

Environment Protection Licence Monitoring Data - Water



Project Name:	Coffs Harbour Bypass
Monitoring Period:	Jan-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/prpoeapp/Detail.aspx?insid=21766&id=21766&option=licence&searchrange=licence&range=POEO%20licence&pp=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
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results				
B21050R	1	4/12/2023		30	50	8	6.5 to 8.5	7.1	None Visible	nil	N/A	N/A	N/A	Compliant with discharge limits.
B15900R	1	12/12/2023		3.2	50	3	6.5 to 8.5	7.9	None Visible	nil	N/A	N/A	N/A	Compliant with discharge limits. NTU/TSS correlation established and put in place from 8/12/2023, therefore lab testing for TSS only required for every 10th discharge sample.

Notes / Definitions / Abbreviations:

TSS	Total Suspended Solids
mg/L	milligrams per litre
µS/cm	millisiemens per centimetre
Chromium VI	Chromium (hexavalent)
Chromium III	Chromium (trivalent)
Special Frequency 1	a) less than 24 hours prior to a controlled discharge and daily for any continued controlled discharge, when it is safe to do so; and
Special Frequency 2	a) within 24 hours following 25mm of rainfall within a day, AND
Special Frequency 3	a) only following the dosing of any water, monitored at this point, with Aluminium based flocculant; and
All metal concentrations reported as dissolved metals	

Environment Protection Licence Monitoring Data - Air



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Relevant EPL Condition/s: M2.2

Monitoring Point	Start Date	End Date	Date Data Obtained	Solid Particles (g/m ² /month)	Monitoring Frequency	Rolling Average Criteria	Annual Rolling Average	Comment
DDG1	23/11/2023	21/12/2023	5/12/2024	1.9	Monthly	3.06	1.3	
DDG2	23/11/2023	21/12/2023	5/12/2024	1.9	Monthly	3.59	4.7	
DDG3	23/11/2023	21/12/2023	5/12/2024	1	Monthly	2.68	1	
DDG4	23/11/2023	21/12/2023	5/12/2024	2.8	Monthly	3.25	2.5	
DDG5	23/11/2023	21/12/2023	5/12/2024	1.9	Monthly	2.91	0.7	
DDG6	23/11/2023	21/12/2023	5/12/2024	0.5	Monthly	2.84	0.7	
DDG7	23/11/2023	21/12/2023	5/12/2024	0.4	Monthly	2.68	1.6	
DDG8	23/11/2023	21/12/2023	5/12/2024	0.8	Monthly	2.87	3	
DDG9	23/11/2023	21/12/2023	5/12/2024	1.2	Monthly	2.19	0.7	
DDG10	23/11/2023	21/12/2023	5/12/2024	0.9	Monthly	2.28	2.1	
DDG10.5	23/11/2023	21/12/2023	5/12/2024	1.8	Monthly	2.28	2.1	
DDG11	23/11/2023	21/12/2023	5/12/2024	2.7	Monthly	2.22	1.9	FGJV Earthworks and moxy haul occuring within proximity to the gauge.
DDG12	23/11/2023	21/12/2023	5/12/2024	0.8	Monthly	2.43	1.1	
DDG13	23/11/2023	21/12/2023	5/12/2024	0.4	Monthly	2.26	1.1	
DDG14	23/11/2023	21/12/2023	5/12/2024	0.3	Monthly	2.45	0.8	
DDG15	23/11/2023	21/12/2023	5/12/2024	1.2	Monthly	2.83	0.8	
DDG16	23/11/2023	21/12/2023	5/12/2024	0.8	Monthly	2.68	0.7	

Environment Protection Licence Monitoring Data - Vibration



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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
170m from nearest earthworks area (Cut 14)	Response to Complaint	M7.7	Earthworks and fill compaction	15/11/2023 - 11/12/2023	8:40 AM - 9:50 AM	Unattended	Property Damage (PPV)	7.5 mm/s	0.29 mm/s	Average vibration levels compliant.

Environment Protection Licence Monitoring Data - Noise



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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)	Esimated Construction Contribution (dBA)	Comment
52 Buchanans Road	10	Verification Monitoring	P1.2	Hammer	8/12/2023	10:48 AM	Attended	LAeq15min	52	53	Unable to be determined due to additional construction noise	Noise level of hammer inaudible over additional construction noise.
13 Highlander Drive North Boambee	6	Verification Monitoring	L6.5	Concrete Pour	20/12/2023	6.19AM	Attended	LAeq	56	52	52	Noise levels compliant with prediction.

Environment Protection Licence Monitoring Data - Blasting

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Relevant EPL Condi L5.1-L5.4

Blast Location	Date	Time	Monitoring Location	Vibration Limit (mm/s)	Ground Vibration Result (mm/s)	Airblast Overpressure Limit (dBL)	Airblast Overpressure Result (dBL)	Comments
Cut 15A	5/12/2023	2:15 PM	191 Mackays Road	10	4.59	125	97.3	Compliant.
			211 Mackays Road	10	2.94	125	108.4	Compliant.
Cut 15B	6/12/2023	1:00 PM	172 West Korora Road	10	4.09	125	<88	Compliant.
			84 Gatelys Road	10	0.97	125	108.5	Compliant.
			94 Gatelys Road	10	1.14	125	103.5	Compliant.
Cut 16	6/12/2023	2:15 PM	53 Bruxner Park Road	10	4.38	125	94.1	Compliant.
			15 Bruxner Park Road	10	3.81	125	104.9	Compliant.
			108 West Korora Road	10	3.3	125	111.2	Compliant.
Cut 4	15/12/2023	2:06 PM	52 Buchanans Road	10	3.52	125	110.1	Compliant.
			56 Buchanans Road	10	6.38	125	114.5	Compliant.
			60 Buchanans Road	10	4.02	125	109.3	Compliant.
Cut 5B	19/12/2023	2:30 PM	15A Nelson Street	10	10.94	125	119.94	Investigation ongoing regarding limit exceedance.
			21 Nelson Street	10	10.27	125	113.7	Agreement obtained with resident to reach upper limit.
			26 Nelson Street	10	5.3	125	111	Compliant.
			353c Coramba Road	10	4.11	125	108.3	Compliant.
			52 Buchanans Road	10	2.43	125	109.6	Compliant.