

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: September 2021

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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00	11/10/2021	C Blyth	K Lloyd	C Scarf	

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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
ICL02	15/09/2021	45.2	7.98	No	Each discharge	Compliant
ICL02	15/09/2021	36.6	7.43	No	Each discharge	Compliant
ICL02	16/09/2021	17.0	8.13	No	Each discharge	Compliant
ICL02	16/09/2021	29.1	7.94	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
02/09/2021	RRY-A	1.1	7.45	None visible	0.001	<0.00005	0.024	<0.001	0.0012	0.006	<0.0001	1.76	0.0002	0.0008	0.006	Monthly	Compliant
02/09/2021	RRY-C	0.4	7.34	None visible	0.0004	<0.00005	0.031	<0.001	0.001	<0.002	<0.0001	0.081	0.0003	0.0008	0.004	Monthly	Compliant
02/09/2021	RRY-C	3.6	6.86	None visible	0.0036	<0.00005	0.064	<0.001	0.0011	0.002	<0.0001	0.0092	0.0003	0.0007	0.004	Monthly	Compliant

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 2021 reporting period. All construction noise monitoring results were complaint during this period. There were no exceedances recorded above the target level. It was identified that construction noise was audible during verification monitoring and within the predicted limit. 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
NCA12 Henry St	1/09/2021	9:45 PM	Attended	Laeq 15 minutes	71	57.0	Compliant
NCA15 Percival St	1/09/2021	9:15 PM	Attended	Laeq 15 minutes	56	54.6	Compliant
NCA12 Henry St	2/09/2021	10:05 PM	Attended	Laeq 15 minutes	71	59.5	Compliant
NCA24 Burt St	2/09/2021	10:20 PM	Attended	Laeq 15 minutes	71	59.0	Compliant
NCA39 Catherine St	2/09/2021 - 8/09/2021	12:00 AM - 6:00AM	unattended	Laeq 15 minutes	44	40.1	Compliant
NCA24 Hutcheson St	10/09/2021	11:35 PM	Attended	Laeq 15 minutes	60	47.9	Compliant
NCA21 Johnston St	10/09/2021	6:07 PM	Attended	Laeq 15 minutes	79	53.6	Compliant
NCA21 Railway Pde	10/09/2021	8:26 PM	Attended	Laeq 15 minutes	80	64.8	Compliant
NCA21 Johnston St	11/09/2021	12:22 AM	Attended	Laeq 15 minutes	80	61.6	Compliant
NCA25 Lilyfield Rd	11/09/2021	1:01 AM	Attended	Laeq 15 minutes	70	50.5	Compliant

NCA19 Foucart St	11/09/2021	1:34 AM	Attended	Laeq 15 minutes	59	48.1	Compliant
NCA33 Toelle St	21/09/2021	11:13 PM	Attended	Laeq 15 minutes	61	62.2	Compliant – construction noise was below the predicted level. Exceedance due to extraneous sources.
NCA24 Lilyfield Rd	24/09/2021	1:10 PM	Attended	Laeq 15 minutes	77	68.7	Compliant
NCA24 Hutcheson St	24/09/2021	1:35 PM	Attended	Laeq 15 minutes	71	58.2	Compliant
NCA25 Lilyfield Rd	24/09/2021	2:04 PM	Attended	Laeq 15 minutes	76	58.2	Compliant
NCA19 Ryan St	24/09/2021	2:36 PM	Attended	Laeq 15 minutes	73	55.9	Compliant
NCA33 Toelle St	27/09/2021	1:42 PM	Attended	Laeq 15 minutes	87	69.2	Compliant
NCA35 Warayama Pl	27/09/2021	2:23 PM	Attended	Laeq 15 minutes	76	51.8	Compliant
NCA36 Clubb St	27/09/2021	2:52 PM	Attended	Laeq 15 minutes	77	63.1	Compliant
NCA39 Bungay St	29/09/2021 - 2/10/2021	12:00AM - 6:00AM	unattended	Laeq 15 minutes	46	45	Compliant
NCA15 Starling St	30/09/2021	12:14 PM	Attended	Laeq 15 minutes	70	56.7	Compliant

NCA21 Railway Pde	30/09/2021	12:51 PM	Attended	Laeq 15 minutes	72	58	Compliant
NCA20 Brenan St	30/09/2021	1:32 PM	Attended	Laeq 15 minutes	68	59.7	Compliant
NCA19 Lilyfield Rd	30/09/2021	2:26 PM	Attended	Laeq 15 minutes	67	62.8	Compliant
NCA24 Lilyfield Rd	30/09/2021	2:51 PM	Attended	Laeq 15 minutes	64	62.7	Compliant