



# EPL Monitoring

Licence Holder: Metal Manufactures Limited

Gloucester Boulevard, Port Kembla NSW 2505

EPL Number: 6158

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## Stormwater Monitoring Results

| Sample Date | Results Obtained | Published  | pH  |     |     |     |     | Total Suspended Solids (mg/L) |      |      |       |      | Oil and Grease (mg/L) |     |     |     |     |
|-------------|------------------|------------|-----|-----|-----|-----|-----|-------------------------------|------|------|-------|------|-----------------------|-----|-----|-----|-----|
|             |                  |            | 1A  | 1B  | 2   | 3   | 4   | 1A                            | 1B   | 2    | 3     | 4    | 1A                    | 1B  | 2   | 3   | 4   |
| 18/08/2020  | 27/08/2020       | 7/09/2020  | 7.0 | 7.8 | 8.0 | 7.7 | 8.0 | <5                            | <5   | <5   | 150.0 | 8.0  | <5                    | <5  | <5  | <5  | <5  |
| 28/08/2020  | 4/09/2020        | 7/09/2020  | 7.4 | 8.1 | 8.0 | 8.0 | 8.3 | <5                            | <5   | <5   | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 15/09/2020  | 24/09/2020       | 6/10/2020  | 7.3 | 8.0 | 7.8 | 8.2 | 8.2 | <5                            | <5   | <5   | 6.0   | <5   | <5                    | <5  | <5  | <5  | <5  |
| 29/09/2020  | 8/10/2020        | 19/10/2020 | 7.6 | 8.2 | 8.1 | 8.3 | 8.4 | 5.0                           | <5   | 5.0  | <5    | 18.0 | <5                    | <5  | <5  | <5  | <5  |
| 13/10/2020  | 22/10/2020       | 30/10/2020 | 7.7 | 8.3 | 8.3 | 8.4 | 8.5 | <5                            | 5.0  | 5.0  | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 28/10/2020  | 6/11/2020        | 6/11/2020  | 7.6 | 7.7 | 8.0 | 8.1 | 8.2 | <5                            | <5   | 8.0  | 10.0  | 12.0 | <5                    | <5  | <5  | <5  | <5  |
| 12/11/2020  | 19/11/2020       | 20/11/2020 | 7.6 | 8.1 | 8.3 | 8.4 | 8.4 | <5                            | <5   | 6.0  | 5.0   | 24.0 | <5                    | <5  | <5  | <5  | <5  |
| 25/11/2020  | 3/12/2020        | 3/12/2020  | 7.6 | 8.1 | 8.1 | 8.1 | 8.4 | 5.0                           | 6.0  | <5   | <5    | 42.0 | <5                    | <5  | <5  | <5  | <5  |
| 10/12/2020  | 18/12/2020       | 18/12/2020 | 7.5 | 8.2 | 8.1 | 8.4 | 8.4 | <5                            | <5   | 6.0  | 8.0   | 32.0 | <5                    | <5  | <5  | <5  | <5  |
| 22/12/2020  | 7/01/2021        | 18/01/2021 | 7.6 | 7.7 | 8.1 | 7.8 | 8.2 | 6.0                           | <5   | <5   | 10.0  | 12.0 | <5                    | <5  | <5  | <5  | <5  |
| 19/01/2021  | 28/01/2021       | 29/01/2021 | 7.3 | 8.0 | 7.9 | 7.9 | 8.2 | 8.0                           | 12.0 | 13.0 | 60.0  | 21.0 | <5                    | 5.0 | <5  | <5  | <5  |
| 28/01/2021  | 5/02/2021        | 8/02/2021  | 7.4 | 7.8 | 8.0 | 7.7 | 8.3 | <5                            | <5   | <5   | 6.0   | 11.0 | 6.0                   | 6.0 | 6.0 | 6.0 | 8.0 |
| 9/02/2021   | 18/02/2021       | 22/02/2021 | 7.5 | 8.1 | 8.2 | 8.1 | 8.4 | 6.0                           | <5   | <5   | <5    | 8.0  | <5                    | <5  | <5  | <5  | <5  |
| 25/02/2021  | 5/03/2021        | 8/03/2021  | 8.3 | 8.4 | 8.4 | 8.3 | 8.6 | <5                            | <5   | <5   | 10.0  | 10.0 | <5                    | <5  | <5  | <5  | <5  |
| 10/03/2021  | 18/03/2021       | 26/03/2021 | 7.5 | 8.1 | 8.3 | 8.3 | 8.4 | <5                            | <5   | 10.0 | 10.0  | 6.0  | <5                    | <5  | <5  | <5  | <5  |
| 25/03/2021  | 1/04/2021        | 9/04/2021  | 7.8 | 7.7 | 8.2 | 8.0 | 8.2 | <5                            | <5   | 48.0 | <5    | 54.0 | <5                    | <5  | <5  | <5  | <5  |
| 14/04/2021  | 22/04/2021       | 10/04/2021 | 7.2 | 8.0 | 7.9 | 8.1 | 8.0 | 28.0                          | <5   | <5   | 16.0  | 6.0  | <5                    | <5  | <5  | <5  | <5  |
| 27/04/2021  | 4/05/2021        | 6/05/2021  | 7.7 | 8.1 | 8.2 | 8.2 | 8.3 | <5                            | <5   | <5   | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 11/05/2021  | 20/05/2021       | 24/05/2021 | 7.5 | 8.0 | 8.3 | 8.3 | 8.3 | <5                            | <5   | <5   | 18.0  | 20.0 | <5                    | <5  | <5  | <5  | <5  |
| 26/05/2021  | 3/06/2021        | 7/06/2021  | 7.9 | 8.2 | 8.3 | 8.2 | 8.2 | 8.0                           | <5   | <5   | <5    | 8.0  | <5                    | <5  | <5  | <5  | <5  |
| 10/06/2021  | 21/06/2021       | 28/06/2021 | 7.6 | 8.1 | 8.0 | 8.4 | 8.3 | <5                            | <5   | <5   | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 3/06/2021   | 7/07/2021        | 19/06/2021 | 7.5 | 8.0 | 8.0 | 7.8 | 8.3 | <5                            | <5   | <5   | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 15/07/2021  | 23/07/2021       | 5/08/2021  | 7.7 | 8.1 | 8.2 | 8.3 | 8.4 | <5                            | <5   | <5   | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 28/07/2021  | 5/08/2021        | 5/08/2021  | 7.5 | 8.1 | 8.0 | 8.4 | 8.4 | 5.0                           | <5   | <5   | 5.0   | 10.0 | <5                    | <5  | <5  | <5  | <5  |
| 16/08/2021  | 23/08/2021       | 7/09/2021  | 7.4 | 7.9 | 7.9 | 8.2 | 8.2 | 5.0                           | <5   | <5   | <5    | <5   | <5                    | <5  | <5  | <5  | <5  |
| 30/08/2021  | 3/09/2021        | 17/09/2021 | 7.6 | 8.1 | 8.1 | 8.3 | 8.3 | <5                            | <5   | <5   | 6.0   | <5   | <5                    | <5  | <5  | <5  | <5  |

**Stormwater Monitoring Results - Continued**

| Sample Date | Results Obtained | Published  | pH  |     |     |     |     | Total Suspended Solids (mg/L) |     |      |      |       | Oil and Grease (mg/L) |     |    |      |      |
|-------------|------------------|------------|-----|-----|-----|-----|-----|-------------------------------|-----|------|------|-------|-----------------------|-----|----|------|------|
|             |                  |            | 1A  | 1B  | 2   | 3   | 4   | 1A                            | 1B  | 2    | 3    | 4     | 1A                    | 1B  | 2  | 3    | 4    |
| 22/09/2021  | 30/09/2021       | 30/09/2021 | 7.5 | 8.1 | 8.0 | 8.3 | 8.3 | 9.0                           | 7.0 | <5   | <5   | 35.0  | <5                    | <5  | <5 | <5   | <5   |
| 30/09/2021  | 8/10/2021        | 20/10/2021 | 7.7 | 8.2 | 8.1 | 8.4 | 8.4 | <5                            | 8.0 | <5   | <5   | 6.0   | <5                    | <5  | <5 | <5   | <5   |
| 20/10/2021  | 28/10/2021       | 1/11/2021  | 7.8 | 8.4 | 8.2 | 8.1 | 8.5 | 6.0                           | <5  | <5   | <5   | 100.0 | <5                    | <5  | <5 | <5   | <5   |
| 28/10/2021  | 5/11/2021        | 19/11/2021 | 7.5 | 8.0 | 8.1 | 8.3 | 8.4 | <5                            | <5  | 6.0  | 6.0  | 10.0  | <5                    | <5  | <5 | <5   | <5   |
| 16/11/2021  | 19/11/2021       | 19/11/2021 | 7.5 | 8.0 | 8.2 | 8.2 | 8.4 | <5                            | <5  | <5   | 87.0 | 9.0   | <5                    | <5  | <5 | <5   | <5   |
| 30/11/2021  | 7/12/2021        | 20/12/2021 | 7.3 | 7.7 | 7.9 | 8.1 | 8.1 | 18.0                          | <5  | <5   | 16.0 | 18.0  | <5                    | <5  | <5 | <5   | <5   |
| 9/12/2021   | 17/12/2021       | 20/12/2021 | 7.0 | 7.7 | 7.6 | 7.4 | 7.9 | <5                            | <5  | <5   | <5   | 7.0   | <5                    | <5  | <5 | <5   | <5   |
| 22/12/2021  | 10/01/2022       | 11/01/2022 | 7.3 | 7.9 | 8.1 | 8.1 | 8.3 | <5                            | <5  | <5   | <5   | <5    | <5                    | <5  | <5 | <5   | <5   |
| 25/01/2022  | 1/02/2022        | 1/02/2022  | 7.6 | 7.6 | 8.1 | 8.2 | 8.3 | <5                            | <5  | <5   | 10.0 | 6.0   | <5                    | <5  | <5 | <5   | <5   |
| 31/01/2022  | 7/02/2022        | 11/02/2022 | 7.3 | 7.9 | 8.1 | 8.2 | 8.3 | <5                            | <5  | <5   | 10.0 | 8.0   | <5                    | <5  | <5 | <5   | 12.0 |
| 17/02/2022  | 25/02/2022       | 1/03/2022  | 7.8 | 7.5 | 8.2 | 8.2 | 8.3 | <5                            | <5  | <5   | 8.0  | 12.0  | <5                    | <5  | <5 | <5   | 7.0  |
| 28/02/2022  | 8/03/2022        | 14/03/2022 | 7.5 | 7.5 | 7.8 | 7.9 | 8.0 | <5                            | <5  | 8.0  | 7.0  | 96.0  | <5                    | <5  | <5 | <5   | <5   |
| 14/03/2022  | 24/03/2022       | 25/03/2022 | 7.2 | 7.8 | 8.1 | 8.0 | 8.2 | <5                            | <5  | 14.0 | 12.0 | <5    | <5                    | 6.0 | <5 | 8.0  | 9.0  |
| 30/03/2022  | 7/04/2022        | 11/04/2022 | 7.4 | 7.6 | 8.0 | 7.9 | 8.0 | <5                            | <5  | <5   | 12.0 | 210.0 | <5                    | <5  | <5 | <5   | <5   |
| 29/04/2022  | 6/05/2022        | 10/05/2022 | 7.3 | 7.7 | 7.9 | 7.7 | 8.0 | <5                            | <5  | <5   | <5   | 20.0  | <5                    | <5  | <5 | <5   | <5   |
| 12/05/2022  | 23/05/2022       | 26/05/2022 | 7.5 | 7.6 | 7.9 | 7.9 | 7.7 | <5                            | <5  | 8.0  | 8.0  | 30.0  | <5                    | <5  | <5 | <5   | <5   |
| 24/05/2022  | 2/06/2022        | 10/06/2022 | 7.4 | 7.5 | 7.9 | 7.8 | 8.0 | <5                            | <5  | 5.0  | 10.0 | 59.0  | <5                    | <5  | <5 | <5   | <5   |
| 31/05/2022  | 9/06/2022        | 10/06/2022 | 7.5 | 8.2 | 8.2 | 8.2 | 8.3 | <5                            | <5  | <5   | 5.0  | 19.0  | <5                    | <5  | <5 | 15.0 | <5   |
| 9/06/2022   | 21/06/2022       | 30/06/2022 | 7.5 | 8.1 | 8.0 | 8.1 | 8.3 | 11.0                          | <5  | 24.0 | 20.0 | 29.0  | <5                    | <5  | <5 | <5   | <5   |
| 29/06/2022  | 7/07/2022        | 12/07/2022 | 7.7 | 8.1 | 8.1 | 8.0 | 8.2 | 16.0                          | <5  | <5   | 18.0 | <5    | <5                    | <5  | <5 | <5   | <5   |
| 12/07/2022  | 18/07/2022       | 13/07/2022 | 7.6 | 8.1 | 8.1 | 8.1 | 8.2 | 13.0                          | <5  | <5   | 10.0 | <5    | <5                    | <5  | <5 | 5.0  | <5   |
| 27/07/2022  | 4/08/2022        | 16/08/2022 | 7.4 | 8.1 | 8.3 | 8.2 | 8.3 | 12.0                          | <5  | <5   | 12.0 | 21.0  | <5                    | <5  | <5 | <5   | <5   |
| 16/08/2022  | 24/08/2022       | 7/09/2022  | 7.5 | 8.1 | 8.2 | 8.1 | 8.3 | <5                            | <5  | <5   | <5   | 7.0   | <5                    | <5  | <5 | <5   | <5   |
| 30/08/2022  | 7/09/2022        | 7/09/2022  | 7.4 | 8.1 | 8.0 | 7.6 | 8.0 | <5                            | <5  | <5   | <5   | 39.0  | <5                    | <5  | <5 | <5   | <5   |
| 7/09/2022   | 15/09/2022       | 15/09/2022 | 8.1 | 7.8 | 8.3 | 8.2 | 8.4 | <5                            | <5  | <5   | <5   | <5    | <5                    | <5  | <5 | <5   | <5   |

Only one sample taken during April 2022 due to training of new staff and overlapping annual leave around the plant shut. Additional samples taken during May 2022

**Stormwater Monitoring Results - Continued**

| Sample Date | Results Obtained | Published  | pH  |     |     |     |     | Total Suspended Solids (mg/L) |     |      |      |      | Oil and Grease (mg/L) |    |     |      |     |
|-------------|------------------|------------|-----|-----|-----|-----|-----|-------------------------------|-----|------|------|------|-----------------------|----|-----|------|-----|
|             |                  |            | 1A  | 1B  | 2   | 3   | 4   | 1A                            | 1B  | 2    | 3    | 4    | 1A                    | 1B | 2   | 3    | 4   |
| 21/09/2022  | 30/09/2022       | 4/10/2022  | 7.5 | 8.1 | 8.0 | 7.9 | 8.3 | 15.0                          | <5  | 6.0  | 8.0  | <5   | <5                    | <5 | <5  | <5   | <5  |
| 13/10/2022  | 20/10/2022       | 24/10/2022 | 7.4 | 7.8 | 8.2 | 8.0 | 8.1 | <5                            | <5  | <5   | 12.0 | 12.0 | <5                    | <5 | <5  | <5   | <5  |
| 26/10/2022  | 3/11/2022        | 10/11/2022 | 7.5 | 7.7 | 8.1 | 8.1 | 8.2 | <5                            | <5  | <5   | 12.0 | 76.0 | <5                    | <5 | <5  | <5   | <5  |
| 9/11/2022   | 18/11/2022       | 2/12/2022  | 7.2 | 8.0 | 8.2 | 8.2 | 8.3 | <5                            | <5  | <5   | <5   | <5   | <5                    | <5 | <5  | <5   | <5  |
| 23/11/2022  | 2/12/2022        | 2/12/2022  | 7.3 | 8.0 | 8.1 | 8.2 | 8.3 | <5                            | <5  | <5   | 12.0 | 22.0 | <5                    | <5 | <5  | <5   | <5  |
| 7/12/2022   | 16/12/2022       | 16/12/2022 | 7.4 | 8.1 | 8.1 | 8.3 | 8.4 | 6.0                           | <5  | <5   | <5   | 6.0  | <5                    | <5 | <5  | <5   | <5  |
| 21/12/2022  | 10/01/2022       | 16/01/2023 | 7.4 | 8.1 | 8.1 | 8.3 | 8.4 | 6.0                           | <5  | <5   | <5   | 16.0 | <5                    | <5 | <5  | <5   | <5  |
| 3/01/2023   | 11/01/2023       | 20/01/2023 | 7.5 | 7.9 | 8.2 | 8.3 | 8.3 | <5                            | <5  | <5   | 5.0  | 75.0 | <5                    | <5 | <5  | <5   | 9.0 |
| 19/01/2023  | 27/01/2023       | 31/01/2023 | 7.7 | 8.2 | 8.2 | 8.3 | 8.4 | <5                            | <5  | <5   | <5   | <5   | <5                    | <5 | <5  | <5   | <5  |
| 8/02/2023   | 17/02/2023       | 24/02/2023 | 7.3 | 8.0 | 8.3 | 8.2 | 8.4 | <5                            | <5  | <5   | <5   | 10.0 | <5                    | <5 | <5  | <5   | <5  |
| 28/02/2023  | 9/03/2022        | 9/03/2023  | 7.3 | 8.0 | 8.1 | 8.2 | 8.3 | <5                            | <5  | <5   | <5   | 86.0 | <5                    | <5 | <5  | <5   | 5.0 |
| 15/03/2023  | 24/03/2023       | 3/04/2023  | 7.7 | 7.8 | 8.1 | 8.1 | 8.2 | 6.0                           | <5  | <5   | 19.0 | 12.0 | <5                    | <5 | 6.0 | <5   | <5  |
| 29/03/2023  | 11/04/2023       | 12/04/2023 | 7.4 | 8.0 | 8.2 | 7.9 | 8.0 | <5                            | <5  | 48.0 | <5   | 12.0 | <5                    | <5 | <5  | <5   | <15 |
| 12/04/2023  | 21/04/2023       | 24/04/2023 | 7.4 | 8.1 | 8.2 | 8.2 | 8.3 | <4                            | <5  | <5   | <5   | 14.0 | <5                    | <5 | 5.0 | <5   | <5  |
| 26/04/2023  | 8/05/2023        | 12/05/2023 | 7.3 | 7.9 | 8.1 | 8.0 | 8.2 | <5                            | 8.0 | <5   | 11.0 | 48.0 | <5                    | <5 | <5  | 13.0 | <5  |
| 4/05/2023   | 12/05/2023       | 12/05/2023 | 7.2 | 7.8 | 7.9 | 7.9 | 8.1 | <5                            | <5  | <5   | 18.0 | <5   | <5                    | <5 | <5  | 27.0 | <5  |
| 31/05/2023  | 9/06/2023        | 19/06/2023 | 7.3 | 8.0 | 7.9 | 8.2 | 8.4 | <5                            | <5  | 8.0  | <5   | 12.0 | <5                    | <5 | <5  | <5   | <5  |
| 14/06/2023  | 23/06/2023       | 26/06/2023 | 7.3 | 8.0 | 8.1 | 8.2 | 8.3 | 8.0                           | <5  | 15.0 | <5   | <5   | <5                    | <5 | <5  | <5   | <5  |
| 27/06/2023  | 6/07/2023        | 20/07/2023 | 7.2 | 7.9 | 8.0 | 8.1 | 8.3 | <5                            | <5  | <5   | 8.0  | 14.0 | <5                    | <5 | <5  | <5   | <5  |
| 11/07/2023  | 20/07/2023       | 31/07/2023 | 7.2 | 8.0 | 8.0 | 8.2 | 8.4 | <5                            | <5  | 8.0  | 6.0  | 15.0 | <5                    | <5 | <5  | <5   | <5  |
| 26/07/2023  | 17/08/2023       | 14/08/2023 | 7.2 | 7.9 | 7.6 | 7.9 | 8.2 | <5                            | <5  | 38.0 | <5   | <5   | <5                    | <5 | <5  | <5   | <5  |
| 10/08/2023  | 17/08/2023       | 18/08/2023 | 7.9 | 8.3 | 8.3 | 8.3 | 8.6 | <5                            | <5  | <5   | 6.0  | 8.0  | <5                    | <5 | <5  | <5   | <5  |
| 23/08/2023  | 31/08/2023       | 14/09/2023 | 7.3 | 8.1 | 7.8 | 7.6 | 8.3 | <5                            | <5  | <5   | 16.0 | 82.0 | <5                    | <5 | <5  | <5   | <5  |
| 14/09/2023  | 22/09/2023       | 5/10/2023  | 7.6 | 8.2 | 8.1 | 7.9 | 8.5 | 5.0                           | <5  | <5   | 72.0 | 11.0 | <5                    | <5 | <5  | <5   | <5  |
| 28/09/2023  | 6/10/2023        | 6/10/2023  | 7.4 | 8.2 | 7.9 | 7.8 | 8.4 | 5.0                           | <5  | <5   | 8.0  | 22.0 | <5                    | <5 | <5  | <5   | <5  |
| 11/10/2023  | 19/10/2023       | 24/10/2023 | 7.4 | 8.2 | 8.2 | 8.2 | 8.4 | <5                            | <5  | <5   | <5   | 46.0 | <5                    | <5 | <5  | <5   | <5  |



## Stormwater Monitoring Results - Continued

| Sample Date | Results Obtained | Published  | pH  |     |     |     |     | Total Suspended Solids (mg/L) |      |      |      |        | Oil and Grease (mg/L) |     |     |      |     |
|-------------|------------------|------------|-----|-----|-----|-----|-----|-------------------------------|------|------|------|--------|-----------------------|-----|-----|------|-----|
|             |                  |            | 1A  | 1B  | 2   | 3   | 4   | 1A                            | 1B   | 2    | 3    | 4      | 1A                    | 1B  | 2   | 3    | 4   |
| 25/10/2023  | 2/11/2023        | 16/11/2023 | 7.1 | 8.1 | 8.0 | 8.2 | 8.3 | <5                            | 10.0 | <5   | <5   | 24.0   | <5                    | <5  | <5  | <5   | <5  |
| 9/11/2023   | 16/11/2023       | 16/11/2023 | 7.3 | 7.8 | 8.1 | 8.0 | 8.2 | <5                            | <5   | <5   | 9.0  | 98.0   | <5                    | <5  | <5  | <5   | <5  |
| 27/11/2023  | 6/12/2023        | 14/12/2023 | 7.4 | 8.0 | 8.2 | 8.3 | 8.4 | <5                            | <5   | <5   | 16.0 | 10.0   | <5                    | <5  | <5  | <5   | <5  |
| 7/12/2023   | 14/12/2023       | 22/12/2023 | 7.4 | 8.2 | 8.4 | 8.3 | 8.4 | 30.0                          | <5   | <5   | 14.0 | 25.0   | 11.0                  | <5  | <5  | <5   | 7.0 |
| 27/12/2023  | 10/01/2024       | 23/12/2023 | 7.6 | 7.6 | 8.2 | 8.1 | 7.9 | 8.0                           | <5   | <5   | 43.0 | 1300.0 | <5                    | <5  | <5  | <5   | 9.0 |
| 17/01/2024  | 25/01/2024       | 7/02/2024  | 7.5 | 8.3 | 8.2 | 8.0 | 8.5 | <5                            | <5   | <5   | <5   | 74.0   | <5                    | <5  | <5  | <5   | <5  |
| 31/01/2024  | 8/02/2024        | 22/02/2024 | 7.3 | 8.2 | 8.3 | 8.5 | 8.4 | 20.0                          | <5   | <5   | <5   | 6.0    | <5                    | <5  | <5  | <5   | <5  |
| 13/02/2024  | 21/02/2024       | 27/02/2024 | 7.1 | 8.0 | 8.3 | 8.4 | 8.5 | 47.0                          | <5   | <5   | <5   | <5     | 6.0                   | <5  | <5  | <5   | <5  |
| 29/05/2024  | 6/03/2024        | 19/03/2024 | 7.5 | 8.3 | 8.4 | 8.4 | 8.5 | 19.0                          | <5   | <5   | 13.0 | 15.0   | <10                   | <10 | <10 | <10  | <10 |
| 12/03/2024  | 20/03/2024       | 26/03/2024 | 7.1 | 8.3 | 8.3 | 8.4 | 8.5 | 24.0                          | <5   | <5   | <5   | 10.0   | <10                   | <10 | <10 | <10  | <10 |
| 27/03/2024  | 8/04/2024        | 22/04/2024 | 7.1 | 8.2 | 8.3 | 8.4 | 8.4 | 31.0                          | <5   | 5.0  | <5   | 8.0    | <10                   | <10 | <10 | <10  | <10 |
| 10/04/2024  | 19/04/2024       | 22/04/2024 | 7.5 | 8.2 | 8.4 | 8.2 | 8.4 | 10.0                          | <5   | <5   | 6.0  | 48.0   | <10                   | <10 | <10 | <10  | <10 |
| 30/04/2024  | 9/05/2024        | 20/05/2024 | 7.5 | 8.3 | 8.2 | 7.9 | 8.4 | 6.0                           | <5   | 6.0  | 46.0 | 9.0    | <10                   | <10 | <10 | <10  | <10 |
| 7/05/2024   | 16/05/2024       | 20/05/2024 | 7.5 | 7.8 | 8.1 | 7.9 | 8.0 | <5                            | <5   | <5   | 12.0 | 20.0   | <10                   | <10 | <10 | <10  | <10 |
| 29/05/2024  | 6/06/2024        | 18/06/2024 | 7.4 | 8.1 | 8.1 | 7.9 | 8.3 | <5                            | <5   | <5   | <5   | <5     | <5                    | <5  | <5  | <5   | <5  |
| 13/06/2024  | 24/06/2024       | 27/06/2024 | 7.0 | 7.9 | 7.8 | 7.9 | 8.2 | 18.0                          | <5   | <5   | 22.0 | <5     | <5                    | <5  | <5  | 11.0 | <5  |
| 26/06/2024  | 4/07/2024        | 12/07/2024 | 7.4 | 8.2 | 8.3 | 8.3 | 8.4 | 95.0                          | <5   | <5   | 5.0  | <5     | 8.0                   | <5  | <5  | <5   | <5  |
| 11/07/2024  | 19/07/2024       | 2/08/2024  | 7.4 | 8.1 | 8.3 | 8.2 | 8.2 | 110.0                         | <5   | 10.0 | 5.0  | 6.0    | 12.0                  | <5  | <5  | <5   | <5  |
| 30/07/2024  | 7/08/2024        | 14/08/2024 | 7.4 | 8.2 | 8.0 | 7.8 | 8.3 | 62.0                          | <5   | <5   | <5   | <5     | 14.0                  | 9.0 | <5  | <10  | <10 |
| 13/08/2024  | 20/08/2024       | 5/09/2024  | 7.1 | 8.0 | 7.9 | 7.7 | 8.0 | 20.0                          | <5   | <5   | <5   | 12.0   | <5                    | <5  | <5  | <5   | <5  |
| 29/08/2024  | 6/09/2024        | 18/09/2024 | 7.2 | 8.1 | 7.5 | 8.2 | 8.3 | 54.0                          | <5   | <5   | <5   | <5     | <5                    | <5  | <5  | <5   | <5  |
| 19/09/2024  | 27/09/2024       | 27/09/2024 | 6.9 | 8.1 | 7.7 | 8.1 | 8.3 | 77.0                          | <5   | 11.0 | 8.0  | <5     | 6.0                   | <5  | <5  | <5   | <5  |
| 30/09/2024  | 9/10/2024        | 14/10/2024 | 7.5 | 7.9 | 8.0 | 7.9 | 8.0 | <5                            | <5   | <5   | <5   | <5     | <5                    | <5  | <5  | <5   | <5  |
| 17/10/2024  | 25/10/2024       | 28/10/2024 | 7.1 | 8.1 | 8.0 | 8.2 | 8.3 | 34.0                          | <5   | <5   | 16.0 | 24.0   | <5                    | <5  | <5  | <5   | <5  |

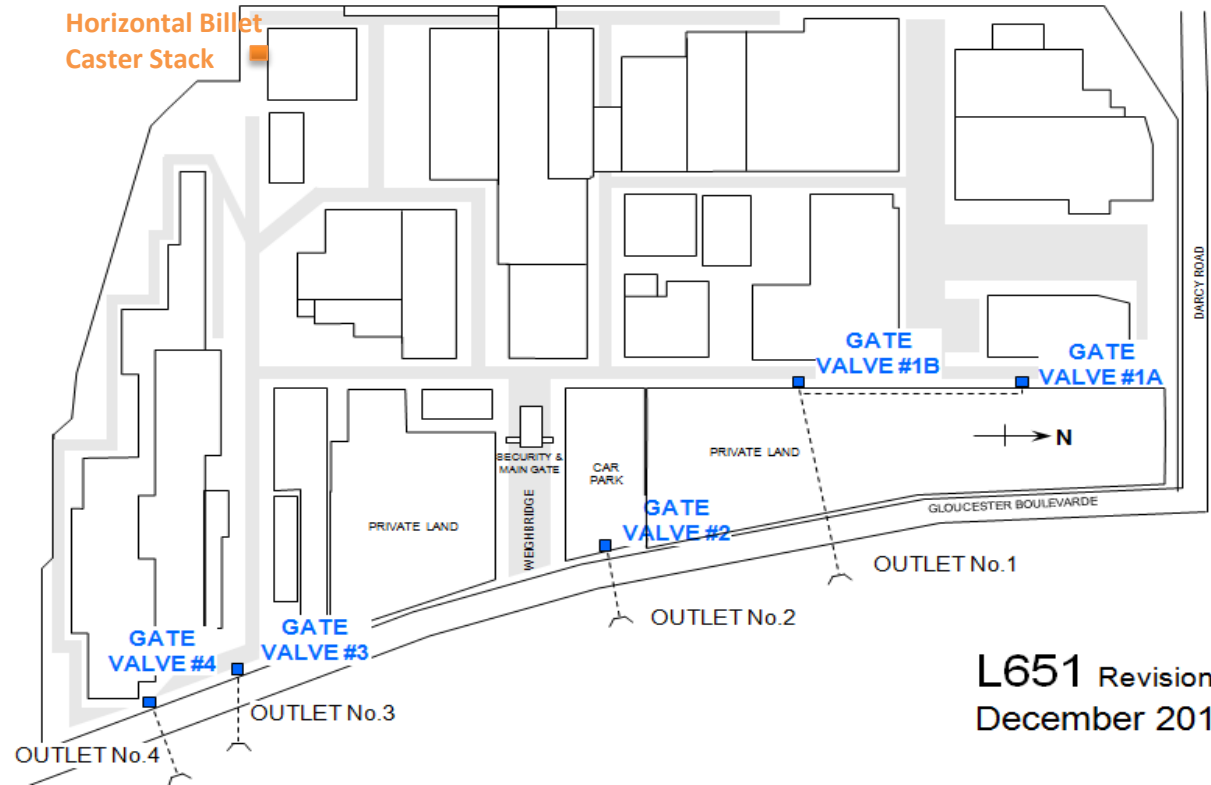
High Suspended Solids result on 27/12/23 was attributed to heavy rainfall on the day of sampling that had stirred up residual sediment in the base of the sampling pit

[illegible]

## Locality map



## Location of sampling points



**L651** Revision 0  
December 2010

**Air Emission Monitoring: Horizontal Billet Caster Stack**

| Pollutant                   | 100 percentile concentration limit | Units of Measure  | Testing Frequency | Sample Date 13th August 2015 | Sample Date 6th April 2016 | Sample Date 29th March 2017 | Sample Date 8th March 2018 |
|-----------------------------|------------------------------------|-------------------|-------------------|------------------------------|----------------------------|-----------------------------|----------------------------|
| Stack Temperature           | -                                  | °C                | Yearly            | 40                           | 63                         | 54                          | 59                         |
| Stack Velocity              | -                                  | m/s               | -                 | 10                           | 11                         | 11                          | 11                         |
| Stack Volumetric Flow       | -                                  | m <sup>3</sup> /s | Yearly            | 3.4                          | 3.6                        | 3.8                         | 3.7                        |
| Moisture                    | -                                  | %                 | Yearly            | 0.8                          | 1.2                        | 0.89                        | 0.63                       |
| Oxygen                      | -                                  | %                 | Yearly            | 20.7                         | 20.9                       | 20.8                        | 20.9                       |
| Dioxins & Furans (TEQ)      | 0.1                                | ng/m <sup>3</sup> | Yearly            | 0.003                        | 0.024                      | 0.018                       | 0.067                      |
| Cadmium                     | 0.2                                | mg/m <sup>3</sup> | Yearly            | 0.000017                     | <0.0001                    | <0.0001                     | <0.0002                    |
| Mercury                     | 0.2                                | mg/m <sup>3</sup> | Yearly            | 0.015                        | 0.024                      | 0.0014                      | 0.004                      |
| Type 1 Substances           | -                                  | mg/m <sup>3</sup> | -                 | 0.015                        | ≤ 0.027                    | ≤0.0034                     | ≤0.006                     |
| Total Type 1 + 2 Substances | 1                                  | mg/m <sup>3</sup> | Yearly            | 0.015                        | ≤ 0.031                    | ≤0.0066                     | ≤0.01                      |
| Nitrogen Oxides             | 350                                | mg/m <sup>3</sup> | Yearly            | 8.2                          | 8.2                        | 27                          | 3.9                        |
| Total Solid Particles       | 50                                 | mg/m <sup>3</sup> | Yearly            | <0.25                        | 2.3                        | 1.1                         | 1.2                        |
| VOCs as n-propane           | 40                                 | mg/m <sup>3</sup> | Yearly            | 0.28                         | 0.37                       | 0.12                        | 0.06                       |
| Results Obtained (date)     | -                                  | -                 | -                 | 4-Sep-15                     | 29-Apr-16                  | 8-May-17                    | 11-Apr-18                  |
| Results Published (date)    | -                                  | -                 | -                 | 14-Sep-15                    | 2-May-16                   | 8-May-17                    | 11-Apr-18                  |

**Notes: Air Emission**

*Special Frequency 3 means "during each stack emission test"*

*Milligrams per cubic metre is abbreviated as mg/m<sup>3</sup>. Nanograms per cubic metre is abbreviated as ng/m<sup>3</sup>.*

*Metres per second is abbreviated as m/s. Cubic metres per second is abbreviated as m<sup>3</sup>/s.*

**Air Emission Monitoring: Horizontal Billet Caster Stack**

| Pollutant                   | 100 percentile concentration limit | Units of Measure  | Testing Frequency | Sample Date 20th March 2019 | Sample Date 8th July 2020 | Sample Date 23/06/2021 | Sample Date 18/05/2022 |
|-----------------------------|------------------------------------|-------------------|-------------------|-----------------------------|---------------------------|------------------------|------------------------|
| Stack Temperature           | -                                  | °C                | Yearly            | 52                          | 49                        | 49                     | 41                     |
| Stack Velocity              | -                                  | m/s               | -                 | 11                          | 9.6                       | 11                     | 11                     |
| Stack Volumetric Flow       | -                                  | m <sup>3</sup> /s | Yearly            | 3.6                         | 3.2                       | 3.7                    | 3.8                    |
| Moisture                    | -                                  | %                 | Yearly            | 1.2                         | <0.4                      | 0.72                   | 0.57                   |
| Oxygen                      | -                                  | %                 | Yearly            | 20.7                        | 20.9                      | 20.9                   | 20.9                   |
| Dioxins & Furans (TEQ)      | 0.1                                | ng/m <sup>3</sup> | Yearly            | 0.035                       | 0.045                     | 0.019                  | 0.007                  |
| Cadmium                     | 0.2                                | mg/m <sup>3</sup> | Yearly            | <0.0004                     | <0.0005                   | <0.0005                | <0.0006                |
| Mercury                     | 0.2                                | mg/m <sup>3</sup> | Yearly            | 0.00049                     | 0.0011                    | 0.00081                | <0.0004                |
| Type 1 Substances           | -                                  | mg/m <sup>3</sup> | -                 | ≤0.0072                     | ≤0.0097                   | ≤0.01                  | ≤0.017                 |
| Total Type 1 + 2 Substances | 1                                  | mg/m <sup>3</sup> | Yearly            | ≤0.017                      | ≤0.022                    | <0.023                 | ≤0.03                  |
| Nitrogen Oxides             | 350                                | mg/m <sup>3</sup> | Yearly            | <3                          | 4.4                       | 5                      | 5.5                    |
| Total Solid Particles       | 50                                 | mg/m <sup>3</sup> | Yearly            | <1                          | 2.2                       | <5                     | 2                      |
| VOCs as n-propane           | 40                                 | mg/m <sup>3</sup> | Yearly            | 0.15                        | 0.18                      | 0.77                   | 0.16                   |
| Results Obtained (date)     | -                                  | -                 | -                 | 2-Jul-19                    | 19-Aug-20                 | 31-Aug-21              | 26-Aug-22              |
| Results Published (date)    | -                                  | -                 | -                 | 12-Jul-19                   | 21-Aug-20                 | 7-Sep-21               | 7-Sep-22               |

**Notes: Air Emission**

*Special Frequency 3 means "during each stack emission test"*

*Milligrams per cubic metre is abbreviated as mg/m<sup>3</sup>. Nanograms per cubic metre is abbreviated as ng/m<sup>3</sup>.*

*Metres per second is abbreviated as m/s. Cubic metres per second is abbreviated as m<sup>3</sup>/s.*

### Air Emission Monitoring: Horizontal Billet Caster Stack

| Pollutant                   | 100 percentile concentration limit | Units of Measure  | Testing Frequency | Sample Date<br>22nd March 2023 | Sample Date<br>15 May 2024 | Sample Date<br>7 May 2024 |
|-----------------------------|------------------------------------|-------------------|-------------------|--------------------------------|----------------------------|---------------------------|
| Stack Temperature           | -                                  | °C                | Yearly            | 55                             | 49                         | 43                        |
| Stack Velocity              | -                                  | m/s               | -                 | 12                             | 11                         | 11                        |
| Stack Volumetric Flow       | -                                  | m <sup>3</sup> /s | Yearly            | 3.9                            | 3.7                        | 3.8                       |
| Moisture                    | -                                  | %                 | Yearly            | 0.97                           | 0.49                       | 1.1                       |
| Oxygen                      | -                                  | %                 | Yearly            | 20.9                           | 20.6                       | 16.6                      |
| Dioxins & Furans (TEQ)      | 0.1                                | ng/m <sup>3</sup> | Yearly            | 0.05                           | 0.013                      | 0.024                     |
| Cadmium                     | 0.2                                | mg/m <sup>3</sup> | Yearly            | < 0.0005                       | <0.0005                    | 0.00012                   |
| Mercury                     | 0.2                                | mg/m <sup>3</sup> | Yearly            | 0.0018                         | 0.00061                    | 0.00093                   |
| Type 1 Substances           | -                                  | mg/m <sup>3</sup> | -                 | ≤ 0.011                        | ≤0.0095                    | ≤0.0029                   |
| Total Type 1 + 2 Substances | 1                                  | mg/m <sup>3</sup> | Yearly            | ≤ 0.024                        | ≤0.023                     | ≤0.015                    |
| Nitrogen Oxides             | 350                                | mg/m <sup>3</sup> | Yearly            | 5.6                            | <4                         | <4                        |
| Total Solid Particles       | 50                                 | mg/m <sup>3</sup> | Yearly            | < 2                            | 3.6                        | <3                        |
| VOCs as n-propane           | 40                                 | mg/m <sup>3</sup> | Yearly            | 0.057                          | <0.07                      | 0.091                     |
| Results Obtained (date)     | -                                  | -                 | -                 | 14-Jun-23                      | 11-Jul-24                  | 20-Jun-25                 |
| Results Published (date)    | -                                  | -                 | -                 | 19-Jun-23                      | 12-Jul-24                  | 4-Jul-25                  |

#### Notes: Air Emission

*Special Frequency 3 means "during each stack emission test"*

*Milligrams per cubic metre is abbreviated as mg/m<sup>3</sup>. Nanograms per cubic metre is abbreviated as ng/m<sup>3</sup>.*

*Metres per second is abbreviated as m/s. Cubic metres per second is abbreviated as m<sup>3</sup>/s.*