

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: November 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
ICL02	02/11/2020	34.6	7.44	No	Each discharge	Compliant
ICL01	02/11/2020	39.5	8.08	No	Each discharge	Compliant
ICL02	02/11/2020	25.3	7.16	No	Each discharge	Compliant
ICL02	02/11/2020	47.8	8.34	No	Each discharge	Compliant
RRY03	03/11/2020	42	8.40	No	Each discharge	Compliant
CWL06	03/11/2020	23.5	7.95	No	Each discharge	Compliant
ICL02	06/11/2020	36.3	6.78	No	Each discharge	Compliant
ICL02	06/11/2020	27.6	8.36	No	Each discharge	Compliant
ICL02	17/11/2020	26.2	7.21	No	Each discharge	Compliant
RRY03	18/11/2020	20	8.10	No	Each discharge	Compliant
ICL01	19/11/2020	1.2	7.59	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
24/11/2020	RRY-A	0	6.8	None visible	<0.001	0.0002	0.015	<0.005	0.001	<0.05	<0.001	<0.005	<0.0001	<0.001	<0.005	Monthly	Compliant
24/11/2020	RRY-C	8.6	7.6	None visible	<0.001	0.0002	0.017	<0.005	0.004	<0.05	<0.001	0.006	<0.0001	<0.001	<0.005	Monthly	Compliant
24/11/2020	RRY-C	1.1	7.95	None visible	<0.001	0.0002	0.022	<0.005	0.001	<0.05	<0.001	<0.005	<0.0001	<0.001	<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 this reporting period. Table 3 contains the 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
NCA33 Callan Street	02/11/2020	10:16 PM	Attended	Laeq 15 minutes	79	53.7	Compliant
NCA36 Toelle Street	02/11/2020	9:59 PM	Attended	Laeq 15 minutes	78	46.0	Compliant
NCA34 Terry Street	02/11/2020	9:31 PM	Attended	Laeq 15 minutes	82	64.2	Compliant
NCA35 Terry Street	02/11/2020	8:58 PM	Attended	Laeq 15 minutes	71	56.4	Compliant
NCA25 Lilyfield Road	12/11/2020	10:10 PM	Attended	Laeq 15 minutes	71	56.1	Compliant
NCA24 Denison Street	12/11/2020	10:30 PM	Attended	Laeq 15 minutes	58	54.0	Compliant
NCA21 Bayview Crescent	12/11/2020	11:00 PM	Attended	Laeq 15 minutes	63	52.2	Compliant
NCA27 Glebe Point Road	12/11/2020	11:30 PM	Attended	Laeq 15 minutes	54	53.6	Compliant
NCA34 Terry Street	15/11/2020	8:23 PM	Attended	Laeq 15 minutes	82	56.5	Compliant
NCA36 Toelle Street	15/11/2020	9:09 PM	Attended	Laeq 15 minutes	78	48.8	Compliant
NCA33 Callan Street	15/11/2020	8:50 PM	Attended	Laeq 15 minutes	79	58.8	Compliant
NCA35 Terry Street	15/11/2020	8:05 PM	Attended	Laeq 15 minutes	71	61.0	Compliant
NCA36 Toelle Street	17/11/2020	10:00 PM	Attended	Laeq 15 minutes	78	48.1	Compliant
NCA33 Callan Street	17/11/2020	9:43 PM	Attended	Laeq 15 minutes	79	57.8	Compliant
NCA35 Terry Street	17/11/2020	9:13 PM	Attended	Laeq 15 minutes	71	64.9	Compliant
NCA34 Terry Street	17/11/2020	8:56 PM	Attended	Laeq 15 minutes	82	54.8	Compliant
NCA36 Clubb Street	19/11/2020	9:29 PM	Attended	Laeq 15 minutes	75	56.7	Compliant
NCA36 Byrnes Street	19/11/2020	9:36 PM	Attended	Laeq 15 minutes	80	63.7	Compliant
NCA35 Warayama Place	19/11/2020	9:16 PM	Attended	Laeq 15 minutes	76	74.2	Compliant
NCA36 Byrnes Street	23/11/2020	10:20 PM	Attended	Laeq 15 minutes	80	55.8	Compliant

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA35 Warayama Place	23/11/2020	10:45 PM	Attended	Laeq 15 minutes	76	51.9	Compliant
NCA36 Clubb Street	23/11/2020	10:00 PM	Attended	Laeq 15 minutes	75	50.9	Compliant
NCA25 Lilyfield Road	23/11/2020	11:45 PM	Attended	Laeq 15 minutes	85	66.3	Compliant
NCA24 Burt Street	23/11/2020	11:15 AM	Attended	Laeq 15 minutes	67	49.3	Compliant
NCA25 Hornsey Street	24/11/2020	1:45 AM	Attended	Laeq 15 minutes	78	51.4	Compliant
NCA29 Crescent Street	24/11/2020	12:45 AM	Attended	Laeq 15 minutes	64	56.5	Compliant
NCA27 Glebe Point Road	24/11/2020	1:10 AM	Attended	Laeq 15 minutes	64	44.5	Compliant