

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: August 2021

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
Document No.	RIC-JHC-RPT-00-EN-001-108
Revision Date	7 September 2021

Document Approval

Rev	Date	Prepared by	Reviewed by	Approved by	Remarks
00	7/09/2021	██████	██████	██████	

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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	20/08/2021	15.6	8.32	No	Each discharge	Compliant
ICL02	20/08/2021	23.7	8.5	No	Each discharge	Compliant
ICL02	25/08/2021	22.9	7.75	No	Each discharge	Compliant
ICL02	25/08/2021	16.3	7.95	No	Each discharge	Compliant
ICL02	25/08/2021	45.1	8.2	No	Each discharge	Compliant
ICL02	25/08/2021	21.7	8.5	No	Each discharge	Compliant
ICL02	26/08/2021	19.3	7.34	No	Each discharge	Compliant
ICL02	26/08/2021	41.4	7.92	No	Each discharge	Compliant
ICL02	26/08/2021	48.4	6.95	No	Each discharge	Compliant
ICL02	26/08/2021	47.5	7.23	No	Each discharge	Compliant
ICL02	30/08/2021	24.3	7.92	No	Each discharge	Compliant
ICL02	30/08/2021	42	7.23	No	Each discharge	Compliant
ICL02	30/08/2021	2.2	8.01	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
04/08/2021	RRY-A	0.4	7.14	None visible	0.0007	<0.00005	0.001	0.002	0.0013	0.011	0.0004	0.183	<0.0001	0.0016	0.008	Monthly	Compliant
05/08/2021	RRY-C	0.8	7.09	None visible	0.0004	<0.00005	0.01	<0.001	0.001	0.003	<0.0001	0.045	<0.0001	0.0016	0.002	Monthly	Compliant
05/08/2021	RRY-C	1.2	7.22	None visible	0.0004	<0.00005	0.011	<0.001	0.001	0.005	<0.0001	0.0365	<0.0001	0.09	0.002	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 August 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 the dominate noise source. 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
NCA16 Lilyfield Rd	30/08/2021	9:40 PM	Attended	Laeq 15 minutes	75	70.5	Compliant
NCA16 Lilyfield Rd	31/08/2021	9:30 PM	Attended	Laeq 15 minutes	75	72.3	Compliant
NCA32 Waterloo St	25/08/2021 – 30/08/2021	10:30am – 9:30am	Unattended	Laeq 15 minutes running	45	41	Compliant
NCA24 Denison St	30/08/2021	10:20 PM	Attended	Laeq 15 minutes	49	46.7	Compliant
NCA24 Burt St	30/08/2021	10:40 PM	Attended	Laeq 15 minutes	49	43.3	Compliant
NCA24 Denison St	30/08/2021	11:00PM	Attended	Laeq 15 minutes	49	46.3	Compliant