

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: December 2020

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 contains 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
RRY03	01/12/2020	31	8.2	No	Each discharge	Compliant
RRY03	08/12/2020	19	6.9	No	Each discharge	Compliant
RRY03	09/12/2020	21	7.7	No	Each discharge	Compliant
ICL02	11/12/2020	49.2	8.19	No	Each discharge	Compliant
ICL02	14/12/2020	22	8.49	No	Each discharge	Compliant
ICL01	16/12/2020	11.2	7.62	No	Each discharge	Compliant
ICL02	17/12/2020	23.4	6.52	No	Each discharge	Compliant
ICL02	16/12/2020	42.1	7.03	No	Each discharge	Compliant
ICL02	17/12/2020	12.4	6.83	No	Each discharge	Compliant
ICL02	17/12/2020	45.3	8.09	No	Each discharge	Compliant
ICL02	17/12/2020	49.1	7.81	No	Each discharge	Compliant
CWL02	17/12/2020	16.8	7.93	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
04/12/2020	WTP-A	7.4	7.6	None visible	<0.0005	<0.0002	0.023	<0.001	<0.001	<0.005	<0.0002	0.0034	<0.0001	<0.0005	<0.005	Monthly	Compliant
04/12/2020	WTP-B	7.7	14.6	None visible	<0.0005	<0.0002	0.027	<0.001	0.006	<0.005	<0.0002	0.022	<0.0001	0.0006	<0.005	Monthly	Compliant
04/12/2020	WTP-C	7.5	6.8	None visible	<0.0006	<0.0002	0.026	<0.001	0.002	<0.005	<0.0002	0.0153	<0.0001	0.0011	0.013	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 December 2020 reporting period. All noise monitoring results were compliant during this period, with no exceedances recorded above the target level. 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
NCA29 Crescent Street	01/12/2020	11:30 PM	Attended	Laeq 15 minutes	64	55	Compliant
NCA25 Lilyfield Road	02/12/2020	10:00 PM	Attended	Laeq 15 minutes	85	70.1	Compliant
NCA25 Lilyfield Road	02/12/2020	12:45 AM	Attended	Laeq 15 minutes	85	68.9	Compliant
NCA21 Johnson Street	02/12/2020	1:20 AM	Attended	Laeq 15 minutes	73	50.5	Compliant
NCA27 Glebe Point Road	02/12/2020	1:45 AM	Attended	Laeq 15 minutes	64	53.5	Compliant
NCA27 Glebe Point Road	02/12/2020	10:40 PM	Attended	Laeq 15 minutes	64	51.1	Compliant
NCA21 Johnston Street	02/12/2020	11:10 PM	Attended	Laeq 15 minutes	73	52.6	Compliant
NCA29 Crescent Street	02/12/2020	11:30 PM	Attended	Laeq 15 minutes	64	55.9	Compliant
NCA21 Johnston Street	03/12/2020	1:10 AM	Attended	Laeq 15 minutes	73	50.5	Compliant
NCA25 Lilyfield Road	03/12/2020	12:45 AM	Attended	Laeq 15 minutes	85	72.6	Compliant
NCA27 Glebe Point Rd	03/12/2020	1:45 AM	Attended	Laeq 15 minutes	64	44.4	Compliant