

Environmental Monitoring Data

Project: Sydney Gateway Project

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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.

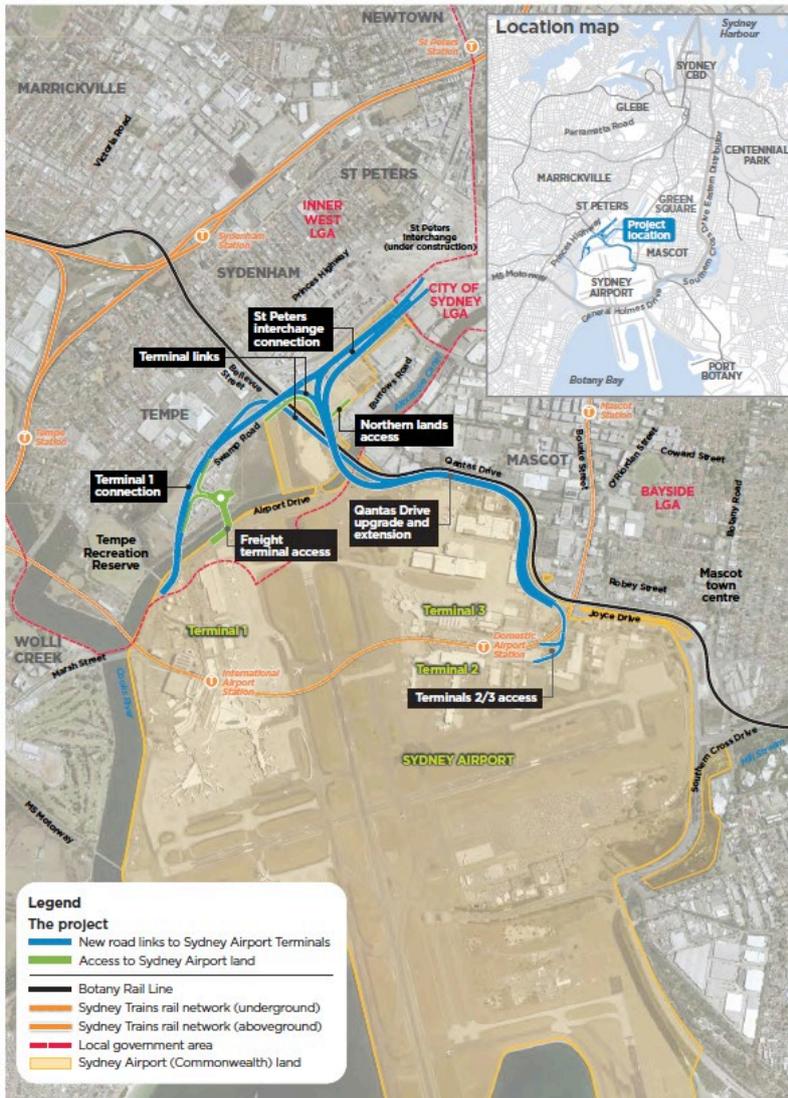


Figure 1: Project Overview

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](https://www.epa.nsw.gov.au/ViewPOEOLicence.aspx) ([nsw.gov.au](https://www.epa.nsw.gov.au/))

Noise and Vibration Monitoring

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

All readings were compliant with the predicted noise and vibration levels in the CNVIS.

Discharge Water Quality Monitoring

No water was discharged from the premises area during the September reporting period. Water treatment plants are yet to be commissioned. Discharge monitoring data is displayed in Table 3.

Landfill Gas and Gas Accumulation Monitoring

Landfill gas and gas accumulation monitoring was undertaken during the September monitoring period. Results are summarised in Table 4 below.

Methane was recorded below the adopted criteria in all monitoring wells outside the bentonite cut-off wall. Sample locations GW9A and GW14 recorded elevated methane levels consistent with historic results, both GW9A and GW14 are located within the landfill.

Table 1: Vibration Monitoring Data.

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant
Desal Pipeline, Joint 20	17/09/2021	Attended	N/A	N/A	N/A	0.42	20	Yes
Desal Pipeline, Joint 13	17/09/2021	Attended	N/A	N/A	N/A	0.14	20	Yes

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, 634 Princess Highway, Tempe	03/09/2021	Attended	LEaq 15min	59.7	66	SG Works Compliant
NCA_03, 6 Smith Street, Tempe	03/09/2021	Attended	LEaq 15min	54.1	61	SG Works Compliant
NCA_03, 1 Bardon Street, Tempe	20/09/2021	Attended	LEaq 15min	53.3	63	SG Works Compliant

Table 3: Discharge Monitoring Data

No discharge occurred, no data to display.

Table 4: Landfill Gas Monitoring Results

EPA identification no.	Type of Monitoring Point*	Methane Limit	Results (Stabilised)
GW1A	Landfill Gas Monitoring ¹	1%v/v	0
GW2	Landfill Gas Monitoring ¹	1%v/v	0
GW3	Landfill Gas Monitoring ¹	1%v/v	0
GW4A	Landfill Gas Monitoring ¹	1%v/v	0
GW5A	Landfill Gas Monitoring ¹	1%v/v	0
GW6A	Landfill Gas Monitoring ¹	1%v/v	0
GW9A	Landfill Gas Monitoring ²	N/A	19.3
GW11A	Landfill Gas Monitoring ¹	1%v/v	0
GW12	Landfill Gas Monitoring ²	1%v/v	Destroyed unable to be sampled
GW13	Landfill Gas Monitoring ¹	1%v/v	Destroyed unable to be sampled
GW14	Landfill Gas Monitoring ²	N/A	4.1
GW16	Landfill Gas Monitoring ¹	1%v/v	0
GW19A	Landfill Gas Monitoring ¹	1%v/v	0
GW22s	Landfill Gas Monitoring ¹	1%v/v	0
OSA1	Gas Accumulation Monitoring ³	500ppm	0
OSA2	Gas Accumulation Monitoring ³	500ppm	0
OSA3	Gas Accumulation Monitoring ³	500ppm	0

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