

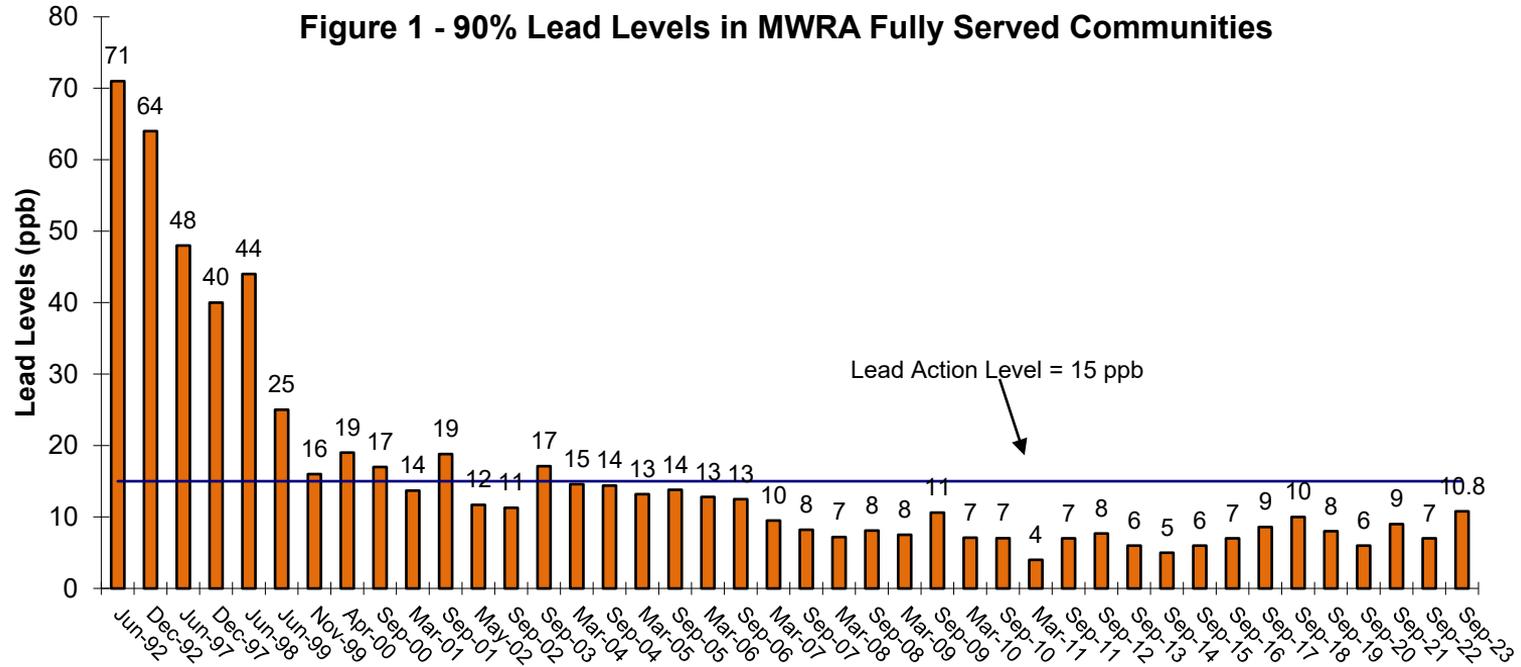


Update on Lead and Copper Rule Sampling to MWRA Advisory board Operations Committee

January 5, 2024

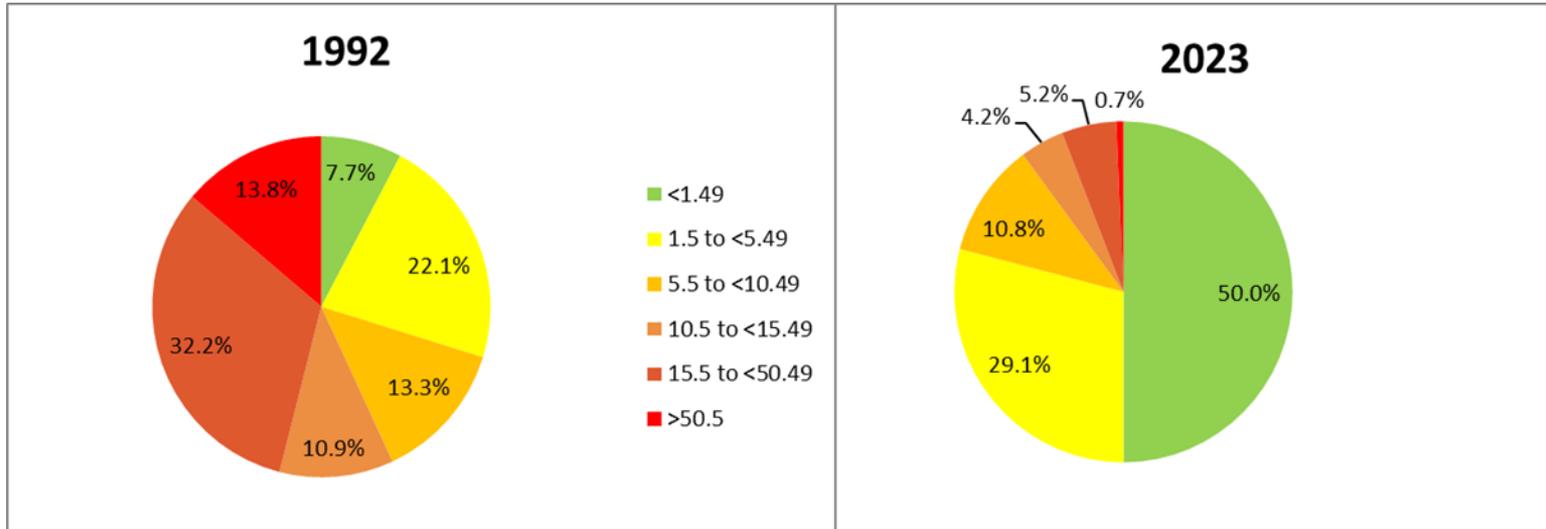


Figure 1 - 90% Lead Levels in MWRA Fully Served Communities





Significant Increase in Samples with Lowest Lead Levels





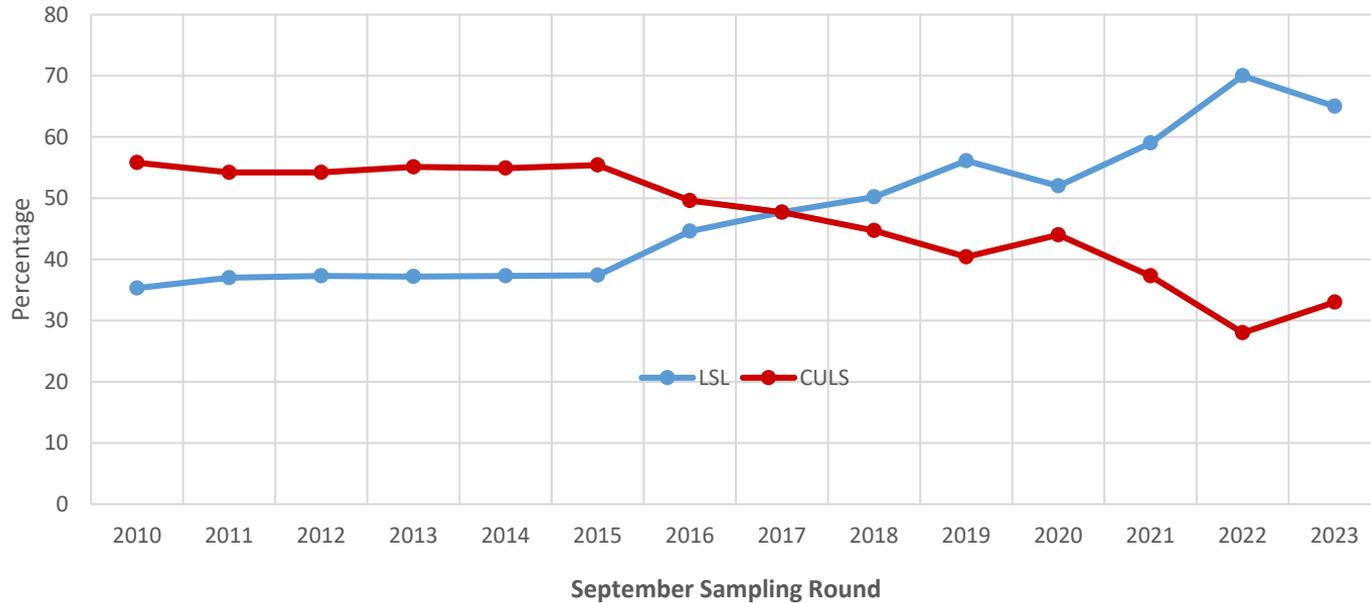
NEW EPA Requirements

- Lead Action Level Lowered to 10 ppb (from 15 ppb)
- If have LSL, must sample LSL
- Sampling procedures changed (will increase lead levels)
- Replacement of LSL w/i 10 years (regardless of lead levels)
- Option to defer changes to corrosion control if replace LSL w/i 5 years
- More details on changes to LCR in training later this winter



Share of sample pool that is LSL has increased substantially

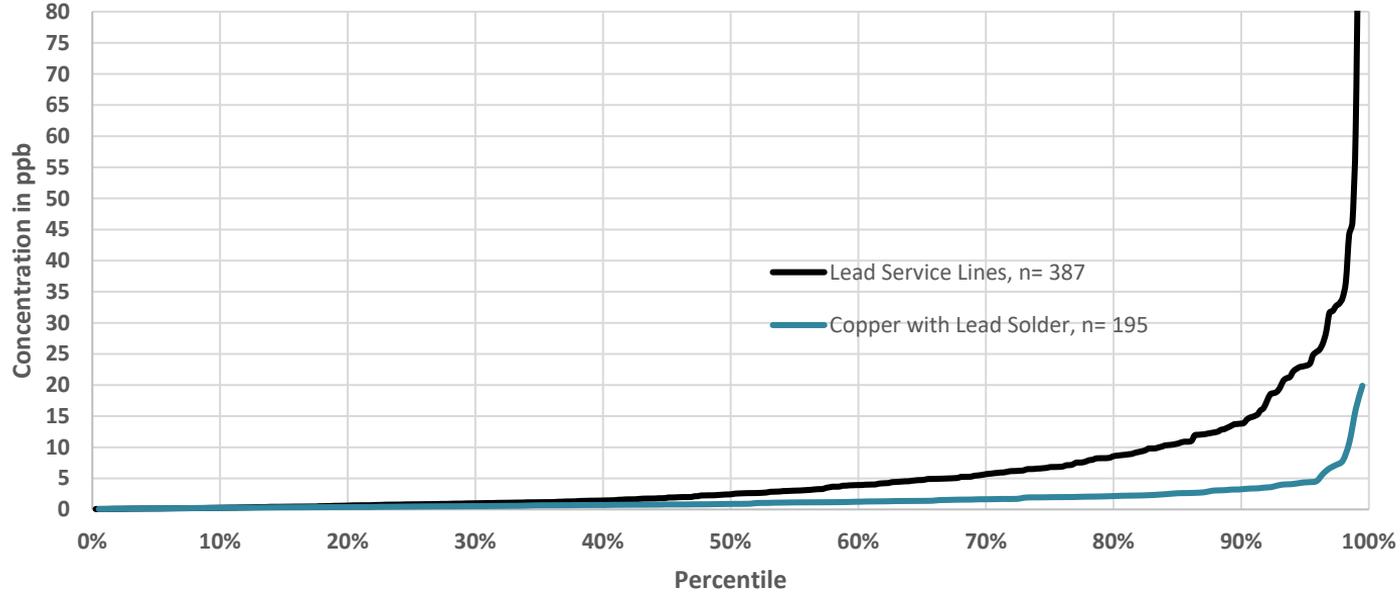
Percentage of Samples from Homes with Lead Service Lines





2023 Sampling Results – 10.8 ppb - 65% LSL

2023 Sampling Round Results



Type	Median	75 th Percentile	90 th Percentile	95 th Percentile	% of Total
LSL	2	7	13	23	65
CULS	1	2	3	4	33



Over past 10 years – vast majority of sites over the AL were LSL

Action Level = 15		Action Level = 10
1028	Unique sites sampled	1028
101	# over AL	161
92	# that were LSL	147
6	# that were lead solder	9



90th Percentile Results Significantly Lower for Non LSL Sites

Year ***	2018	2019	2020	2021	2022	2023
90th Percentile Full system	10	8	6	9	7	11
90th Percentile Just LSL	12	11	8	13	9	14
90th Percentile Just Lead Solder	3	3	2	3	2	3

Red shows results over proposed new Action Level of 10 ppb