

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: January 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
RRY - A	09/01/2023	15.1	8.38	No	Each Discharge	Compliant
RRY - A	10/01/2023	4.9	7.26	No	Each Discharge	Compliant
RRY - A	24/01/2023	21.3	8.25	No	Each Discharge	Compliant
RRY - 06	31/01/2023	49	7.20	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
03/01/2023	RRY-C	1.3	7.92	None visible	0.0002	<0.00005	0.002	<0.001	0.0008	0.004	<0.0001	0.138	<0.00004	0.0018	0.011	03/01/2023	RRY-C
03/01/2023	RRY-C	1	7.64	None visible	0.0002	<0.00005	0.003	<0.001	0.0012	0.005	<0.0001	0.147	<0.00004	0.0018	0.01	03/01/2023	RRY-C

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 January 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
NCA24: Lilyfield Rd, Rozelle	09/01/2023	11:31 AM	Attended	Laeq 15 minute	72	67.2	Compliant
NCA24: Hutcheson St, Rozelle	09/01/2023	11:54 AM	Attended	Laeq 15 minute	71	67.1	Compliant
NCA19: Cecily St, Lilyfield	09/01/2023	12:17 PM	Attended	Laeq 15 minute	57	62.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Ryan St, Lilyfield	09/01/2023	12:47 PM	Attended	Laeq 15 minute	70	66.4	Compliant
NCA16: Lilyfield Rd, Lilyfield	09/01/2023	1:09 PM	Attended	Laeq 15 minute	43	65.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Hornsey St, Rozelle	09/01/2023	1:24 PM	Attended	Laeq 15 minute	79	62.4	Compliant
NCA20: Brenan St, Lilyfield	09/01/2023	1:38 PM	Attended	Laeq 15 minute	51	62.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Gordon St, Rozelle	09/01/2023	1:56 PM	Attended	Laeq 15 minute	49	61.6	Compliant – Extraneous noise (traffic) was the dominate noise

							source. Project-related noise below target level.
NCA24: Burt St, Rozelle	09/01/2023	2:15 PM	Attended	Laeq 15 minute	62	59.5	Compliant
NCA25: Lilyfield Rd, Rozelle	09/01/2023	2:35 PM	Attended	Laeq 15 minute	79	60.9	Compliant
NCA25: Lilyfield Rd, Rozelle	10/01/2023	6:16 PM	Attended	Laeq 15 minute	62	71.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	10/01/2023	6:35 PM	Attended	Laeq 15 minute	62	66.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	10/01/2023	10:08 PM	Attended	Laeq 15 minute	62	64.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA26: James Craig Rd, Rozelle	13/01/2023	9:26 AM	Attended	Laeq 15 minute	61	74.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA27: Alexandra Rd, Glebe	13/01/2023	10:05 AM	Attended	Laeq 15 minute	61	55.9	Compliant

NCA27: Glebe Point Rd, Glebe	13/01/2023	10:33 AM	Attended	Laeq 15 minute	63	67.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA35: Clubb St, Rozelle	18/01/2023	8:00 AM	Attended	Laeq 15 minute	72	68.7	Compliant
NCA33: Toelle St, Rozelle	18/01/2023	8:21 AM	Attended	Laeq 15 minute	76	65.4	Compliant
NCA36: Warayama Pl, Rozelle	18/01/2023	8:52 AM	Attended	Laeq 15 minute	85	75.3	Compliant
NCA21: Pritchard St, Annandale	23/01/2023	2:24 PM	Attended	Laeq 15 minute	77	65.4	Compliant
NCA23: Johnston St, Annandale	23/01/2023	2:47 PM	Attended	Laeq 15 minute	73	62.3	Compliant
NCA29: Crescent St, Rozelle	24/01/2023	7:15 AM	Attended	Laeq 15 minute	38	54.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA29: Victoria Rd, Rozelle	24/01/2023	7:49 AM	Attended	Laeq 15 minute	46	75.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Johnston St, Annandale	24/01/2023	10:10 AM	Attended	Laeq 15 minute	92	65.7	Compliant

NCA21: Railway Pde, Annandale	24/01/2023	10:38 AM	Attended	Laeq 15 minute	52	67.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	24/01/2023	8:45 PM	Attended	Laeq 15 minute	62	62.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA28: Bowman St, Pyrmont	25/01/2023	7:33 AM	Attended	Laeq 15 minute	40	56.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.