



Newcastle Inner City Bypass – Rankin Park to Jesmond Project

ENVIRONMENT PROTECTION LICENCE NO: 21762

POLLUTION MONITORING DATA

June 2024

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1. Introduction

The Australian and NSW governments are funding the Rankin Park to Jesmond section of the Newcastle Inner City Bypass. The bypass will be built to the west of John Hunter Hospital.

In July 2022, a design and construct contract was awarded to Fulton Hogan Construction Pty Ltd who will finalise the design for the bypass and started major construction in March 2023.

The project will take three years to complete, weather permitting and will involve building a 3.4 kilometre four-lane divided road including:

- a northern interchange at Newcastle Road
- an interchange providing access to the John Hunter Hospital precinct
- a southern interchange at Lookout Road
- structures to improve connectivity in the bushland for people and animals
- off-road provisions for pedestrians and cyclists.

In accordance with section 66(6) of the POEO Act the following report details all required monitoring undertaken over the reporting period.

2. Water Quality Monitoring

Sampling conducted throughout the month.

Table 1 Monitoring results – Point 1 – June 2024

Date	Sample Location	pH	Oil/Grease	Irrigation Area
4/06/2024	10160E	7.1	No	H
4/06/2024	8050E	7.5	No	D
5/06/2024	8050E	8	No	D
12/06/2024	10160	7.1	No	H
13/06/2024	8760W	7.3	No	E
13/06/2024	10160E	7.7	No	H
17/06/2024	7520W	7	No	A
18/06/2024	8760W	7.1	No	E
18/06/2024	9050W	6.5	No	E
19/06/2024	8000E	6.9	No	D
20/06/2024	8000E	6.8	No	D
20/06/2024	7520W	7.3	No	A
21/06/2024	10160E	7.4	No	H
21/06/2024	8760W	7.1	No	E
25/06/2024	8760W	6.6	No	E

Date	Sample Location	pH	Oil/Grease	Irrigation Area
25/06/2024	10160E	7.3	No	H
25/06/2024	8000E	6.8	No	D
26/06/2024	8000E	6.5	No	D
26/06/2024	8760W	6.6	No	E
27/06/2024	9050W	6.6	No	E

Table 2 Monitoring results – Point 2 – June 2024

Date	Sample Location	Turbidity (NTU)	pH	Oil/Grease	Discharge Area
4/06/2024	9560E	43.5	7.5	No	Spillway
5/06/2024	8100W	31.5	6.6	No	Spillway
5/06/2024	8000E	13.5	7.3	No	Spillway
5/06/2024	9560E	37	7.4	No	Spillway
5/06/2024	10060E	26.5	7.3	No	Spillway
6/06/2024	8000E	24	6.8	No	Spillway
6/06/2024	8100W	20.9	6.6	No	Spillway
6/06/2024	8220W	45.7	7	No	Spillway
6/06/2024	7520W	44.2	7	No	Spillway
6/06/2024	10060W	27.7	6.8	No	Spillway
11/06/2024	10060W	20.1	6.6	No	Spillway
11/06/2024	7440W	10	7.3	No	Spillway
11/06/2024	7520W	42	6.9	No	Spillway
12/06/2024	8760W	34.9	6.8	No	Spillway
12/06/2024	8100W	34.4	7	No	Spillway
12/06/2024	8220W	34.9	6.7	No	Spillway
12/06/2024	7440W	19.97	7.3	No	Spillway
12/06/2024	8000E	24.8	7.4	No	Spillway
12/06/2024	8900W	45.4	7	No	Spillway
13/06/2024	8220W	40.3	7.2	No	Spillway
13/06/2024	8000E	23.6	7	No	Spillway
17/06/2024	8000E	3.45	6.5	No	Spillway
17/06/2024	8100W	6.22	6.5	No	Spillway
17/06/2024	8220W	32	6.8	No	Spillway
17/06/2024	10060W	38	7.4	No	Spillway
17/06/2024	9560E	37.2	7.2	No	Spillway
18/06/2024	8000E	25.9	6.9	No	Spillway
18/06/2024	8220W	37	7.1	No	Spillway
18/06/2024	8100W	6.22	6.5	No	Spillway
19/06/2024	7520W	34.6	7.1	No	Spillway
19/06/2024	8220W	41	7.1	No	Spillway

Date	Sample Location	Turbidity (NTU)	pH	Oil/Grease	Discharge Area
21/06/2024	8900W	45.6	6.9	No	Spillway
21/06/2024	7440W	38.5	6.9	No	Spillway
25/06/2024	8220W	31.1	7.1	No	Spillway
26/06/2024	10060W	38.3	7	No	Spillway
26/06/2024	8220W	28.3	6.6	No	Spillway
27/06/2024	8220W	45.5	6.6	No	Spillway
27/06/2024	7440W	30.3	6.6	No	Spillway
28/06/2024	9560E	2.1	7.2	No	Spillway
28/06/2024	7520W	19.66	7.4	No	Spillway
28/06/2024	7440W	40.7	7.8	No	Spillway
29/06/2024	8900W	45.5	6.9	No	Spillway

3. Vibration Monitoring

Sampling conducted throughout the month.

Table 3 June Monitoring Results – Blasting

Date	Sample Location	Overpressure (dB)	Peak Particle Velocity (mm/sec)	Notes
13/06/2024	JHH – Theatres	N/A	0.31618	Most impacted other sensitive receiver
13/06/2024	JHH – Imaging	N/A	0.18454	Most impacted other sensitive receiver
13/06/2024	Multiplex boundary	N/A	2.985	
13/06/2024	Jemena gas line	N/A	1.259	
13/06/2024	Bellinger Close	107.0	0.68	Most impacted residence
13/06/2024	Roberts Circuit	102.8	0.76	
13/06/2024	Birchgrove Drive	98.5	0.556	