

Supplementary Material accompanying *Cambridge Prisms: Water* article "*Dutch drinking water sector readiness for stricter EU lead norm*"

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Table S.1: Water quality parameters measured at Water treatment facility of Weesperkarspel in 2023 as part of the regulatory monitoring. The parameters in the table are based on NEN-EN 15664-1.

Parameter	Minimum	Mean	Maximum	Number of measurements
Temperature [°C]	4.9	12.8	21.2	52
Hydrogen ion concentration [pH units]	7.86	8.02	8.22	52
Specific Electrical Conductivity [$\mu\text{S cm}^{-1}$]	442	479	548	52
Oxygen [mg/L]	6.7	10.8	15.4	52
Total alkalinity [mmol/L]	3.2	3.34	3.5	13
Total Organic Carbon [mg/L]	2.55	3.49	4.25	13
Free Carbon Dioxide [mmol/L]	0.056	0.075	0.109	52
Calcium [mg/L]	38.97	44.28	48.80	52
Magnesium [mg/L]	6.01	6.62	7.51	52
Potassium [mg/L]	2.79	3.00	3.23	13
Sodium [mg/L]	44.3	52.7	57.7	13
Chloride [mg/L]	56	59	63	13
Nitrate [mg/L]	2.51	5.20	7.43	26
Sulphate [mg/L]	5.5	6.7	10.0	13
Phosphorus [mg/L]	<0.02	<0.02	0.02	13
Silicone Dioxide [mg/L]	8.2	10.1	10.9	13
Copper [$\mu\text{g/L}$]	1.1	1.4	1.8	13
Iron [$\mu\text{g/L}$]	<5	<5	16	13
Manganese [$\mu\text{g/L}$]	<5	<5	<5	52
Zinc [$\mu\text{g/L}$]	<2.5	<2.5	<2.5	13
Lead [$\mu\text{g/L}$]	<0.2	<0.2	<0.2	13

Table S.2: Water quality parameters measured at Water treatment facility of Leiduin in 2023 as part of the regulatory monitoring. The parameters in the table are based on NEN-EN 15664-1.

Parameter	Minimum	Mean	Maximum	Number of measurements
Temperature [°C]	7.2	13.8	20.2	104
Hydrogen ion concentration [pH units]	7.85	8.06	8.20	104
Specific Electrical Conductivity [$\mu\text{S cm}^{-1}$]	491	538	583	104
Oxygen [mg/L]	5.8	8.4	11.1	104
Total alkalinity [mmol/L]	2.8	2.95	3.2	13
Total Organic Carbon [mg/L]	0.90	1.11	1.37	13
Free Carbon Dioxide [mmol/L]	0.039	0.059	0.077	52
Calcium [mg/L]	35.49	40.40	43.81	104
Magnesium [mg/L]	7.60	9.27	10.3	104
Potassium [mg/L]	3.48	3.88	4.41	13
Sodium [mg/L]	55.4	65.2	77.5	104
Chloride [mg/L]	57	67	77	26
Nitrate [mg/L]	1.87	3.82	5.84	26
Sulphate [mg/L]	39.2	43.8	48.1	13
Phosphorus [mg/L]	<0.02	<0.02	0.02	13
Silicone Dioxide [mg/L]	4.5	6.7	9.9	13
Copper [$\mu\text{g/L}$]	<0.5	<0.5	<0.5	4
Iron [$\mu\text{g/L}$]	<5	<5	<5	13
Manganese [$\mu\text{g/L}$]	<5	<5	<5	52
Zinc [$\mu\text{g/L}$]	<2.5	<2.5	<2.5	13
Lead [$\mu\text{g/L}$]	<0.2	<0.2	<0.2	13

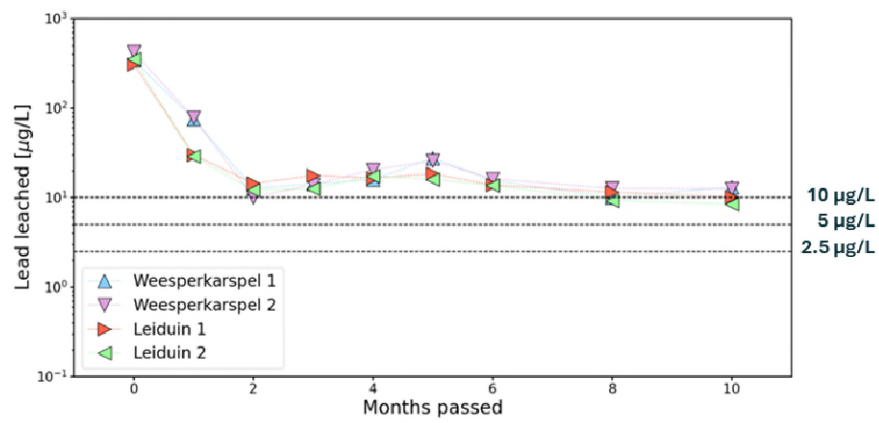


Figure S.1: 'Run-time' curves for CW614 from the experimental rig for brass.

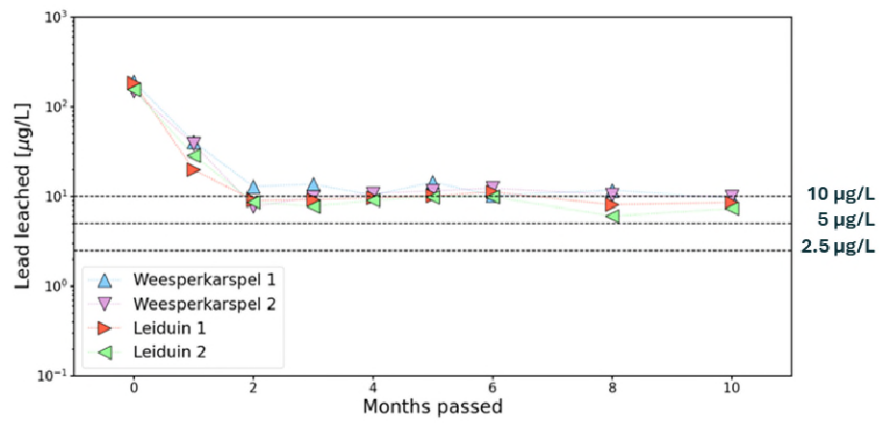


Figure S.2: 'Run-time' curves for CW617 from the experimental rig for brass.

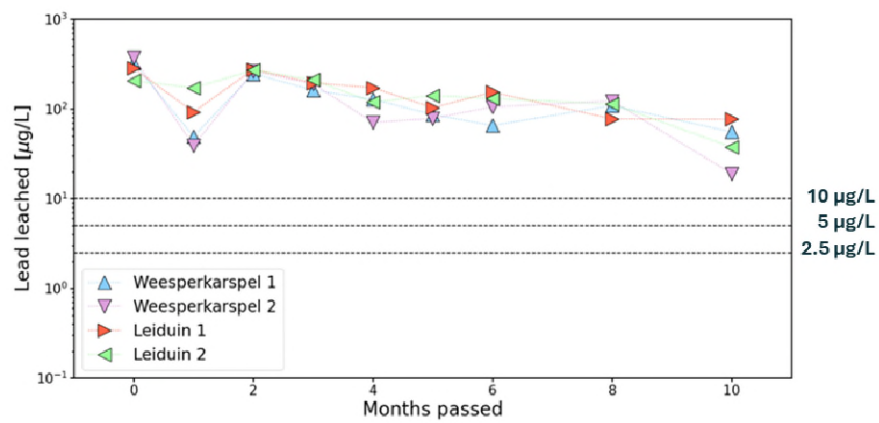


Figure S.3: 'Run-time' curves for CW602 from the experimental rig for brass.

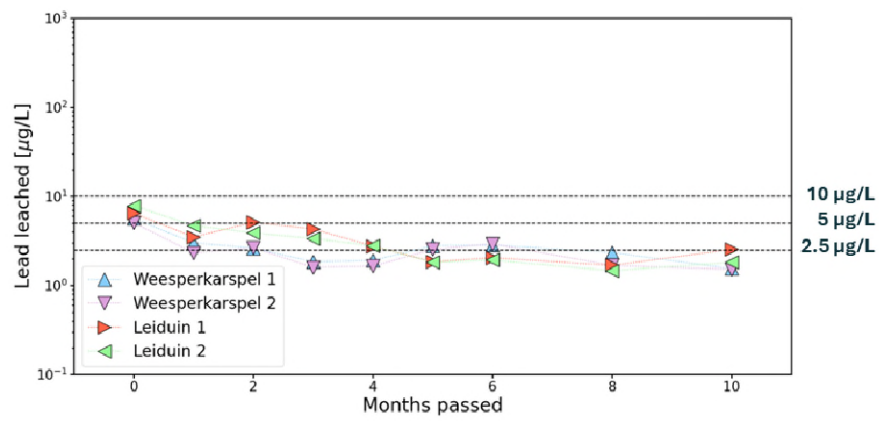


Figure S.4: 'Run-time' curves for CW724R from the experimental rig for brass.

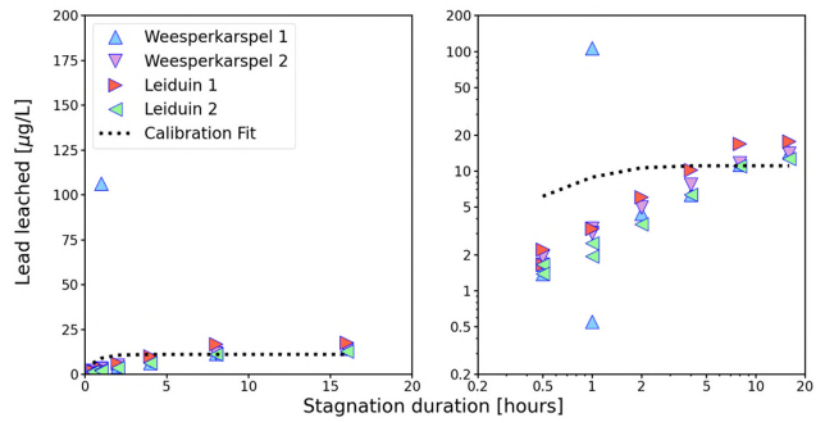


Figure S.5: 'Stagnation' curves for CW614 from the experimental rig for brass. $E = 11.0 \mu\text{g/L}$, $M = 0.011 \mu\text{g}/(\text{m}^2 \cdot \text{s})$, $T = 0.62$ hours.

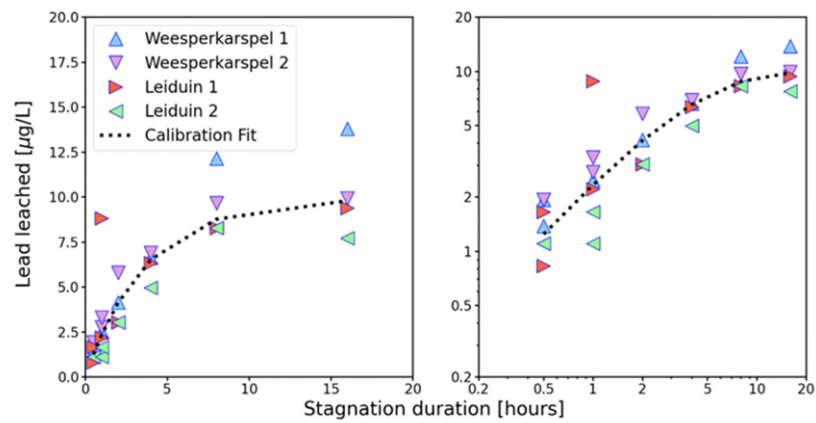


Figure S.6: 'Stagnation' curves for CW617 from the experimental rig for brass. $E = 9.9 \mu\text{g/L}$, $M = 0.0016 \mu\text{g}/(\text{m}^2 \cdot \text{s})$, $T = 3.74$ hours.

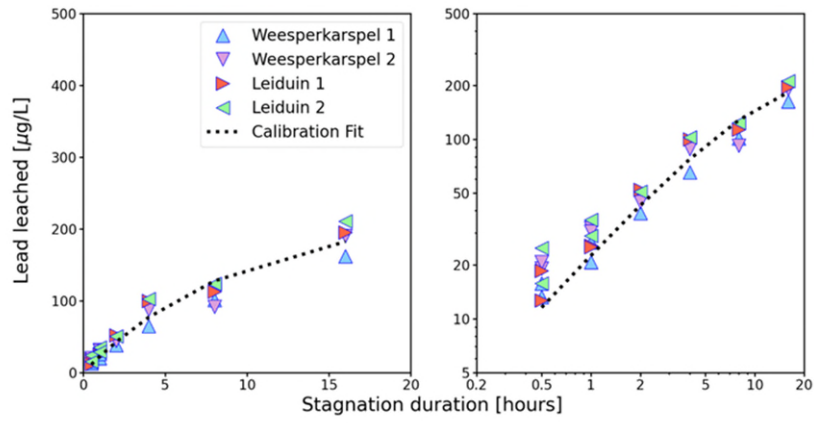


Figure S.7: 'Stagnation' curves for CW602 from the experimental rig for brass. $E = 223.7 \mu\text{g/L}$, $M = 0.014 \mu\text{g}/(\text{m}^2 \cdot \text{s})$, $T = 9.44$ hours.

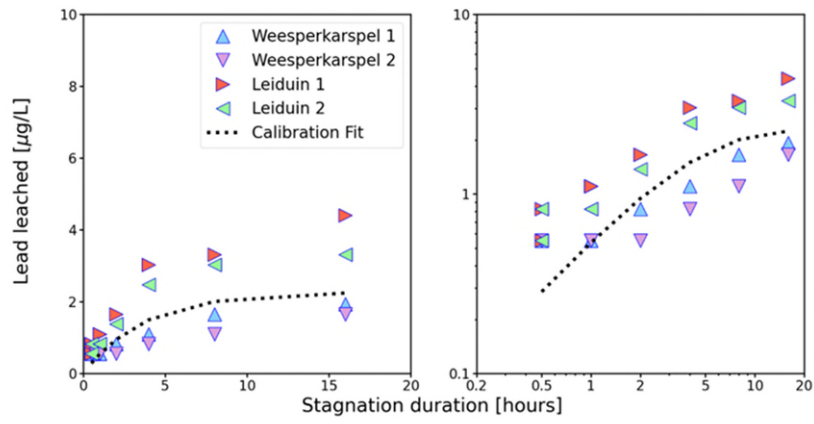


Figure S.8: 'Stagnation' curves for CW724R from the experimental rig for brass. $E = 2.2 \mu\text{g/L}$, $M = 0.00036 \mu\text{g}/(\text{m}^2 \cdot \text{s})$, $T = 3.73$ hours.

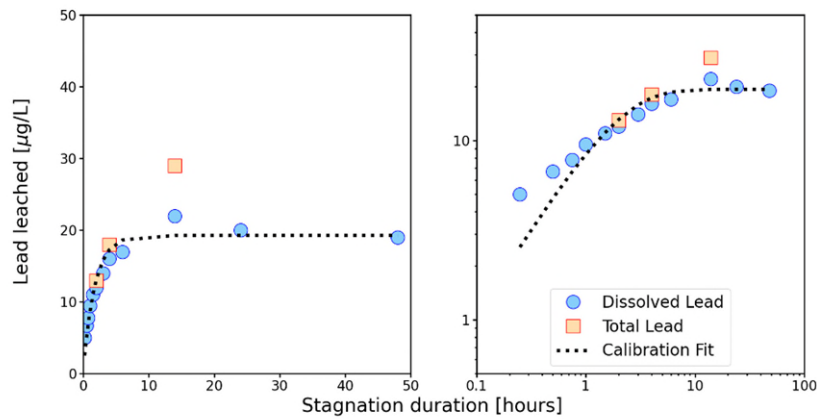


Figure S.9: 'Stagnation' curve for a water meter with CW617 from the tabletop experiments. $E = 19.3 \mu\text{g/L}$, $M = 0.014 \mu\text{g}/(\text{m}^2 \cdot \text{s})$, $T = 1.77$ hours.

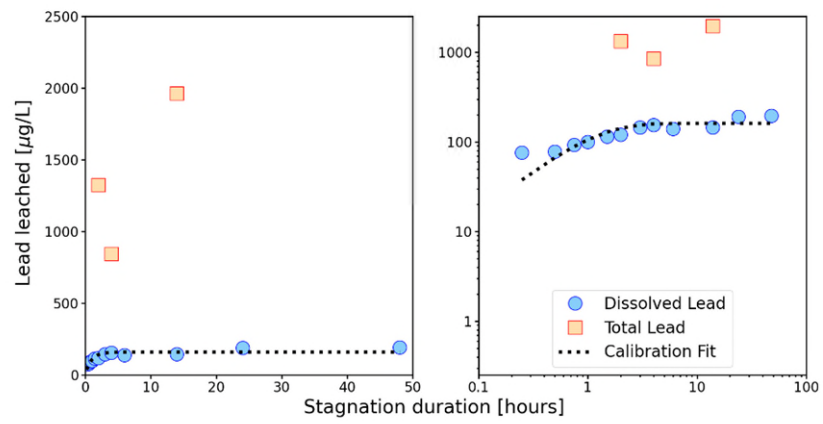


Figure S.10: 'Stagnation' curve for lead pipe from the tabletop experiments. This lead pipe was later installed in the HomeWaterLab, for validation experiments of LLeadGO. $E = 160.5 \mu\text{g/L}$, $M = 0.216 \mu\text{g}/(\text{m}^2\cdot\text{s})$, $T = 0.94$ hours.