

Sydney Metro North West

Design and Construction of Surface
and Viaduct Civil Works



Environmental Monitoring Data

Environment Protection Licence No. 20454

January 2016

Document Approval

| Doc No Environmental Monitoring Data January 2016 | | | | | |
|--|------------------------|-------------|-------------|-------------|------------|
| Revision | Description | Prepared by | Reviewed by | Approved by | Date |
| 1.0 | Issued for publication | D. Malysiak | T. Austin | I. Stuart | 08/02/2016 |

1.0 Introduction

The North West Rail Link is Australia’s largest public transport infrastructure project and a priority rail project for the NSW Government. The Impregilo Salini Joint Venture (ISJV) has been contracted to design and construct the viaducts, bridges and associated civil works required for the NWRL between Bella Vista and Cudgong Road.

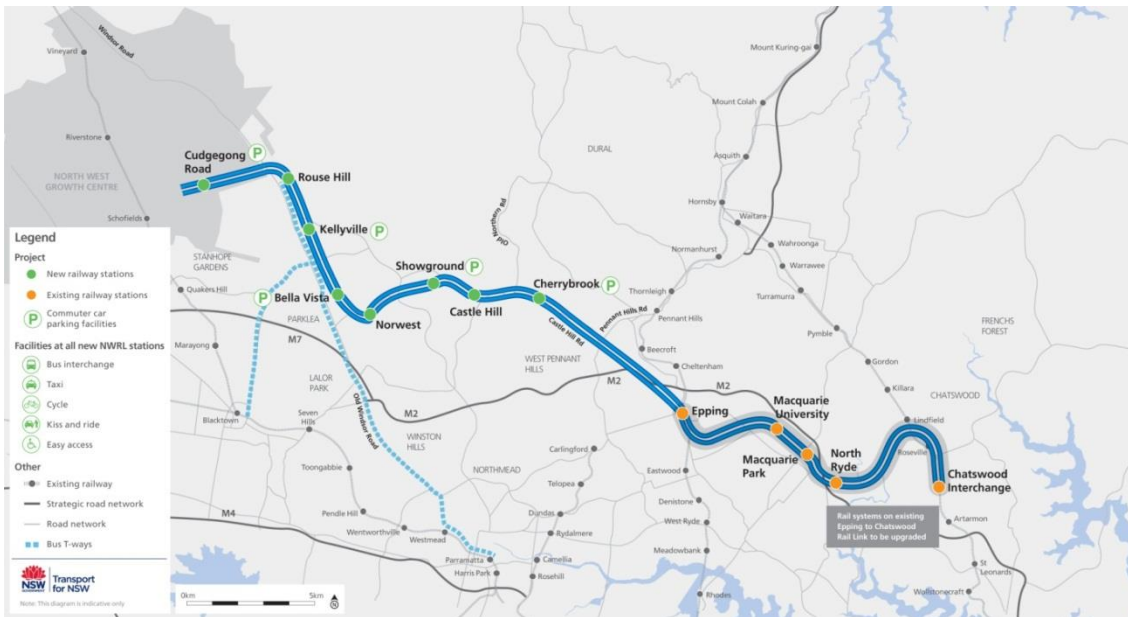


Figure 1: Project overview

2.0 Environmental Protection Licence and Reporting Requirements

The *Protection of the Environment Operations Act 1997* (POEO Act) requires holders of environment protection licences (EPLs) to make pollution monitoring data required by the EPL publicly available.

Salini Australia Pty. Ltd. holds EPL No. 20454 from the NSW Environment Protection Authority for the SVC Works on behalf of ISJV. The licence is for construction works relating to Rail Systems Activities as defined under Schedule 1 of the POEO Act.

Condition M2 of the EPL requires monitoring the concentration of total suspended solids, pH and visible oil and grease in waters discharged from sediment basins on the premises. The full licence can be viewed on the EPA website at:

<http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=41738&SYSUID=1&LICID=20454>

3.0 Discharge Water Monitoring

Water monitoring results for water discharged from sediment basins during the reporting period are summarised in Table 1. All results were compliant with the Environment Protection Licence.

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Table 1: Water Monitoring Data

Data for month: January 2016

Published on: 8 Feb 2016

| Date of Discharge | EPL Basin ID | Approx. Chainage | TSS (mg/L) | *NTU | pH (unit) | Oil and Grease (visibility) | Compliant (Yes/No) |
|-------------------|--------------|------------------|------------|-------------------|-----------|-----------------------------|--------------------|
| 8/01/16 | SB3 | 46220 | NT | 19.26 | 7.98 | Not Visible | Yes |
| 8/01/16 | SB16 | 44225 | NT | 13.32 | 8.05 | Not Visible | Yes |
| 11/01/16 | SB5 | 44680 | NT | 21.9 | 7.97 | Not Visible | Yes |
| 11/01/16 | SB6 | 41760 | NT | 31 | 7.75 | Not Visible | Yes |
| 7/01/16 | SB9 | 44470 | NT | 40.9 | 8.08 | Not Visible | Yes |
| 8/01/16 | SB1 | 42340 | NT | 39.4 | 8.33 | Not Visible | Yes |
| 8/01/16 | SB10 | 46300 | NT | 21.3 | 8.08 | Not Visible | Yes |
| 8/01/16 | SB13 | 44470 | <5 | 6.68 | 7.94 | Not Visible | Yes |
| 8/01/16 | SB14 | 46435 | <5 | 9.04 | 8.02 | Not Visible | Yes |
| 11/01/16 | SB2 | 42420 | NT | 13.35 | 7.51 | Not Visible | Yes |
| 11/01/16 | SB18A | 41290 | NT | 4.13 | 7.78 | Not Visible | Yes |
| 11/01/16 | SB18B | 41360 | NT | 35.8 | 7.67 | Not Visible | Yes |
| 12/01/16 | SB7 | 44810 | NT | 10.1 | 7.9 | Not Visible | Yes |
| 12/01/16 | SB12 | 44560 | 24 | 56.1 ¹ | 7.82 | Not Visible | Yes |
| 14/01/16 | SB1 | 42340 | NT | 41.6 | 8.19 | Not Visible | Yes |
| 18/01/16 | SB3 | 46220 | NT | 19.8 | 8.1 | Not Visible | Yes |
| 18/01/16 | SB9 | 44470 | NT | 1.91 | 7.7 | Not Visible | Yes |
| 18/01/16 | SB10 | 46300 | NT | 18.6 | 8.21 | Not Visible | Yes |
| 18/01/16 | SB12 | 44560 | NT | 9.95 | 8.17 | Not Visible | Yes |
| 18/01/16 | SB13 | 44470 | NT | 1.72 | 8.21 | Not Visible | Yes |
| 18/01/16 | SB14 | 46435 | NT | 15.64 | 7.97 | Not Visible | Yes |
| 18/01/16 | SB16 | 44225 | NT | 24.6 | 7.73 | Not Visible | Yes |
| 19/01/16 | SB2 | 42420 | NT | 40.1 | 7.92 | Not Visible | Yes |
| 19/01/16 | SB7 | 44810 | NT | 8.36 | 8.1 | Not Visible | Yes |
| 19/01/16 | SB8 | 44680 | NT | 22.1 | 7.86 | Not Visible | Yes |
| 19/01/16 | SB18A | 41290 | NT | 16.77 | 8.09 | Not Visible | Yes |
| 20/01/16 | SB1 | 42340 | NT | 40.4 | 8.4 | Not Visible | Yes |
| 20/01/16 | SB18B | 41360 | NT | 41.4 | 7.76 | Not Visible | Yes |

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| Date of Discharge | EPL Basin ID | Approx. Chainage | TSS (mg/L) | *NTU | pH (unit) | Oil and Grease (visibility) | Compliant (Yes/No) |
|-------------------|--------------|------------------|------------|-------------------|-----------|-----------------------------|--------------------|
| 27/01/16 | SB7 | 44810 | NT | 22.4 | 8.48 | Not Visible | Yes |
| 27/01/16 | SB8 | 44680 | NT | 7.44 | 8.09 | Not Visible | Yes |
| 27/01/16 | SB13 | 44470 | <5 | 46.2 ¹ | 8.35 | Not Visible | Yes |
| 28/01/16 | SB3 | 46220 | NT | 38.5 | 8.16 | Not Visible | Yes |
| 28/01/16 | SB6 | 41760 | NT | 11.35 | 7.86 | Not Visible | Yes |
| 28/01/16 | SB10 | 46300 | NT | 31.7 | 8.01 | Not Visible | Yes |
| 28/01/16 | SB14 | 46435 | NT | 13.02 | 8.16 | Not Visible | Yes |
| 29/01/16 | SB2 | 42420 | <5 | 51.2 | 8.15 | Not Visible | Yes |
| 29/01/16 | SB18A | 41290 | NT | 16.3 | 8.2 | Not Visible | Yes |
| 29/01/16 | SB18B | 41360 | NT | 26.2 | 7.95 | Not Visible | Yes |

KEY

| Pollutant | TSS | *NTU | pH | Oil and grease |
|---|---------|--|-----------|----------------|
| Concentration Limit | 50 mg/L | 42 | 6.5 – 8.5 | Not visible |
| N/A = Not applicable NT = Not tested 1 = NTU above 50 % safety factor adopted, but within acceptable limits. Laboratory sample confirmed TSS values of 24 mg/L and <5mg/L well below discharge limit of 50mg/L. | | mg/L = milligrams per litre TSS = Total Suspended Solids (mg/L) *NTU = Nephelometric Turbidity Units <i>A correlation graph between TSS and NTU has been established for the site. Using 50% safety factor, a NTU reading of 42 has been adopted to ensure samples have a TSS below 50mg/L.</i> | | |