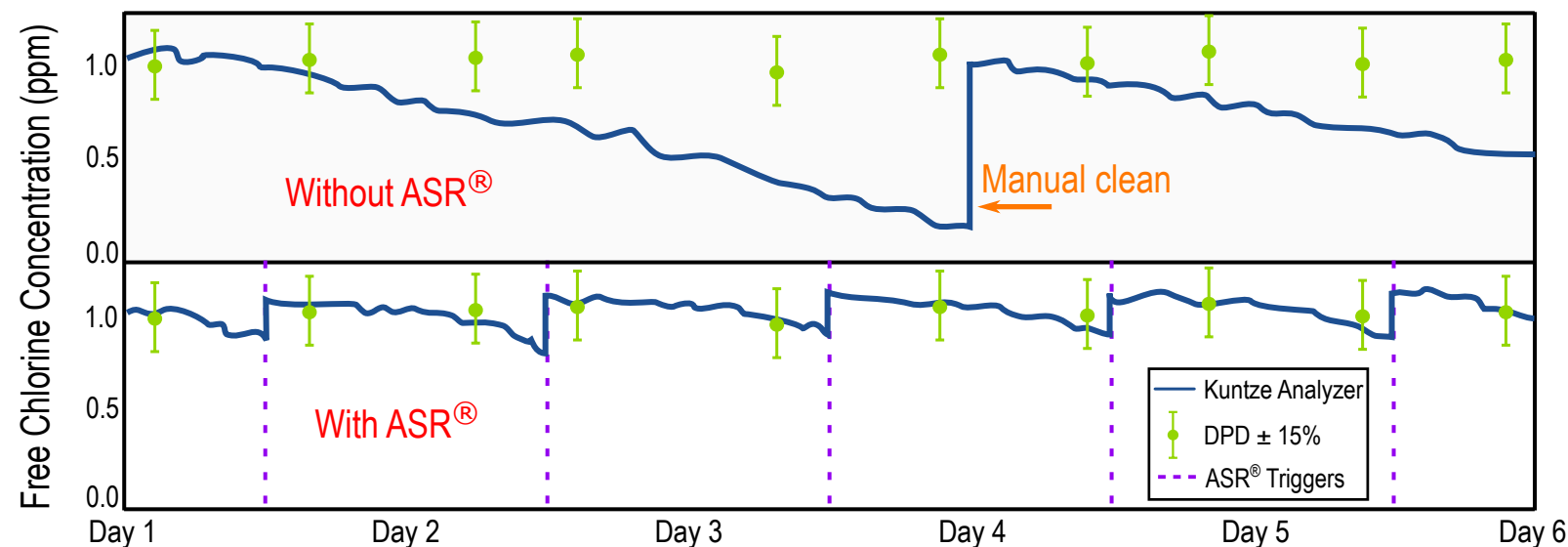# Insights Case Study: Automatic Sensor Cleaning

Background Information

> This analyzer was installed in a drinking water application sourced from ground water using free chlorine chemistry.
> The ground water source contained high amounts of iron and manganese, which fouled the probe.
> The operators in charge of the equipment found themselves frequently manually cleaning the probe.
> After using Cloud Connect® to view and analyze the data, Kuntze Trial Managers instructed the customer to increase the Automatic Sensor Cleaning (ASR®) frequency to one cleaning per day.

Results

> The graph above shows two cases of the same analyzer: one with ASR® (bottom) and one without ASR® (top).
> For the case without ASR®, the analyzer signal (blue line) dropped as the probe fouled, while the DPD measurements (green circles) remained around 1.0 ppm.
   >> On Day 4, the operator removed the probe and performed a manual clean, which brought the signal back up.
> For the case with an ASR® schedule of one cleaning per day (purple dashed lines), the analyzer signal dropped slightly with respect to the DPD measurements over the course of the day, but remained within compliance.
   >> The one cleaning per day schedule helped prevent the fouling seen in the case without ASR®.
> This recommendation could not have been made without using Cloud Connect® to visualize the data.

> Learn more about Kuntze's ASR at kuntzeusa.com/knowledge/what-is-asr
> To view more Insights Case Studies, scan the QR code on the right.

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