

Environment Protection Licence Monitoring Data - Water



<b>Project Name:</b>	Coffs Harbour Bypass
<b>Monitoring Period:</b>	Nov-24
<b>EPL Number:</b>	21766
<b>Licensee:</b>	Gamuda Berhad and Ferroval Agroman (Australia) Pty. Ltd.
<b>Premise Address:</b>	Coffs Harbour NSW 2450
<b>Public Register:</b>	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21766&amp;id=21766&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prpno&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21766&amp;id=21766&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prpno&amp;status=Issued</a>
<b>Relevant EPL Condition/s:</b>	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					
B16100R	1	1/11/2024	27		NA		8.2		nil		NA	NA	NA		
B11000R	1	5/11/2024	52		NA		7.4		nil		NA	NA	NA		
B18900R	1	11/11/2024	15.6		5		7.8		nil		NA	NA	NA		
B12600L	1	13/11/2024	24		NA		7.3		nil		NA	NA	NA		
B12600L	1	14/11/2024	38		NA		7.6		nil		NA	NA	NA		
B11000R	1	14/11/2024	50		NA		6.7		nil		NA	NA	NA		
B11450R	1	14/11/2024	27		NA		7.1		nil		NA	NA	NA		
B16100R	1	15/11/2024	26		NA		7.3		nil		NA	NA	NA		
B10700R	1	15/11/2024	24		NA		8.3		nil		NA	NA	NA		
B11450R	1	18/11/2024	52		NA		7.6		nil		NA	NA	NA		
B116650R	1	18/11/2024	28		NA		8		nil		NA	NA	NA		
B11000R	1	18/11/2024	48		NA		7.4		nil		NA	NA	NA		
BMC1000	1	18/11/2024	24		NA		8.3		nil		NA	NA	NA		
B12600L	1	20/11/2024	25		NA		7.4		nil		NA	NA	NA		
B11450R	1	20/11/2024	16		NA		7.2		nil		NA	NA	NA		
B1000	1	20/11/2024	14		NA		6.7		nil		NA	NA	NA		
B21100L	1	20/11/2024	27		NA		8.3		nil		NA	NA	NA		
B11600R	1	21/11/2024	35		NA		7.2		nil		NA	NA	NA		
B20700L	1	21/11/2024	24		NA		7.5		nil		NA	NA	NA		
B12600L	1	25/11/2024	27		NA		6.9		nil		NA	NA	NA		
B11450R	1	25/11/2024	21		NA		7.4		nil		NA	NA	NA		
B11000R	1	25/11/2024	14		NA		6.7		nil		NA	NA	NA		
B10700R	1	29/11/2024	24		NA		8.2		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	11/12/2024	14	8.06	nil	Special Frequency 2	
HEB 17700R	4	11/12/2024	9	7.71	nil	Special Frequency 2	
HEB18100R	4	11/12/2024	8	7.85	nil	Special Frequency 2	
HEB 15000R	4	11/19/2024	10	8.1	nil	Special Frequency 2	
HEB 17700R	4	11/19/2024	12	7.88	nil	Special Frequency 2	
HEB18100R	4	11/19/2024	78	7.86	nil	Special Frequency 2	

# Environment Protection Licence Monitoring Data - Air



**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Nov-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>2</sup> /month)	Monitoring Frequency	Rolling Average Criteria	Annual Rolling Average	Comment
DDG1	20-10-24	20-11-24	19-12-24	1.9	Monthly	3.06	1.3	
DDG2	20-10-24	20-11-24	19-12-24	4.5	Monthly	3.59	3.3	
DDG3	20-10-24	20-11-24	19-12-24	1.9	Monthly	2.68	1.2	
DDG4	20-10-24	20-11-24	19-12-24	2.7	Monthly	3.25	1.5	
DDG5	20-10-24	20-11-24	19-12-24	1.7	Monthly	2.91	0.6	
DDG6	20-10-24	20-11-24	19-12-24	2.6	Monthly	2.84	0.6	
DDG7	20-10-24	20-11-24	19-12-24	3	Monthly	2.68	1.7	
DDG8	20-10-24	20-11-24	19-12-24	1.4	Monthly	2.87	1.1	
DDG9	20-10-24	20-11-24	19-12-24	2.2	Monthly	2.19	1.0	
DDG10	20-10-24	20-11-24	19-12-24	2	Monthly	2.28	1.9	
DDG10.5	20-10-24	20-11-24	19-12-24	1.9	Monthly	2.28	0.7	
DDG11	20-10-24	20-11-24	19-12-24	3.1	Monthly	2.22	1.4	
DDG11.5	20-10-24	20-11-24	19-12-24	2.1	Monthly	2.22	1.3	
DDG12	20-10-24	20-11-24	19-12-24	3	Monthly	2.43	2.6	
DDG13	20-10-24	20-11-24	19-12-24	2.7	Monthly	2.26	1.3	
DDG14	20-10-24	20-11-24	19-12-24	2.1	Monthly	2.45	1.6	
DDG15	20-10-24	20-11-24	19-12-24	2.6	Monthly	2.83	1	
DDG16	20-10-24	20-11-24	19-12-24	1.3	Monthly	2.68	2.9	Earthworks ongoing adjacent to DDG.

## Environment Protection Licence Monitoring Data - Noise



**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Nov-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&prpno&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
50m from source	7	Verification	P1.2	Concrete batch	6/11/2024	1:50pm	Attended	LAEQ	121	69	69	SWL of 111dB calculated from SPL of 69dB
~45m from source	11	OOH Verification	P1.2	Shotcreting	8/11/2024	5:37 AM	Attended	LAEQ	106 SWL	65	65	SPL of 65 and 62 averaged to SPL of 63.5. SWL then calculated at 104dBA (from 43m from works), compliant with the 106dba figure provided in noisecheck.
Boundary of 285 Shephards Lane	15	Verification	P1.2	T35 Drill Rig	21/11/2024	4:01 PM	Attended	LAEQ	58	57	57	Compliant with prediction and with 75dba restriction on HNI plant at the nearest receiver.
On site in front of 53 Bruxner Park Road (approx. 110m from works, 30m from receiver)	23	OOH Verification	L6.4	BR18 Deck Pour (pump set up, arrival of concrete trucks, hand tools)	26/11/2024	4:43 AM	Attended	LAEQ15MIN	60	54	54 (52dBA at nearest receiver)	Compliant with prediction at nearby receiver
						5:03 AM		LAEQ15MIN		57	57 (55dBA at nearest receiver)	
						5:21 AM		LAEQ15MIN		60	60 (58dBA at nearest receiver)	
						5:53 AM		LAEQ15MIN		59	59 (57dBA at nearest receiver)	
Above Cut 14 - approx. 73m from crusher	19	Response to Community Complaint	M7.7	Crushing operations	29/11/2024	6:17 AM	Attended	LAEQ	59	60	60 (58dBA at nearest receiver)	Compliant with prediction at nearby receiver
						10:06 AM		LAEQ		69	69 (60dBA at resident)	
						10:24 AM		LAEQ		65	65 (59dBA at resident)	
Above Cut 14 on fenceline - approx. 102m from crusher						10:40 AM		LAEQ		65	65 (59dBA at resident)	

Environment Protection Licence Monitoring Data - Blasting (Tunnels)

Project Name: CAP, Victoria Express  
 Licence No: 151-154  
 EPL Number: 15150  
 Licensing Period: 01/01/2014 to 31/12/2014  
 Licensee: Geology Methods and Technical Services (Australia) Pty. Ltd.  
 Permit Address: CAP, Victoria Express (VSE)  
 Public Register: <http://www.epa.vic.gov.au/public-register>  
 Renewal EPA Conditions: 151-154

Tunnel	Portal	Blast Date	Blast Time	7755 Max Aisholt (dB) - 122 MWK	7755 Max Aisholt (Reverse Shot) (dB)	7702 Max Vibration (Recurve Shed) (mm/s)	7813 Max Aisholt (dB), 84 Gandy Road	7889 Aisholt (dB), 1718 Mackays Road	7889 Vibration (mm/s), 1718 Mackays Road	7737 Aisholt (dB), 171C Mackays Road	7737 Vibration (mm/s), 171C Mackays Road	7704 Aisholt (dB), 135 Mackays Road	7704 Vibration (mm/s), 135 Mackays Road	Comments
GAT	S	8/10/2014	14:05	NA	NA	NA	NA	114.1	0.05	109.1	1.24	115.6	1.68	NA
GAT	N	8/10/2014	17:30	125 (Extrapolated data based off site assessment & combined results to date)	124.9	0.5	120	NA	NA	NA	NA	NA	NA	NA
GAT	N	8/10/2014	8:30	117 (Extrapolated data based off site assessment & combined results to date)	107.7	0.43	114.7	NA	NA	NA	NA	NA	NA	NA
GAT	N	7/10/2014	11:39	120 (Extrapolated data based off site assessment & combined results to date)	121	0.6	120.2	NA	NA	NA	NA	NA	NA	NA
GAT	N	12/10/2014	11:34	NA	NA	NA	NA	106.9	0.21	116.9	0.51	106.9	1.72	NA
GAT	N	12/10/2014	11:53	NA	NA	NA	NA	107.5	0.17	116.1	0.39	106.5	0.88	NA
GAT	N	24/10/2014	12:05	125 (Extrapolated data based off site assessment & combined results to date)	126	1.07	122.9	NA	NA	NA	NA	NA	NA	NA
GAT	N	24/10/2014	12:39	NA	NA	NA	NA	115.4	0.39	124.7	0.39	115.2	0.36	NA
GAT	N	24/10/2014	17:55	NA	NA	NA	NA	113	0.32	115.2	0.56	115.3	0.35	NA
Tunnel	Portal	Blast Date	Blast Time	200 Sheppards Lane 7705 Aisholt (dB)	200 Sheppards Lane 7705 Vibration (mm/s)	270 Sheppards Lane 7705 Aisholt (dB)	270 Sheppards Lane 7705 Vibration (mm/s)	200 Sheppards Lane 7705 Aisholt (dB)	200 Sheppards Lane 7705 Vibration (mm/s)	Reverse Dr 7724 Aisholt (dB)	Reverse Dr 7724 Vibration (mm/s)	Reverse Dr 7726 Aisholt (dB)	Reverse Dr 7726 Vibration (mm/s)	Comments
SHPP	S	8/10/2014	13:53	115.4	0.25	127.4	2.04	NA	NA	NA	NA	NA	NA	
SHPP	S	12/10/2014	12:27	114	0.11	121.8	2.41	114.9	0.15	117.3	0.39			
SHPP	S	16/10/2014	12:55	122.2	0.32	126.3	2.26	114.9	0.17	115.7	0.39			
SHPP	S	20/10/2014	14:48	117.2	0.16	126.7	2.88	120.5	0.08	111.3	0.38			
SHPP	S	21/10/2014	11:53	115.7	0.45	116.2	0.11	106.9	0.39					
SHPP	S	22/10/2014	10:25	116.4	0.47	115.4	0.17	111.9	0.1					
SHPP	S	24/10/2014	10:49	114.6	0.12	122.4	0.11	104.5	0.1					
SHPP	S	27/10/2014	14:35	112.2	0.12	112.8	0.06	105.3	0.16					
SHPP	S	28/10/2014	17:30	122.3	1.08			113.4	0.05	115.3	0.11			

## Environment Protection Licence Monitoring Data - Blasting (Civil)

**Project Name:** Coffs Harbour Bypass  
**Monitoring Period:** Nov-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 Conditions:** 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 4	Blast 25	11/27/2024	2:30	52 Buchanans Road	10	1.1	125	88	
				56 Buchanans Road	10	2.71	125	110.2	
				60 Buchanans Road	10	No trigger	125	No trigger	
Cut 5A	Blast 1	11/28/2024	2:30	52 Buchanans Road	10	3.14	125	113.3	
				56 Buchanans Road	10	9.03	125	112	