

# Cronulla Wastewater Treatment Plant

## 2017-18 Pollution monitoring yearly limit summaries



### EPL 1728

Summary period: 01-07-2017 to 30-06-2018

Date published: 14-09-2018

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

| 50 percentile yearly summary           |                 |                                            |                   |                |                |                     |                     |               |
|----------------------------------------|-----------------|--------------------------------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 3<br>Site code CR0003        |                 | Point description: Inlet to the UV chamber |                   |                |                |                     |                     |               |
| pollutant                              | unit of measure | sampling frequency                         | number of samples | minimum result | maximum result | 50 percentile limit | 50 percentile value | within limits |
| carbonaceous biochemical oxygen demand | mg/L            | every 6 days                               | 61                | <2             | 7              | 15                  | <2                  | yes           |
| oil and grease                         | mg/L            | every 6 days                               | 61                | <5             | <5             | 5                   | <5                  | yes           |
| total suspended solids                 | mg/L            | every 6 days                               | 61                | <2             | 13             | 10                  | <2                  | yes           |

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| 90 percentile yearly summary           |                 |                                            |                   |                |                |                     |                     |               |
|----------------------------------------|-----------------|--------------------------------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 3<br>Site code CR0003        |                 | Point description: Inlet to the UV chamber |                   |                |                |                     |                     |               |
| pollutant                              | unit of measure | sampling frequency                         | number of samples | minimum result | maximum result | 90 percentile limit | 90 percentile value | within limits |
| aluminium                              | ug/L            | monthly                                    | 12                | 23             | 106            | 1,600               | 38                  | yes           |
| carbonaceous biochemical oxygen demand | mg/L            | every 6 days                               | 61                | <2             | 7              | 20                  | <2                  | yes           |
| chlorpyrifos                           | ug/L            | monthly                                    | 12                | <0.05          | <0.05          | 8.5                 | <0.05               | yes           |
| copper                                 | ug/L            | monthly                                    | 12                | 3.2            | 11.3           | 2,800               | 9.8                 | yes           |
| cyanide                                | ug/L            | monthly                                    | 12                | <5             | <5             | 460                 | <5                  | yes           |
| diazinon                               | ug/L            | monthly                                    | 12                | <0.1           | <0.1           | 9.3                 | <0.1                | yes           |
| nitrogen (ammonia)                     | mg/L            | monthly                                    | 12                | 3.8            | 24.2           | 85.7                | 17.2                | yes           |
| nonylphenol ethoxylate                 | ug/L            | monthly                                    | 12                | <5             | 9              | 1,500               | <5                  | yes           |
| oil and grease                         | mg/L            | every 6 days                               | 61                | <5             | <5             | 8                   | <5                  | yes           |
| total suspended solids                 | mg/L            | every 6 days                               | 61                | <2             | 13             | 15                  | 3                   | yes           |
| zinc                                   | ug/L            | monthly                                    | 12                | 22             | 35             | 1,400               | 34                  | yes           |

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| Average yearly summary          |                 |                                            |                   |                |                |               |               |               |
|---------------------------------|-----------------|--------------------------------------------|-------------------|----------------|----------------|---------------|---------------|---------------|
| EPA Point 3<br>Site code CR0003 |                 | Point description: Inlet to the UV chamber |                   |                |                |               |               |               |
| pollutant                       | unit of measure | sampling frequency                         | number of samples | minimum result | maximum result | Average Limit | Average value | within limits |
| aluminium                       | ug/L            | monthly                                    | 12                | 23             | 106            | 330           | 37            | yes           |
| chlorpyrifos                    | ug/L            | monthly                                    | 12                | <0.05          | <0.05          | 0.5           | <0.05         | yes           |
| copper                          | ug/L            | monthly                                    | 12                | 3.2            | 11.3           | 250           | 6             | yes           |
| cyanide                         | ug/L            | monthly                                    | 12                | <5             | <5             | 250           | <5            | yes           |
| diazinon                        | ug/L            | monthly                                    | 12                | <0.1           | <0.1           | 0.7           | <0.1          | yes           |
| nitrogen (ammonia)              | mg/L            | monthly                                    | 12                | 3.8            | 24.2           | 45.7          | 10.66         | yes           |
| nonylphenol ethoxylate          | ug/L            | monthly                                    | 12                | <5             | 9              | 450           | <5            | yes           |
| zinc                            | ug/L            | monthly                                    | 12                | 22             | 35             | 800           | 28            | yes           |

| 50 percentile yearly summary     |                 |                                             |                   |                |                |                     |                     |               |
|----------------------------------|-----------------|---------------------------------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 17<br>Site code CR0017 |                 | Point description: Outlet of the UV chamber |                   |                |                |                     |                     |               |
| pollutant                        | unit of measure | sampling frequency                          | number of samples | minimum result | maximum result | 50 percentile limit | 50 percentile value | within limits |
| faecal coliforms                 | CFU/100mL       | every 6 days                                | 60                | <1             | 4,800          | 200                 | 14                  | yes           |

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| 90 percentile yearly summary     |                 |                                             |                   |                |                |                     |                     |               |
|----------------------------------|-----------------|---------------------------------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 17<br>Site code CR0017 |                 | Point description: Outlet of the UV chamber |                   |                |                |                     |                     |               |
| pollutant                        | unit of measure | sampling frequency                          | number of samples | minimum result | maximum result | 90 percentile limit | 90 percentile value | within limits |
| hydrogen sulphide (unionised)    | ug/L            | monthly                                     | 12                | <30            | 239            | 7,800               | <30                 | yes           |

| 90 percentile yearly summary     |                 |                                             |                   |                |                |                     |                     |               |
|----------------------------------|-----------------|---------------------------------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 17<br>Site code CR0017 |                 | Point description: Outlet of the UV chamber |                   |                |                |                     |                     |               |
| pollutant                        | unit of measure | sampling frequency                          | number of samples | minimum result | maximum result | 90 percentile limit | 90 percentile value | within limits |
| sea urchin fertilisation (EC50)  | % Effluent/Vol  | monthly                                     | 12                | 100            | 100            | 0.19                | 100                 | yes           |

| Average yearly summary           |                 |                                             |                   |                |                |               |               |               |
|----------------------------------|-----------------|---------------------------------------------|-------------------|----------------|----------------|---------------|---------------|---------------|
| EPA Point 17<br>Site code CR0017 |                 | Point description: Outlet of the UV chamber |                   |                |                |               |               |               |
| pollutant                        | unit of measure | sampling frequency                          | number of samples | minimum result | maximum result | Average Limit | Average value | within limits |
| hydrogen sulphide (unionised)    | ug/L            | monthly                                     | 12                | <30            | 239            | 1,300         | 34            | yes           |
| sea urchin fertilisation (EC50)  | % Effluent/Vol  | monthly                                     | 12                | 100            | 100            | 1.53          | 100           | yes           |