
Fluoride plant dosing performance report: April to June 2021

Responsible Officer: Group Manager Operations (Adam Nesbitt)

Recommendation

That Council receive and note the Fluoride Plant dosing performance report: April to June 2021.

Background

In February 2019, it was resolved (6/19) that Council would receive a fluoride performance report incorporating chemical suppliers testing data and dosing plant performance on a quarterly basis. This report is for the 1 April to 30 June 2021 quarter (Q2).

- **Fluoride plants' performance**

Plant performance is measured against three criteria:

1. Australian Drinking Water Guidelines (ADWG) Health guideline value upper limit of 1.5 mg/L.
2. NSW Health Code of Practice for Fluoridation of Public Water Supplies ('Code') - target over a calendar year that > 95% of **all results** (dosed water and distribution) are between 0.9 and 1.5 mg/L; and
3. The Code - consistently achieve an overall fluoride dose of between 0.95 to 1.05 mg/L.

Attachments 1 to 4 are charts presenting the results for each of the four fluoride plants, in comparison to the criteria above.

The results of the analysis of samples collected during the quarter show that:

1. None of the plants have dosed fluoride above the ADWG guideline value of 1.5 mg/L.
2. Monthly 95th Percentile results for **all results** collected (dosed water and distribution) during the quarter are shown in Charts 1, 3, 5 and 7. Results were within the Code's target range of 0.9 to 1.5 mg/L.
3. Monthly 95th Percentile results for **dosed water** at each fluoride plant is shown in charts 2, 4, 6 and 8. Results were within the Code's dosing range of 0.95 to 1.05 mg/L.

- **Fluoride deliveries**

There were no fluoride deliveries during Q2 2021.

Conclusion

For the period 1 April to 30 June 2021, the four fluoride plants operated by Council have met the dosing targets prescribed in the Australian Drinking Water Guidelines and the targets range within the NSW Health Code of Practice for Fluoridation of Public Water Supplies.

Attachments 1:

Chart 1 – Clunes Fluoride Plant Dosing Performance – Monthly 95th Percentiles - All Results

Chart 2 – Clunes Fluoride Plant Dosing Performance – Monthly 95th Percentiles - Daily Results

Attachments 2:

Chart 3 – Corndale Fluoride Plant Dosing Performance – Monthly 95th Percentiles - All Results

Chart 4 – Corndale Fluoride Plant Dosing Performance – Monthly 95th Percentiles - Daily Results

Attachments 3:

Chart 5 – Dorroughby Fluoride Plant Dosing Performance – Monthly 95th Percentiles - All Results

Chart 6 – Dorroughby Fluoride Plant Dosing Performance – Monthly 95th Percentiles - Daily Results

Attachments 4:

Chart 7 – Knockrow Fluoride Plant Dosing Performance – Monthly 95th Percentiles - All Results

Chart 8 – Knockrow Fluoride Plant Dosing Performance – Monthly 95th Percentiles - Daily Results

Chart 1 - Clunes Fluoride Dosing Performance Monthly 95th Percentiles for All Results

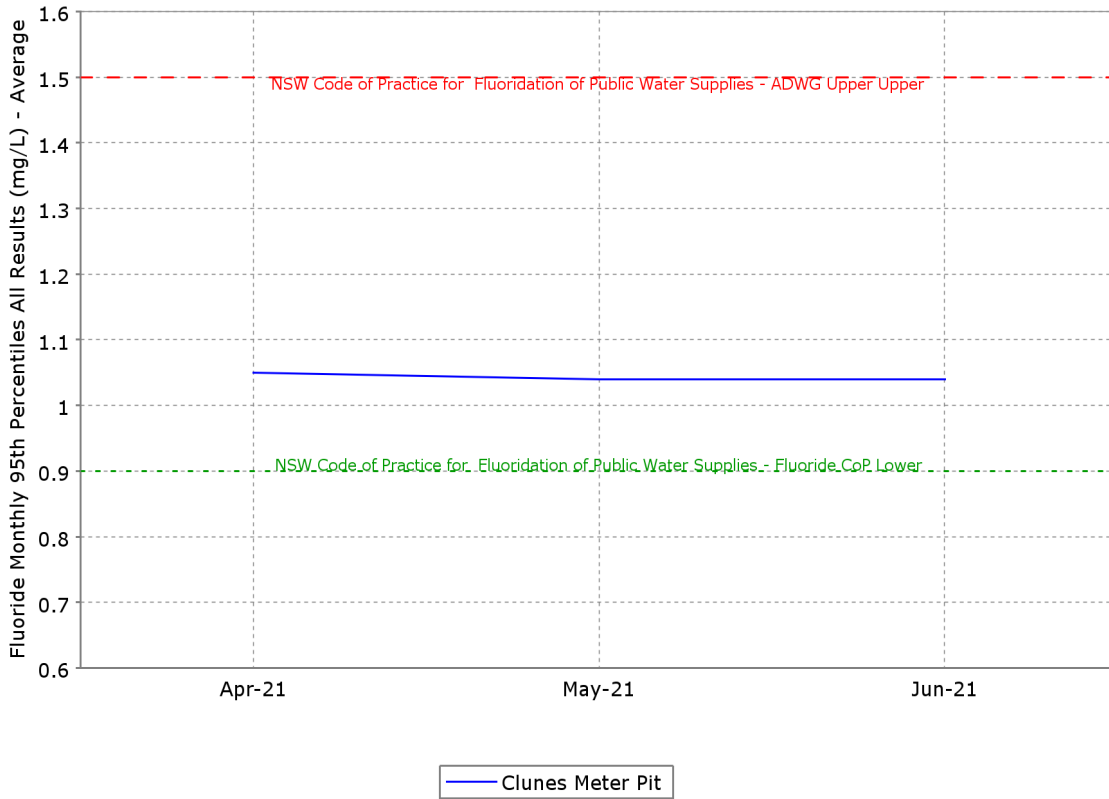


Chart 2 - Clunes Fluoride Dosing Performance Monthly 95th Percentiles Daily Results



Chart 3 - Corndale Fluoride Dosing Performance Monthly 95th Percentiles for All Results

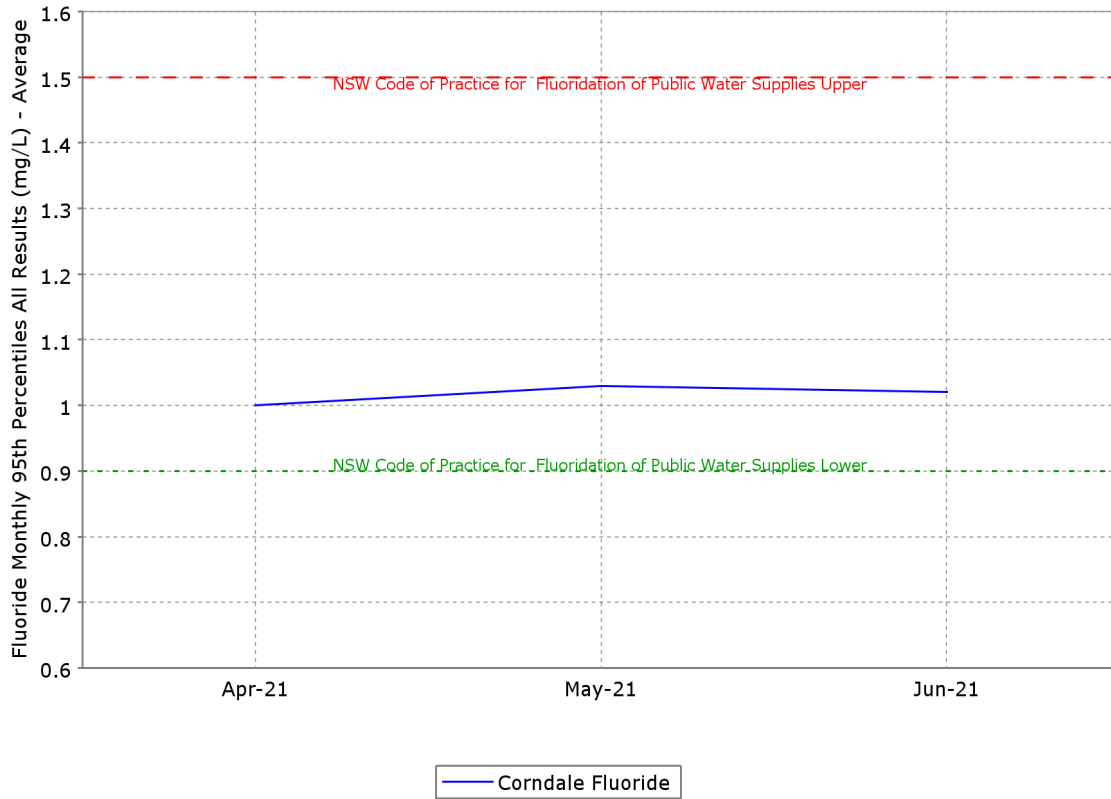


Chart 4 - Corndale Fluoride Dosing Performance Monthly 95th Percentiles for Daily Results

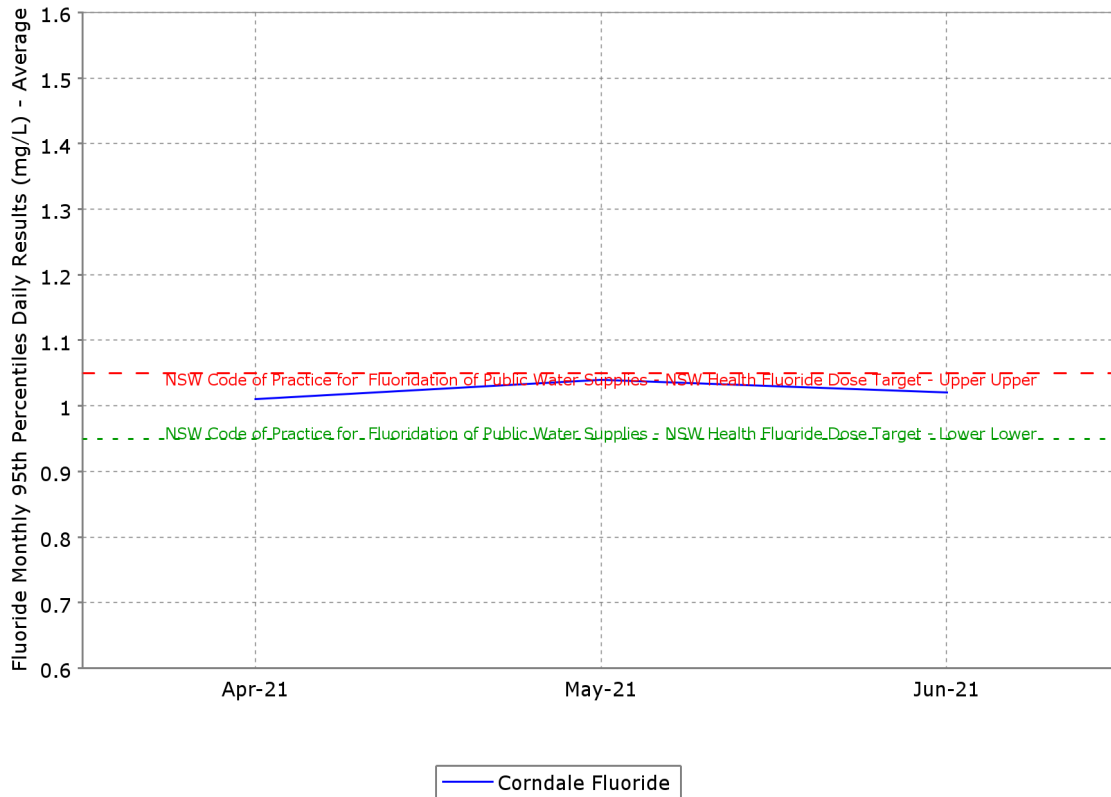


Chart 5 - Dorrroughby Fluoride Dosing Performance Monthly 95th Percentiles for All Results

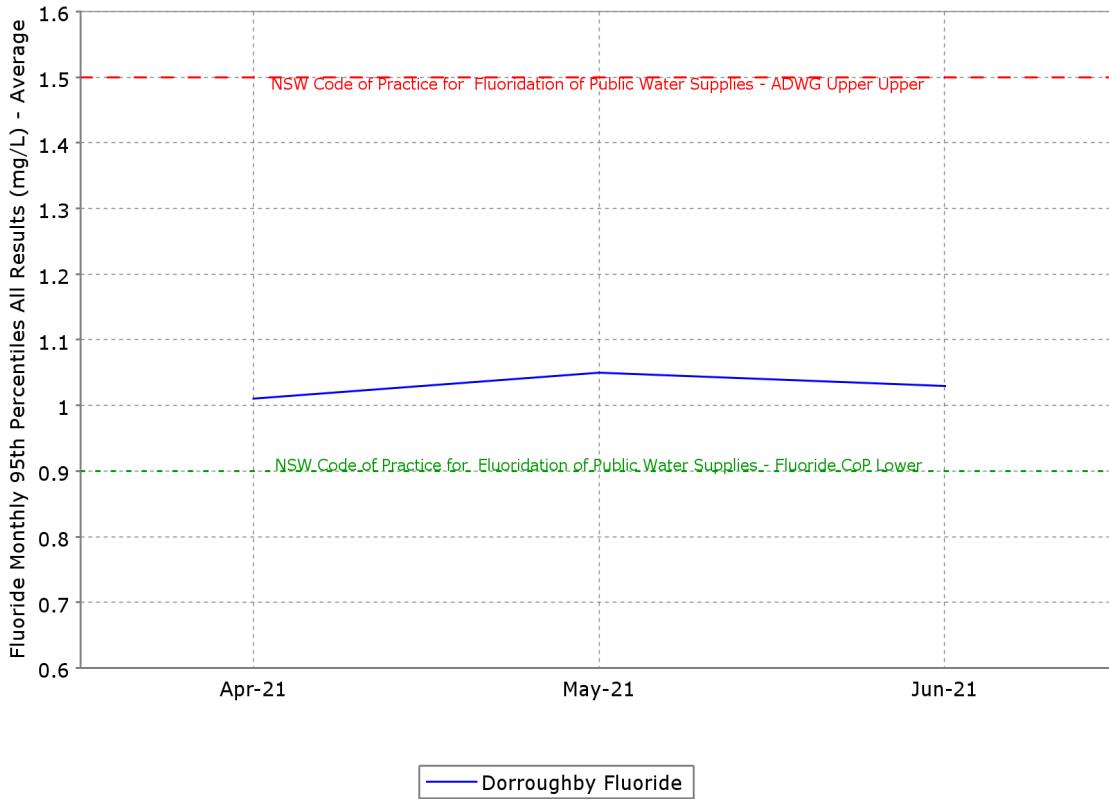


Chart 6 - Dorrroughby Fluoride Dosing Performance Monthly 95th Percentiles for Daily Results

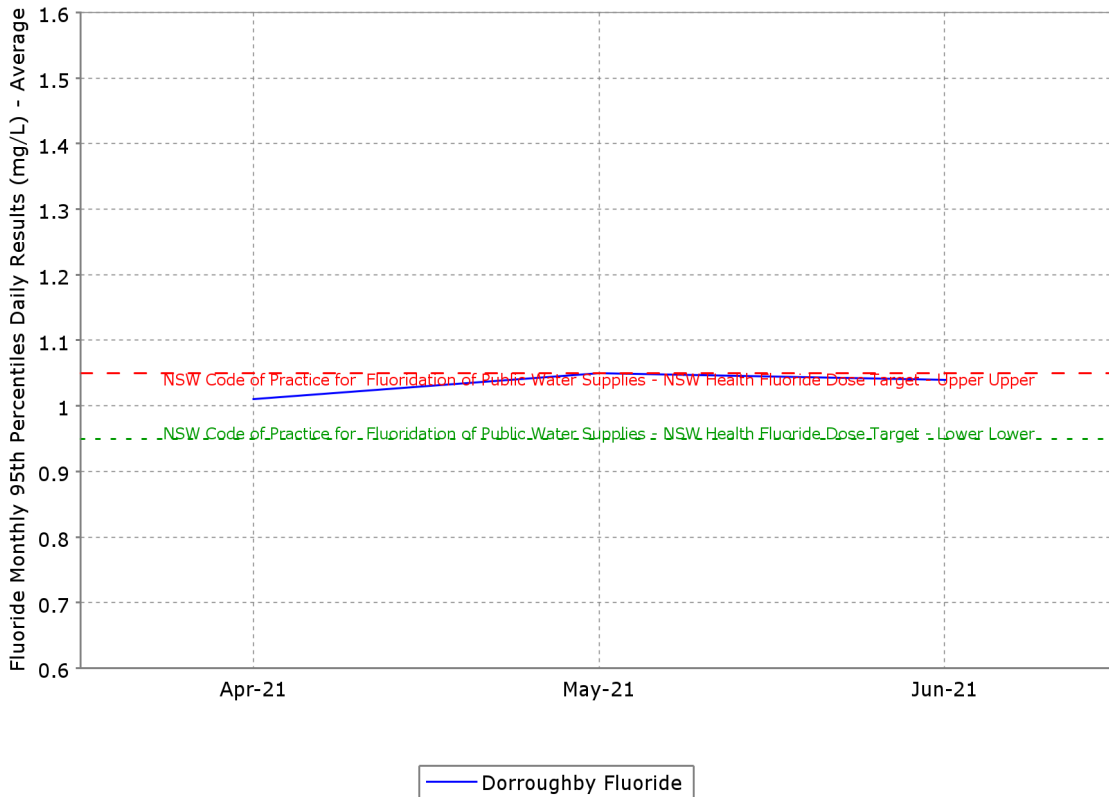
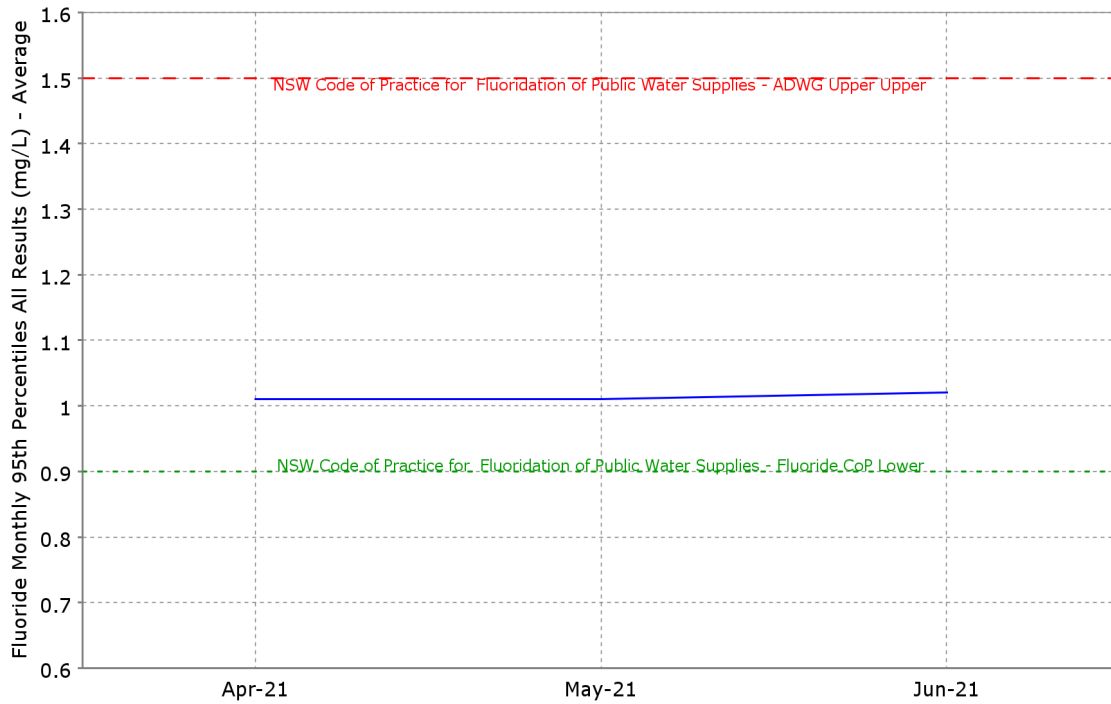
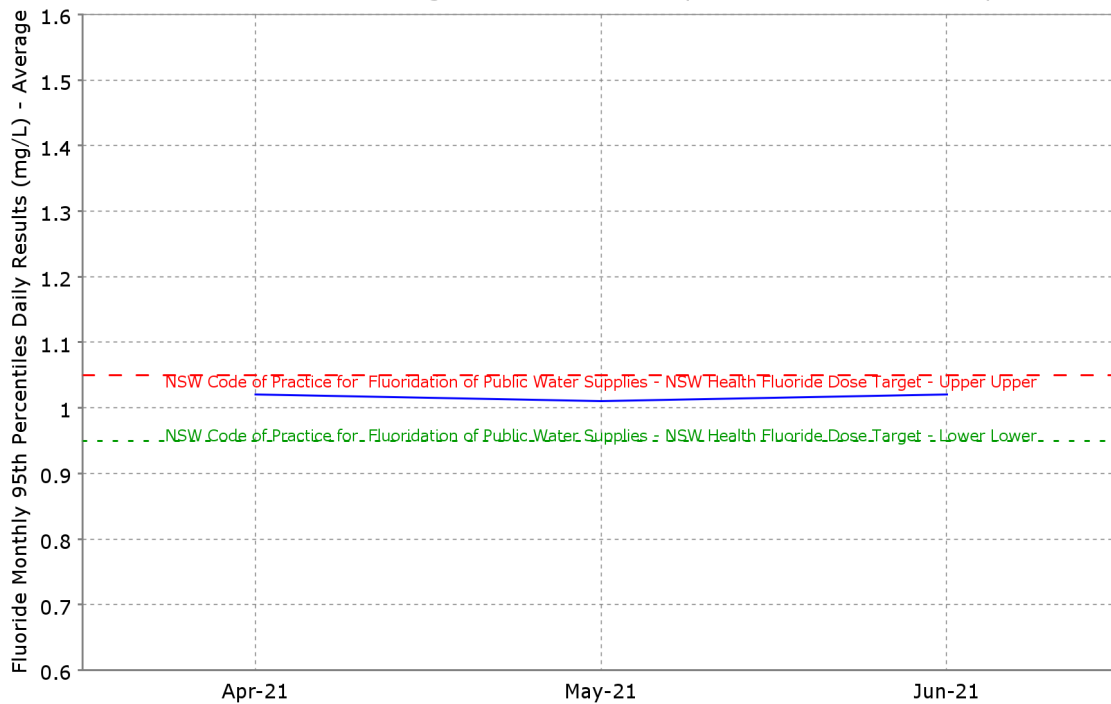


Chart 7 - Knockrow Fluoride Dosing Performance Monthly 95th Percentiles for All Results



— Knockrow

Chart 8 - Knockrow Fluoride Dosing Performance Monthly 95th Percentiles for Daily Results



— Knockrow