

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: September 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 - A	09/09/2022	5.6	8.36	No	Each Discharge	Compliant
RRY - A	13/09/2022	4.0	8.06	No	Each Discharge	Compliant
RRY - A	15/09/2022	4.2	8.29	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
01/09/2022	RRY-C	1.9	7.28	None visible	0.0003	<0.00005	0.015	<0.001	0.0018	0.004	<0.0001	0.0328	<0.0001	0.0014	0.023	01/09/2022	RRY-C
01/09/2022	RRY-C	1.0	7.15	None visible	0.0002	<0.00005	0.018	<0.001	0.0023	0.002	<0.0001	0.0053	<0.0001	0.0011	0.004	01/09/2022	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 September 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: Lilyfield Rd, Rozelle	05/09/2022	10:21 PM	Attended	Laeq 15 minute	50	61.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	05/09/2022	11:09 PM	Attended	Laeq 15 minute	50	57.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	06/09/2022	12:45 AM	Attended	Laeq 15 minute	50	55.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	12/09/2022	11:20 AM	Attended	Laeq 15 minute	74	66.3	Compliant
NCA25: Lilyfield Rd, Rozelle	12/09/2022	11:42 AM	Attended	Laeq 15 minute	74	59.2	Compliant
NCA24: Lilyfield Rd, Rozelle	15/09/2022	3:37 PM	Attended	Laeq 15 minute	75	63.9	Compliant
NCA24: Lilyfield Rd, Rozelle	15/09/2022	3:47 PM	Attended	Laeq 15 minute	75	55.2	Compliant
NCA25: Hornsey St, Rozelle	19/09/2022	12:30 PM	Attended	Laeq 15 minute	59	58.7	Compliant

NCA24: Gordon St, Rozelle	19/09/2022	1:00 PM	Attended	Laeq 15 minute	49	63.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Burnt St, Rozelle	19/09/2022	1:15 PM	Attended	Laeq 15 minute	62	61.3	Compliant
NCA19: Ryan St, Lilyfield	20/09/2022	9:35 AM	Attended	Laeq 15 minute	70	63.2	Compliant
NCA19: Lilyfield Rd, Lilyfield	20/09/2022	9:53 AM	Attended	Laeq 15 minute	70	64.2	Compliant
NCA36: Clubb St, Rozelle	20/09/2022	2:53 PM	Attended	Laeq 15 minute	77	69.2	Compliant
NCA33: Toelle St, Rozelle	20/09/2022	3:15 PM	Attended	Laeq 15 minute	87	68.3	Compliant