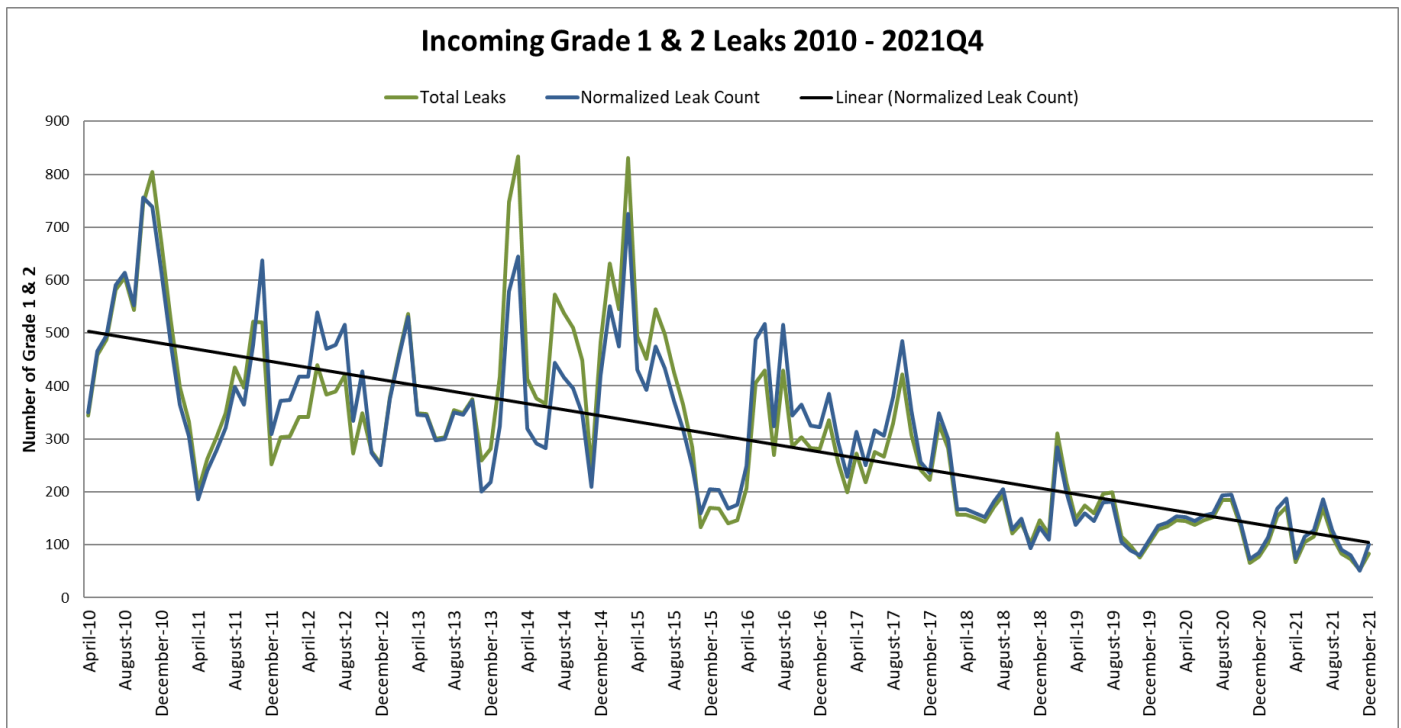
⁽¹⁾Rider QIP charges from Bill Impact Metric C4.

⁽²⁾Derived by taking D2. multiplied by the Rider QIP charges from Bill Impact Metric C4.

9. Company Overall Average Leak Rate

Company Leak Rate Overall - SMP Mileage (All LP and all CI/DI)	Leak Count	1,297
	SMP Mileage	1,611
	Leak Rate	0.80
Company Leak Rate Overall - Total Distribution Mileage	Leak Count	1,297
	Total Mileage	4,625
	Leak Rate	0.28
Company Leak Rate - Remaining Main (Using only to-be-replaced mains)	Leak Count	1,297
	LPP Mileage	1,211
	Leak Rate	1.07

Leak Rate = Leak Count / Mileage



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10. Estimated O&M Impact from SMP work

Total O&M Variance / Current Year Compared to Previous	
\$5,888,005	

Work Type	2019	2020	2021	Variance/Yr*
Leak Repair and Maintenance	\$ 32,879,270.00	\$ 31,118,789.53	\$ 25,184,128.66	\$ 5,934,660.87

Work Type	2019 Facilities or work items	2020 Facilities or work items	2021 Facilities or work items	2021 Facilities Change (negative is increase)	Savings / Increased Cost (+ is savings) 2021
Leak Survey for Services (Total number of services)	504,318	504,197	500,404	3,793	\$19,117
Leak Survey for Miles of Main (Total Miles of Gas Main)	4,631	4,672	4,647	25	\$5,542
ISI's (Total Number of Premises Under ISI Program)	611,663	596,422	587,783	8,639	\$207,548
Valve Inspections (Total number of valves)	14,028	14,818	15,233	(415)	(\$17,765)
Corrosion Service Work (Total Number of Corrosion Protected Steel Services)	31,528	28,067	30,200	(2,133)	(\$203,266)
Corrosion Main Work (Total Miles of Corrosion Family Main)	1,185	1,179	1,152	27	\$22,755
Third Party Damage (Total Number of Hits on Company Facilities)	476	355	422	(67)	(\$80,587)
Sub Total					(\$46,656)

* Over the long term, PGL expects O&M for leak repair and maintenance to decline, but any given year may not reflect this trend because actual costs can vary greatly year to year depending upon weather, types and location of leaks and changes in regulations. 4 year average costs are \$32.5M.

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APPENDIX A - NEIGHBORHOOD METRICS

Neighborhood	Construction Status	REMAINING					Start Year	End Year	Jan 2021 Risk Rank	Mean UMRI
		Install Miles	Retirement Miles	Services	Meters	Cost (\$M)				
Lincoln Square	In Progress	1	1.56	24	81	3.16	In Progress	2021		
Princeton Park	Complete	0	0	0	0	0	In Progress	2021		
North Mayfair	In Progress	0	0	0	0	0.20	In Progress	2021		
Norwood Park East	In Progress	5.03	5.82	493	810	14.70	In Progress	2022		
Avalon Park	In Progress	0	0.00	0	0	0.15	In Progress	2021		
McKinley Park	In Progress	0.00	0.00	0	0	2.70	In Progress	2022		
Kenwood	Complete	0	0	0	0	0.00	In Progress	2021		
Albany Park	In Progress	0	0	0	0	0.48	In Progress	2022		
Irving Park	In Progress	* Included in Albany Park					In Progress	2022		
Ravenswood Manor	In Progress	* Included in Albany Park					In Progress	2022		
West Elsdon	In Progress	1.24	4.05	107	308	5.52	In Progress	2023		
Schorsch Village	In Progress	11.00	8.90	1,237	1,756	24.60	In Progress	2024		
Marquette Park	In Progress	26.41	23.82	3,334	5,390	52.90	In Progress	2024		
Jeffery Manor	In Progress	27.23	18.65	2,732	2,890	48.4	In Progress	2024		
Budlong Woods	In Progress	24.24	13.86	1,895	4,644	38.58	In Progress	2023		
Old Irving Park	In Progress	12.50	11.11	1,031	1,917	21.80	In Progress	2023		
Garfield Ridge	In Progress	56.87	38.06	7,305	8,046	72.50	In Progress	2026		
Cragin	In Progress	41.28	29.80	4,960	8,819	70.20	In Progress	2026		
Rosemoor	Not Started	16.42	10.52	1,868	2,075	41.04	2022	2024	21	0.15
Chatham	Not Started	40.63	26.04	3,958	6,245	101.57	2022	2026	20	0.19
Irving Woods	Not Started	13.34	8.55	1,440	1,663	33.34	2023	2025	1	0.38
Union Ridge	Not Started	14.39	9.22	1,536	1,758	35.97	2023	2025	13	0.15
West Englewood	Not Started	47.01	30.13	4,121	4,355	117.51	2023	2026	22	0.22
South Chicago	Not Started	51.86	33.24	4,639	6,597	129.64	2023	2027	28	0.14
Old Norwood Park	Not Started	14.74	9.45	798	883	36.86	2024	2026	2	0.15
Oriole Park	Not Started	17.98	11.53	1,480	1,654	44.96	2024	2026	3	0.37
Heart of Chicago	Not Started	18.08	11.59	2,106	5,447	45.21	2024	2028	29	0.13
Calumet Heights	Not Started	38.18	24.48	3,788	4,364	95.46	2024	2029	33	0.21
Bridgeport	Not Started	17.32	11.10	830	1,639	43.29	2025	2027	35	0.08
Norwood Park West	Not Started	23.64	15.15	2,049	2,138	59.10	2025	2028	5	0.29
Wrightwood	Not Started	30.05	19.26	3,016	3,164	75.11	2025	2028	31	0.20
Magnolia Glen	Not Started	2.16	1.38	109	304	5.40	2026	2026	15	0.11
Peterson Park	Not Started	4.08	2.61	413	628	10.20	2026	2026	42	0.41
Edgebrook	Not Started	2.87	1.84	57	91	7.18	2026	2026	43	0.02
Belmont Terrace	Not Started	8.15	5.22	813	891	20.37	2026	2027	16	0.27
Hermosa	Not Started	5.25	3.37	426	764	13.13	2026	2027	19	0.06
Roscoe Village	Not Started	13.00	8.33	1,568	3,220	32.49	2026	2028	7	0.21
Edgewater	Not Started	17.68	11.33	1,053	3,722	44.19	2026	2029	10	0.16
Brainerd	Not Started	27.32	17.51	2,648	3,324	68.29	2026	2029	37	0.16
Belmont Heights	Not Started	31.93	20.47	3,901	4,474	79.83	2026	2030	11	0.29
Jefferson Park	Not Started	85.50	54.80	8,527	11,859	213.74	2026	2030	14	0.19
Gage Park	Not Started	28.61	18.34	2,986	3,969	71.51	2026	2030	32	0.15
Ashburn	Not Started	36.68	23.51	3,685	3,843	91.71	2026	2030	34	0.17
Chicago Lawn	Not Started	9.92	6.36	948	1,398	24.81	2027	2028	45	0.12
East Chatham	Not Started	11.05	7.08	742	2,849	27.63	2027	2029	47	0.14
West Woodlawn	Not Started	16.99	10.89	1,174	2,623	42.48	2027	2029	54	0.13
Park Manor	Not Started	35.47	22.74	3,115	5,668	88.68	2027	2029	56	0.15
Lawndale	Not Started	23.31	14.94	1,371	2,627	58.27	2027	2030	36	0.06
West Lawn	Not Started	48.85	31.32	5,738	6,400	122.13	2027	2030	41	0.16
East Pilsen	Not Started	2.54	1.63	115	224	6.34	2028	2028	60	0.09
West Rogers Park	Not Started	66.96	42.92	5,088	11,257	167.41	2028	2031	18	0.14
Washington Heights	Not Started	13.32	8.54	1,134	1,124	33.31	2029	2030	57	0.11
Ukrainian Village	Not Started	9.29	5.96	766	2,670	23.23	2029	2031	49	0.14
Brighton Park	Not Started	35.11	22.51	3,079	5,108	87.78	2029	2031	59	0.09
Washington Park	Not Started	14.47	9.27	445	1,868	36.17	2029	2031	62	0.12
The Bush	Not Started	6.29	4.03	509	744	15.72	2030	2031	65	0.25
Little Village	Not Started	15.95	10.23	291	509	39.89	2030	2031	74	0.05
Fernwood	Not Started	20.83	13.35	2,112	2,025	52.06	2030	2032	70	0.16

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Neighborhood	Construction Status	REMAINING					Start Year	End Year	Jan 2021 Risk Rank	Mean UMRI
		Install Miles	Retirement Miles	Services	Meters	Cost (\$M)				
Back of the Yards	Not Started	15.24	9.77	1,514	2,987	38.10	2030	2032	71	0.05
Old Town	Not Started	8.08	5.18	497	2,173	20.20	2030	2032	73	0.10
Longwood Manor	Not Started	15.02	9.63	1,662	1,657	37.55	2030	2032	76	0.16
Galewood	Not Started	28.72	18.41	2,827	3,377	71.79	2030	2033	26	0.16
Andersonville	Not Started	8.03	5.15	661	4,076	20.07	2030	2033	30	0.10
Ravenswood	Not Started	30.34	19.45	2,056	6,667	75.84	2030	2033	38	0.10
West Town	Not Started	38.81	24.88	2,689	6,948	97.02	2030	2033	61	0.09
Grand Crossing	Not Started	31.05	19.91	2,196	3,816	77.64	2030	2034	67	0.15
Roseland	Not Started	39.82	25.52	3,206	3,406	99.54	2030	2034	69	0.14
West Pullman	Not Started	48.70	31.21	4,044	4,107	121.74	2031	2033	81	0.11
Archer Heights	Not Started	22.18	14.22	1,835	2,458	55.45	2031	2034	77	0.11
Humboldt Park	Not Started	48.46	31.07	4,549	10,798	121.16	2031	2035	80	0.14
O'Hare	Not Started	0.00	0.00	0	0	0.00	2032	2032	85	0.03
Heart of Italy	Not Started	0.92	0.59	2	2	2.31	2032	2032	87	0.16
Wrightwood Neighbors	Not Started	13.83	8.87	1,181	3,734	34.58	2032	2035	40	0.15
North Austin	Not Started	19.52	12.51	1,708	2,942	48.79	2032	2035	46	0.08
Morgan Park E	Not Started	25.91	16.61	2,510	2,541	64.77	2032	2035	83	0.10
Noble Square	Not Started	10.54	6.76	993	3,459	26.35	2032	2035	95	0.09
Lake View	Not Started	60.26	38.63	5,430	16,666	150.66	2032	2036	39	0.13
Scottsdale	Not Started	39.67	25.43	4,029	4,175	99.18	2032	2036	94	0.20
Kelvin Park	Not Started	4.28	2.75	348	513	10.71	2033	2033	44	0.11
West Loop Gate	Not Started	0.47	0.30	3	66	1.18	2033	2033	102	0.06
River North	Not Started	1.67	1.07	33	139	4.18	2033	2033	105	0.03
Near North	Not Started	8.90	5.70	207	534	22.25	2033	2034	100	0.05
Arcadia Terrace	Not Started	8.78	5.63	964	2,054	21.94	2033	2035	51	0.28
Belmont Central	Not Started	39.40	25.26	4,534	6,537	98.50	2033	2036	50	0.15
Bronzeville	Not Started	23.73	15.21	683	1,846	59.32	2033	2036	89	0.06
Pilsen	Not Started	18.66	11.96	1,217	3,580	46.64	2033	2036	107	0.07
South Old Irving Park	Not Started	1.92	1.23	132	312	4.80	2034	2034	52	0.18
Cottage Grove Heights	Not Started	7.81	5.01	869	872	19.52	2034	2035	90	0.15
Marynook	Not Started	7.63	4.89	875	927	19.08	2034	2035	92	0.28
Park West	Not Started	9.16	5.87	720	2,168	22.91	2034	2036	64	0.18
East Ukrainian Village	Not Started	11.51	7.38	1,235	4,025	28.79	2034	2037	111	0.12
Logan Square	Not Started	63.29	40.57	6,061	15,137	158.21	2034	2038	63	0.09
Gresham	Not Started	63.15	40.48	5,475	7,557	157.88	2034	2038	93	0.12
Lincoln Park	Not Started	22.25	14.26	1,593	4,282	55.62	2034	2038	110	0.22
South East Ravenswood	Not Started	3.71	2.38	245	812	9.28	2035	2036	48	0.06
Near West Side	Not Started	6.16	3.95	196	417	15.39	2035	2036	114	0.03
Burnside	Not Started	14.73	9.44	1,085	1,401	36.83	2035	2037	98	0.08
Uptown	Not Started	15.01	9.62	768	4,111	37.53	2035	2038	79	0.15
Montclare	Not Started	32.65	20.93	3,244	4,504	81.62	2035	2039	88	0.12
Englewood	Not Started	71.18	45.63	5,340	6,834	177.95	2035	2039	116	0.09
Edison Park	Not Started	2.37	1.52	112	371	5.93	2036	2036	53	0.03
Ravenswood Gardens	Not Started	0.86	0.55	84	231	2.15	2036	2036	66	0.16
West Garfield Park	Not Started	2.11	1.35	0	0	5.27	2036	2036	134	0.03
Pulaski Park	Not Started	10.80	6.92	1,087	1,129	27.00	2036	2037	55	0.29
Wrigleyville	Not Started	3.57	2.29	371	1,336	8.94	2036	2037	78	0.16
Gladstone Park	Not Started	5.74	3.68	539	857	14.35	2036	2037	86	0.44
Sauganash	Not Started	25.63	16.43	2,046	2,271	64.06	2036	2039	99	0.17
South Deering	Not Started	25.86	16.58	2,139	2,418	64.66	2036	2039	108	0.07
Woodlawn	Not Started	17.55	11.25	921	2,912	43.88	2036	2039	118	0.07
East Garfield Park	Not Started	31.00	19.87	1,872	3,670	77.51	2036	2040	130	0.10
Wicker Park	Not Started	18.55	11.89	1,517	4,541	46.37	2036	2040	147	0.03
Forest Glen	Not Started	4.67	3.00	446	479	11.69	2037	2037	68	0.27
Lathrop Homes	Not Started	3.02	1.94	120	562	7.56	2037	2037	84	0.02
Hanson Park	Not Started	2.32	1.49	268	506	5.80	2037	2037	91	0.27
West De Paul	Not Started	1.66	1.06	109	296	4.14	2037	2037	97	0.03
Goose Island	Not Started	3.24	2.08	27	75	8.10	2037	2037	137	0.04
Parkview	Not Started	2.19	1.40	220	245	5.47	2037	2037	138	0.05
Ranch Triangle	Not Started	0.64	0.41	6	13	1.61	2037	2037	143	0.03
North Park	Not Started	7.90	5.06	796	1,688	19.75	2037	2038	101	0.13
Old Town Triangle	Not Started	9.05	5.80	735	1,809	22.63	2037	2038	135	0.17
Vittum Park	Not Started	7.76	4.97	899	953	19.40	2037	2038	141	0.21

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Neighborhood	Construction Status	REMAINING					Cost (\$M)	Start Year	End Year	Jan 2021 Risk Rank	Mean UMRI
		Install Miles	Retirement Miles	Services	Meters						
Bucktown	Not Started	31.82	20.40	3,377	7,991	79.56	2037	2040	139	0.04	
Chinatown	Not Started	2.64	1.69	226	702	6.60	2038	2038	96	0.13	
Schorch Forest View	Not Started	1.10	0.71	2	4	2.76	2038	2038	103	0.08	
Graceland West	Not Started	2.95	1.89	236	691	7.37	2038	2038	106	0.20	
Pill Hill	Not Started	5.63	3.61	577	598	14.06	2038	2038	122	0.38	
Sheridan Park	Not Started	5.09	3.26	317	1,955	12.73	2038	2039	145	0.13	
Buena Park	Not Started	8.23	5.27	386	2,296	20.57	2038	2040	112	0.12	
Palmer Square	Not Started	8.37	5.37	778	2,059	20.94	2038	2040	113	0.19	
Lake View East	Not Started	13.41	8.59	661	1,962	33.51	2038	2040	121	0.08	
Edgewater Beach	Not Started	10.08	6.46	480	2,836	25.20	2038	2040	125	0.10	
Big Oaks	Not Started	16.65	10.68	1,783	1,816	41.64	2038	2040	129	0.17	
Gold Coast	Not Started	12.74	8.17	645	1,555	31.86	2038	2040	165	0.06	
Portage Park	Not Started	7.36	4.72	65	6	18.41	2039	2039	128	0.02	
West Chatham	Not Started	4.32	2.77	456	574	10.81	2039	2039	136	0.09	
Lakewood - Balmoral	Not Started	2.91	1.86	247	492	7.26	2039	2039	144	0.06	
LeClaire Courts	Not Started	2.88	1.85	339	334	7.21	2039	2039	169	0.05	
Fifth City	Not Started	3.85	2.47	169	471	9.62	2039	2039	177	0.04	
Kilbourn Park	Not Started	6.10	3.91	429	809	15.26	2039	2040	117	0.13	
Hollywood Park	Not Started	4.85	3.11	538	1,110	12.14	2039	2040	120	0.11	
West Chesterfield	Not Started	8.66	5.55	918	937	21.64	2039	2040	123	0.12	
South Loop	Not Started	9.71	6.22	142	660	24.27	2039	2040	132	0.04	
North Center	Not Started	8.94	5.73	624	1,432	22.34	2039	2040	133	0.08	
Belmont Gardens	Not Started	4.54	2.91	316	710	11.35	2039	2040	146	0.05	
Dunning	Not Started	9.03	5.79	1,162	1,384	22.59	2039	2040	149	0.03	
Margate Park	Not Started	3.51	2.25	178	799	8.78	2039	2040	160	0.08	
Avondale	Not Started	9.24	5.92	553	1,222	23.09	2039	2040	168	0.02	
Rogers Park	Not Started	1.83	1.17	22	60	4.57	2040	2040	109	0.01	
Sheffield Neighbors	Not Started	1.23	0.79	29	38	3.07	2040	2040	115	0.03	
Dearborn Homes	Not Started	0.64	0.41	0	0	1.61	2040	2040	124	0.12	
Edgewater Glen	Not Started	2.08	1.33	158	395	5.20	2040	2040	126	0.13	
Hyde Park	Not Started	1.25	0.80	15	47	3.13	2040	2040	131	0.02	
Winneconna Parkway	Not Started	1.48	0.95	60	115	3.70	2040	2040	148	0.14	
South Austin	Not Started	3.28	2.10	37	19	8.21	2040	2040	150	0.01	
Lake Meadows	Not Started	0.76	0.49	1	1	1.90	2040	2040	152	0.05	
Beverly	Not Started	1.11	0.71	0	0	2.79	2040	2040	153	0.00	
Prairie Shores	Not Started	0.42	0.27	4	1	1.04	2040	2040	154	0.04	
University Village / Litt	Not Started	2.07	1.33	5	1	5.17	2040	2040	156	0.02	
The Gap	Not Started	1.00	0.64	2	2	2.51	2040	2040	157	0.04	
Lithuanian Plaza	Not Started	1.36	0.87	177	263	3.39	2040	2040	158	0.10	
Ickes Praire Homes	Not Started	0.86	0.55	2	7	2.16	2040	2040	159	0.03	
Ida B. Wells / Darrow	Not Started	0.82	0.52	0	0	2.05	2040	2040	161	0.03	
Illinois Medical District	Not Started	0.32	0.20	7	11	0.79	2040	2040	164	0.02	
East Beverly	Not Started	0.95	0.61	0	0	2.38	2040	2040	166	0.01	
Beverly View	Not Started	2.85	1.83	245	245	7.12	2040	2040	170	0.12	
London Town	Not Started	0.48	0.31	0	0	1.19	2040	2040	172	0.01	
East Hyde Park	Not Started	0.02	0.02	0	0	0.06	2040	2040	173	0.01	
Clearing (W)	Not Started	0.47	0.30	0	0	1.17	2040	2040	174	0.01	
South Commons	Not Started	1.38	0.89	80	108	3.46	2040	2040	178	0.01	
Trumbull Park	Not Started	0.01	0.00	0	0	0.02	2040	2040	179	0.00	
The Loop	Not Started	4.54	2.91	72	121	11.34	2040	2040	180	0.01	
The Villa	Not Started	0.61	0.39	0	0	1.54	2040	2040	181	0.03	
North Kenwood	Not Started	0.23	0.14	4	18	0.56	2040	2040	182	0.02	
Prairie District	Not Started	0.94	0.60	9	42	2.35	2040	2040	183	0.03	
Printers Row	Not Started	0.79	0.50	18	91	1.97	2040	2040	184	0.03	
Dearborn Park	Not Started	1.69	1.08	122	204	4.23	2040	2040	187	0.01	
East Side	Not Started	0.10	0.06	1	1	0.25	2040	2040	188	0.02	
Magnificent Mile	Not Started	0.39	0.25	1	3	0.98	2040	2040	189	0.03	
Parkway Gardens	Not Started	0.16	0.10	0	0	0.41	2040	2040	226	0.00	
Homan Square	Not Started	0.00	0.00	0	0	0.00	2043	2043	197	0.02	
Horner Park	Not Started	0.00	0.00	0	0	0.00	2043	2043	204	0.01	
Streeterville	Not Started	0.00	0.00	0	0	0.00	2043	2043	206	0.01	
Douglas Park	Not Started	0.00	0.00	0	0	0.00	2043	2043	207	0.01	
West Beverly	Not Started	0.00	0.00	0	0	0.00	2043	2043	220	0.00	

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Neighborhood	Construction Status	REMAINING				Cost (\$M)	Start Year	End Year	Jan 2021 Risk Rank	Mean UMRI
		Install Miles	Retirement Miles	Services	Meters					
Stony Island Park	Complete									
West Morgan Park	Complete									
South Edgebrook	Complete									
Oakland	Complete									
Mount Greenwood	Complete									
Altgeld Gardens	Complete									
Mayfair	Complete									
The Island	Complete									
West Humboldt Park	Complete									
Hegewisch	Complete									
Stateway Gardens	Complete									
Ford City	Complete									
South Shore	Complete									
Bowmanville	Complete									
Sleepy Hollow	Complete									
Tri-Taylor	Complete									
Marycrest	Complete									
Beverly Woods	Complete									
Cabrini Green	Complete									
Canaryville	Complete									
Mount Greenwood He	Complete									
Jackson Park Highlan	Complete									
Riverdale	Complete									
Fulton River District	Complete									
River West	Complete									
Wentworth Gardens	Complete									
Fuller Park	Complete									
Golden Gate	Complete									
Harbour Point Estates	Complete									
Pullman	Complete									
Near East Side	Complete									
Chrysler Village	Complete									
Kennedy Park	Complete									
The Robert Taylor Ho	Complete									
Tally's Corner	Complete									
Clearing (E)	Complete									
Wildwood	Complete									
Eden Green	Complete									
Brynford Park	Complete									
Greektown	Complete									
Groveland Park	Complete									
Old Edgebrook	Complete									
River's Edge	Complete									
Sauganash Woods	Complete									
Morgan Park W	Complete									

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APPENDIX B - NEIGHBORHOOD LEAK RATES & 2 YEAR AVERAGE

	NEIGHBORHOOD	2021 LEAK RATE	2021 NORMALIZED RATE	NORMALIZED LEAK RATE (2 YR AVG)
1	Albany Park	0.00	0.00	6.33
2	Altgeld Gardens	0.00	0.00	0.00
3	Andersonville	2.35	2.58	3.21
4	Arcadia Terrace	1.16	1.28	2.28
5	Archer Heights	0.64	0.70	1.16
6	Ashburn	0.59	0.65	0.54
7	Avalon Park	1.54	1.69	1.34
8	Avondale	1.76	1.94	1.12
9	Back of the Yards	1.97	2.16	3.08
10	Belmont Central	1.48	1.62	1.18
11	Belmont Gardens	2.92	3.20	2.87
12	Belmont Heights	0.76	0.84	0.68
13	Belmont Terrace	0.19	0.21	0.51
14	Beverly	0.00	0.00	0.88
15	Beverly View	0.00	0.00	0.00
16	Beverly Woods	0.00	0.00	0.00
17	Big Oaks	0.35	0.39	0.26
18	Bowmanville	0.00	0.00	0.00
19	Brainerd	0.87	0.96	0.74
20	Bridgeport	1.01	1.11	1.78
21	Brighton Park	0.58	0.64	0.88
22	Bronzeville	0.68	0.74	0.72
23	Brynford Park	0.00	0.00	0.00
24	Bucktown	2.43	2.67	3.01
25	Budlong Woods	0.36	0.40	0.71
26	Buena Park	2.07	2.27	2.41
27	Burnside	0.19	0.20	0.20
28	Cabrini Green	0.00	0.00	0.00
29	Calumet Heights	0.52	0.58	0.54
30	Canaryville	0.00	0.00	0.00
31	Chatham	0.72	0.79	0.68
32	Chicago Lawn	0.42	0.46	0.89
33	Chinatown	0.63	0.69	0.34
34	Chrysler Village	0.00	0.00	0.00
35	Clearing (E)	0.00	0.00	0.00
36	Clearing (W)	10.00	10.98	16.04
37	Cottage Grove Heights	0.00	0.00	0.26
38	Cragin	1.72	1.89	1.49
39	Dearborn Homes	0.00	0.00	0.00
40	Dearborn Park	0.00	0.00	0.00
41	Douglas Park	0.00	0.00	0.00
42	Dunning	2.61	2.87	2.81
43	East Beverly	1.67	1.83	0.92
44	East Chatham	0.54	0.59	0.67
45	East Garfield Park	1.38	1.52	1.96
46	East Hyde Park	0.00	0.00	0.00
47	East Pilsen	5.83	6.41	6.28
48	East Side	0.00	0.00	0.00
49	East Ukrainian Village	1.30	1.43	1.63
50	Eden Green	0.00	0.00	0.00
51	Edgebrook	0.59	0.65	2.08
52	Edgewater	1.56	1.71	1.70
53	Edgewater Beach	1.49	1.64	0.93
54	Edgewater Glen	0.77	0.84	1.23
55	Edison Park	7.50	8.24	5.88
56	Englewood	1.30	1.43	1.10
57	Fernwood	0.40	0.44	0.81
58	Fifth City	5.00	5.49	4.25
59	Ford City	0.00	0.00	0.00
60	Forest Glen	1.54	1.69	1.45
61	Fuller Park	0.00	0.00	0.00
62	Fulton River District	0.00	0.00	0.00
63	Gage Park	0.65	0.71	0.69
64	Galewood	0.08	0.09	0.45
65	Garfield Ridge	0.34	0.38	0.70
66	Gladstone Park	1.60	1.76	1.09
67	Gold Coast	1.96	2.15	2.01
68	Golden Gate	0.00	0.00	0.00

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	NEIGHBORHOOD	2021 LEAK RATE	2021 NORMALIZED RATE	NORMALIZED LEAK RATE (2 YR AVG)
69	Goose Island	0.56	0.61	2.65
70	Graceland West	1.18	1.29	1.58
71	Grand Crossing	0.71	0.78	0.80
72	Greektown	0.00	0.00	0.00
73	Gresham	0.70	0.76	0.63
74	Groveland Park	0.00	0.00	0.00
75	Hanson Park	1.11	1.22	0.61
76	Harbour Point Estates	0.00	0.00	0.00
77	Heart of Chicago	1.22	1.34	3.13
78	Heart of Italy	1.67	1.83	3.55
79	Hegewisch	0.00	0.00	0.00
80	Hermosa	3.24	3.56	2.21
81	Hollywood Park	1.54	1.69	2.02
82	Homan Square	0.00	0.00	0.00
83	Homer Park	0.00	0.00	0.00
84	Humboldt Park	2.09	2.30	2.26
85	Hyde Park	4.29	4.71	4.33
86	Ickes Prairie Homes	0.00	0.00	0.00
87	Ida B. Wells / Darrow Home	0.00	0.00	0.00
88	Illinois Medical District	5.00	5.49	2.75
89	Irving Park	0.00	0.00	5.27
90	Irving Woods	1.75	1.92	1.35
91	Jackson Park Highlands	0.00	0.00	0.00
92	Jefferson Park	0.95	1.04	0.95
93	Jeffery Manor	0.34	0.37	0.36
94	Kelvin Park	0.56	0.61	0.89
95	Kennedy Park	0.00	0.00	0.00
96	Kenwood	2.31	2.53	2.63
97	Kilbourn Park	2.67	2.93	2.17
98	Lake Meadows	0.00	0.00	0.00
99	Lake View	1.44	1.58	2.07
100	Lake View East	1.34	1.48	1.76
101	Lakewood - Balmoral	0.00	0.00	1.05
102	Lathrop Homes	0.67	0.73	1.42
103	Lawndale	3.08	3.38	3.55
104	LeClaire Courts	0.00	0.00	0.33
105	Lincoln Park	1.30	1.42	1.44
106	Lincoln Square	2.86	3.14	3.15
107	Lithuanian Plaza	2.50	2.75	1.37
108	Little Village	1.98	2.17	2.20
109	Logan Square	1.73	1.90	1.76
110	London Town	0.00	0.00	0.00
111	Longwood Manor	0.42	0.46	0.62
112	Magnificent Mile	0.00	0.00	2.64
113	Magnolia Glen	0.56	0.61	0.31
114	Margate Park	0.00	0.00	1.17
115	Marquette Park	0.83	0.91	1.09
116	Marycrest	0.00	0.00	0.00
117	Marynook	0.65	0.72	1.02
118	Mayfair	0.00	0.00	16.87
119	McKinley Park	3.68	4.05	3.63
120	Montclare	1.35	1.48	1.26
121	Morgan Park E	0.65	0.72	0.63
122	Morgan Park W	0.00	0.00	0.00
123	Mount Greenwood	0.00	0.00	0.00
124	Mount Greenwood Heights	0.00	0.00	0.00
125	Near East Side	0.00	0.00	0.00
126	Near North	2.34	2.57	5.88
127	Near West Side	2.50	2.75	2.69
128	Noble Square	4.74	5.20	4.45
129	North Austin	2.09	2.30	1.92
130	North Center	1.54	1.69	2.71
131	North Kenwood	0.00	0.00	5.27
132	North Mayfair	20.00	21.97	12.25
133	North Park	1.67	1.83	1.42
134	Norwood Park East	1.88	2.07	1.87
135	Norwood Park West	0.71	0.78	0.95
136	O'Hare	5.26	5.78	5.40
137	Oakland	0.00	0.00	0.00
138	Old Edgebrook	0.00	0.00	0.00
139	Old Irving Park	2.19	2.40	2.02

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APPENDIX B - NEIGHBORHOOD LEAK RATES & 2 YEAR AVERAGE

	NEIGHBORHOOD	2021 LEAK RATE	2021 NORMALIZED RATE	NORMALIZED LEAK RATE (2 YR AVG)
140	Old Norwood Park	0.87	0.96	0.65
141	Old Town	2.11	2.31	3.55
142	Old Town Triangle	1.05	1.16	1.55
143	Oriole Park	0.40	0.44	0.53
144	Palmer Square	2.07	2.27	1.84
145	Park Manor	1.02	1.12	1.15
146	Park West	0.26	0.28	0.28
147	Parkview	0.00	0.00	0.00
148	Parkway Gardens	0.00	0.00	0.00
149	Peterson Park	0.45	0.50	1.45
150	Pill Hill	0.69	0.76	0.56
151	Pilsen	0.73	0.80	1.84
152	Portage Park	0.32	0.35	1.03
153	Prairie District	0.00	0.00	0.00
154	Prairie Shores	0.00	0.00	0.00
155	Princeton Park	0.00	0.00	0.29
156	Printers Row	0.00	0.00	0.00
157	Pulaski Park	0.16	0.17	0.83
158	Pullman	0.00	0.00	0.00
159	Ranch Triangle	5.00	5.49	13.29
160	Ravenswood	0.97	1.07	1.49
161	Ravenswood Gardens	0.00	0.00	0.00
162	Ravenswood Manor	0.00	0.00	0.00
163	River North	6.25	6.87	10.02
164	River West	0.00	0.00	0.00
165	River's Edge	0.00	0.00	0.00
166	Riverdale	0.00	0.00	0.00
167	Rogers Park	5.00	5.49	3.50
168	Roscoe Village	1.62	1.78	2.13
169	Roseland	1.23	1.35	1.09
170	Rosemoor	0.82	0.91	1.16
171	Sauganash	0.43	0.47	0.60
172	Sauganash Woods	0.00	0.00	0.00
173	Schorsch Forest View	0.00	0.00	0.00
174	Schorsch Village	1.56	1.72	1.19
175	Scottsdale	0.21	0.23	0.20
176	Sheffield Neighbors	5.00	5.49	4.72
177	Sheridan Park	2.11	2.31	3.65
178	Sleepy Hollow	0.00	0.00	0.00
179	South Austin	0.00	0.00	2.77
180	South Chicago	0.89	0.98	0.77
181	South Commons	0.00	0.00	2.11
182	South Deering	0.42	0.47	0.32
183	South East Ravenswood	0.71	0.78	1.52
184	South Edgebrook	0.00	0.00	0.00
185	South Loop	3.13	3.43	4.19
186	South Old Irving Park	1.11	1.22	2.95
187	South Shore	0.00	0.00	2.43
188	Stateway Gardens	0.00	0.00	0.00
189	Stony Island Park	0.26	0.28	0.27
190	Streeterville	0.00	0.00	0.00
191	Tally's Corner	0.00	0.00	0.00
192	The Bush	1.32	1.45	0.85
193	The Gap	0.00	0.00	0.00
194	The Island	0.00	0.00	0.00
195	The Loop	6.15	6.76	6.62
196	The Robert Taylor Homes	0.00	0.00	0.00
197	The Villa	0.00	0.00	0.00
198	Tri-Taylor	0.00	0.00	0.00
199	Trumbull Park	0.00	0.00	0.00
200	Ukrainian Village	2.50	2.75	1.58
201	Union Ridge	0.95	1.05	0.65
202	University Village / Little Ita	1.54	1.69	0.84
203	Uptown	1.10	1.21	1.41
204	Vittum Park	0.67	0.73	0.72
205	Washington Heights	0.42	0.46	0.45
206	Washington Park	0.15	0.17	0.24
207	Wentworth Gardens	0.00	0.00	0.00
208	West Beverly	0.00	0.00	0.00
209	West Chatham	1.00	1.10	0.81
210	West Chesterfield	0.47	0.51	0.62

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	NEIGHBORHOOD	2021 LEAK RATE	2021 NORMALIZED RATE	NORMALIZED LEAK RATE (2 YR AVG)
211	West De Paul	2.00	2.20	1.10
212	West Elsdon	0.89	0.98	1.30
213	West Englewood	0.93	1.03	1.05
214	West Garfield Park	0.77	0.84	4.07
215	West Humboldt Park	0.00	0.00	0.00
216	West Lawn	0.37	0.40	0.58
217	West Loop Gate	33.33	36.61	23.58
218	West Morgan Park	0.00	0.00	0.00
219	West Pullman	1.03	1.13	0.97
220	West Rogers Park	1.36	1.50	1.74
221	West Town	1.47	1.61	1.95
222	West Woodlawn	0.00	0.00	1.12
223	Wicker Park	1.29	1.42	1.26
224	Wildwood	0.00	0.00	0.00
225	Winneconna Parkway	0.00	0.00	0.75
226	Woodlawn	0.16	0.17	0.25
227	Wrightwood	0.44	0.48	0.56
228	Wrightwood Neighbors	1.25	1.37	1.20
229	Wrigleyville	0.87	0.96	2.31

APPENDIX C - PI/SI METRICS

Project Name	Shop District	Construction Status	Install Miles	Retirement Miles	Services	Meters	Cost (\$)	*Meets UMRI Threshold?
SEWER 7379A - 91ST & HALSTED	South	Completed - Q4	0.09	0.07	0	1	\$0.58M	NO
SEWER 7342 - MAGNOLIA & DEVON	North	Completed - Q4	0.84	0.19	105	349	\$1.52M	NO
OGDEN & KEDZIE LP ISLAND	Central	Completed - Q4	1.14	0.78	72	207	\$1.53M	NO
SEWER 7319 - WINONA & GLENWOOD	North	Completed - Q4	1.02	0.52	95	364	\$1.4M	NO
92ND & RACINE	South	Completed - Q4	0.25	0.12	39	40	\$0.42M	NO
SEWER 7094 - SACRAMENTO & ARCHER	Central	Completed - Q4	0.03	0.05	1	1	\$ 0.30 M	NO
SEWER 7503 - HOOD & SACRAMENTO	North	Completed - Q4	0.06	0.21	0	1	\$0.43M	NO

* Main segment with a UMRI of 5.0 or greater that are adjacent to schools, hospitals and nursing homes and all other main segments with a UMRI of 6.0 or greater.

Appendix D - Progress towards Completion of Commission Requirements

1. Pace of Replacement



Deliverable: Cost/Benefit analysis on system-wide Advanced Leak Detection

2. Natural Forces



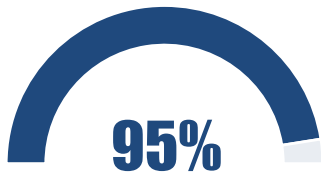
Deliverable: Annual narrative on Frost Depth Data (into GIS) from previous winter (and if any new predictive tool begins to influence MRI)

3. Corrosion



Deliverable: Annual update on the status of the incorporation of Kiefner's Predictive Corrosion Model into existing corrosion monitoring procedures

4. Enhanced Coupon Collection Procedure



Deliverable: Notification of completion of coupon preparation procedure

5. Coupon Location



Deliverable: Cost benefit analysis results for tool/equipment purchases

6. Neighborhood Ranking - Existing Model



Deliverable: NRM attribute evaluation results.

7. Neighborhood Ranking - Kiefner Models



Deliverable: Kiefner evaluation results

Appendix D - Progress towards Completion of Commission Requirements

Tasks No.	Recommendation Description	Status Update
1	Pace of Replacement 100% Complete	• Complete - No update
2	Natural Forces 100% Complete	• Complete - No update
3	Corrosion 100% Complete	• Complete - No update
4	Enhanced Coupon Collection Procedure 95% Complete	• PGL has purchased a media blasting cabinet and is utilizing the grit blasting method to prepare coupon samples. The updated procedure identifying this new methodology is in the final review stages and will be incorporated in the bi-annual procedures update in April of 2022.
5	Coupon Location 100% Complete	• Complete - No update
6	Neighborhood Ranking - Existing Model 100% Complete	• Complete - No update
7	Neighborhood Ranking - Kiefner Models 100% Complete	• Complete - No update