

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: October 2020

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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Contents

1. Introduction.....	3
2. Environmental Protection Licence and Reporting Requirements.....	4
3. Water Monitoring	5
4. Noise Monitoring.....	9

Table of Figures

Figure 1 Westconnex Project Overview	3
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Table of Tables

Table 1 Surface water quality monitoring results.....	6
Table 2 Water quality monitoring results at Water Treatment Plant which processes ground water	8
Table 3 Noise monitoring results.....	10

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	07/10/2020	31.9	6.81	No	Each discharge	Compliant
ICL02	15/10/2020	15.8	7.79	No	Each discharge	Compliant
ICL03	16/10/2020	17.9	7.97	No	Each discharge	Compliant
ICL02	23/10/2020	36.0	7.34	No	Each discharge	Compliant
RRY03	26/10/2020	20	8.30	No	Each discharge	Compliant
RRY03	26/10/2020	25	8.20	No	Each discharge	Compliant
ICL02	27/10/2020	46.2	7.36	No	Each discharge	Compliant
ICL01	27/10/2020	18.6	8.18	No	Each discharge	Compliant
ICL02	27/10/2020	16.5	6.86	No	Each discharge	Compliant
RRY03	27/10/2020	32	8.0	No	Each discharge	Compliant
ICL02	27/10/2020	14.6	8.25	No	Each discharge	Compliant
ICL02	27/10/2020	26.9	7.76	No	Each discharge	Compliant
ICL02	27/10/2020	31.1	8.48	No	Each discharge	Compliant
ICL02	28/10/2020	24.4	7.87	No	Each discharge	Compliant
ICL02	28/10/2020	33.1	7.54	No	Each discharge	Compliant
ICL01	28/10/2020	31.7	7.44	No	Each discharge	Compliant
ICL01	28/10/2020	34.3	6.95	No	Each discharge	Compliant
ICL02	28/10/2020	42.7	7.18	No	Each discharge	Compliant
RRY03	28/10/2020	20	8.30	No	Each discharge	Compliant
RRY03	28/10/2020	22	8.10	No	Each discharge	Compliant
ICL01	29/10/2020	17.5	7.05	No	Each discharge	Compliant
ICL06	28/10/2020	38.1	7.53	No	Each discharge	Compliant
ICL02	29/10/2020	49.2	7.33	No	Each discharge	Compliant
ICL02	29/10/2020	21.9	7.03	No	Each discharge	Compliant
ICL07	29/10/2020	1.0	8.31	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
ICL01	29/10/2020	40.5	8.50	No	Each discharge	Compliant
ICL02	30/10/2020	12.1	7.49	No	Each discharge	Compliant
ICL02	30/10/2020	14.7	7.40	No	Each discharge	Compliant
ICL01	30/10/2020	25	6.57	No	Each discharge	Compliant
CWL02	30/10/2020	40.9	8.41	No	Each discharge	Compliant
ICL02	30/10/2020	0.0	7.98	No	Each discharge	Compliant
ICL01	30/10/2020	35.5	6.70	No	Each discharge	Compliant
ICL01	31/10/2020	13.8	6.75	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
20/10/2020	RRY-A	0.0	7.8	None visible	0.001	0.0002	0.015	0.006	0.001	0.05	0.001	0.013	0.0001	0.001	0.005	Monthly	Compliant
20/10/2020	RRY-C	6.4	7.4	None visible	0.001	0.0002	0.019	0.005	0.001	0.05	0.001	0.039	0.0001	0.001	0.005	Monthly	Compliant
20/10/2020	RRY-C	1.0	6.8	None visible	0.001	0.0002	0.011	0.005	0.0014	0.05	0.001	0.009	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
NCA25 Quirk Street, Rozelle	01/10/2020	10:22 PM	Attended	Laeq 15 minutes	76	51.9	
NCA29 Crescent Street, Rozelle	01/10/2020	10:53 PM	Attended	Laeq 15 minutes	82	54.6	
NCA24 Withecombe Street, Rozelle	01/10/2020	11:19 PM	Attended	Laeq 15 minutes	79	58.5	
NCA29 Evans Street, Rozelle	01/10/2020	11:45 PM	Attended	Laeq 15 minutes	79	59.6	
NCA30 Prosper Street, Rozelle	02/10/2020	12:21 AM	Attended	Laeq 15 minutes	80	66.6	
NCA25 Quirk Street, Rozelle	02/10/2020	9:04 PM	Attended	Laeq 15 minutes	62	52.1	
NCA29 Crescent Street, Rozelle	02/10/2020	9:34 PM	Attended	Laeq 15 minutes	65	57.6	
NCA33 Springside Street, Rozelle	09/10/2020	1:46 PM	Attended	Laeq 15 minutes	73	68.9	
NCA33 Callan Street, Rozelle	09/10/2020	4:11 PM	Attended	Laeq 15 minutes	73	66.4	
NCA35 Terry Street, Rozelle	20/10/2020	9:23 PM	Attended	Laeq 15 minutes	71	57.4	
NCA34 Terry Street, Rozelle	20/10/2020	9:41 PM	Attended	Laeq 15 minutes	82	54.2	
NCA36 3 Toelle Street, Rozelle	20/10/2020	10:08 PM	Attended	Laeq 15 minutes	78	50.5	
NCA33 Callan Street, Rozelle	20/10/2020	10:26 PM	Attended	Laeq 15 minutes	79	60.2	
NCA35 Yara Avenue, Rozelle	20/10/2020	11:00 PM	Attended	Laeq 15 minutes	84	47.1	