

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: July 2023

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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1. Introduction

WestConnex is one of the NSW Government's key infrastructure projects which aims to ease congestion, create jobs and connect communities. Together with the other components of the WestConnex Program of Works and the proposed future Sydney Gateway, the WestConnex M4M5 Link will facilitate improved connections between western Sydney, Sydney Airport and Port Botany and south and south-western Sydney, as well as better connectivity between the important economic centres along Sydney's Global Economic Corridor and local communities (refer to Figure 1). Due to its importance, the WestConnex M4-M5 Link project was declared to be critical state significant infrastructure (CSSI) by the Minister for Planning on 15 August 2017.

The WestConnex M4-M5 Link is being delivered in two stages:

- Stage 1, the Mainline Tunnels, which includes the construction and operation of the M4-M5 Link Tunnel between the New M4 at Haberfield and the New M5 at St Peters, and
 - Stage 2, the Rozelle Interchange, which will connect the Stage 1 mainline tunnels to the surrounding surface road network and includes the construction and operation of (see Figure 1)
- › An interchange at Lilyfield and Rozelle, including a connection to the proposed future Western Harbour Tunnel and Beaches Link project, and
 - › A tunnel connection between the Anzac Bridge and Victoria Road, east of Iron Cove Bridge.



Figure 1 Westconnex Project Overview

2. Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21278) from the NSW Environment Protection Authority for the Rozelle Interchange Works on behalf of the John Holland CPB (JHCPB) Joint Venture. The licence is for construction works relating to Road Construction as defined under Schedule 1 of the *Protection of the Environment Operations Act, 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the M4-M5 Link Rozelle Interchange Works, and specifically provides discharge criteria for water treatment plant and sediment basin water quality. The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA's website:

<https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=194995&SYSUID=1&LICID=21278>

3. Water Monitoring

Water monitoring was undertaken during this reporting period. Table 1 and 2 contain the water monitoring results. There were no exceedances during the monitoring period.

Table 1 Surface water quality monitoring results

Discharge/Monitoring Point	Date sampled	Turbidity (NTU)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Visible	N/A	Licence Limit
CWL - 12	21/07/2023	4.6	7.38	No	Each Discharge	Compliant

¹ A correlation between TSS and Turbidity has been established. Including a safety factor, the turbidity limit is 50 NTU.

Table 2 Water quality monitoring results at Water Treatment Plant which processes ground water

Date Sampled	Discharge Point	Turbidity (NTU)	pH	Oil & Grease	Arsenic (mg/L)	Cadmium (mg/L)	Chromium (hexavalent) (mg/L)	Chromium (trivalent) (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 ¹	6.5 - 8.5	Visible	0.05	0.014	0.07 ²	0.15	0.04 ²	1.5	0.03	2.5	0.0007	0.2	0.15 ²	N/A	Licence Limit
26/07/2023	WHT Dis 1*	0.3	7.91	None visible	<0.0002	<0.00005	0.009	<0.001	<0.0005	<0.002	<0.0001	0.0014	<0.0001	<0.0005	0.008	26/07/2023	WHT Dis 1*

*Remark: Western Harbour Tunnel Stage 3A Discharge point (WHT Dis 1) is under EPL 21748, separated from RIC EPL 21278.

¹ A correlation between TSS and Turbidity has been established. Including a safety factor the turbidity limit is 50NTU.

² 90 Percentile concentration limit.

4. Noise Monitoring

Noise monitoring was undertaken during the July 2023 reporting period. All construction noise monitoring results were compliant during this period. Where the predicted noise level was exceeded, this was result of extraneous activities (traffic passing). Construction noise was audible and in line with the predicted levels. Table 3 contains detailed noise monitoring results.

Table 3. Noise monitoring results

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA20: Brenan St, Lilyfield	03/07/2023	1:41 AM	Attended	Laeq 15 minute	51	62.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Railway Pde, Annandale	03/07/2023	2:40 PM	Attended	Laeq 15 minute	52	59.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Pritchard St, Annandale	03/07/2023	2:59 PM	Attended	Laeq 15 minute	77.00	56.1	Compliant
NCA23: Johnston St, Annandale	03/07/2023	3:23 PM	Attended	Laeq 15 minute	73	63.9	Compliant
NCA27: Alexandra Rd, Glebe	03/07/2023	4:03 PM	Attended	Laeq 15 minute	61	62.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA27: Glebe Point Rd, Glebe	03/07/2023	4:24 PM	Attended	Laeq 15 minute	63.00	59.2	Compliant

NCA29: Victoria Rd, Rozelle	03/07/2023	10:08 PM	Attended	Laeq 15 minute	68	75	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Burt St, Rozelle	03/07/2023	10:42 PM	Attended	Laeq 15 minute	49	51.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Foucart St, Rozelle	03/07/2023	11:09 PM	Attended	Laeq 15 minute	49	48.9	Compliant
NCA21: Johnston St, Annandale	03/07/2023	11:33 PM	Attended	Laeq 15 minute	49	64.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	13/07/2023	9:18 AM	Attended	Laeq 15 minute	79	59.6	Compliant
NCA24: Lilyfield Rd, Rozelle	13/07/2023	9:40 AM	Attended	Laeq 15 minute	72	65.1	Compliant
NCA24: Hutcheson St, Rozelle	13/07/2023	9:58 AM	Attended	Laeq 15 minute	71	66.5	Compliant
NCA25: Lilyfield Rd, Rozelle	04/07/2023	9:12 PM	Attended	Laeq 15 minute	90	77.1	Compliant

NCA30: Napoleon St, Rozelle	04/07/2023	9:35 PM	Attended	Laeq 15 minute	63	54.9	Compliant
NCA42: Palmer St, Balmain	04/07/2023	10:00 PM	Attended	Laeq 15 minute	56	57.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: James Craig Rd, Rozelle	04/07/2023	10:27 PM	Attended	Laeq 15 minute	84	73	Compliant
NCA16: Lamb St, Lilyfield	04/07/2023	10:53 PM	Attended	Laeq 15 minute	58	39.6	Compliant
NCA20: Brenan St, Lilyfield	04/07/2023	11:15 PM	Attended	Laeq 15 minute	64	53.9	Compliant
NCA27: Glebe Point Rd, Glebe	04/07/2023	11:45 PM	Attended	Laeq 15 minute	47	57.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	04/07/2023	9:12 PM	Attended	Laeq 15 minute	90	77.1	Compliant
NCA30: Napoleon St, Rozelle	04/07/2023	9:35 PM	Attended	Laeq 15 minute	63	54.9	Compliant
NCA19: Cecily St, Lilyfield	13/07/2023	10:16 AM	Attended	Laeq 15 minute	57	61.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA19: Ryan St, Lilyfield 2040	13/07/2023	10:33 AM	Attended	Laeq 15 minute	70	63.1	Compliant
NCA25: Gordon St, Rozelle	20/07/2023	7:45 AM	Attended	Laeq 15 minute	49	66.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Burt St, Rozelle	21/07/2023	7:00 AM	Attended	Laeq 15 minute	62	63.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Hornsey St, Rozelle	21/07/2023	7:30 AM	Attended	Laeq 15 minute	64	60.8	Compliant
NCA29: Crescent St, Rozelle	21/07/2023	8:15 AM	Attended	Laeq 15 minute	38	55.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: Victoria Rd, Rozelle	21/07/2023	8:20 AM	Attended	Laeq 15 minute	61	74.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA28: Bowman St, Pyrmont	21/07/2023	9:00 AM	Attended	Laeq 15 minute	40	58.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: James Craig Rd, Rozelle	21/07/2023	10:40 AM	Attended	Laeq 15 minute	61	66.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Johnston St, Annandale	21/07/2023	11:10 AM	Attended	Laeq 15 minute	51	61.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Padstow St, Rozelle	24/07/2023	12:05 AM	Attended	Laeq 15 minute	50	40.5	Compliant
NCA16: Lilyfield Rd, Lilyfield	25/07/2023	8:14 AM	Attended	Laeq 15 minute	63	66.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA35: Clubb St, Rozelle	28/07/2023	10:49 AM	Attended	Laeq 15 minute	72	61.8	Compliant
NCA33: Toelle St, Rozelle	28/07/2023	11:22 AM	Attended	Laeq 15 minute	72	66.6	Compliant
NCA36: Warayama Pl, Rozelle	28/07/2023	12:06 PM	Attended	Laeq 15 minute	85	53.4	Compliant