

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: March 2021

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

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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.

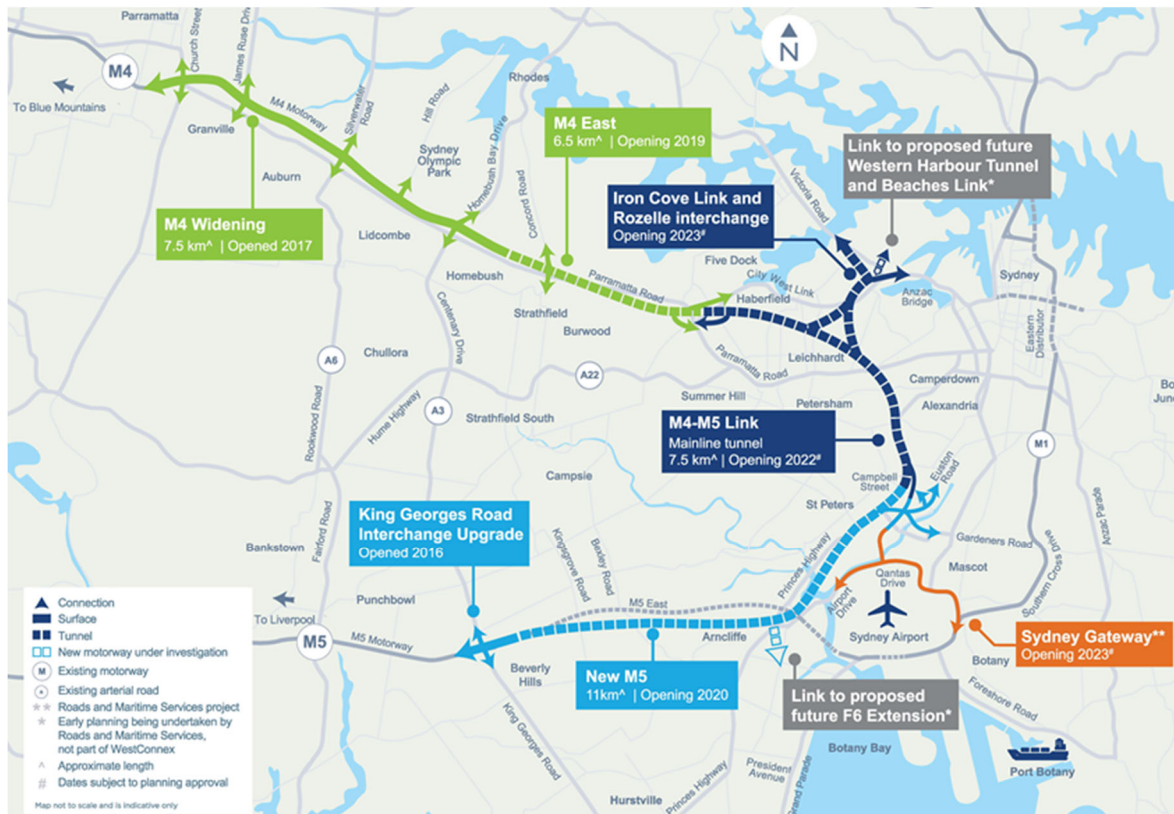


Figure 1 Westconnex Project Overview

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 contain 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 |
| CW12 | 12/03/2021 | 5.6 | 8.43 | No | Each discharge | Compliant |
| RRY06 | 15/03/2021 | 30.0 | 7.9 | No | Each discharge | Compliant |
| ICL02 | 15/03/2021 | 19.6 | 6.59 | No | Each discharge | Compliant |
| ICL02 | 15/03/2021 | 39.0 | 7.40 | No | Each discharge | Compliant |
| ICL02 | 15/03/2021 | 46.3 | 6.96 | No | Each discharge | Compliant |
| ICL02 | 15/03/2021 | 33.1 | 7.84 | No | Each discharge | Compliant |
| ICL02 | 16/03/2021 | 23 | 6.6 | No | Each discharge | Compliant |
| CWL12 | 16/03/2021 | 5.6 | 8.43 | No | Each discharge | Compliant |
| CWL06 | 16/03/2021 | 20.0 | 8.09 | No | Each discharge | Compliant |
| ICL02 | 16/03/2021 | 24.2 | 6.77 | No | Each discharge | Compliant |
| CWL06 | 17/03/2021 | 5.8 | 8.12 | No | Each discharge | Compliant |
| RRY06 | 19/03/2021 | 20 | 6.8 | No | Each discharge | Compliant |
| RRY06 | 19/03/2021 | 20.0 | 8.3 | No | Each discharge | Compliant |
| ICL02 | 19/03/2021 | 49.4 | 6.84 | No | Each discharge | Compliant |
| RRY03 | 20/03/2021 | 38.0 | 8.4 | No | Each discharge | Compliant |
| RRY06 | 20/03/2021 | 40.0 | 7.6 | No | Each discharge | Compliant |
| RRY06 | 21/03/2021 | 40.0 | 7.3 | No | Each discharge | Compliant |
| RRY06 | 21/03/2021 | 20.0 | 6.9 | No | Each discharge | Compliant |
| ICL02 | 22/03/2021 | 39.7 | 6.68 | No | Each discharge | Compliant |
| ICL02 | 22/03/2021 | 36.4 | 6.89 | No | Each discharge | Compliant |
| RRY03 | 22/03/2021 | 35.0 | 8.3 | No | Each discharge | Compliant |
| RRY06 | 22/03/2021 | 30.0 | 7.5 | No | Each discharge | Compliant |
| RRY03 | 23/03/2021 | 20.0 | 7.5 | No | Each discharge | Compliant |
| RRY06 | 23/03/2021 | 30.0 | 8.3 | No | Each discharge | Compliant |
| ICL02 | 24/03/2021 | 35.2 | 6.57 | No | Each discharge | Compliant |

| | | | | | | |
|-------|------------|------|------|----|----------------|-----------|
| ICL02 | 24/03/2021 | 42.1 | 6.59 | No | Each discharge | Compliant |
| CWL16 | 24/03/2021 | 12.1 | 8.42 | No | Each discharge | Compliant |
| CWL16 | 25/03/2021 | 15.8 | 7.85 | No | Each discharge | Compliant |
| CWL12 | 25/03/2021 | 1.2 | 8.31 | No | Each discharge | Compliant |
| CWL12 | 25/03/2021 | 13.3 | 8.02 | No | Each discharge | Compliant |
| CWL16 | 26/03/2021 | 30.9 | 7.36 | No | Each discharge | Compliant |
| CWL16 | 29/03/2021 | 9.1 | 7.1 | 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 |
| 05/03/2021 | RRY-A | 1.8 | 7.51 | None visible | 0.0004 | <0.0005 | 0.009 | <0.002 | 0.0008 | 0.003 | <0.0001 | 0.111 | <0.0001 | 0.0011 | 0.004 | Monthly | Compliant |
| 05/03/2021 | RRY-C | 1.0 | 7.43 | None visible | 0.0008 | <0.0005 | 0.017 | <0.001 | 0.001 | 0.003 | <0.0001 | 0.392 | <0.0001 | 0.0017 | 0.003 | Monthly | Compliant |
| 05/03/2021 | RRY-C | 0.6 | 7.47 | None visible | 0.0005 | <0.0005 | 0.022 | <0.001 | 0.0014 | 0.006 | <0.0001 | 0.025 | <0.0001 | 0.0009 | 0.004 | 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 over the March 2021 reporting period. All construction noise monitoring results were complaint during this period. There were twenty-four exceedances recorded above the target level, however this was the result of extraneous noise (traffic was the dominate noise passing by on nearby roads) and not the result of construction activities. 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 |
|--|------------|----------|-----------------------------------|-----------------|-------------------|--------------|---|
| NCA28 Glebe Point Road | 03/03/2021 | 11:40 PM | Attended | Laeq 15 minutes | 47 | 48.1 | Compliant, exceedance due to non-JHCPB activities |
| NCA21 Johnston Street | 03/03/2021 | 11:15 PM | Attended | Laeq 15 minutes | 47 | 59.4 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 03/03/2021 | 10:18 PM | Attended | Laeq 15 minutes | 51 | 51.6 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 03/03/2021 | 10:00 PM | Attended | Laeq 15 minutes | 52 | 60.6 | Compliant, exceedance due to non-JHCPB activities |
| NCA21 Johnston Street | 05/03/2021 | 11:38 PM | Attended | Laeq 15 minutes | 47 | 50.9 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Hornsey Street | 05/03/2021 | 11:06 PM | Attended | Laeq 15 minutes | 50 | 58.0 | Compliant, exceedance due to non-JHCPB activities |
| NCA27 Glebe Point Road | 05/03/2021 | 12:04 AM | Attended | Laeq 15 minutes | 47 | 49.4 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 05/03/2021 | 10:38 PM | Attended | Laeq 15 minutes | 52 | 61.4 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 05/03/2021 | 10:20 PM | Attended | Laeq 15 minutes | 51 | 54.5 | Compliant, exceedance due to non-JHCPB activities |
| NCA27 Glebe Point Road | 10/03/2021 | 11:30 PM | Attended | Laeq 15 minutes | 47 | 52.0 | Compliant, exceedance due to non-JHCPB activities |
| NCA21 Johnston Street | 10/03/2021 | 10:50 PM | Attended | Laeq 15 minutes | 47 | 63.3 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 10/03/2021 | 10:20 PM | Attended | Laeq 15 minutes | 51 | 50.9 | Compliant |
| NCA25 Lilyfield Road | 10/03/2021 | 10:00 PM | Attended | Laeq 15 minutes | 52 | 60.9 | Compliant, exceedance due to non-JHCPB activities |
| NCA28 Glebe Point Road | 11/03/2021 | 10:30 PM | Attended | Laeq 15 minutes | 47 | 58.5 | Compliant, exceedance due to non-JHCPB activities |
| NCA21 Johnston Street | 11/03/2021 | 10:10 PM | Attended | Laeq 15 minutes | 47 | 62.7 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 11/03/2021 | 9:40 PM | Attended | Laeq 15 minutes | 51 | 53.4 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 11/03/2021 | 9:20 PM | Attended | Laeq 15 minutes | 52 | 61.5 | Compliant, exceedance due to non-JHCPB activities |

| 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 | 17/03/2021 | 10:00 PM | Attended | Laeq 15 minutes | 47 | 61.6 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 17/03/2021 | 11:20 PM | Attended | Laeq 15 minutes | 51 | 51.4 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 17/03/2021 | 11:00 PM | Attended | Laeq 15 minutes | 52 | 60.3 | Compliant, exceedance due to non-JHCPB activities |
| NCA28 Glebe Point Road | 17/03/2021 | 10:30 PM | Attended | Laeq 15 minutes | 47 | 52.3 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 24/03/2021 | 11:30 PM | Attended | Laeq 15 minutes | 47 | 66.1 | Compliant, exceedance due to non-JHCPB activities |
| NCA27 Glebe Point Road | 24/03/2021 | 10:20 PM | Attended | Laeq 15 minutes | 52 | 57.3 | Compliant, exceedance due to non-JHCPB activities |
| NCA25 Lilyfield Road | 25/03/2021 | 10:38 PM | Attended | Laeq 15 minutes | 71 | 63.9 | Compliant |
| NCA24 Burt Street | 25/03/2021 | 10:13 PM | Attended | Laeq 15 minutes | 65 | 57.6 | Compliant |
| NCA27 Glebe Point Road | 25/03/2021 | 11:30 PM | Attended | Laeq 15 minutes | 63 | 52.4 | Compliant |
| NCA21 Johnston Street | 25/03/2021 | 11:06 PM | Attended | Laeq 15 minutes | 70 | 52.3 | Compliant |
| NCA21 Johnston Street | 26/03/2021 | 11:11 PM | Attended | Laeq 15 minutes | 70 | 53.4 | Compliant |
| NCA24 Burt Street | 26/03/2021 | 10:16 PM | Attended | Laeq 15 minutes | 65 | 56.8 | Compliant |
| NCA27 Glebe Point Road | 26/03/2021 | 11:42 PM | Attended | Laeq 15 minutes | 63 | 53.8 | Compliant |
| NCA25 Lilyfield Road | 26/03/2021 | 10:38 PM | Attended | Laeq 15 minutes | 71 | 65.5 | Compliant |
| NCA28 Glebe Point Road | 30/03/2021 | 11:55 PM | Attended | Laeq 15 minutes | 47 | 49.8 | Compliant, exceedance due to non-JHCPB activities |
| NCA21 Railway Parade | 30/03/2021 | 11:30 PM | Attended | Laeq 15 minutes | 57 | 49.1 | Compliant |
| NCA20 Brenan Street | 30/03/2021 | 11:05 PM | Attended | Laeq 15 minutes | 60 | 53.2 | Compliant |

| 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 | 31/03/2021 | 12:30 AM | Attended | Laeq 15 minutes | 52 | 55.8 | Compliant, exceedance due to non-JHCPB activities |