

JHCPB Joint Venture

# EPL Monthly Monitoring Report

Reporting Period: July 2022

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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## Document Approval

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## Contents

1. Introduction.....	3
2. Environmental Protection Licence and Reporting Requirements.....	4
3. Water Monitoring .....	5
4. Noise Monitoring.....	8

## Table of Figures

Figure 1 Westconnex Project Overview .....	3
--------------------------------------------	---

## 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	7
Table 3. Noise monitoring results.....	9

## 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 <sup>1</sup>	6.5-8.5	Visible	N/A	Licence Limit
RRY-03	04/07/2022	45	7.8	No	Each Discharge	Compliant
RRY-03	04/07/2022	48	7.8	No	Each Discharge	Compliant
RRY-03	04/07/2022	47	7.3	No	Each Discharge	Compliant
RRY-03	04/07/2022	40	7.3	No	Each Discharge	Compliant
RRY-03	04/07/2022	49	6.8	No	Each Discharge	Compliant
RRY-03	05/07/2022	41	7.9	No	Each Discharge	Compliant
RRY-03	05/07/2022	37	8.0	No	Each Discharge	Compliant
RRY-03	05/07/2022	32	8.0	No	Each Discharge	Compliant
RRY-03	05/07/2022	41	8.0	No	Each Discharge	Compliant
RRY-06	05/07/2022	22	8.4	No	Each Discharge	Compliant
RRY-A	06/07/2022	2.9	7.82	No	Each Discharge	Compliant
RRY-A	06/07/2022	5.2	7.69	No	Each Discharge	Compliant
RRY-06	06/07/2022	39	8.3	No	Each Discharge	Compliant
VRE-07	07/07/2022	32	6.9	No	Each Discharge	Compliant
RRY-A	07/07/2022	9.3	8.39	No	Each Discharge	Compliant
RRY-A	07/07/2022	9.6	8.45	No	Each Discharge	Compliant
RRY-06	07/07/2022	29	8.3	No	Each Discharge	Compliant
RRY-A	07/07/2022	38.1	8.23	No	Each Discharge	Compliant
VRE-07	08/07/2022	32	7.4	No	Each Discharge	Compliant
VRE-07	09/07/2022	38	8.1	No	Each Discharge	Compliant
VRE-07	11/07/2022	32	7.5	No	Each Discharge	Compliant
RRY-A	11/07/2022	10.6	8.26	No	Each Discharge	Compliant
RRY-03	14/07/2022	18	7.6	No	Each Discharge	Compliant
RRY-03	14/07/2022	38	7.7	No	Each Discharge	Compliant

<sup>1</sup> 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 <sup>1</sup>	6.5 - 8.5	Visible	0.05	0.014	0.07 <sup>2</sup>	0.15	0.04 <sup>2</sup>	1.5	0.03	2.5	0.0007	0.2	0.15 <sup>2</sup>	N/A	Licence Limit
04/07/2022	RRY-C	2.0	8.04	None visible	<0.0002	<0.00005	<0.010	0.012	0.0009	<0.002	0.0002	0.003	<0.0001	<0.0005	0.003	04/07/2022	RRY-C
04/07/2022	RRY-C	0.6	6.89	None visible	0.0006	<0.00005	0.002	0.002	0.0008	0.022	<0.0001	0.19	<0.0001	<0.0005	0.006	04/07/2022	RRY-C

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

<sup>2</sup> 90 Percentile concentration limit.

## 4. Noise Monitoring

Noise monitoring was undertaken during the July 2022 reporting period. All construction noise monitoring results were compliant during this period. Where the predicted noise level was exceeded, this was result of extraneous activities (traffic passing). Construction noise was audible and in line with the predicted levels. 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
NCA24: Evans St, Rozelle	09/07/2022 – 15/07/2022	24hr	Unattended	Laeq 1 minute	39	33	Compliant
NCA20: Brenan Street, Lilyfield	15/07/2022	9:26 AM	Attended	Laeq 15 minute	61	59.4	Compliant
NCA27: Glebe Point Road, Glebe	15/07/2022	10:10 AM	Attended	Laeq 15 minute	64	60.7	Compliant
NCA 21: Johnston St, Annandale	15/07/2022	10:38 AM	Attended	Laeq 15 minute	81	65.2	Compliant
NCA 21: Pritchard Street, Annandale	15/07/2022	11:01 AM	Attended	Laeq 15 minute	79	56.4	Compliant
NCA21: Johnston Street, Annandale	21/07/2022	10:42 PM	Attended	Laeq 15 minute	68	52.7	Compliant
NCA27: Alexandra Road, Glebe	21/07/2022	11:07 PM	Attended	Laeq 15 minute	65	54.6	Compliant
NCA35: Warayama Pl, Rozelle	26/07/2022	10:12 AM	Attended	Laeq 15 minute	90	67.5	Compliant
NCA36: Clubb Street, Rozelle	26/07/2022	10:30 AM	Attended	Laeq 15 minute	77	57.8	Compliant
NCA33: Toelle St, Rozelle	26/07/2022	10:43 AM	Attended	Laeq 15 minute	80	62.8	Compliant

NCA20: Brenan St, Lilyfield	27/07/2022	11:20 PM	Attended	Laeq 15 minute	61	52.6	Compliant
NCA27: Alexandra Road, Glebe	27/07/2022	11:52 PM	Attended	Laeq 15 minute	52	50.9	Compliant
NCA21: Johnston Street, Annandale	28/07/2022	12:33 AM	Attended	Laeq 15 minute	68	47.9	Compliant
NCA15: Brenan St, Lilyfield	28/07/2022	1:04 AM	Attended	Laeq 15 minute	61	68.3	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA19: Ryan St, Lilyfield	28/07/2022	1:44 AM	Attended	Laeq 15 minute	65	49.7	Compliant
NCA24: Hutcheson St, Rozelle	28/07/2022	2:08 AM	Attended	Laeq 15 minute	60	52.7	Compliant
NCA 25: Lilyfield Road, Rozelle	28/07/2022	2:27 AM	Attended	Laeq 15 minute	63	56.6	Compliant
NCA19: Ryan St, Lilyfield, Lilyfield	29/07/2022	1:48 PM	Attended	Laeq 15 minute	73	57.7	Compliant
NCA 25: Lilyfield Road, Rozelle	29/07/2022	2:15 PM	Attended	Laeq 15 minute	71	54.7	Compliant
NCA 19: Lilyfield Road, Lilyfield	29/07/2022	2:43 PM	Attended	Laeq 15 minute	82	68.3	Compliant