



March 2021

Greetings,

With the Biden administration's expected changes to the Revisions, most believe that the Lead and Copper Rule will be strengthened. Some speculate that the time frame for lead service line removal will be sped up, while others suggest that the 90th percentile for lead will be lowered to 10ppb or even 5 ppb.

Many water treatment professionals agree that the Revised Lead and Copper Rule will be, at its core, a treatment rule. There is a clear objective of continued reduction of corrosion rates and optimization of corrosion control treatment (OCCT).

Proactive and forward-thinking water utilities are already starting their review of OCCT. Data provided by InstantMPY corrosion analyzers has been a helpful way to start this process. InstantMPY customers have excellent corrosion control programs and are using the analyzer to document results.

Effective water treatment is in the details. Water quality parameters impact corrosion rates and external factors such as seasonal water changes, source water additions, and water temperature changes can affect water quality. For many water utilities, corrosion rates increase as much as 40% from February to September. Corrosion is not a static process and your corrosion control program should be responsive to these changes.

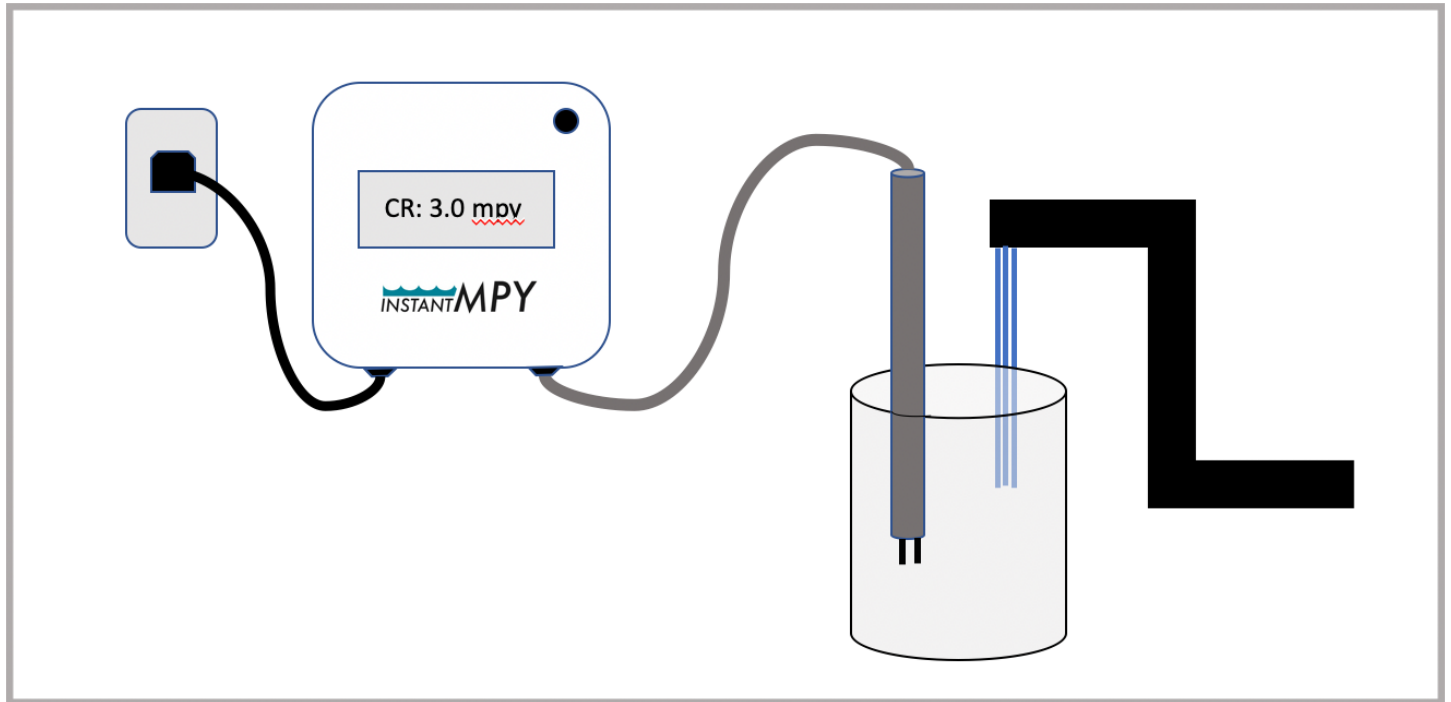
In this mailer, we share some of the ways that InstantMPY analyzers are being used. Detailed is the simple setup design that makes it easy to install a corrosion analyzer in the laboratory in less than 5 minutes. A sample chart from an InstantMPY customer and graph of the details provide an example of the data collected by an InstantMPY analyzer.

We hope these details encourage you to respond and request a free and contactless 30-day demo unit for use at your facility.

EASY SETUP

30-Day demo trials available

Plug in electric cord and place probe in beaker of water to get corrosion rates



InstantMPY CM2012

- ▶ For Laboratory use
- ▶ Displays current corrosion rate on a real time basis
- ▶ \$2,995

InstantMPY XM2020

- ▶ For In System use
- ▶ Links to SCADA system to display current corrosion rate
- ▶ \$4,995 + price of probe

The method used by InstantMPY corrosion analyzer of linear polarization resistance corrosion monitoring is recognized by ASTM International under ASTM Standard G96-90 (2018) Standard Guide for Online Monitoring of Corrosion in Plant Equipment

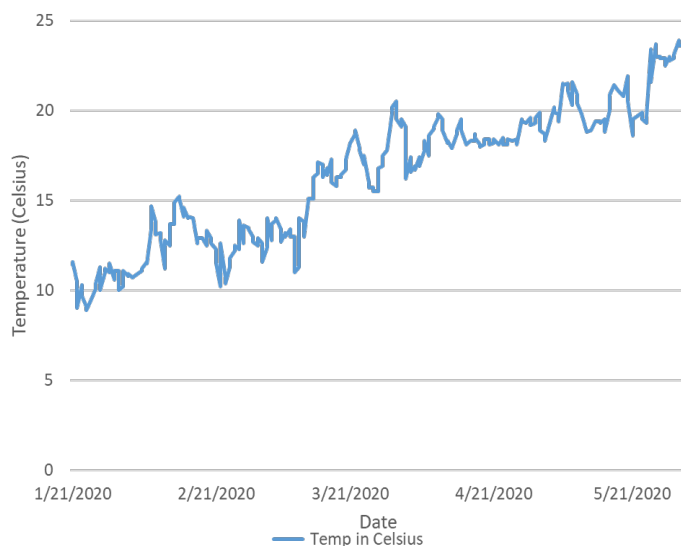
EXAMPLE REPORT

Finished Water Corrosion Rates

Corrosion Reading (MPY)



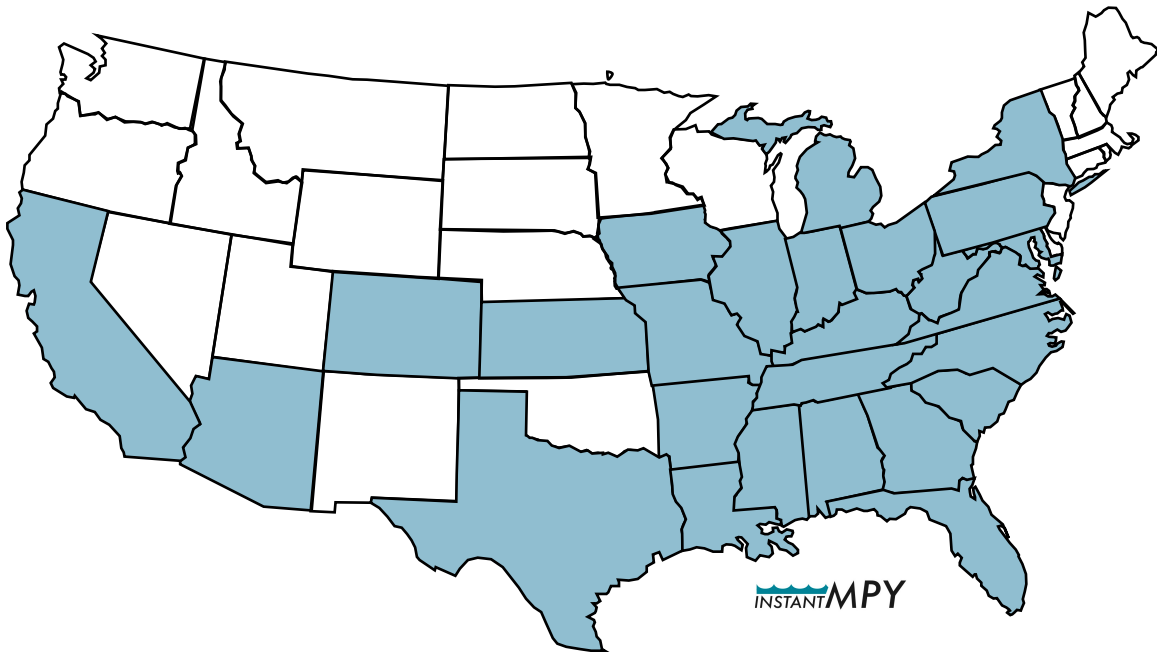
Temperature



Date	Corrosion Rate	Temperature	pH
1/21	4.43	11.4	7.33
1/21	4.2	11.6	7.14
1/22	4	10.5	7.21
1/22	3.64	9	7.69
1/23	3.51	10.3	7.23
1/23	3.32	9.7	7.27
1/24	3.4	9.1	7.13
1/24	3.12	8.9	7.09
1/25	3.2	9.5	7.19
1/26	3.29	10.1	7.25
1/26	3.32	10.4	7.24
1/27	3.66	11.3	6.37
1/27	3.42	10	7.12
1/28	3.49	11	7.08
1/28	3.56	11.2	7.2
1/29	3.59	11	7.49
1/29	3.49	11.5	7.16
1/30	3.58	10.6	7.29
1/30	3.51	11.1	7.18
1/31	3.32	11.1	7.12
1/31	3.18	10	7.15
2/1	3.32	10.2	7.27
2/1	3.3	11.1	7.27
2/2	3.25	10.8	7.31
2/2	3.43	10.9	7.34

Date	Corrosion Rate	Temperature	pH
2/3	3.36	10.7	7.25
2/3	3.2	10.7	7.19
2/4	3.28	10.9	7.37
2/4	3.23	10.9	7.21
2/5	3.46	11.1	7.16
2/5	3.5	11.2	7.26
2/6	3.53	11.6	7.25
2/6	3.46	11.5	7.25
2/7	3.55	13.4	7.2
2/7	3.82	14.7	7.14
2/8	3.81	13.8	7.12
2/8	3.9	13.1	7.26
2/9	3.66	13.2	7.18
2/9	3.61	12.8	7.23
2/10	3.62	11.2	7.26
2/10	3.59	12.8	7.07
2/11	3.46	12.5	7.08
2/11	3.7	13.7	7.11
2/12	3.62	13.7	7.22
2/12	3.76	14.9	7.09
2/13	3.97	15.2	7.17
2/13	3.9	15.1	7.09
2/14	4.05	14.1	7.25
2/14	4.08	14.6	7.17
2/15	3.71	14	7.1

Current Uses of the Corrosion Rate Analyzer



Shaded areas show States with users benefitting from InstantMPY technology

Great Lakes

Surface water plant collecting finished water corrosion rate data on phosphate treated water. Utility building a database of corrosion rates over time.

West Coast

Well water treatment facility with both corrosive and scale forming water sources. InstantMPY corrosion analyzers, pipe loop studies, and corrosion coupon studies being used to collect data and optimize corrosion control.

Southeast

InstantMPY corrosion analyzer used to optimize phosphate feed rate and reduce chemical costs. Targeted corrosion rate of 3 mil per year set as goal.

Midwest

Surface water plant using unit to monitor corrosion rates to adjust pH to optimal levels as water quality conditions change throughout the year.

Northeast

InstantMPY corrosion analyzer used to measure corrosion rates when changing coagulants and phosphate suppliers and ensure product performance.

Mid-Atlantic

Surface water utility used unit to measure corrosion inhibitor performance during phosphate startup.