

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: October 2023

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
Document No.	RIC-JHC-RPT-00-EN-001-221
Revision Date	06 Nov 2023

Document Approval

Rev	Date	Prepared by	Reviewed by	Approved by	Remarks
00	06/11/2023	██████	██████	C. Scarf	

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 ¹	6.5-8.5	Visible	N/A	Licence Limit

No surface water monitoring for discharge was conducted during this reporting period.

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
RIC EPL 21278 - Discharge Concentrations		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
WHT Stage 3A EPL 21748 - Discharge Concentrations (Effective 19 Oct 2023)		50 ¹	6.5 - 8.5	Visible	0.0008	0.0001	0.036 ²	0.012	0.003 ²	0.022	0.0002 ²	0.045 ²	0.0001 ²	0.0014	0.02 ²	Monthly	Licence Limit
10/10/2023	RRY-MOC	0.4	7.5	None visible	<0.0002	<0.00005	0.002	<0.001	0.001	0.009	<0.0001	0.125	<0.0001	0.005	0.001	10/10/2023	RRY-MOC
26/10/2023	WHT Dis 1	0.1	7.22	None visible	0.0002	<0.00005	0.002	<0.001	<0.0005	0.003	<0.0001	<0.0005	<0.0001	<0.0005	0.005	26/10/2023	WHT Dis 1*

*Remark: Western Harbour Tunnel Stage 3A Discharge Point (WHT Dis 1) is under EPL 21748. Rozelle Interchange Discharge Point (RRY-MOC) is under EPL 21278.

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 the October 2023 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
NCA25: Lilyfield Rd, Rozelle	06/10/2023	10:30 AM	Attended	Laeq 15 minute	52	58.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Hornsey St, Rozelle	06/10/2023	10:55 AM	Attended	Laeq 15 minute	51	62	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Burt St, Rozelle	11/10/2023	9:34 AM	Attended	Laeq 15 minute	77	64.3	Compliant
NCA24: Lilyfield Rd, Rozelle	11/10/2023	9:55 AM	Attended	Laeq 15 minute	58	60.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Gordon St, Rozelle	11/10/2023	10:18 AM	Attended	Laeq 15 minute	64	53.9	Compliant
NCA24: Hutcheson St, Rozelle	12/10/2023	10:31 AM	Attended	Laeq 15 minute	53	52.7	Compliant
NCA19: Cecily St, Lilyfield	12/10/2023	10:52 AM	Attended	Laeq 15 minute	61	74.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Ryan St, Lilyfield	12/10/2023	8:19 AM	Attended	Laeq 15 minute	55	56.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA16: Lilyfield Rd, Lilyfield	12/10/2023	8:57 AM	Attended	Laeq 15 minute	76	55	Compliant
NCA27: Glebe Point Rd	12/10/2023	9:27 AM	Attended	Laeq 15 minute	72	61.8	Compliant
NCA27: Alexandra Rd, Glebe	12/10/2023	9:47 AM	Attended	Laeq 15 minute	63	56.4	Compliant
OSR: James Craig Rd, Rozelle	16/10/2023	10:15 AM	Attended	Laeq 15 minute	68	70.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: Victoria Rd, Rozelle	16/10/2023	10:53 AM	Attended	Laeq 15 minute	48	52	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA29: Crescent St, Rozelle	16/10/2023	11:17 AM	Attended	Laeq 15 minute	48	59	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA20: Brenan St, Lilyfield	24/10/2023	9:23 AM	Attended	Laeq 15 minute	43	65.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Railway Pade, Annandale	24/10/2023	9:42 AM	Attended	Laeq 15 minute	70	65.3	Compliant
NCA36: Clubb St, Rozelle	24/10/2023	10:00 AM	Attended	Laeq 15 minute	57	58.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA33: Toelle St, Rozelle	24/10/2023	10:20 AM	Attended	Laeq 15 minute	71	61.5	Compliant
NCA35: Warayama Pl, Rozelle	24/10/2023	10:38 AM	Attended	Laeq 15 minute	72	65.5	Compliant
NCA28: Bowman St, Pyrmont	24/10/2023	11:19 AM	Attended	Laeq 15 minute	62	59.8	Compliant
NCA21: Pritchard St, Annandale	24/10/2023	12:14 PM	Attended	Laeq 15 minute	49	60.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA23: Johnston St, Annandale	24/10/2023	2:27 PM	Attended	Laeq 15 minute	64	64.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Johnston St, Annandale	24/10/2023	2:52 PM	Attended	Laeq 15 minute	79	61	Compliant