

Environment Protection Licence Monitoring Data - Water



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Sep-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:	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				
B14200R	1	9/02/2024	49		NA		6.7		nil	NA	NA	NA	
B11000R	1	9/09/2024	50		NA		6.9		nil	NA	NA	NA	
B11000R	1	19/09/2024	42.3		NA		7.14		nil	NA	NA	NA	
B11000R	1	24/09/2024	23.4		NA		7.2		nil	NA	NA	NA	
B15300R	1	24/09/2024	19		NA		7.8		nil	NA	NA	NA	
B15900R	1	24/09/2024	52		NA		7.9		nil	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 13/09/2024	42	7.6	nil	Special Frequency 2	
HEB 17700R		4 13/09/2024	4	7.5	nil	Special Frequency 2	
HEB21750L		4 13/09/2024	6	7.7	nil	Special Frequency 2	
HEB 15000R		4 27/09/2024	150	7.48	nil	Special Frequency 2	
HEB 17700R		4 27/09/2024	125	7.83	nil	Special Frequency 2	
HEB18100R		4 27/09/2024	66	7.81	nil	Special Frequency 2	
HEB21750L		4 27/09/2024	109	7.77	nil	Special Frequency 2	
HEB 15000R		4 28/09/2024	41	6.84	nil	Special Frequency 2	
HEB 17700R		4 28/09/2024	121	6.53	nil	Special Frequency 2	
HEB18100R		4 28/09/2024	40	7.43	nil	Special Frequency 2	
HEB 18650R		4 28/09/2024	96	7.23	nil	Special Frequency 2	
HEB21750L		4 28/09/2024	239	6.56	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)	Monitoring Frequency	Comment
			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	N/A	N/A
WTP-01-GN	3	20/08/2024	6	7.5	nil	<0.012	<0.002	0.036	0.016	0.004	0.064	<0.008	0.13	<0.0001	<0.004	0.003	Special Frequency 1	

Environment Protection Licence Monitoring Data - Air

Project Name:	Coffs Harbour Bypass
Monitoring Period:	Sep-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 ³ /month)	Monitoring Frequency	Rolling Average Criteria	Annual Rolling Average	Comment
DDG1	22-08-24	20-09-24	2-10-24	0.7	Monthly	3.06	1.2	
DDG2	22-08-24	20-09-24	2-10-24	3.4	Monthly	3.59	2.9	
DDG3	22-08-24	20-09-24	2-10-24	0.7	Monthly	2.68	0.8	
DDG4	22-08-24	20-09-24	2-10-24	1.7	Monthly	3.25	1.5	
DDG5	22-08-24	20-09-24	2-10-24	0.5	Monthly	2.91	0.5	
DDG6	22-08-24	20-09-24	2-10-24	0.8	Monthly	2.84	0.5	
DDG7	22-08-24	20-09-24	2-10-24	1.5	Monthly	2.68	1.5	
DDG8	22-08-24	20-09-24	2-10-24	1.1	Monthly	2.87	1.0	
DDG9	22-08-24	20-09-24	2-10-24	0.5	Monthly	2.19	0.9	
DDG10	22-08-24	20-09-24	2-10-24	1.4	Monthly	2.28	1.8	
DDG10.5	22-08-24	20-09-24	2-10-24	0.8	Monthly	2.28	1.1	
DDG11	22-08-24	20-09-24	2-10-24	1.5	Monthly	2.22	1.4	
DDG11.5	22-08-24	20-09-24	2-10-24	1.2	Monthly	2.22	1.2	
DDG12	22-08-24	20-09-24	2-10-24	13.9*	Monthly	2.43	0.8	*Result is inconsistent with other nearby gauges in the DDG network, including DDG 13 (0.8g/m2/month, ~450m away). Result has therefore been ruled an anomaly and it is not included in the annual rolling average.
DDG13	22-08-24	20-09-24	2-10-24	0.8	Monthly	2.26	1.2	
DDG14	22-08-24	20-09-24	2-10-24	1	Monthly	2.45	1	
DDG15	22-08-24	20-09-24	2-10-24	0.6	Monthly	2.83	0.7	
DDG16	22-08-24	20-09-24	2-10-24	2.2	Monthly	2.68	2.7	

Environment Protection Licence Monitoring Data - Noise



Project Name: Coffs Harbour Bypass
Monitoring Period: Sep-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&pr=no&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
63 Rovere Drive	16	Verification	P1.2	Pile pours Bridge 12	9/09/2024	8:10 PM	Attended	LAeq15min	50	50	49	Compliant with prediction.
						8:29 PM				51	49	

Environment Protection Licence Monitoring Data - Blasting (Tunnels)



Project Name: Coffin Harbour System
Monitoring Period: Sep-24
EPL Number: 21166
Licence: Generalist Burial and Fertiliser Agreement (Australia) Pty Ltd.
Premise Address: Coffin Harbour NSW 2400
Public Register: <https://www.epa.nsw.gov.au/licences/detail.aspx?tabid=21166&id=21166&licence=GeneralistBurialFertiliserAgreement&page=25072%20GeneralistBurialFertiliserAgreement>
Relevant EPL Conditions: 1.5.1-1.5.4

Tunnel	Portal	Blast Date	Blast Time	7755 Max Airblast (dB) - 172 WKR	7755 Max Airblast (Banana Shield) (dB)	7755 Max Vibration (Banana Shield) (mm/s)	7819 Max Airblast (dB): 84 Gatesys Road	7489 Airblast (dB): 1718 Mackays Road	7489 Vibration (mm/s): 1718 Mackays Road	7737 Airblast (dB): 171C Mackays Road	7737 Vibration (mm/s): 171C Mackays Road	7704 Airblast (dB): 135 Mackays Road	7704 Vibration (mm/s): 135 Mackays Road	Comments
GAT	S	9/02/2024	10:24	N/A	N/A	N/A	N/A	117.3	0.18	120.9	0.1	Refer report in HPR FGLV-QM4HPR-004721		
GAT	N	9/02/2024	15:16	117.9*estimated data based off site assessment & correlated results to date.	120	0.5	115.5	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	03/09/2024	7:49	119.4*estimated data based off site assessment & correlated results to date.	120.3	0.48	117	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/09/2024	12:29	N/A	N/A	N/A	N/A	120.4	0.17	121.4	0.13	118.2	0.12	
GAT	N	9/04/2024	7:36	116.8*estimated data based off site assessment & correlated results to date.	118.9	0.65	114.3	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/04/2024	10:21	N/A	N/A	N/A	N/A	125.1	0.27	122.8	0.21	122.9	0.08	
GAT	S	9/04/2024	14:24	N/A	N/A	N/A	N/A	118.9	0.14	122.1	0.16	118.7	0.14	
GAT	N	9/04/2024	17:47	121.2*estimated data based off site assessment & correlated results to date.	122.5	0.22	118.8	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	9/05/2024	15:29	115.3*estimated data based off site assessment & correlated results to date.	118.8	0.49	113	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/06/2024	7:36	N/A	N/A	N/A	N/A	122.7	0.34	126.4	0.23	120.9	0.09	
GAT	N	9/06/2024	11:47	123.5*estimated data based off site assessment & correlated results to date.	123.9	0.45	121	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/06/2024	17:16	N/A	N/A	N/A	N/A	118.6	0.16	119.9	0.16	116.9	0.08	
GAT	N	9/09/2024	10:39	115*estimated data based off site assessment & correlated results to date.	117.6	0.44	112.7	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/09/2024	17:42	N/A	N/A	N/A	N/A	111.7	0.1	115.1	0.19	112.5	0.08	
GAT	N	9/10/2024	7:32	115.8*estimated data based off site assessment & correlated results to date.	117.6	0.32	113.3	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/10/2024	13:01	N/A	N/A	N/A	N/A	122.6	0.21	121.6	0.3	115.2	0.14	
GAT	N	9/10/2024	15:52	115.1*estimated data based off site assessment & correlated results to date.	117.5	0.43	107.9	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/11/2024	7:20	N/A	N/A	N/A	N/A	114.9	0.14	120.8	0.16	113.9	0.08	
GAT	N	9/11/2024	13:25	113.5*estimated data based off site assessment & correlated results to date.	116.6	0.35	108.3	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	9/12/2024	12:10	N/A	N/A	N/A	N/A	115.6	0.34	118.9	0.39	115.8	0.13	
GAT	N	9/12/2024	12:54	117*estimated data based off site assessment & correlated results to date.	120.7	0.39	114.7	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	13/09/2024	7:08	N/A	N/A	N/A	N/A	122.8	0.18	124.3	0.19	120	0.08	
GAT	N	13/09/2024	10:13	119*estimated data based off site assessment & correlated results to date.	120.3	0.39	113.7	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	14/09/2024	9:00	113.3*estimated data based off site assessment & correlated results to date.	121.1	0.40	111	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	14/09/2024	9:30	N/A	N/A	N/A	N/A	116.5	0.13	118	0.15	114.4	0.09	
GAT	S	16/09/2024	12:59	N/A	N/A	N/A	N/A	115	0.2	116.2	0.27	116.2	0.17	
GAT	S	17/09/2024	11:22	N/A	N/A	N/A	N/A	114.6	0.14	117.1	0.16	115.2	0.11	
GAT	N	17/09/2024	16:26	126.2*estimated data based off site assessment & correlated results to date.	120.4	0.46	123.8	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	18/09/2024	7:11	127.8*estimated data based off site assessment & correlated results to date.	125.6	0.29	119.4	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	18/09/2024	11:23	N/A	N/A	N/A	N/A	122.4	0.2	123.9	0.38	No data	No data	
GAT	S	18/09/2024	15:19	N/A	N/A	N/A	N/A	119.2	0.19	122.1	0.19	No data	No data	
GAT	N	18/09/2024	7:11	122.2*estimated data based off site assessment & correlated results to date.	125.2	0.82	120.2	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	18/09/2024	17:39	119.3*estimated data based off site assessment & correlated results to date.	120.2	0.61	118.9	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	19/09/2024	17:46	N/A	N/A	N/A	N/A	118.6	0.14	121.5	0.15	116.6	0.09	
GAT	N	30/09/2024	17:38	115.5*estimated data based off site assessment & correlated results to date.	117	0.39	113.2	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	30/09/2024	16:41	N/A	N/A	N/A	N/A	122.5	0.39	122	0.45	No data	No data	
GAT	N	23/09/2024	12:00	117.1*estimated data based off site assessment & correlated results to date.	123.5	0.53	114.8	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	23/09/2024	12:14	N/A	N/A	N/A	N/A	115.5	0.18	116.9	0.21	116	0.1	
GAT	N	24/09/2024	7:47	116.1*estimated data based off site assessment & correlated results to date.	117.6	0.38	113.8	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	24/09/2024	7:03	N/A	N/A	N/A	N/A	119.2	0.19	119.9	0.3	118.8	0.09	
GAT	N	24/09/2024	18:05	121.2*estimated data based off site assessment & correlated results to date.	122.7	0.36	118.9	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	25/09/2024	7:03	N/A	N/A	N/A	N/A	118.8	0.22	117.5	0.36	114.4	0.09	
GAT	N	25/09/2024	17:51	116.2*estimated data based off site assessment & correlated results to date.	119.2	0.39	113.9	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	N	26/09/2024	7:21	117.7*estimated data based off site assessment & correlated results to date.	121.4	0.48	115.3	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	26/09/2024	11:03	N/A	N/A	N/A	N/A	121.2	0.29	120.8	0.44	117.9	0.19	
GAT	N	27/09/2024	7:47	118.8*estimated data based off site assessment & correlated results to date.	115.5	0.39	114.5	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	27/09/2024	8:04	N/A	N/A	N/A	N/A	121.8	0.29	123.3	0.45	119.9	0.14	
GAT	N	27/09/2024	17:28	118.2*estimated data based off site assessment & correlated results to date.	120	0.42	115.8	N/A	N/A	N/A	N/A	N/A	N/A	
GAT	S	28/09/2024	10:55	N/A	N/A	N/A	N/A	119.1	0.25	119.2	0.34	118.2	0.14	
GAT	N	30/09/2024	14:47	115.1*estimated data based off site assessment & correlated results to date.	118.6	0.46	112.8	N/A	N/A	N/A	N/A	N/A	N/A	

Environment Protection Licence Monitoring Data - Blasting (Civil)

Project Name: Coffs Harbour Bypass
Monitoring Period: Sep-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: L5.1-L5.4

Blast Location	Blast Ref	Date	Time	Monitoring Location	Vibration Limit (mm/s)	Ground Vibration Result (mm/s)	Airblast Overpressure Limit (dBL)	Airblast Overpressure Result (dBL)	Comments
Cut 5B	Blast 9	9/09/2024	2:15	15A Nelson Street	25	23.97	125	120.2	
				15B Nelson Street	15	8.372	125	88.2	
				15 & 15C Nelson Street	25	14.72	125	114.6	
				353C Coramba Road	15	3.7	125	112.3	
				52 Buchanans Road	25	2.469	125	101	
Cut 5B	Blast 10	18/09/2024	2:15	15A Nelson Street	25	24.95	125	119.3	
				15B Nelson Street	15	8.74	125	112.7	
				15 & 15C Nelson Street	25	10.49	125	114.2	
				353C Coramba Road	15	3.1	125	106.5	
				52 Buchanans Road	25	3.43	125	108.4	