

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: July 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=188944&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
ICL04	01/07/2020	29.5	6.95	No	Each discharge	Compliant
ICL04	02/07/2020	3.0	6.60	No	Each discharge	Compliant
RRY03	02/07/2020	48.1	7.24	No	Each discharge	Compliant
RRY03	03/07/2020	39.5	6.9	No	Each discharge	Compliant
ICL04	03/07/2020	31.5	6.80	No	Each discharge	Compliant
ICL04	06/07/2020	10.4	7.29	No	Each discharge	Compliant
ICL04	06/07/2020	18.7	7.32	No	Each discharge	Compliant
ICL04	07/07/2020	28.9	6.81	No	Each discharge	Compliant
ICL02	08/07/2020	9.7	7.02	No	Each discharge	Compliant
ICL02	08/07/2020	43.1	7.28	No	Each discharge	Compliant
ICL04	08/07/2020	46.2	6.56	No	Each discharge	Compliant
RRY03	08/07/2020	49.1	7.6	No	Each discharge	Compliant
ICL02	08/07/2020	36.1	7.19	No	Each discharge	Compliant
ICL02	08/07/2020	42.5	7.98	No	Each discharge	Compliant
ICL04	09/07/2020	26.2	6.64	No	Each discharge	Compliant
RRY03	09/07/2020	45.9	7.41	No	Each discharge	Compliant
ICL02	10/07/2020	17.4	7.09	No	Each discharge	Compliant
ICL04	10/07/2020	9.4	6.89	No	Each discharge	Compliant
ICL04	13/07/2020	8.0	6.62	No	Each discharge	Compliant
ICL02	13/07/2020	30.8	7.62	No	Each discharge	Compliant
ICL02	13/07/2020	26.7	7.31	No	Each discharge	Compliant
ICL04	14/07/2020	7.9	6.69	No	Each discharge	Compliant
ICL01	14/07/2020	9.8	7.21	No	Each discharge	Compliant
ICL01	14/07/2020	0.7	7.04	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
ICL04	15/07/2020	0.2	6.66	No	Each discharge	Compliant
ICL02	15/07/2020	43.8	6.76	No	Each discharge	Compliant
ICL01	15/07/2020	0.3	6.95	No	Each discharge	Compliant
ICL04	15/07/2020	29.9	7.03	No	Each discharge	Compliant
CWL03	16/07/2020	25.9	8.23	No	Each discharge	Compliant
ICL01	17/07/2020	11.7	6.93	No	Each discharge	Compliant
ICL04	17/07/2020	21.6	6.89	No	Each discharge	Compliant
ICL04	17/07/2020	16.1	7.14	No	Each discharge	Compliant
ICL04	20/07/2020	11.4	6.86	No	Each discharge	Compliant
RRY03	20/07/2020	14.4	8.39	No	Each discharge	Compliant
ICL02	20/07/2020	7.5	7.15	No	Each discharge	Compliant
ICL02	20/07/2020	14.3	6.91	No	Each discharge	Compliant
ICL04	21/07/2020	5.2	6.61	No	Each discharge	Compliant
ICL04	21/07/2020	5.8	6.75	No	Each discharge	Compliant
ICL04	22/07/2020	7.3	6.55	No	Each discharge	Compliant
ICL04	23/07/2020	20.0	6.75	No	Each discharge	Compliant
ICL02	23/07/2020	13.9	7.54	No	Each discharge	Compliant
ICL04	24/07/2020	30.7	6.92	No	Each discharge	Compliant
ICL02	24/07/2020	19.3	7.54	No	Each discharge	Compliant
ICL02	24/07/2020	39.1	7.94	No	Each discharge	Compliant
ICL04	27/07/2020	37.7	7.98	No	Each discharge	Compliant
ICL02	27/07/2020	29.0	7.02	No	Each discharge	Compliant
ICL02	27/07/2020	45.2	8.42	No	Each discharge	Compliant
RRY03	27/07/2020	43.5	8.25	No	Each discharge	Compliant
ICL04	27/07/2020	11.9	6.72	No	Each discharge	Compliant
RRY06	27/07/2020	45.1	8.4	No	Each discharge	Compliant
ICL02	28/07/2020	12.0	7.66	No	Each discharge	Compliant

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	28/07/2020	43.3	7.39	No	Each discharge	Compliant
ICL02	28/07/2020	13.9	7.08	No	Each discharge	Compliant
ICL04	28/07/2020	41.6	7.24	No	Each discharge	Compliant
ICL02	28/07/2020	47.5	6.59	No	Each discharge	Compliant
ICL02	28/07/2020	37.1	7.79	No	Each discharge	Compliant
ICL04	28/07/2020	10.6	6.60	No	Each discharge	Compliant
ICL01	28/07/2020	34.4	6.52	No	Each discharge	Compliant
RRY06	28/07/2020	14.2	8.47	No	Each discharge	Compliant
RRY06	28/07/2020	11.9	8.01	No	Each discharge	Compliant
ICL02	29/07/2020	0.0	7.84	No	Each discharge	Compliant
ICL02	29/07/2020	1.4	8.44	No	Each discharge	Compliant
ICL02	29/07/2020	7.0	7.75	No	Each discharge	Compliant
ICL04	29/07/2020	29.0	7.28	No	Each discharge	Compliant
ICL02	29/07/2020	35.0	8.18	No	Each discharge	Compliant
ICL02	29/07/2020	49.6	7.93	No	Each discharge	Compliant
ICL02	29/07/2020	3.0	7.66	No	Each discharge	Compliant
VRE03	29/07/2020	21.8	8.46	No	Each discharge	Compliant
ICL02	29/07/2020	34.6	7.06	No	Each discharge	Compliant
ICL02	30/07/2020	3.1	7.8	No	Each discharge	Compliant
ICL02	30/07/2020	13.7	7.65	No	Each discharge	Compliant
ICL04	30/07/2020	43.4	7.69	No	Each discharge	Compliant
ICL02	30/07/2020	22.0	6.70	No	Each discharge	Compliant
ICL02	30/07/2020	13.9	6.54	No	Each discharge	Compliant
RRY03	29/07/220	31	8.4	No	Each discharge	Compliant
RRY06	29/07/2020	20	8.4	No	Each discharge	Compliant
RRY03	30/07/2020	33	7.7	No	Each discharge	Compliant
RRY06	30/07/2020	20	8.3	No	Each discharge	Compliant

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	31/07/2020	28.6	7.61	No	Each discharge	Compliant
ICL06	31/07/2020	20.5	7.83	No	Each discharge	Compliant
ICL02	31/07/2020	13.5	7.60	No	Each discharge	Compliant
ICL06	31/07/2020	48.9	7.54	No	Each discharge	Compliant
ICL02	31/07/2020	29.4	6.81	No	Each discharge	Compliant
RRY02	31/07/2020	48	7.7	No	Each discharge	Compliant
RRY03	31/07/2020	40.1	7.8	No	Each discharge	Compliant
ICL02	31/07/2020	42.2	7.94	No	Each discharge	Compliant
ICL02	31/07/2020	41.1	8.19	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 ¹	1.5	0.03	2.5	0.0007	0.2	0.15 ¹	N/A	Licence Limit
01/07/2020	RRY-C	3.2	7.12	None visible	0.0002	0.00005	0.03	0.001	0.0013	0.002	0.0001	0.0036	0.0001	0.0005	0.032	Monthly	Compliant
08/07/2020	RRY-C	14	8.05	None visible	0.0002	0.00005	0.022	0.001	0.0023	0.002	0.0001	0.248	0.0001	0.0005	0.008	Monthly	Compliant
20/07/2020	RRY-C	0.9	7.4	None visible	0.0004	0.00005	0.024	0.001	0.0007	0.003	0.0001	0.002	0.0001	0.0005	0.001	Monthly	Compliant
20/07/2020	RRY-C	1	7.3	None visible	0.0004	0.00005	0.023	0.001	0.0013	0.003	0.0001	0.0372	0.0001	0.0005	0.004	Monthly	Compliant
20/07/2020	RRY-A	0.03	6.9	None visible	0.002	0.0005	0.014	0.001	0.0005	0.014	0.001	0.0005	0.002	0.0001	0.002	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, Bayview Cres, Annandale	16/07/2020	10:54 PM	Attended	Laeq 15 minutes	98	66.6	Compliant
NCA39, Booth St, Annandale	16/07/2020	11:46 PM	Attended	Laeq 15 minutes	77	70.9	Compliant
NCA20, Brenan St, Lilyfield	17/07/2020	12:19 AM	Attended	Laeq 15 minutes	56	53.5	Compliant
NCA24, Johnston St, Annandale	17/07/2020	12:49 AM	Attended	Laeq 15 minutes	79	56.1	Compliant
NCA24, Lilyfield Rd, Rozelle	17/07/2020	1:20 AM	Attended	Laeq 15 minutes	76	52.3	Compliant
NCA21, Bayview Crest, Annandale	17/07/2020	2:04 AM	Attended	Laeq 15 minutes	85	80.4	Compliant