



Regulatory Requirements

- Malden submitted initial inventory by October 16, 2024
- Notifications were mailed to everyone with:
 - ✓ – Lead Service Line (LSLs)
 - Galvanized Requiring Replacement (GRRs)
 - Unknown Material (UNKs)
- 24-hour Public Notice for all systems over Action Level
- Action Level lowered from 15 ppb to 10 ppb
- All LSLs to be replaced within 10 years, regardless of sample results
- Changed sampling and 90th % calculation
- Allowing deferral of changes to corrosion control if ALL LSLs are replaced within 5 years of the exceedance

MWRA target: Communities **replace all** LSLs by the end of **2032**

CITY OF MALDEN LEAD LINE SUMMARY 12-9-2024

		PRIVATE SIDE											
		CL	Copper	DI	Iron	Lead	Steel	UNK	Brass	Galv	Plastic	Abandoned	
PUBLIC SIDE	Plastic		217		7	27			1		2		254
	CI	16	82		29	3	1	33		1			165
	CL	1	4		1			1					7
	Copper	3	7858	1	15	985	24	429	9	11	11		9346
	DI	5	31	36			1	3					76
	Everett												0
	Galv		5					1		2			8
	Lead	4	979		3	198	3	252	2	4	2		1447
	Medford												0
	UNK		10		1		1	20					32
	Blank												0
	Abandoned											1	1
		29	9186	37	56	1213	30	739	12	18	15	1	11336



Malden Initial Inventory Numbers

Total Service Lines:
11,336

Lead Service Lines:
2,460

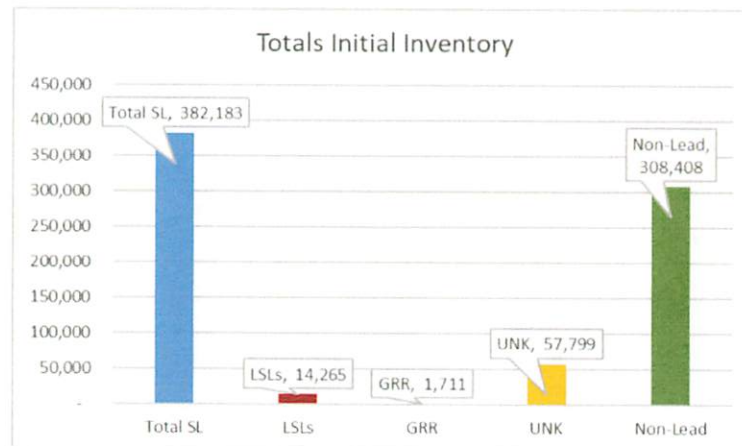
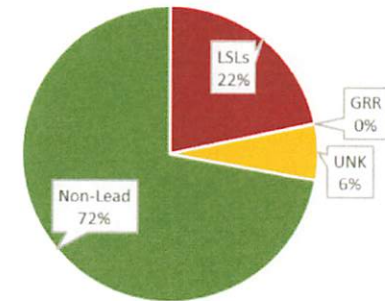
Galvanized RRs:
10

Unknown:
683

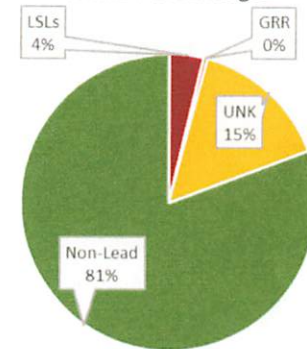
Non-Lead:
8,183



Malden Service Lines Percentages



Totals Percentages





Known Lead Service Lines (LSLs)

Community	Total # SLs in SLI	Total # of LSLs	Percent Lead SLs	Total # of GRRs	LSLs + GRRs	Total # of Lead Status Unknowns (UNKs)	Total # of NON LEAD SLs
Medford	14,577	5,123	35.14%	2	5,125	4,566	4,886
Boston	99,793	2,472	2.48%	283	2,755	5,797	91,241
Malden	11,336	2,460	21.70%	10	2,470	683	8,183
Everett	8,175	1,108	13.55%	2	1,110	1,635	5,430
Quincy	21,384	558	2.61%	-	558	191	20,635
Winthrop	4,541	539	11.87%	-	539	-	4,002
Revere	10,703	452	4.22%	23	475	575	9,653

- Malden is in the top 3 for known LSLs with 2,460
- Malden is in the top 2 for LSLs percentage relative to the total number of connections
- Malden's known LSLs represent 17% of the total known LSLs for MWRA's fully supplied communities



Unknowns (UNKs)

Community	Total # SLs in SLI	Total # of LSLs	Percent Lead SLs	Total # of GRRs	Total # of Lead Status Unknowns (UNKs)	% of Unknown	Total # of NON LEAD SLs
Northborough	4,390	-	0.00%	2	662	15%	3,726
Marlborough	11,069	268	2.42%	45	1,506	14%	9,250
Watertown	7,058	17	0.24%	-	662	9%	6,379
Malden	11,336	2,460	21.70%	10	683	6%	8,183
Boston	99,793	2,472	2.48%	283	5,797	6%	91,241
Revere	10,703	452	4.22%	23	575	5%	9,653

- Malden has made good progress with the unknowns
- Only 6% of Malden's Service Lines are of Unknown material
- 72% of Malden's total Service Lines are Non-Lead



- Malden has **2,470** LSLs + GRR
- At approximately \$10,000 per LSL, Malden will need **\$25M** to remove all LSLs
- In order to meet the 2032 target, Malden needs to consider a **replacement rate** of over **15%**
 - $2,470 \times 0.15 = 371$ replacements/year

Note: 8 years until 2023. The minimum removal percentage is 12.5%. 15% is a conservative goal. Consider the amount of unknowns that will be lead.