

Environment Protection Licence Monitoring Data - Water



|                          |   |
|--------------------------|---|
| Project Name:            | Coffs Harbour Bypass  |
| Monitoring Period:       | Dec/24  |
| EPL Number:              | 21766   |
| Licensee:                | Gamuda Berhad and Ferrovial Agroman (Australia) Pty. Ltd.   |
| Premise Address:         | Coffs Harbour NSW 2450  |
| Public Register:         | <a href="https://www.epa.nsw.gov.au/bioscience/Detail.aspx?resultid=21766&amp;id=21766&amp;action=licence&amp;searchrange=license&amp;range=POEO%20licence&amp;openurl&amp;status=aswd">https://www.epa.nsw.gov.au/bioscience/Detail.aspx?resultid=21766&amp;id=21766&amp;action=licence&amp;searchrange=license&amp;range=POEO%20licence&amp;openurl&amp;status=aswd</a> |
| Relevant EPL Conditions: | L2.4, M2.3, M2.4  |

Sediment Basins (Type D):

| Discharge Point | Monitoring Point | Date       | Turbidity (NTU) |               | TSS (mg/L) |               | pH      |               | Oil & Grease |               | Aluminium (mg/L) | Iron (mg/L) | Conductivity (µS/cm) | Comment |
|-----------------|------------------|------------|-----------------|---------------|------------|---------------|---------|---------------|--------------|---------------|------------------|-------------|----------------------|---------|
|                 |                  |            | Results         | License Limit | Results    | License Limit | Results | License Limit | Results      | License Limit |                  |             |                      |         |
| B1450R          | 1                | 03/12/2024 | 14              | NA            | NA         | NA            | 8.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B14100L         | 1                | 03/12/2024 | 32              | NA            | NA         | NA            | 7.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B20300R         | 1                | 03/12/2024 | 30              | NA            | NA         | NA            | 8.4     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B2110R          | 1                | 03/12/2024 | 24              | NA            | NA         | NA            | 8.5     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11000R         | 1                | 04/12/2024 | 50              | NA            | NA         | NA            | 7.7     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11000R         | 1                | 05/12/2024 | 48              | NA            | NA         | NA            | 7.1     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11450R         | 1                | 09/12/2024 | 50              | NA            | NA         | NA            | 7.6     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B12600L         | 1                | 09/12/2024 | 50              | NA            | NA         | NA            | 7.7     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B21100L         | 1                | 09/12/2024 | 27              | NA            | NA         | NA            | 8.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B16650R         | 1                | 09/12/2024 | 44              | NA            | NA         | NA            | 7.7     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11000R         | 1                | 11/12/2024 | 55              | NA            | NA         | NA            | 7.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B12600L         | 1                | 11/12/2024 | 57              | NA            | NA         | NA            | 7.5     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B12600L         | 1                | 12/12/2024 | 8               | NA            | NA         | NA            | 8.1     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B15900R         | 1                | 13/12/2024 | 50              | NA            | NA         | NA            | 7.6     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11450R         | 1                | 13/12/2024 | 55              | NA            | NA         | NA            | 7.4     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11000R         | 1                | 16/12/2024 | 54              | NA            | NA         | NA            | 7.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11450R         | 1                | 16/12/2024 | 51              | NA            | NA         | NA            | 7.6     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11600R         | 1                | 16/12/2024 | 52              | NA            | NA         | NA            | 7.6     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B12600L         | 1                | 16/12/2024 | 53              | NA            | NA         | NA            | 7.7     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B13950R         | 1                | 16/12/2024 | 50              | NA            | NA         | NA            | 7.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B14500R         | 1                | 16/12/2024 | 50              | NA            | NA         | NA            | 8       | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B13950R         | 1                | 16/12/2024 | 60              | NA            | NA         | NA            | 7.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B19900R         | 1                | 16/12/2024 | 23              | NA            | NA         | NA            | 8.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B18200R         | 1                | 16/12/2024 | 2               | NA            | NA         | NA            | 6.8     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B10700R         | 1                | 17/12/2024 | 19              | NA            | NA         | NA            | 7.5     | nil           | NA           | NA            | NA               | NA          | NA                   |         |
| B11000R         | 1                | 17/12/2024 | 51              | NA            | NA         | NA            | 7.3     | nil           | NA           | NA            | NA               | NA          | NA                   |         |

High Efficiency

Sediment Basins

(Type B):

| Discharge point | Monitoring Point | Date       | Total Suspended Solids (mg/L) | pH   | Oil & Grease | Monitoring Frequency | Comment |
|-----------------|------------------|------------|-------------------------------|------|--------------|----------------------|---------|
| HEB 15000R      | 4                | 1/12/2024  | 138                           | 8.05 | nil          | Special Frequency 2  |         |
| HEB 17700R      | 4                | 1/12/2024  | 13                            | 7.99 | nil          | Special Frequency 2  |         |
| HEB18100R       | 4                | 1/12/2024  | 6                             | 7.78 | nil          | Special Frequency 2  |         |
| HEB 18650R      | 4                | 1/12/2024  | 4                             | 7.65 | nil          | Special Frequency 2  |         |
| HEB21750L       | 4                | 1/12/2024  | 13                            | 7.97 | nil          | Special Frequency 2  |         |
| HEB 15000R      | 4                | 11/12/2024 | 28                            | 6.8  | nil          | Special Frequency 2  |         |
| HEB 17700R      | 4                | 11/12/2024 | 10                            | 7    | nil          | Special Frequency 2  |         |
| HEB18100R       | 4                | 11/12/2024 | 7                             | 7.3  | nil          | Special Frequency 2  |         |
| HEB 18650R      | 4                | 11/12/2024 | 9                             | 7.2  | nil          | Special Frequency 2  |         |
| HEB21750L       | 4                | 11/12/2024 | 264                           | 6.7  | nil          | Special Frequency 2  |         |

Water Treatment Plants:

| Discharge point | Monitoring Point | Date       | TSS (mg/L) |            | pH           | Oil & Grease | Arsenic (mg/L) | Cadmium (mg/L) | Chromium VI (mg/L) | Chromium III (mg/L) | Copper (mg/L) | Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Mercury (mg/L) | Nickel (mg/L) | Zinc (mg/L) |
|-----------------|------------------|------------|------------|------------|--------------|--------------|----------------|----------------|--------------------|---------------------|---------------|-------------|-------------|------------------|----------------|---------------|-------------|
|                 |                  |            | 50         | 6.5 to 8.5 |              |              |                |                |                    |                     |               |             |             |                  |                |               |             |
| WTP-01-GN       | 3                | 9/12/2024  | 3          | 7.6        | None Visible | 0.05         | 0.014          | 0.07           | 0.15               | 0.04                | 1.5           | 0.03        | 0.0007      | 2.5              | 0.0007         | 0.2           | 0.15        |
| WTP-01-SN       | 3                | 12/13/2024 | 12         | 7          | Nil          | <0.012       | <0.002         | <0.010         | <0.010             | <0.003              | 0.005         | <0.008      | <0.002      | <0.002           | <0.0001        | <0.004        | <0.003      |

## Environment Protection Licence Monitoring Data - Air



**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Dec-24  
**EPL Number:** 21766  
**Licensee:** Gamuda Berhad and Ferrovial Agroman (Australia) Pty. Ltd.  
**Premise Address:** Coffs Harbour NSW 2450  
**Public Register:** <https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued>  
**Relevant EPL Condition/s:** M2.2

| Monitoring Point | Start Date | End Date | Date Data Obtained | Solid Particles (g/m <sup>3</sup> /month) | Monitoring Frequency | Rolling Average Criteria | Annual Rolling Average | Comment |
|------------------|------------|----------|--------------------|---|----------------------|--------------------------|------------------------|---------|
| DDG1             | 20-11-24   | 20-10-24 | 18-12-24           | 1.1                                       | Monthly              | 3.06                     | 1.2                    |         |
| DDG2             | 20-11-24   | 20-10-24 | 18-12-24           | 1.6                                       | Monthly              | 3.59                     | 3.3                    |         |
| DDG3             | 20-11-24   | 20-10-24 | 18-12-24           | 0.51                                      | Monthly              | 2.68                     | 1.1                    |         |
| DDG4             | 20-11-24   | 20-10-24 | 18-12-24           | 0.57                                      | Monthly              | 3.25                     | 1.3                    |         |
| DDG5             | 20-11-24   | 20-10-24 | 18-12-24           | 0.17                                      | Monthly              | 2.91                     | 0.5                    |         |
| DDG6             | 20-11-24   | 20-10-24 | 18-12-24           | 0.1                                       | Monthly              | 2.84                     | 0.5                    |         |
| DDG7             | 20-11-24   | 20-10-24 | 18-12-24           | 0.33                                      | Monthly              | 2.68                     | 1.6                    |         |
| DDG8             | 20-11-24   | 20-10-24 | 18-12-24           | 0.1                                       | Monthly              | 2.87                     | 1.0                    |         |
| DDG9             | 20-11-24   | 20-10-24 | 18-12-24           | 0.33                                      | Monthly              | 2.19                     | 0.9                    |         |
| DDG10            | 20-11-24   | 20-10-24 | 18-12-24           | 1.6                                       | Monthly              | 2.28                     | 2                      |         |
| DDG10.5          | 20-11-24   | 20-10-24 | 18-12-24           | 0.62                                      | Monthly              | 2.28                     | 0.6                    |         |
| DDG11            | 20-11-24   | 20-10-24 | 18-12-24           | 0.61                                      | Monthly              | 2.22                     | 1.3                    |         |
| DDG11.5          | 20-11-24   | 20-10-24 | 18-12-24           | 0.1                                       | Monthly              | 2.22                     | 1.1                    |         |
| DDG12            | 20-11-24   | 20-10-24 | 18-12-24           | 0.1                                       | Monthly              | 2.43                     | 1.3                    |         |
| DDG13            | 20-11-24   | 20-10-24 | 18-12-24           | 0.2                                       | Monthly              | 2.26                     | 1.2                    |         |
| DDG14            | 20-11-24   | 20-10-24 | 18-12-24           | 0.3                                       | Monthly              | 2.45                     | 1.5                    |         |
| DDG15            | 20-11-24   | 20-10-24 | 18-12-24           | 0.1                                       | Monthly              | 2.83                     | 0.9                    |         |
| DDG16            | 20-11-24   | 20-10-24 | 18-12-24           | 2.4                                       | Monthly              | 3.59                     | 3                      |         |

Environment Protection Licence Monitoring Data - Noise



**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Dec-24  
**EPL Number:** 21766  
**Licensee:** Gamuda Berhad and Ferrovia Agroman (Australia) Pty. Ltd.  
**Premise Address:** Coffs Harbour NSW 2450  
**Public Register:** <https://apps.epa.nsw.gov.au/prp0000pp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&ppno&status=Issued>  
**Relevant EPL Condition/s:** M4.1 - M4.4

| Monitoring Location | NCA | Purpose                         | Relevant EPL Clause | Works Monitored | Date                    | Time              | Attended or Unattended | Parameter | Goal / Target (dBA) | Measured (dBA) | Estimated Construction Contribution (dBA) | Comment  |
|---------------------|-----|---------------------------------|---------------------|-----------------|-------------------------|-------------------|------------------------|-----------|---------------------|----------------|---|--|
| 94 Gatleys Rd       | N/A | Response to Community Complaint | M7.7                | Tunnelling      | 13/12/2024 - 17/12/2024 | 2:25 PM - 8:30 AM | Unattended             | LAEQ      | N/A                 | <35dBA         | <35dBA                                    | No construction noise audible on audio recordings during periods of rock hammering. Works compliant. |

Environment Protection Licence Monitoring Data - Blasting (Tunnels)

Report Title: [Click Here to Download](#)  
 Report Period: 1/1/2017  
 Data Source: [Click Here to Download](#)  
 Licence No: 2256 (Noise and Vibration) - Project Approval - Bluesteel Pty. Ltd.  
 Project Address: 2256 (Noise and Vibration)  
 Data Reported: 2017-01-01 to 2017-01-31  
 Reported By: G. Williams

| Tunnel | Point | Blot Date  | Blot Time | 7750 Max Airblast (dB) - 120 Meters | 7750 Max Airblast (Reactive Blast) (dB) | 7750 Max Vibration (Reactive Blast) (mm/s) | 7750 Max Airblast (dB) - 60 Garage Road | 7750 Airblast (dB) - 171M Mackaypa Road | 7750 Vibration (mm/s) - 171M Mackaypa Road | 7750 Airblast (dB) - 171C Mackaypa Road | 7750 Vibration (mm/s) - 171C Mackaypa Road | 7750 Airblast (dB) - 171B Mackaypa Road | 7750 Vibration (mm/s) - 171B Mackaypa Road | Comments |
|--------|-------|------------|-----------|-------------------------------------|---|--|---|---|--|---|--|---|--|----------|
| 047    | 1     | 16/01/2017 | 17:16     | 147                                 | 146                                     | 0.26                                       | 141                                     | 149.4                                   | 0.11                                       | 149.2                                   | 0.4  | 147                                     | 0.2  |          |
| 047    | 1     | 16/01/2017 | 17:16     | 147                                 | 146                                     | 0.26                                       | 141                                     | 149.4                                   | 0.11                                       | 149.2                                   | 0.4  | 147                                     | 0.2  |          |
| 047    | 1     | 16/01/2017 | 17:16     | 147                                 | 146                                     | 0.26                                       | 141                                     | 149.4                                   | 0.11                                       | 149.2                                   | 0.4  | 147                                     | 0.2  |          |
| 047    | 1     | 16/01/2017 | 17:16     | 147                                 | 146                                     | 0.26                                       | 141                                     | 149.4                                   | 0.11                                       | 149.2                                   | 0.4  | 147                                     | 0.2  |          |

| Tunnel | Point | Blot Date  | Blot Time | 200 Single Shot Line 7750 Airblast (dB) | 200 Single Shot Line 7750 Vibration (mm/s) | 270 Single Shot Line 7750 Airblast (dB) | 270 Single Shot Line 7750 Vibration (mm/s) | 200 Single Shot Line 7750 Airblast (dB) | 200 Single Shot Line 7750 Vibration (mm/s) | Revised 20 | Revised 20 7750 Vibration (mm/s) | Comments |
|--------|-------|------------|-----------|---|--|---|--|---|--|------------|----------------------------------|----------|
| 047P   | 1     | 16/01/2017 | 17:16     | 112.7                                   | 0.12                                       | 112.9                                   | 0.06                                       | 112.8                                   | 0.06                                       | 107.7      | 0.16                             |          |
| 047P   | 1     | 16/01/2017 | 17:17     | 112.9                                   | 0.06                                       | 112.8                                   | 0.06                                       | 112.8                                   | 0.06                                       | 108.1      | 0.16                             |          |
| 047P   | 1     | 16/01/2017 | 17:18     | 112.7                                   | 0.16                                       | 112.9                                   | 0.11                                       | 112.8                                   | 0.11                                       | 112.8      | 0.1                              |          |
| 047P   | 1     | 16/01/2017 | 17:19     | 112.2                                   | 0.05                                       | 112.4                                   | 0.06                                       | 112.4                                   | 0.06                                       | 107.4      | 0.09                             |          |
| 047P   | 1     | 16/01/2017 | 17:20     | 112.7                                   | 0.11                                       | 112.9                                   | 0.06                                       | 112.8                                   | 0.06                                       | 107.4      | 0.12                             |          |
| 047P   | 1     | 16/01/2017 | 17:21     | 112.7                                   | 0.06                                       | 112.9                                   | 0.06                                       | 112.8                                   | 0.06                                       | 107.7      | 0.1                              |          |
| 047P   | 1     | 16/01/2017 | 17:22     | 112.9                                   | 0.06                                       | 112.8                                   | 0.06                                       | 112.8                                   | 0.06                                       | 108.2      | 0.11                             |          |
| 047P   | 1     | 16/01/2017 | 17:23     | 112.9                                   | 0.07                                       | 112.8                                   | 0.06                                       | 112.8                                   | 0.06                                       | 107.7      | 0.11                             |          |