

COFFS HARBOUR BYPASS **team**

Sediment Basins (Type D):												
Discharge Point	Monitoring Point	Date	Turbidity (NTU)		TSS (mg/L)	pH	Oil & Grease		Aluminum (mg/L)	Zinc (mg/L)	Conductivity (µS/cm)	Comment
			Results	Limits			Results	Limits				
B10700R	1	3/04/2025	44	NA	NA	8.49	NA	NA	NA	NA	NA	
B10700R	1	3/04/2025	37	NA	15	8.47	nil	NA	NA	NA	NA	
B11600R	1	3/04/2025	46	NA	9	7.5	nil	NA	NA	NA	NA	
B11600R	1	3/04/2025	40	NA	NA	7.7	nil	NA	NA	NA	NA	
B13500R	1	4/04/2025	42	NA	32	7.4	nil	NA	NA	NA	NA	
B15900R	1	4/04/2025	50	NA	NA	8.3	nil	NA	NA	NA	NA	
B18200R	1	7/04/2025	8	NA	2	6.7	nil	NA	NA	NA	NA	
B11000R	1	7/04/2025	21	NA	7	nil	nil	NA	NA	NA	NA	
B18250R	1	7/04/2025	25	NA	NA	7.1	nil	NA	NA	NA	NA	
B16100R	1	7/04/2025	27	NA	NA	7.7	nil	NA	NA	NA	NA	
B13500R	1	7/04/2025	34	NA	7.4	nil	nil	NA	NA	NA	NA	
B11450R	1	7/04/2025	35	NA	NA	7.4	nil	NA	NA	NA	NA	
B16650L	1	7/04/2025	39	NA	NA	8.04	nil	NA	NA	NA	NA	
B14500R	1	7/04/2025	42	NA	NA	7.6	nil	NA	NA	NA	NA	
B14100L	1	7/04/2025	48	NA	NA	7.3	nil	NA	NA	NA	NA	
B16600R	1	7/04/2025	55	NA	NA	8.1	nil	NA	NA	NA	NA	
B11000R	1	8/04/2025	20	NA	6.7	nil	nil	NA	NA	NA	NA	
B11450R	1	8/04/2025	41	NA	NA	7.3	nil	NA	NA	NA	NA	
B13900R	1	9/04/2025	48	NA	NA	7.9	nil	NA	NA	NA	NA	
B14500R	1	14/04/2025	27	NA	8.2	nil	nil	NA	NA	NA	NA	
B14800R	1	15/04/2025	55	NA	NA	8.4	nil	NA	NA	NA	NA	
B16600R	1	16/04/2025	24	NA	NA	7.9	nil	NA	NA	NA	NA	
B15900R	1	16/04/2025	30	NA	NA	7.9	nil	NA	NA	NA	NA	
B15150	1	16/04/2025	35	NA	NA	8.2	nil	NA	NA	NA	NA	
B10700R	1	16/04/2025	45	NA	NA	7.2	nil	NA	NA	NA	NA	
B16600R	1	16/04/2025	45	NA	NA	7.3	nil	NA	NA	NA	NA	
B14800R	1	16/04/2025	47	NA	NA	8.4	nil	NA	NA	NA	NA	
B14800R	1	17/04/2025	45	NA	NA	8.3	nil	NA	NA	NA	NA	
B12600L	1	24/04/2025	55	NA	NA	7.9	nil	NA	NA	NA	NA	
B15500R	1	24/04/2025	45	NA	NA	8.3	nil	NA	NA	NA	NA	
B18250R	1	28/04/2025	10	NA	8	8.5	nil	NA	NA	NA	NA	
B11600R	1	30/04/2025	50	NA	NA	8.4	nil	NA	NA	NA	NA	
B11450R	1	30/04/2025	49	NA	NA	7.6	nil	NA	NA	NA	NA	
B11000R	1	30/04/2025	55	NA	NA	7.9	nil	NA	NA	NA	NA	
B14100L	1	30/04/2025	40	NA	NA	7.4	nil	NA	NA	NA	NA	
B16100R	1	30/04/2025	42	NA	NA	7.8	nil	NA	NA	NA	NA	
B16600R	1	30/04/2025	35	NA	NA	7.6	nil	NA	NA	NA	NA	

Discharge point	Monitoring Point	Date	Total Suspended Solids (mg/L)	pH	Oil & Grease	Monitoring Frequency	Comment
HEB 15000R in	4	14/04/2025	433	7.00	nil	Special Frequency 2	
HEB 15000R in	4	14/04/2025	13	6.80	nil	Special Frequency 2	
HEB 37700R out	4	14/04/2025	4.00	7.00	4.00	Special Frequency 2	
HEB 37700R out	4	14/04/2025	4	7.70	nil	Special Frequency 2	
HEB38500R out	4	14/04/2025	339	7.40	nil	Special Frequency 2	
HEB18500R out	4	14/04/2025	4	7.40	nil	Special Frequency 2	
HEB 38500R in	4	14/04/2025	6	6.90	nil	Special Frequency 2	
HEB 38500R out	4	15/04/2025	14	7.50	nil	Special Frequency 2	
HEB 15000R in	4	27/04/2025	89	6.80	nil	Special Frequency 2	
HEB 15000R out	4	27/04/2025	70	8.30	nil	Special Frequency 2	
HEB 37700R in	4	27/04/2025	96	7.10	nil	Special Frequency 2	
HEB 37700R out	4	27/04/2025	11	7.40	nil	Special Frequency 2	
HEB38500R out	4	27/04/2025	42	6.90	nil	Special Frequency 2	
HEB18500R out	4	27/04/2025	19	7.30	nil	Special Frequency 2	
HEB 38500R in	4	27/04/2025	32	7.40	nil	Special Frequency 2	
HEB 38500R out	4	27/04/2025	107	7.70	nil	Special Frequency 2	

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)
Shegar's 1	3	19/04/2025	3	7.7	NI	<0.012	<0.002	0.002	<0.001	<0.003	<0.003	<0.008	0.015	<0.0001	<0.004	0.021
Roberts 1	3	19/04/2025	13	7.6	NI	<0.012	<0.002	<0.002	<0.001	<0.003	0.006	<0.008	0.013	<0.0001	<0.004	0.005

Environment Protection Licence Monitoring Data - Air

Project Name:	Coffs Harbour Bypass
Monitoring Period:	Apr-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 ³ /month)	Monitoring Frequency	Rolling Average Criteria	Annual Rolling Average	Comment
DDG1	19/03/2025	19/04/2025	6/05/2024	0.13	Monthly	3.06	1	
DDG2	19/03/2025	19/04/2025	6/05/2025	3.3	Monthly	3.59	3.7	
DDG3	19/03/2025	19/04/2025	6/05/2026	< 0.1	Monthly	2.68	1.3	
DDG4	19/03/2025	19/04/2025	6/05/2027	< 0.1	Monthly	3.25	1.2	
DDG5	19/03/2025	19/04/2025	6/05/2028	0.2	Monthly	2.91	0.6	
DDG6	19/03/2025	19/04/2025	6/05/2029	8.8	Monthly	2.84	0.6	
DDG7	19/03/2025	19/04/2025	6/05/2030	3.3	Monthly	2.68	2.3	
DDG8	19/03/2025	19/04/2025	6/05/2031	< 0.1	Monthly	2.87	0.7	
DDG9	19/03/2025	19/04/2025	6/05/2032	6.6	Monthly	2.19	1.6	
DDG10	19/03/2025	19/04/2025	6/05/2033	1.2	Monthly	2.28	2.1	
DDG10.5	19/03/2025	19/04/2025	6/05/2034	0.18	Monthly	2.28	0.8	
DDG11	19/03/2025	19/04/2025	6/05/2035	2.2	Monthly	2.22	1.7	
DDG11.5	19/03/2025	19/04/2025	6/05/2036	< 0.1	Monthly	2.22	1.3	
DDG12	19/03/2025	19/04/2025	6/05/2037	0.43	Monthly	2.43	2.5	
DDG13	19/03/2025	19/04/2025	6/05/2038	0.2	Monthly	2.26	1.3	
DDG14	19/03/2025	19/04/2025	6/05/2039	0.41	Monthly	2.45	1.7	
DDG15	19/03/2025	19/04/2025	6/05/2040	0.18	Monthly	2.83	1	
DDG16	19/03/2025	19/04/2025	6/05/2041	1.2	Monthly	3.59	2.6	

Environment Protection Licence Monitoring Data - Noise



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Apr-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/prpoeoapp/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	NCA	Purpose	Relevant EPL Clause	Works Monitored	Date	Time	Attended or Unattended	Parameter	Goal / Target (dBA)	Measured (dBA)	Estimated Construction Contribution (dBA)	Comment
On site (approx. 41 from works in front of the teacher's demountable at Kororo Public School)	26	OOH Verification	L6.5	Luke Bowen Demolition (Eastern Deck Panel)	11/04/2025 - 12/04/2025	7:00 PM - 12:45 AM	Unattended	LAeq	71	64	<71dBA	Ngara set up in front of Kororo School. Average SWLs reported for each noise parameter during monitoring period. Two events between 10:45pm (73dBA) and 11:15pm (72dBA) were recorded during saw cutting activities which are within 1-2dBA of the prediction. Audio was reviewed for these events and confirmed saw cutting was the dominant noise source.
				Luke Bowen Demolition (Main Span)	12/04/2025 - 13/04/2025	7:00 PM - 6:15 AM			64	59	<64dBA	Average SWLs reported for each noise parameter during monitoring period. Two events between 1:00am and 1:30am (65dBA) were recorded during lifting activities which are within 1dBA of the prediction. Audio was reviewed for these events and confirmed engine noise was dominant which could be attributed to the crane or EWP.
On site at Fill 18 (approx. 30m from doors)	N/A	Spot Check	P1.2	Guard Rail installation with post driver	22/04/2025	11:33 AM	Attended	LAeq	73 (SWL of 112dBA)	67	72-73dBA	Pile driver operated intermittently during spot check (approx. 20s per pile) Spot check results in line with previous monitored levels (SWL of 112dBA)
Roberts portal South in front of generator 1 (7m)	N/A	Spot Check	P1.2	Tunnel generator	29/04/2025	4:20 PM	Attended	LAeq	N/A	70	69-70dBA	Spot check on generators for tunnel works. With EMM to check.
Roberts portal South - in line with reciever @108m away from tunnel	N/A	Verification for tunnelling	P1.2	Tunnelling works including hammering inside acoustic structure	30/04/2025	10:43 PM	Attended	LAeq	N/A	54	49dBA for tunnel works, loader on outside of tunnel 56-60dBA	Verification of noise from tunnels. EMM to check report.
Roberts portal South - in line with reciever @108m away from tunnel	N/A	Verification for tunnelling	P1.2	Tunnelling works in Northbound with doors closed. Loader from Southbound to shorthaul stockpile next to tunnel.	30/04/2025	11:03 PM	Attended	LAeq	N/A	56	Wind gusts 55-56dBA. Loader short hauling 55-60dBA.	Verification of noise from tunnels. EMM to check report.
Roberts portal South in front of generator 1 (7m) (location 2)	N/A	Spot Check	P1.2	Tunnel generator	30/04/2025	11:30 PM	N/A	LAeq	69	72	N/A	Spot check on generators for tunnel works. With EMM to check.
Roberts portal South in front of generator (7m)	N/A	Spot Check	P1.2	Tunnel generator	30/04/2025	11:36 PM	N/A	LAeq	67	69	N/A	Spot check on generators for tunnel works. With EMM to check.

Environment Protection Licence Monitoring Data - Vibration



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Apr-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/prpoeoapp/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

No Monitoring undertaken

Environment Protection Licence Monitoring Data - Blasting (Tunnels)



Project Name: Coffs Harbour Bypass
Monitoring Period: 20-20
EPL Number: 21186
Licence: National Permit and Personal Approval (Australasia) Pty Ltd
Premise Address: Coffs Harbour NSW 2450
Public Register: <https://www.epa.nsw.gov.au/licences/Detail.aspx?LicID=21186&Lic=21186&LicType=NationalPermit&LicName=20242020monit&LicSubCategory=Bypass>
Rate and EPL Conditions: 12-14.8.4

Tunnel	Portal	Blast Date	Blast Time	7755 Max Airblast (dB) - 172 WGR	7755 Max Airblast (Banswa Shed) (dB)	7755 Max Vibration (Banswa Shed) (mm/s)	7819 Max Airblast (dB): 86 Gatelys Road	7489 Airblast (dB): 1718 Mackays Road	7489 Vibration (mm/s): 1718 Mackays Road	7737 Airblast (dB): 1712C Mackays Road	7737 Vibration (mm/s): 1712C Mackays Road	7704 Airblast (dB): 135 Mackays Road	7704 Vibration (mm/s): 135 Mackays Road	Comments
								No Blasting						

Tunnel	Portal	Blast Date	Blast Time	7823 Airblast (dB) - 1336 Mackays Road	7823 Vibration (mm/s): 1336 Mackays Road	7853 Airblast (dB) - 1337 Mackays Road	7853 Vibration (mm/s): 1337 Mackays Road	7429 Airblast (dB) - 1337 Mackays Road	7429 Vibration (mm/s): 1337 Mackays Road	Comments
SHEP	N	1/04/2025	7:32	117.3	0.7	120.3	0.3	119.6	0.57	
SHEP	N	2/04/2025	17:45	no record	no record	no record	no record	no record	no record	
SHEP	N	4/04/2025	7:17	120.5	0.54	121.6	0.21	120.8	0.38	
SHEP	N	5/04/2025	9:48	120.1	0.81	NA	NA	120.3	0.34	
SHEP	N	5/04/2025	12:29	124.5	3.08	128.6	0.64	128.3	1.13	
SHEP	N	7/04/2025	7:01	123.8	0.49	123.8	0.36	124.4	0.22	
SHEP	N	32/04/2025	9:25	118.7	2.75	116.7	0.42	118.8	0.97	
SHEP	N	17/04/2025	7:18	127.4	4.11	125.3	0.77	124.8	1.64	
SHEP	N	17/04/2025	17:01	118.8	2.13	121.3	0.63	120.8	0.76	
SHEP	N	22/04/2025	7:18	122.8	1.54	122.6	0.71	121.5	0.35	
SHEP	N	24/04/2025	7:02	117.6	1.3	119.6	0.38	119.9	0.63	
SHEP	N	28/04/2025	7:01	117.8	3.63	118.8	0.73	120.1	1.59	
SHEP	N	29/04/2025	7:03	113.7	1.06	113.8	0.26	116.3	0.63	

Tunnel	Portal	Blast Date	Blast Time	7725 Airblast (dB) - 260 Shephards Lane	7725 Vibration (mm/s): 260 Shephards Lane	7702 Airblast (dB) - 270 Shephards Lane	7702 Vibration (mm/s): 270 Shephards Lane	7461 Airblast (dB) - 266 Shephards Lane	7461 Vibration (mm/s): 266 Shephards Lane	7728 Airblast (dB) - Rowers Drive	7726 Vibration (mm/s): Rowers Drive	Comments
SHEP	S	8/04/2025	11:07	108.4	0.19	97.1	0.08	93.4	0.08	90.7	0.11	
SHEP	S	5/04/2025	12:29	114.2	0.44	114.5	0.2	105.7	0.24	113.5	0.19	
SHEP	S	12/04/2025	9:25	118.6	0.3	113.6	0.13	NA	NA	115.7	0.22	
SHEP	S	17/04/2025	7:18	119.7	0.48	117	0.13	109.9	0.15	116	0.32	
SHEP	S	17/04/2025	17:01	119.7	0.52	116.5	0.14	110.9	0.43	113.7	0.37	
SHEP	S	22/04/2025	7:18	127.1	0.6	120.2	0.24	119.1	0.15	119	0.13	
SHEP	S	24/04/2025	7:02	118.6	0.63	115.2	0.23	NA	NA	116.7	0.34	
SHEP	S	28/04/2025	7:01	121.1	0.8	120.7	0.27	NA	NA	118.4	0.71	
SHEP	S	29/04/2025	7:03	124.9	0.64	117.5	0.23	NA	NA	117.2	0.37	

Tunnel	Portal	Blast Date	Blast Time	58 Buchanan RD 7608 Airblast (dB)	58 Buchanan RD 7608 Vibration (mm/s)	52 Buchanan RD 7105 Airblast (dB)	52 Buchanan RD 7105 Vibration (mm/s)	69 Buchanan RD 7775 Airblast (dB)	69 Buchanan RD 7775 Vibration (mm/s)	Comments
ROB	S	4/04/2025	14:51	124.3	0.59	123.4	1.04	124.8	0.77	
ROB	S	8/04/2025	16:51	126.1	0.68	116.3	1.88	117.6	1.63	
ROB	S	9/04/2025	13:41	124.1	0.44	121.6	0.69	122.2	0.67	
ROB	S	12/04/2025	11:55	126.4	0.84	116.7	1.49	120.5	1	
ROB	S	14/04/2025	14:21	126.1	0.52	121.6	1.15	123.4	0.93	
ROB	S	16/04/2025	17:05	126.3	0.86	120	3.08	121.9	2.11	
ROB	S	17/04/2025	11:30	120.6	0.45	118.6	0.96	118.3	0.87	
ROB	S	23/04/2025	16:11	124.8	0.54	128.1	1.4	120.9	0.63	
ROB	S	26/04/2025	9:09	122.2	0.63	115.8	1.23	120.2	1.19	
ROB	S	28/04/2025	13:18	123.5	0.88	108.1	1.4	121.1	0.52	
ROB	S	29/04/2025	10:44	124.1	0.11	113.2	2.79	123.2	0.96	
ROB	S	30/04/2025	12:30	122.3	0.35	121.9	3.47	117.9	1.54	
ROB	S	1/05/2025	17:39	126	0.5	120.8	1.58	121.5	0.76	
ROB	S	2/05/2025	7:29	127	0.84	129.1	4.55	121.7	1.88	
ROB	S	3/05/2025	9:27	123	0.4	129.1	1.8	123.9	0.5	
ROB	S	5/05/2025	12:27	122.7	0.66	124.6	4.75	120.1	1.04	

Environment Protection Licence Monitoring Data - Blasting (Civil)



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Apr-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&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 16	Blast 29	17/04/2025	14:15	53 Bruxner Park Road	10	4.374	120	109.9	
				19-19A Bruxner Park Rd (RFS Building)	10	8.656	120	107.5	
				15 Bruxner Park Road	10	4.336	120	107.6	
				108 West Korora Rd	10	4.066	125	114.6	