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

Units		Monitoring Detection			Statistics for 2021						Exceedances	
	Frequency	Limit	Count	Min.	Mean	Median	Max.	Min.	Max.	90%*	Count	Comments
Discharge from Sludge Drying Beds												
mg/L	Special A	0.02	12	0.06	0.74	0.32	4.74	_	_	_	0	no exceedances
mg/L	Special A	0.03	12	< 0.03	0.02	< 0.03	0.03	_	0.1	_	0	no exceedances
рН	Special A	_	12	6.80	7.29	7.37	7.82	6.5	8.5	_	0	no exceedances
mg/L	Special A	2	12	<2	4.92	1.50	30.00	_	10	_	1	new drying bed
NTU	Special A	0.3	12	0.50	4.76	2.55	21.20	_	_	5	41.67%	new drying bed & high rainfall
Ambient Monitoring of Queanbeyan River												
NTU	Special C	0.3	12	5.20	6.04	5.85	9.10	_	_	_	0	no exceedances
Discharge from Clear Water Storage												
mg/L	Special B	0.03	0	_	_	_	_	_	0.1	_	0	no sampling required
рН	Special B	_	0	_	_	_	_	6.5	8.5	_	0	no sampling required
mg/L	Special B	2	0	_	_	_	_	_	10	_	0	no sampling required
NTU	Special B	0.3	0	_	_	_	_	_	5	_	0	no sampling required
mbient N	Monitoring o	f Googong	Creek									
NTU	Special C	0.3	0	_	_	_	_	_	_	_	0	no sampling required
r r l n l is r l n l	ng/L ng/L pH ng/L NTU nbient I NTU scharge ng/L pH ng/L NTU nbient I NTU	mg/L Special A mg/L Special A pH Special A mg/L Special A mg/L Special A mg/L Special A MTU Special A MTU Special A MDI Special C Scharge from Clear mg/L Special B pH Special B mg/L Special B MTU Special B MDI Special C	mg/L Special A 0.02 mg/L Special A 0.03 pH Special A 0.3 mg/L Special A 0.03 pH Special A 2 NTU Special A 0.3 mbient Monitoring of Queanbey NTU Special C 0.3 scharge from Clear Water Stora mg/L Special B 0.03 pH Special B 0.03 pH Special B 2 NTU Special B 0.3 mbient Monitoring of Googong NTU Special C 0.3	scharge from Sludge Drying Beds mg/L Special A 0.02 12 mg/L Special A 0.03 12 pH Special A — 12 mg/L Special A 2 12 NTU Special A 0.3 12 nbient Monitoring of Queanbeyan Rive NTU Special C 0.3 12 scharge from Clear Water Storage mg/L Special B 0.03 0 pH Special B — 0 0 mg/L Special B 2 0 NTU Special B 0.3 0 nbient Monitoring of Googong Creek NTU Special C 0.3 0	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 mg/L Special A 0.03 12 <0.03 pH Special A — 12 6.80 mg/L Special A 2 12 <2 NTU Special A 0.3 12 0.50 nbient Monitoring of Queanbeyan River NTU Special C 0.3 12 5.20 scharge from Clear Water Storage mg/L Special B 0.03 0 — mg/L Special B — 0 — mg/L Special B 2 0 — NTU Special B 0.3 0 — nbient Monitoring of Googong Creek NTU Special C 0.3 0 —	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 mg/L Special A 0.03 12 <0.03 0.02 pH Special A — 12 6.80 7.29 mg/L Special A 2 12 <2 4.92 NTU Special A 0.3 12 0.50 4.76 nbient Monitoring of Queanbeyan River NTU Special C 0.3 12 5.20 6.04 scharge from Clear Water Storage mg/L Special B 0.03 0 — — mg/L Special B — 0 — — ng/L Special B 2 0 — — NTU Special B 0.3 0 — — nbient Monitoring of Googong Creek NTU Special C 0.3 0 — —	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 0.32 mg/L Special A 0.03 12 <0.03 0.02 <0.03 pH Special A — 12 6.80 7.29 7.37 mg/L Special A 2 12 <2 4.92 1.50 NTU Special A 0.3 12 0.50 4.76 2.55 nbient Monitoring of Queanbeyan River NTU Special C 0.3 12 5.20 6.04 5.85 scharge from Clear Water Storage mg/L Special B 0.03 0 — — — mg/L Special B — 0 — — — NTU Special B 0.3 0 — — — NTU Special C 0.3 0 — — — ng/L Special B 0.0 — — —	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 0.32 4.74 mg/L Special A 0.03 12 <0.03 0.02 <0.03 0.03 pH Special A — 12 6.80 7.29 7.37 7.82 mg/L Special A 2 12 <2 4.92 1.50 30.00 NTU Special A 0.3 12 0.50 4.76 2.55 21.20 mbient Monitoring of Queanbeyan River NTU Special C 0.3 12 5.20 6.04 5.85 9.10 scharge from Clear Water Storage mg/L Special B 0.03 0 — — — pH Special B 2 0 — — — NTU Special B 0.3 0 — — — NTU Special C 0.3 0 — — —	Scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 0.32 4.74 — mg/L Special A 0.03 12 <0.03 0.02 <0.03 0.03 — pH Special A — 12 6.80 7.29 7.37 7.82 6.5 mg/L Special A 2 12 <2 4.92 1.50 30.00 — NTU Special A 0.3 12 0.50 4.76 2.55 21.20 — mbient Monitoring of Queanbeyan River NTU Special C 0.3 12 5.20 6.04 5.85 9.10 — scharge from Clear Water Storage mg/L Special B 0.03 0 — — — — 6.5 mg/L Special B 2 0 — — — 6.5 mg/L Special B 2 0 — — — — MTU Special B 0.3 0 — — — — — mbient Monitoring of Googong Creek NTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — MTU Special C 0.3 0 — — — — — — MTU Special C 0.3 0 — — — — — —	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 0.32 4.74 — — mg/L Special A 0.03 12 <0.03 0.02 <0.03 0.03 — 0.1 pH Special A — 12 6.80 7.29 7.37 7.82 6.5 8.5 mg/L Special A 2 12 <2 4.92 1.50 30.00 — 10 NTU Special A 0.3 12 0.50 4.76 2.55 21.20 — — NTU Special C 0.3 12 5.20 6.04 5.85 9.10 — — scharge from Clear Water Storage mg/L Special B 0.03 0 — — — 0.1 pH Special B 2 0 — — — 0.5 8.5 mg/L Special B 0.3 0 — —	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 0.32 4.74 — — — mg/L Special A 0.03 12 <0.03 0.02 <0.03 0.03 — 0.1 — pH Special A — 12 6.80 7.29 7.37 7.82 6.5 8.5 — mg/L Special A 2 12 <2 4.92 1.50 30.00 — 10 — NTU Special A 0.3 12 0.50 4.76 2.55 21.20 — — 5 nbient Monitoring of Queanbeyan River NTU Special B 0.03 0 —	scharge from Sludge Drying Beds mg/L Special A 0.02 12 0.06 0.74 0.32 4.74 — — 0 mg/L Special A 0.03 12 <0.03 0.02 <0.03 0.03 — 0.1 — 0 pH Special A — 12 6.80 7.29 7.37 7.82 6.5 8.5 — 0 mg/L Special A 2 12 <2 4.92 1.50 30.00 — 10 — 1 NTU Special A 0.3 12 0.50 4.76 2.55 21.20 — 5 41.67% nbient Monitoring of Queanbeyan River NTU Special B 0.03 0 — — — 0 — — 0 scharge from Clear Water Storage mg/L Special B — 0 — — — — 0.1 —

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

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.

^{* 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%.

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.