

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: August 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

No surface water monitoring for discharge was conducted during this reporting period.

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
21/08/2023	WHT Dis 1*	0.4	7.22	None visible	<0.0002	<0.00005	0.006	<0.001	0.0009	<0.002	<0.0001	0.001	<0.0001	<0.0005	0.002	21/08/2023	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 August 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
NCA16: Lilyfield Rd, Lilyfield	15/08/2023	10:56 AM	Attended	Laeq 15 minute	63	65.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Ryan St, Lilyfield	15/08/2023	11:17 AM	Attended	Laeq 15 minute	70	69.5	Compliant
NCA28: Bowman St, Pyrmont	17/08/2023	7:48 AM	Attended	Laeq 15 minute	40	59.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA35: Warayama Pl, Rozelle	17/08/2023	2:27 PM	Attended	Laeq 15 minute	76	51.5	Compliant
NCA33: Toelle St, Rozelle	17/08/2023	3:11 PM	Attended	Laeq 15 minute	72	66	Compliant
NCA36: Clubb St, Rozelle	17/08/2023	3:30 PM	Attended	Laeq 15 minute	72	62.3	Compliant
NCA29: Crescent St, Rozelle	17/08/2023	4:02 PM	Attended	Laeq 15 minute	38	51.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: Victoria Rd, Rozelle	17/08/2023	4:25 PM	Attended	Laeq 15 minute	61	74.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA21: Railway Pde, Annandale	22/08/2023	10:44 AM	Attended	Laeq 15 minute	52	58.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Pritchard St, Annandale	22/08/2023	11:04 AM	Attended	Laeq 15 minute	77	55.8	Compliant
NCA21: Johnston St, Annandale	22/08/2023	11:38 AM	Attended	Laeq 15 minute	92	64.6	Compliant
NCA23: Johnston St, Annandale	22/08/2023	12:00 PM	Attended	Laeq 15 minute	73	63	Compliant
NCA20: Brenan St, Lilyfield	22/08/2023	2:45 PM	Attended	Laeq 15 minute	51	59	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: James Craig Rd, Rozelle	22/08/2023	3:25 PM	Attended	Laeq 15 minute	61	71.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA27: Alexandra Rd, Glebe	22/08/2023	4:06 PM	Attended	Laeq 15 minute	61	58.1	Compliant
NCA27: Glebe Point Rd, Glebe	22/08/2023	4:29 PM	Attended	Laeq 15 minute	63	56.4	Compliant
NCA21: Pritchard St, Annandale	23/08/2023	12:00 AM	Attended	Laeq 15 minute	47	45.4	Compliant
NCA21: Railway Pde, Annandale	23/08/2023	11:21 PM	Attended	Laeq 15 minute	68	60.6	Compliant
NCA25: Lilyfield Rd, Rozelle	24/08/2023	12:25 AM	Attended	Laeq 15 minute	63	51.6	Compliant
NCA25: Hutcheson St, Rozelle	24/08/2023	12:50 AM	Attended	Laeq 15 minute	48	42.6	Compliant

OSR: James Craig Rd, Rozelle	24/08/2023	1:15 AM	Attended	Laeq 15 minute	82	71.8	Compliant
NCA19: Cecily St, Lilyfield	24/08/2023	12:19 PM	Attended	Laeq 15 minute	57	62.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Hutcheson St, Rozelle	24/08/2023	12:43 PM	Attended	Laeq 15 minute	71	66.7	Compliant
NCA24: Lilyfield Rd, Rozelle	24/08/2023	1:04 PM	Attended	Laeq 15 minute	72	67.8	Compliant
NCA24: Burt St, Rozelle	24/08/2023	1:30 PM	Attended	Laeq 15 minute	62	62.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	24/08/2023	1:52 PM	Attended	Laeq 15 minute	79	61.8	Compliant
NCA25: Gordon St, Rozelle	24/08/2023	2:13 PM	Attended	Laeq 15 minute	49	68.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Hornsey St, Rozelle	24/08/2023	2:36 PM	Attended	Laeq 15 minute	64	61.8	Compliant
NCA25: Lilyfield Rd, Rozelle	30/08/2023	11:48 PM	Attended	Laeq 15 minute	50	55.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

