

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: May 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.

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	7/05/2021	48.8	7.57	No	Each discharge	Compliant
ICL02	7/05/2021	35.7	7.22	No	Each discharge	Compliant
ICL06	20/05/2021	23.1	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
04/05/2021	RRY-A	0.1	7.54	None visible	0.0007	<0.0005	0.019	<0.001	0.0017	0.022	0.0002	0.0217	<0.0001	0.0006	0.005	Monthly	Compliant
04/05/2021	RRY-C	0.6	7.02	None visible	0.001	<0.0005	0.018	<0.001	0.0006	0.004	<0.0001	0.984	<0.0001	0.0008	0.002	Monthly	Compliant
04/05/2021	RRY-C	0.2	6.73	None visible	0.001	<0.0005	0.017	<0.001	0.0008	<0.002	<0.0001	0.034	<0.0001	0.0006	0.001	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 over the May 2021 reporting period. All construction noise monitoring results were complaint during this period. There were five exceedances recorded above the target level, however this was the result of extraneous noise (traffic was the dominate noise passing by on nearby roads) and not the result of construction activities. 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
NCA27 Glebe Point Road	05/05/2021	10:45 PM	Attended	Laeq 15 minutes	47	49.6	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Rd	05/05/2021	10:20 PM	Attended	Laeq 15 minutes	52	61.9	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Rd	07/05/2021	10:30 PM	Attended	Laeq 15 minutes	52	61	Compliant, exceedance due to non-JHCPB activities
NCA27 Glebe Point Road	07/05/2021	10:05 PM	Attended	Laeq 15 minutes	47	54	Compliant, exceedance due to non-JHCPB activities
NCA36 Toelle Street	18/05/2021	1:45 AM	Attended	Laeq 15 minutes	73	50.9	Compliant
NCA33 Callan Street	18/05/2021	1:20 AM	Attended	Laeq 15 minutes	71	55.5	Compliant
NCA34 Terry Street	18/05/2021	1:00 AM	Attended	Laeq 15 minutes	74	68.6	Compliant
NCA35 Yarra Avenue	18/05/2021	12:45 AM	Attended	Laeq 15 minutes	79	68.4	Compliant
NCA33 Callan Street	19/05/2021	12:30 AM	Attended	Laeq 15 minutes	71	50.6	Compliant
NCA36 Toelle Street	19/05/2021	12:10 PM	Attended	Laeq 15 minutes	73	51.3	Compliant
NCA15 Balmain Rd	27/05/2021	11:55 PM	Attended	Laeq 15 minutes	63	73	Compliant, exceedance due to non-JHCPB activities
NCA11 Lilyfield Rd	27/05/2021	11:30 PM	Attended	Laeq 15 minutes	77	74	Compliant