

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: October 2022

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 - 06	06/10/2022	48.8	7.7	No	Each Discharge	Compliant
VRE - 07	13/10/2022	35.4	8.0	No	Each Discharge	Compliant
RRY - 06	17/10/2022	45.1	7.8	No	Each Discharge	Compliant
RRY - 06	17/10/2022	32.0	8.0	No	Each Discharge	Compliant
VRE - 07	18/10/2022	46.5	8.2	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
04/10/2022	RRY-C	2.6	7.18	None visible	0.0003	<0.00005	0.01	<0.001	0.0017	0.004	<0.0001	0.032	<0.0001	0.0008	0.006	Monthly	RRY-C
04/10/2022	RRY-C	1.7	7.19	None visible	<0.0002	<0.00005	0.006	<0.001	0.0026	0.002	<0.0001	0.0061	<0.0001	0.001	0.008	Monthly	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 October 2022 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
NCA25: Hornsey St, Rozelle	10/10/2022	1:00 PM	Attended	Laeq 15 minute	64	60.3	Compliant
NCA25: Hornsey St, Rozelle	10/10/2022	1:00 PM	Attended	Laeq 15 minute	59	60.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	12/10/2022	10:35 PM	Attended	Laeq 15 minute	50	62.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	12/10/2022	4:30 PM	Attended	Laeq 15 minute	76	64.9	Compliant
NCA25: Lilyfield Rd, Rozelle	12/10/2022	11:30 PM	Attended	Laeq 15 minute	50	60.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	14/10/2022	1:30 PM	Attended	Laeq 15 minute	85	64.2	Compliant
NCA24: Gordon St, Rozelle	14/10/2022	3:30 PM	Attended	Laeq 15 minute	49	62.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA24: Burnt St, Rozelle	14/10/2022	4:00 PM	Attended	Laeq 15 minute	62	59.8	Compliant
NCA19: Ryan St, Lilyfield	19/10/2022	10:41 AM	Attended	Laeq 15 minute	70	64.6	Compliant
NCA25: Lilyfield Rd, Rozelle	19/10/2022	11:30 AM	Attended	Laeq 15 minute	61	71.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Hutcheson St, Rozelle	19/10/2022	12:13 PM	Attended	Laeq 15 minute	54	65.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Quirk St, Rozelle	21/10/2022	10:35 PM	Attended	Laeq 15 minute	78	67	Compliant
NCA25: Quirk St, Rozelle	21/10/2022	11:02 PM	Attended	Laeq 15 minute	78	66.3	Compliant
NCA25: Lilyfield Rd, Rozelle	25/10/2022	6:53 PM	Attended	Laeq 15 minute	56	62	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	26/10/2022	7:30 PM	Attended	Laeq 15 minute	56	58.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA21: Railway Pde, Annandale	27/10/2022	10:49 PM	Attended	Laeq 15 minute	47	51.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Hutcheson St, Rozelle	27/10/2022	11:18 PM	Attended	Laeq 15 minute	49	51.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.