

# Environmental Monitoring Data

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Project: Sydney Gateway Project

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## Document Approval

Rev.	Date	Prepared by	Reviewed by	Approved by	Remarks
01	10/07/2022	J Boyd	R. Muir	R. Muir	For publication
02	03/11/2022	J.Boyd	J.Paul	R.Muir	For Publication

## Project Summary

The Sydney Gateway Road Project ('the Project') is a new direct high-capacity road connection linking the Sydney motorway network at St Peters interchange, where the M4 and M8 motorways meet, with Sydney Airport's domestic and international terminals and the Port Botany Precinct. John Holland Seymour Whyte have been contracted by Transport for New South Wales to design and construct the works for the Sydney Gateway Road Project. Figure 1 provides an overview of the Project.

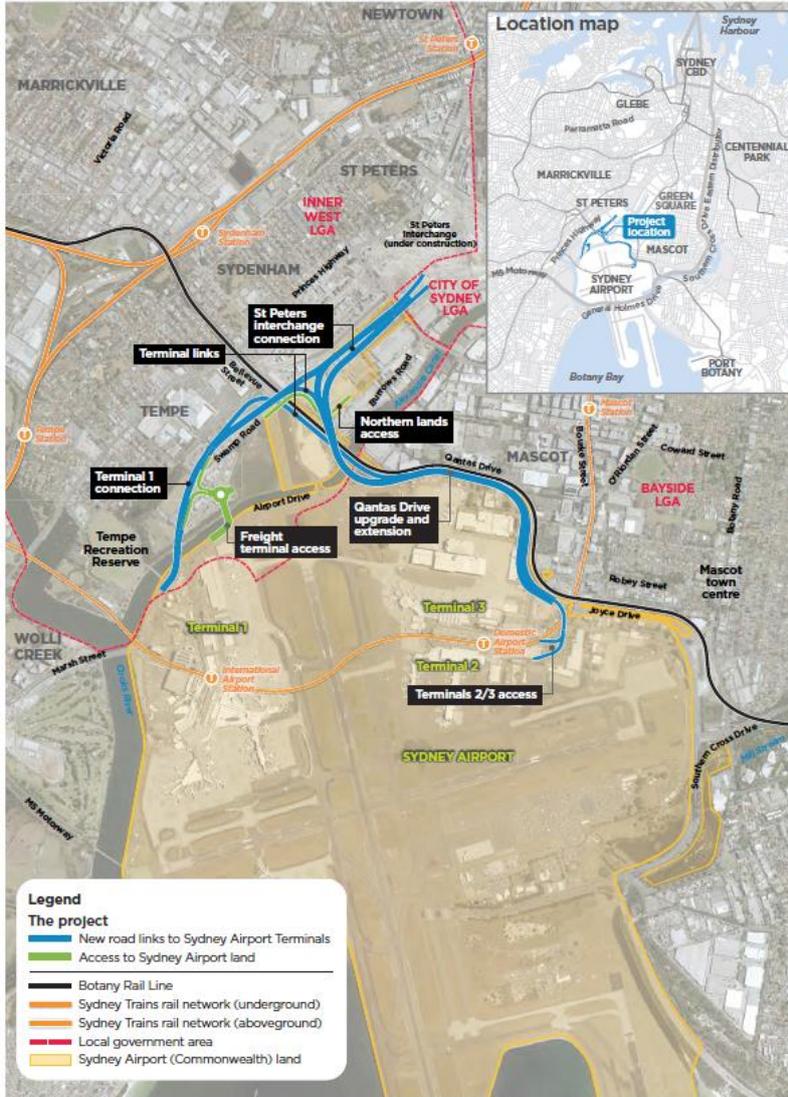


Figure 1: Project Overview

## Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21524) from the NSW Environment Protection Authority for the Project on behalf of the John Holland Seymour (JHSW) Joint Venture. The licence is for construction works relating Scheduled Activities 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 Works. 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: [ViewPOEOLicence.aspx \(nsw.gov.au\)](http://ViewPOEOLicence.aspx(nsw.gov.au)).

## **Noise and Vibration Monitoring**

Noise and vibration monitoring was undertaken during this reporting period. Table 1 contains the vibration monitoring data and Table 2 contains the noise monitoring results.

### **Vibration**

Vibration monitoring was undertaken during the reporting period, all works were deemed compliant. Results were recorded below the adopted structural damage criteria on all occasions.

### **Noise**

Noise monitoring was undertaken during the reporting period, all works were deemed compliant as the dominant noise source was determined to be caused by background noise sources, specifically local traffic, aircraft movements.

## **Discharge Water Quality Monitoring**

Offsite discharge only occurred during the early part of June 2022 monitoring period, water quality monitoring results from 30/5/2022 as reported in EPL Monitoring Data Report May 2022 were utilised for monitoring requirements.

## **Landfill Gas and Gas Accumulation Monitoring**

Landfill gas and gas accumulation monitoring was undertaken during the June 2022 monitoring period. Results are summarised in Table 3 below.

Table 1: Vibration Monitoring Data.

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Measured VDV (m/s <sup>1.75</sup> )	VDV Target (m/s <sup>1.75</sup> )	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant	Comment
Viva Ampol	08/06/2022 – 09/06/2022	Continuous	NA	NA	NA	7.61	20	Yes	Works were monitored and found to be below the structural vibration limit.
Ausgrid NS193	08/06/2022 – 10/06/2022	Continuous	NA	NA	NA	3.73	20	Yes	Works were monitored and found to be below the structural vibration limit.
Viva Ampol	09/06/2022 – 10/06/2022	Continuous	NA	NA	NA	2.55	20	Yes	Works were monitored and found to be below the structural vibration limit
Desal Pipeline	10/06/2022 – 11/06/2022	Continuous	NA	NA	NA	6.25	20	Yes	Works were monitored and found to be below the structural vibration limit
Viva Ampol	15/06/2022 – 16/06/2022	Continuous	NA	NA	NA	5.08	20	Yes	Works were monitored and found to be below the structural vibration limit .
Jemena	20/06/2022 – 23/06/2022	Continuous	NA	NA	NA	3.49	20	Yes	Works were monitored and found to be below the structural vibration limit

**Note:**

1. VDV – Vibration Dose Value
2. PPV – Peak Particle

Table 2: Noise Monitoring Data

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Comments
NCA_03, 5 Barden St Tempe	15/06/2022	Attended	LAeq 15min	67.0	55	SG works compliant. Traffic noise dominated area, directly under flight path.
NCA_03, 1 Fanning Street Tempe	16/06/2022	Attended	LAeq 15min	62.8	43	SG works compliant. Traffic noise dominated area, directly under flight path.
NCA_03, 1 Station Street, Tempe	22/06/2022	Attended	LAeq 15min	54.2	38	SG works compliant. Traffic noise dominated area, directly under flight path.

Table 3: Landfill Gas Monitoring Results (26 June 2022)

EPA identification no.	Type of Monitoring Point*	Methane Limit	Results (Stabilised)%	Comment
GW1A	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW2	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW3	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW4A	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW5A	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW6A	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW7	Landfill Gas Monitoring <sup>1</sup>	1%v/v	-	Destroyed unable to be sampled
GW8	Landfill Gas Monitoring <sup>1</sup>	1%v/v	-	Destroyed unable to be sampled
GW9	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW9A	Landfill Gas Monitoring <sup>2</sup>	N/A	5.4	Compliant
GW11A	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW12	Landfill Gas Monitoring <sup>2</sup>	1%v/v	-	Destroyed unable to be sampled
GW13	Landfill Gas Monitoring <sup>1</sup>	1%v/v	-	Destroyed unable to be sampled
GW14	Landfill Gas Monitoring <sup>2</sup>	N/A	0	Compliant
GW16	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW17	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
GW19A	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0.6	Compliant
GW22s	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
JHSW-LFG02	Landfill Gas Monitoring <sup>1</sup>	1%v/v	0	Compliant
OSA1	Gas Accumulation Monitoring <sup>3</sup>	500ppm	<3	Compliant
OSA2	Gas Accumulation Monitoring <sup>3</sup>	500ppm	<3	Compliant
OSA3	Gas Accumulation Monitoring <sup>3</sup>	500ppm	<3	Compliant
C3 Site Compound	Gas Accumulation Monitoring <sup>4</sup>	500ppm	<3	Compliant

1. Outside the passive interception and venting trench
2. Inside the passive interception and venting trench
3. Gas accumulation monitoring within buildings located outside of the landfill boundary
4. Gas accumulation monitoring within buildings located onsite