

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: October 2021

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
ICL02	7/10/2021	9.1	7.52	No	Each discharge	Compliant
CWL05	08/10/2021	25.8	7.28	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
1/10/2021	RRY-A	1.1	7.25	None visible	0.0015	<0.00005	0.031	<0.001	0.0014	0.002	0.0001	0.174	<0.0001	0.0007	0.006	Monthly	Compliant
1/10/2021	RRY-C	1	7.47	None visible	0.0008	<0.00005	0.034	<0.001	0.001	<0.002	<0.0001	0.0134	<0.0001	0.0006	0.004	Monthly	Compliant
1/10/2021	RRY-C	0.9	6.58	None visible	0.0007	<0.00005	0.034	<0.001	0.001	0.006	<0.0001	0.0157	<0.0001	0.0006	0.005	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 October 2021 reporting period. All construction noise monitoring results were compliant during this period. There were four exceedances recorded above the target level however this was the result of extraneous activities (traffic). 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
NCA21 Pritchard St	6/10/2021	12:44 PM	Attended	Laeq 15 minutes	79	60.9	Compliant
NCA21 Johnston St	6/10/2021	1:05 PM	Attended	Laeq 15 minutes	92	59.5	Compliant
NCA21 Railway Pde	6/10/2021	2:26 PM	Attended	Laeq 15 minutes	82	65.7	Compliant
NCA21 Johnston St	7/10/2021	1:32 PM	Attended	Laeq 15 minutes	73	61.2	Compliant
NCA27 Alexandra Rd	19/10/2021	10:45 PM	Attended	Laeq 15 minutes	61	52.4	Compliant
NCA19 Cecily St	19/10/2021	4:19 PM	Attended	Laeq 15 minutes	64	61.4	Compliant
NCA16 Lilyfield Rd	19/10/2021	4:39 PM	Attended	Laeq 15 minutes	64	66.5	Compliant – construction was inaudible.
NCA25 Lilyfield Rd	19/10/2021	11:10 PM	Attended	Laeq 15 minutes	80	64.1	Compliant
NCA35 Warayarna Plaee	19/10/2021	12:00 AM	Attended	Laeq 15 minutes	85	62.1	Compliant
NCA20 Brenan St	21/10/2021	1:55 PM	Attended	Laeq 15 minutes	61	61.1	Compliant – extraneous noise was the dominate noise source (traffic).

NCA24 Denison St	21/10/2021	2:30 PM	Attended	Laeq 15 minutes	64	65.6	Compliant – construction noise was inaudible.
NCA25 Lilyfield Rd	21/10/2021	2:55 PM	Attended	Laeq 15 minutes	69	60.8	Compliant
NCA24 Burt St	25/10/2021	1:59 PM	Attended	Laeq 15 minutes	65	55.6	Compliant
NCA24 Gordon St	25/10/2021	2:18 PM	Attended	Laeq 15 minutes	64	59.9	Compliant
NCA25 Lilyfield Rd	25/10/2021	2:39 PM	Attended	Laeq 15 minutes	73	61.7	Compliant
NCA25 Hornsey St	25/10/2021	3:00 PM	Attended	Laeq 15 minutes	61	60.5	Compliant
OSR21 James Craig Rd	28/10/2021	8:06 PM	Attended	Laeq 15 minutes	89	68.6	Compliant
NCA21 Johnston St	28/10/2021	11:35 PM	Attended	Laeq 15 minutes	58	58.3	Compliant – VRE construction work inaudible.
NCA20 Brenan St	28/10/2021	11:59 PM	Attended	Laeq 15 minutes	61	59.6	Compliant