# Year Ending 14/8/2021 Meaningful Summary - Statistics from Licenced Discharge Points

| Pollutant | Units | Monitoring Frequency | Detection Limit | Statistics for 2021 | | | | | Limits | | | Exceedances | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Count | Min. | Mean | Median | Max. | Min. | Max. | 90%* | Count | Comments |
| **Point 1** | **Discharge from Sludge Drying Beds** | | | | | | | | | | | | |
| **Aluminium** | mg/L | Special A | 0.02 | 12 | 0.06 | 0.74 | 0.32 | 4.74 | — | — | — | 0 | no exceedances |
| **Chlorine (Free Residual)** | mg/L | Special A | 0.03 | 12 | <0.03 | 0.02 | <0.03 | 0.03 | — | 0.1 | — | 0 | no exceedances |
| **pH** | pH | Special A | — | 12 | 6.80 | 7.29 | 7.37 | 7.82 | 6.5 | 8.5 | — | 0 | no exceedances |
| **Total Suspended Solids** | mg/L | Special A | 2 | 12 | <2 | 4.92 | 1.50 | 30.00 | — | 10 | — | 1 | new drying bed |
| **Turbidity** | NTU | Special A | 0.3 | 12 | 0.50 | 4.76 | 2.55 | 21.20 | — | — | 5 | 41.67% | new drying bed & high rainfall |
| **Point 2** | **Ambient Monitoring of Queanbeyan River** | | | | | | | | | | | | |
| **Turbidity** | NTU | Special C | 0.3 | 12 | 5.20 | 6.04 | 5.85 | 9.10 | — | — | — | 0 | no exceedances |
| **Point 3** | **Discharge from Clear Water Storage** | | | | | | | | | | | | |
| **Chlorine (Free Residual)** | mg/L | Special B | 0.03 | 0 | — | — | — | — | — | 0.1 | — | 0 | no sampling required |
| **pH** | pH | Special B | — | 0 | — | — | — | — | 6.5 | 8.5 | — | 0 | no sampling required |
| **Total Suspended Solids** | mg/L | Special B | 2 | 0 | — | — | — | — | — | 10 | — | 0 | no sampling required |
| **Turbidity** | NTU | Special B | 0.3 | 0 | — | — | — | — | — | 5 | — | 0 | no sampling required |
| **Point 4** | **Ambient Monitoring of Googong Creek** | | | | | | | | | | | | |
| **Turbidity** | NTU | Special C | 0.3 | 0 | — | — | — | — | — | — | — | 0 | no sampling required |

NOTE: Any results below the detection limit are considered to be equal to the detection limit divided by 2 for the calculation of the above statistics.
NOTE: Exceedances are calculated as inclusive of the limit
***** 90% limits require 90% of sample results to meet the limit, as such the "Count" of exceedances is presented as a % for these limits and should be less than 10%.
Special A: Weekly during (and for two weeks after) the operation of Googong Water Treatment Plant
Special B: Weekly during discharge
Special C: Monthly during discharge

| EPA Discharge Volume Limits | | | | |
|---|---|---|---|---|
| **Point** | **Units** | **Limit** | **Total** | **Comments** |
| **Point 1** | ML/year | 1000 | 19.117 | no exceedances |
| **Point 3** | ML/year | 60 | 0 | did not discharge from Point 3 this year |

## Additional Comments

In February 2021 Icon Water recieved a Licence Variation which (a) increased the turbidty and total suspended solid limits at Point 3 (b) altered the sampling freequency at Point 1 and (c) required a submission of a Water Quality Validation report after the first discharge from Point 3.

This reporting year had a large number of rainfall events that contributed significantly to the poor turbidity results shown. Additionally it was operationally necessary to bring a new drying bed online this year which needed time to mature, causing high turbidity and total suspended solids for a short time.

# Year Ending 14/8/2021 Meaningful Summary - Exceedances from Licensed Discharge Points

| Sample Point | Pollutant | Value | Units | Sampled Date | Comments |
|---|---|---|---|---|---|
| Point 1 | Turbidity | 6.8 | NTU | 19-10-20 | Due to rainfall on the two previous days, no plant discharge on this day. |
| Point 1 | Turbidity | 7.2 | NTU | 26-10-20 | Due to high rainfall this day & two previous days. No plant discharge on this day. |
| Point 1 | Turbidity | 5.9 | NTU | 02-11-20 | Due to rainfall on the two previous days, no plant discharge on this day. |
| Point 1 | Turbidity | 7.1 | NTU | 09-11-20 | Due to rain two days before. No plant discharge on this day. |
| Point 1 | Turbidity | 21.2 | NTU | 30-11-20 | Due to first use of a new drying bed with new media & sand on this day. |
| Point 1 | Total Suspended Solids | 30 | mg/L | 30-11-20 | Due to first use of a new drying bed with new media & sand on this day. |