

Environment Protection Licence Monitoring Data - Water



Project Name: Coffs Harbour Bypass  
 Monitoring Period: Jan-25  
 EPL Number: 21766  
 Licensee: Gamuda Behad and Ferrovial Agroman (Australia) Pty. Ltd.  
 Premise Address: Coffs Harbour NSW 2450  
 Public Register: <https://www.epa.nsw.gov.au/licences/details.aspx?licenseid=21766&id=21766&option=license&searchrange=POEO%20license&projectstatus=license>  
 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	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit				
B11000R	1	6/01/2025	50	NA	NA	7.7	nil	NA	NA	NA	NA	NA		
B10700R	1	6/01/2025	35	NA	NA	8.3	nil	NA	NA	NA	NA	NA		
B10700R	1	7/01/2025	23	NA	NA	8.3	nil	NA	NA	NA	NA	NA		
B16100R	1	7/01/2025	50	NA	NA	7.6	nil	NA	NA	NA	NA	NA		
B16600R	1	7/01/2025	29	NA	NA	7.6	nil	NA	NA	NA	NA	NA		
B14100L	1	7/01/2025	34	NA	NA	7.7	nil	NA	NA	NA	NA	NA		
B16650R	1	7/01/2025	50	NA	NA	8.3	nil	NA	NA	NA	NA	NA		
B14800R	1	8/01/2025	50	NA	NA	7.5	nil	NA	NA	NA	NA	NA		
B14800R	1	9/01/2025	55	NA	NA	8.3	nil	NA	NA	NA	NA	NA		
B11000R	1	14/01/2025	50	NA	NA	7.9	nil	NA	NA	NA	NA	NA		
B13000L	1	14/01/2025	39	NA	NA	8.2	nil	NA	NA	NA	NA	NA		
B15900R	1	20/01/2025	32	NA	NA	8.4	nil	NA	NA	NA	NA	NA		
B14500R	1	20/01/2025	50	NA	NA	7.6	nil	NA	NA	NA	NA	NA		
B14100L	1	20/01/2025	48	NA	NA	7.9	nil	NA	NA	NA	NA	NA		
B11450R	1	20/01/2025	51	NA	NA	7	nil	NA	NA	NA	NA	NA		
B11450R	1	20/01/2025	54	NA	NA	7.6	nil	NA	NA	NA	NA	NA		
B12600L	1	20/01/2025	56	NA	NA	7	nil	NA	NA	NA	NA	NA		
B13000L	1	21/01/2025	49	NA	NA	7.6	nil	NA	NA	NA	NA	NA		
B11000R	1	21/01/2025	45	NA	NA	7	nil	NA	NA	NA	NA	NA		
B11450R	1	21/01/2025	42	NA	NA	7.1	nil	NA	NA	NA	NA	NA		
B14800R	1	21/01/2025	45	NA	NA	8.1	nil	NA	NA	NA	NA	NA		
B11450R	1	22/01/2025	39	NA	NA	7.8	nil	NA	NA	NA	NA	NA		
B11600R	1	22/01/2025	52	NA	NA	7.3	nil	NA	NA	NA	NA	NA		
B14800R	1	22/01/2025	40	NA	NA	7.7	nil	NA	NA	NA	NA	NA		
B16600R	1	22/01/2025	50	NA	NA	8.2	nil	NA	NA	NA	NA	NA		
B16650R	1	22/01/2025	40	NA	NA	7.9	nil	NA	NA	NA	NA	NA		
B10700R	1	23/01/2025	14	NA	NA	8.2	nil	NA	NA	NA	NA	NA		
B16650R	1	23/01/2025	42	NA	NA	7.8	nil	NA	NA	NA	NA	NA		
B11450R	1	23/01/2025	42	NA	NA	7.8	nil	NA	NA	NA	NA	NA		
B11450R	1	24/01/2025	40	NA	NA	7.9	nil	NA	NA	NA	NA	NA		
B14500R	1	28/01/2025	14	NA	NA	7.6	nil	NA	NA	NA	NA	NA		
B10700R	1	28/01/2025	24	NA	NA	7.4	nil	NA	NA	NA	NA	NA		
B11000R	1	30/01/2025	40	NA	NA	7.4	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	18/01/2025	12	6.9	nil	Special Frequency 2	
HEB 17700R	4	18/01/2025	2	7.5	nil	Special Frequency 2	
HEB18100R	4	18/01/2025	85	7.4	nil	Special Frequency 2	
HEB21750L	4	18/01/2025	11	6.8	nil	Special Frequency 2	
HEB 15000R	4	19/01/2025	8	6.9	nil	Special Frequency 2	
HEB 17700R	4	19/01/2025	10	7.5	nil	Special Frequency 2	
HEB18100R	4	19/01/2025	62	7	nil	Special Frequency 2	
HEB21750L	4	19/01/2025	27	6.9	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	None Visible	0.05	0.014	0.07	0.15	0.04	1.5	0.03	2.5	0.0007	0.2	0.15
GN-WTP1	3	8/01/2025	4	7.9	Nil	<0.012	<0.002	<0.01	<0.005	<0.003	<0.003	<0.008	0.42	TBC	<0.004	0.042
SN-WTP1	3	8/01/2025	49	7.7	Nil	<0.012	<0.002	0.025	0.016	0.006	0.009	<0.008	0.076	TBC	<0.004	0.027

# Environment Protection Licence Monitoring Data - Air



**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Jan-25  
**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/prpoeapp/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	18-12-24	22-01-25	10-01-25	1.3	Monthly	3.06	1.2	
DDG2	18-12-24	22-01-25	10-01-25	4.3	Monthly	3.59	3.5	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.
DDG3	18-12-24	22-01-25	10-01-25	2.7	Monthly	2.68	1.3	
DDG4	18-12-24	22-01-25	10-01-25	0.55	Monthly	3.25	1.3	
DDG5	18-12-24	22-01-25	10-01-25	1.3	Monthly	2.91	0.5	
DDG6	18-12-24	22-01-25	10-01-25	0.87	Monthly	2.84	0.5	
DDG7	18-12-24	22-01-25	10-01-25	1	Monthly	2.68	1.8	
DDG8	18-12-24	22-01-25	10-01-25	0.6	Monthly	2.87	1.0	
DDG9	18-12-24	22-01-25	10-01-25	3.7	Monthly	2.19	1.1	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.
DDG10	18-12-24	22-01-25	10-01-25	4	Monthly	2.28	2.2	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.
DDG10.5	18-12-24	22-01-25	10-01-25	0.65	Monthly	2.28	0.6	
DDG11	18-12-24	22-01-25	10-01-25	1	Monthly	2.22	1.2	
DDG11.5	18-12-24	22-01-25	10-01-25	4.1	Monthly	2.22	1.4	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.
DDG12	18-12-24	22-01-25	10-01-25	9.3	Monthly	2.43	2.3	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.
DDG13	18-12-24	22-01-25	10-01-25	1.2	Monthly	2.26	1.4	
DDG14	18-12-24	22-01-25	10-01-25	0.8	Monthly	2.45	1.6	
DDG15	18-12-24	22-01-25	10-01-25	3.1	Monthly	2.83	1	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.
DDG16	18-12-24	22-01-25	10-01-25	6.7	Monthly	3.59	3.1	Exceedance of monthly criteria due to nearby JV works, review of construction methodologies and dust controls undertaken. Annual rolling average remains compliant.

Environment Protection Licence Monitoring Data - Noise



**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Jan-25  
**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/prpoeoapp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&pr=no&status=Issued>  
**Relevant EPL Conditions:** 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	
Shepherds North Portal Compound (various distances from generator)	N/A	Spot Check	P1.2	Emergency generator for tunnelling operations (800kVA silenced model)	14/01/2025	2:13 PM	Attended	LAeq	72dBA at 7m (97 SWL)	65	70dBA at 7m (95 SWL)		SWL of 95dba calculated from SPL. EMM assessing noise impact of new emergency generator to assess compliance against current approved impact in the CNVIS.
						2:18 PM				65			
						2:20 PM				69			
						2:23 PM				71			
						2:27 PM				68			
						2:29 PM				66			
2:34 PM	71												
11 Highlander Dr, North Boambee Valley NSW 2450	6A	Verification		Batch plant warm up	17/01/2025	6:39 AM	Attended	LAeq15min	38	50	Construction noise not audible	Background noise approx 44-46db. Noise from traffic in the distance (highway) audible. Batch plant not audible over background noise.	
62 Roselands Dr Coffs Harbour NSW 2450	14	Response to Community Complaint		Hammer	22/01/2025	1:51 PM	Attended	LAeq15min	52	45	40dBA	Hammer clearly audible. Background approx 36-38dBA when hammer not working. Hammer around 40dBA.	
498 Pacific Highway	2	Verification		Line grinding	22/01/2025	9:58 PM	Attended	LAeq15min	54	62	54	Heavy traffic - dominant noise source. Grinding at 52-54db while behind road barriers.	
					22/01/2025	10:35 PM			54	62	56-60 (no barriers)	Grinding not compliant when not located behind road barriers. When line marking was required past the barriers, and was not compliant, work was stopped. A crew truck was moved up to the work location. The crew truck was placed on the receiver side of the works (no receivers on the other side of highway) and monitoring was conducted again. With the mitigation of the truck between the receiver and works, the works were compliant.	
Roberts Hill North Portal Compound (various distances from generator)	N/A	Spot Check	P1.2	Generator for canopy tube installation.	24/01/2025	2:22 PM	Attended	LAeq	72dBA at 7m (97 SWL)	62	69dBA at 7m (94 SWL)		SWL of 95dba calculated from SPL. As above, EMM assessing noise impact of new emergency generator to assess compliance against current approved impact in the CNVIS.
						2:25 PM				62			
						2:24 PM				68			

## Environment Protection Licence Monitoring Data - Noise

**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Jan-25  
**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/prpoeapp/Detail.aspx?instid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued>  
**Relevant EPL Condition/s:** M4.1 - M4.4

Monitoring Location	Purpose	Relevant EPL Clause	Works Monitored	Date	Time	Attended or Unattended	Parameter	Vibration Criteria	Maximum Vibration Measured	Comment
127m from Gatelys Road southbound tunnel	Response to Complaint	M7.7	Tunnelling works	24/01/2025 - 4/02/2025	1:00 PM - 11:00 AM	Unattended	mm/s	0.40 m/s <sup>1.75</sup>	0.18 m/s <sup>1.75</sup>	Compliant
20m from works	Verification Monitoring	M7.7	Earthworks and fill compaction	29/01/2025 - 31/01/2025	12:45 PM - 1:00 PM	Unattended	mm/s	0.40 m/s <sup>1.75</sup> 7.5 mm/s	0.1 m/s <sup>1.75</sup> 3 mm/s	Compliant

Environment Protection Licence Monitoring Data - Blasting (Tunnels)

Project Name: G20 Tunnel System  
 Monitoring Phase: 1/20/20  
 EPA Number: 2170  
 Licence: Class 2, Class 3 and Class 4  
 Licence Holder: G20 Tunnel System Pty Ltd  
 Public Register: <https://www.epa.gov.au/public-register>  
 Licence Expiry: 15/12/2024

Tunnel	Portal	Blast Date	Blast Time	7752 Max A-weight (dB) - 172 West Road	7752 Max A-weight (dB) - 172 West Road	7752 Max Vibration (mm/s) - 172 West Road	7819 Max A-weight (dB) - 84 Gully Road	7819 Max A-weight (dB) - 84 Gully Road	7819 Max Vibration (mm/s) - 1718 Mackay Road	7819 Max A-weight (dB) - 1718 Mackay Road	7819 Max Vibration (mm/s) - 1718 Mackay Road	7727 A-weight (dB) - 1718 Mackay Road	7727 Vibration (mm/s) - 1718 Mackay Road	7756 A-weight (dB) - 154 Mackay Road	7756 Vibration (mm/s) - 154 Mackay Road	Comments
GAT	S	18/01/2025	8:37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	18/01/2025	8:45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	18/01/2025	11:10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	18/01/2025	11:10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	18/01/2025	8:48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	20/01/2025	8:48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	23/01/2025	17:43	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	
GAT	N	20/01/2025	7:36	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	
GAT	N	20/01/2025	8:35	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	
GAT	N	20/01/2025	8:35	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	
GAT	N	20/01/2025	17:21	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	
GAT	S	20/01/2025	17:36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	20/01/2025	18:00	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	
GAT	S	20/01/2025	18:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	03/02/2025	18:00	118.7	118.7	0.16	119.1	119.1	0.20	119.2	0.20	119.1	0.19	119.1	0.19	

Tunnel	Portal	Blast Date	Blast Time	7823 A-weight (dB) - 1330 Mackay Road	7823 Vibration (mm/s) - 1330 Mackay Road	7823 A-weight (dB) - 1330 Mackay Road	7823 Vibration (mm/s) - 1330 Mackay Road	7829 A-weight (dB) - 1330 Mackay Road	7829 Vibration (mm/s) - 1330 Mackay Road	7829 A-weight (dB) - 1330 Mackay Road	7829 Vibration (mm/s) - 1330 Mackay Road	Comments
SHP	N	18/01/2025	8:25	129	0.82	127	0.53	125.5	0.49			
SHP	N	18/01/2025	7:08	122.3	0.70	124.7	0.28	122.6	0.18			
SHP	N	18/01/2025	7:11	118.8	0.52	123.3	0.17	117.7	0.22			
SHP	N	18/01/2025	12:27	125.1	0.75	124.7	0.28	120.3	0.24			
SHP	N	18/01/2025	12:31	121	0.49	125.4	0.27	117.3	0.16			
SHP	N	18/01/2025	17:56	126.9	0.79	123.3	0.29	120.2	0.25			
SHP	N	18/01/2025	18:07	119.5	0.52	128.8	0.22	114.4	0.14			
SHP	N	17/01/2025	7:29	125.3	0.65	125	0.23	125	0.23			
SHP	N	17/01/2025	12:19	123.2	0.63	122.8	0.52	118.1	0.2			
SHP	N	18/01/2025	8:27	128.2	0.81	128.8	0.45	127.6	0.25			
SHP	N	18/01/2025	11:16	127.1	0.84	127.1	0.43	123.7	0.27			
SHP	N	20/01/2025	7:48	125.8	0.77	121	0.46	121.7	0.22			
SHP	N	20/01/2025	7:54	128.9	0.93	128.8	0.51	127.3	0.27			
SHP	N	20/01/2025	7:52	122.5	0.53	122.1	0.35	119	0.17			
SHP	N	20/01/2025	16:46	123.3	0.55	125.8	0.41	124	0.17			
SHP	N	20/01/2025	18:08	120.8	0.45	119.2	0.36	120.7	0.26			
SHP	N	20/01/2025	7:56	121.7	0.52	126.5	0.26	121.4	0.17			
SHP	N	20/01/2025	8:17	128.6	0.78	122.6	0.21	121.7	0.21			
SHP	N	20/01/2025	17:09	120.6	0.46	122.4	0.24	119.5	0.20			
SHP	N	20/01/2025	17:06	122.6	0.66	122.2	0.46	122.2	0.27			
SHP	N	20/01/2025	17:23	122.9	1.29	123.3	0.44	122.5	0.23			
SHP	N	20/01/2025	7:51	120.4	0.36	125.1	0.3	123.1	0.24			
SHP	N	20/01/2025	18:04	118.4	0.44	118.7	0.28	117.4	0.14			
SHP	N	20/01/2025	12:45	122.1	1.41	121.3	0.45	117.4	0.25			
SHP	N	30/01/2025	17:36	118.8	0.59	119.5	0.36	109.5	0.13			
SHP	N	30/01/2025	7:51	126.9	0.63	128.1	0.21	126	0.25			
SHP	N	30/01/2025	8:30	122.6	0.6	124.3	0.33	122.8	0.21			

Tunnel	Portal	Blast Date	Blast Time	7726 A-weight (dB) - 248 Shephards Lane	7726 Vibration (mm/s) - 248 Shephards Lane	7726 A-weight (dB) - 276 Shephards Lane	7726 Vibration (mm/s) - 276 Shephards Lane	7441 A-weight (dB) - 248 Shephards Lane	7441 Vibration (mm/s) - 248 Shephards Lane	7726 A-weight (dB) - Roanoke Drive	7726 Vibration (mm/s) - Roanoke Drive	Comments
SHP	S	02/01/2025	17:10	119.2	0.38	119.2	0.15	111.2	0.18	112	0.28	
SHP	S	7/01/2025	13:40	119	0.43	111.2	0.17	104.7	0.1	111.1	0.25	
SHP	S	6/01/2025	15:47	116.4	0.26	112.8	0.17	112.6	0.19	104.4	0.16	
SHP	S	15/01/2025	16:46	122.8	0.39	116.3	0.17	111.5	0.2	104.4	0.2	
SHP	S	15/01/2025	16:08	121.2	0.66	115.1	0.66	113.5	0.3	117.9	0.16	
SHP	S	16/01/2025	16:10	125.6	0.4	121.2	0.24	114.7	0.24	101.1	0.28	
SHP	S	18/01/2025	17:18	121.9	0.61	112.9	0.31	116.7	0.23	104.4	0.24	
SHP	S	20/01/2025	13:12	127.1	0.7	117.2	0.18	119.7	0.27	101.6	0.21	
SHP	S	23/01/2025	14:09	121.8	0.66	115	0.12	-	-	101.1	0.20	
SHP	S	24/01/2025	13:22	120.7	0.57	115.8	0.44	113.1	0.25	101.4	0.2	
SHP	S	24/01/2025	13:36	121.1	0.66	118.8	0.33	112.2	0.26	101.1	0.28	
SHP	S	30/01/2025	16:55	121.4	0.45	120	0.28	110.4	0.23	101.4	0.19	