

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: September 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
ICL06	01/09/2020	44.8	7.22	No	Each discharge	Compliant
ICL02	02/09/2020	0.0	8.41	No	Each discharge	Compliant
ICL04	02/09/2020	46.6	7.17	No	Each discharge	Compliant
ICL04	02/09/2020	39.5	8.43	No	Each discharge	Compliant
ICL02	03/09/2020	0.0	6.68	No	Each discharge	Compliant
ICL02	05/09/2020	10.9	8.41	No	Each discharge	Compliant
ICL04	04/09/2020	9.8	7.52	No	Each discharge	Compliant
ICL02	05/09/2020	16.4	6.66	No	Each discharge	Compliant
ICL02	07/09/2020	40.1	8.04	No	Each discharge	Compliant
ICL02	08/09/2020	32.3	6.81	No	Each discharge	Compliant
ICL04	08/09/2020	42.4	8.32	No	Each discharge	Compliant
ICL02	08/09/2020	33.9	7.56	No	Each discharge	Compliant
CWL03	09/09/2020	0.0	8.42	No	Each discharge	Compliant
ICL02	11/09/2020	22.0	7.92	No	Each discharge	Compliant
ICL04	14/09/2020	28.7	8.41	No	Each discharge	Compliant
ICL02	15/09/2020	3.0	6.66	No	Each discharge	Compliant
VRE04	19/09/2020	3.6	7.07	No	Each discharge	Compliant
ICL02	21/09/2020	24.0	6.91	No	Each discharge	Compliant
ICL02	21/09/2020	39.3	8.11	No	Each discharge	Compliant
ICL02	21/09/2020	42.8	7.07	No	Each discharge	Compliant
ICL03	22/09/2020	12.3	7.99	No	Each discharge	Compliant
ICL03	25/09/2020	42.6	7.54	No	Each discharge	Compliant
RRY03	25/09/2020	3.4	8.2	No	Each discharge	Compliant
ICL02	28/09/2020	0.0	7.24	No	Each discharge	Compliant
ICL03	28/09/2020	0.0	7.75	No	Each discharge	Compliant

¹ A correlation between TSS and Turbidity has been established. Including a safety factor the turbidity limit is 50 NTU

Discharge/Monitoring Point	Date sampled	Turbidity (NTU)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Visible	N/A	Licence Limit
ICL03	30/09/2020	6.8	7.74	No	Each discharge	Compliant

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
22/09/2020	RRY-A	1.1	6.9	None visible	0.001	0.0002	0.011	0.005	0.001	0.05	0.001	0.033	0.0001	0.001	0.005	Monthly	Compliant
22/09/2020	RRY-C	5.2	8.21	None visible	0.001	0.0002	0.014	0.005	0.001	0.05	0.001	0.005	0.0001	0.001	0.005	Monthly	Compliant
22/09/2020	RRY-C	5.0	7.13	None visible	0.001	0.0002	0.014	0.005	0.002	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
NCA21 Johnston Street	02/09/2020	10:00 PM	Attended	Laeq 15 minutes	79	66.5	
NCA21 Bayview Crescent	02/09/2020	10:20 PM	Attended	Laeq 15 minutes	63	58.9	
NCA29 The Crescent	02/09/2020	11:15 PM	Attended	Laeq 15 minutes	62	58.9	
NCA21 Johnston Street	03/09/2020	12:00 AM	Attended	Laeq 15 minutes	79	69.9	
NCA27 Alexandra Road	03/09/2020	12:45 AM	Attended	Laeq 15 minutes	56	47.0	
NCA24 Denison Street	03/09/2020	1:30 AM	Attended	Laeq 15 minutes	58	50.3	
NCA25 Lilyfield Road	03/09/2020	2:00 AM	Attended	Laeq 15 minutes	64	46.3	
NCA25 Lilyfield Road	05/09/2020	10:47 PM	Attended	Laeq 15 minutes	71	61.4	
NCA27 Glebe Point Road	05/09/2020	11:51 PM	Attended	Laeq 15 minutes	54	46.9	
NCA 29 Mansfield St Rozelle	05/09/2020	11:20 PM	Attended	Laeq 15 minutes	55	49.8	
NCA27 Glebe Point Road	06/09/2020	4:45 AM	Attended	Laeq 15 minutes	54	41.8	
NCA21 Johnston street	06/09/2020	4:20 AM	Attended	Laeq 15 minutes	58	52.5	
NCA25 Lilyfield Road	06/09/2020	3:53 AM	Attended	Laeq 15 minutes	71	52.7	
NCA25 Lilyfield Road	06/09/2020	3:35 AM	Attended	Laeq 15 minutes	71	52.3	
NCA29 Mansfield Street	06/09/2020	3:03 AM	Attended	Laeq 15 minutes	55	45.7	
NCA27 Glebe Point Road	06/09/2020	2:33 AM	Attended	Laeq 15 minutes	54	47.5	
NCA21 Johnston street	06/09/2020	2:07 AM	Attended	Laeq 15 minutes	58	46.8	
NCA21 Johnston street	06/09/2020	12:21 AM	Attended	Laeq 15 minutes	58	49.4	
NCA20 Brenan Street	10/09/2020	3:10 AM	Attended	Laeq 15 minutes	61	43.9	
NCA21 Railway Parade	10/09/2020	2:50 AM	Attended	Laeq 15 minutes	70	45.4	
NCA21 Johnston Street (North)	10/09/2020	12:55 AM	Attended	Laeq 15 minutes	81	55.9	
NCA27 Glebe Point Road	11/09/2020	9:40 PM	Attended	Laeq 15 minutes	54	52.5	
NCA25 Lilyfield Road	11/09/2020	10:15 PM	Attended	Laeq 15 minutes	71	62.5	
NCA21 Johnston Street	11/09/2020	11:00 PM	Attended	Laeq 15 minutes	58	59.6	Works not audible. Traffic dominant noise source

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA25 Lilyfield Road	11/09/2020	11:45 PM	Attended	Laeq 15 minutes	71	63.8	
NCA29 Mansfield Street	12/09/2020	12:20 AM	Attended	Laeq 15 minutes	55	45.6	
NCA27 Glebe Point Road	12/09/2020	12:50 AM	Attended	Laeq 15 minutes	54	49.2	
NCA27 Glebe Point Road	12/09/2020	1:40 AM	Attended	Laeq 15 minutes	54	52.2	
NCA25 Lilyfield Road	12/09/2020	2:10 AM	Attended	Laeq 15 minutes	71	59.3	
NCA25 Lilyfield Road	12/09/2020	9:15 PM	Attended	Laeq 15 minutes	71	64	
NCA27 Glebe Point Road	12/09/2020	9:55 PM	Attended	Laeq 15 minutes	54	59.6	Works faintly audible. Traffic dominant noise source
NCA21 Johnston Street	12/09/2020	10:25 PM	Attended	Laeq 15 minutes	58	61.3	Works not audible. Traffic dominant noise source
NCA29 Mansfield Street	12/09/2020	10:55 PM	Attended	Laeq 15 minutes	55	45.6	
NCA25 Lilyfield Road	12/09/2020	11:30 PM	Attended	Laeq 15 minutes	71	62.9	
NCA27 Glebe Point Road	13/09/2020	12:00 AM	Attended	Laeq 15 minutes	54	51.7	
NCA25 Lilyfield Road	13/09/2020	12:30 AM	Attended	Laeq 15 minutes	71	62.7	
NCA21 Johnston Street (North)	17/09/2020	11:06 PM	Attended	Laeq 15 minutes	86	55.6	
NCA27 Northcote Road	18/09/2020	3:21 AM	Attended	Laeq 15 minutes	64	40.6	
NCA21 Railway Parade	18/09/2020	2:21 AM	Attended	Laeq 15 minutes	72	47.6	
NCA25 47-51 Lilyfield Road	18/09/2020	1:35 AM	Attended	Laeq 15 minutes	69	52.8	
NCA24 Hutcheson Street	18/09/2020	1:01 AM	Attended	Laeq 15 minutes	67	52.5	
NCA19 Foucart Street	18/09/2020	12:26 AM	Attended	Laeq 15 minutes	66	50.2	
NCA29 Mansfield Street	19/09/2020	5:40 AM	Attended	Laeq 15 minutes	55	45.1	
NCA25 Lilyfield Road	19/09/2020	5:15 AM	Attended	Laeq 15 minutes	71	57.8	
NCA21 Johnston Street	19/09/2020	4:50 AM	Attended	Laeq 15 minutes	80	58.7	
NCA27 Glebe point Road	19/09/2020	4:30 AM	Attended	Laeq 15 minutes	58	44.6	
NCA21 Glebe point Road	19/09/2020	2:25 AM	Attended	Laeq 15 minutes	54	43.9	
NCA21 Johnston Street	19/09/2020	1:55 AM	Attended	Laeq 15 minutes	80	57	

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA25 Lilyfield Road	19/09/2020	1:15 AM	Attended	Laeq 15 minutes	71	54.3	
NCA29 Mansfield Street	19/09/2020	1:35 AM	Attended	Laeq 15 minutes	55	49.3	
NCA21 Lilyfield Road	21/09/2020	11:38 PM	Attended	Laeq 15 minutes	86	60.5	
NCA25 Quirk Street	22/09/2020	2:57 AM	Attended	Laeq 15 minutes	80	59.7	
NCA21 Johnston Street	22/09/2020	2:23 AM	Attended	Laeq 15 minutes	80	49.5	
NCA27 Glebe Point Road	22/09/2020	1:45 AM	Attended	Laeq 15 minutes	67	50.1	
NCA24 Burt Street	22/09/2020	1:15 AM	Attended	Laeq 15 minutes	70	41.8	
NCA29 Mansfield Street	22/09/2020	12:03 AM	Attended	Laeq 15 minutes	62	42	
NCA24 Burt Street	24/09/2020	11:15 PM	Attended	Laeq 15 minutes	70	49.8	
NCA25 Lilyfield Road	24/09/2020	11:38 PM	Attended	Laeq 15 minutes	86	58.1	
NCA29 Mansfield Street	25/09/2020	1:50 AM	Attended	Laeq 15 minutes	62	48.7	
NCA21 Johnston Street	25/09/2020	12:35 AM	Attended	Laeq 15 minutes	80	58.7	
NCA25 Quirk Street	25/09/2020	12:05 AM	Attended	Laeq 15 minutes	80	60.8	
NCA27 Glebe point Road	25/09/2020	1:00 AM	Attended	Laeq 15 minutes	67	49.6	
NCA29 Mansfield Street	25/09/2020	1:30 AM	Attended	Laeq 15 minutes	62	38.4	