



EPL 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.

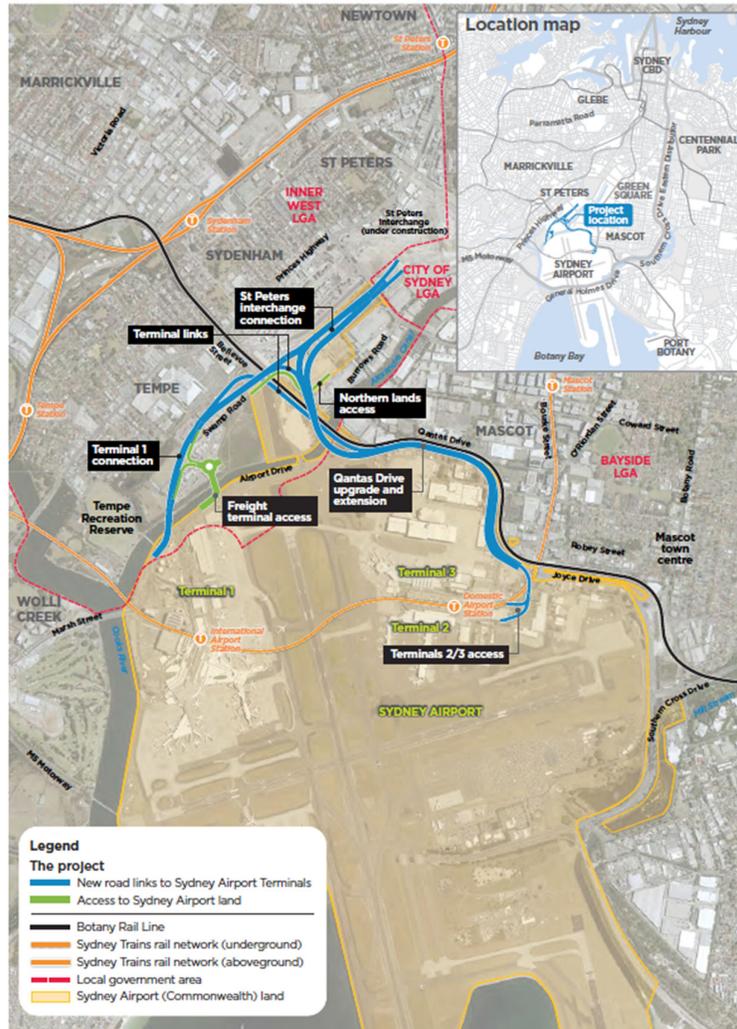


Figure 1: Project Overview

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 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 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

Vibration

Vibration monitoring was undertaken during the reporting period, all works were deemed compliant. Table 1 contains the vibration monitoring data. 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 noise sources were predominantly dominated by background noise sources, local traffic, and aircraft movements. Table 2 contains the noise monitoring results.

Discharge Water Quality Monitoring

Offsite discharge occurred during October 2023 via Tradewaste agreement only. Discharges were compliant with the requirements of the Tradewaste agreement during October 2023.

Landfill Gas and Gas Accumulation Monitoring

Monthly landfill gas and gas accumulation monitoring was undertaken during the October 2023 monitoring period. Results are summarised in Table 3.

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	Comment/Field Observations
5 Wentworth Street, Tempe	4/10/2023	Attended	0.2	0.4	Yes	0.26	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
3 Bellevue Street, Tempe	11/10/2023	Attended	0.2	0.4	Yes	0.28	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
1 Fanning Street, Tempe	11/10/2023	Attended	0.3	0.4	Yes	0.5	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
2 Bellevue Street, Tempe	20/10/2023	Attended	0.1	0.4	Yes	0.14	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
7 South Street, Tempe	20/10/2023	Attended	0.1	0.4	Yes	0.23	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.

Note:

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

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)	Project OOHW Compliance	Comments/Field Observations
3 Bellevue Street, Tempe	11/10/2023	Attended	LAeq 15 min	68.2	54	Compliant	Traffic on Bellevue Street and the Princes Highway were the dominant noise sources. Sydney Gateway works were not audible. Sydney Gateway project works compliant.
1 Fanning Street, Tempe	11/10/2023	Attended	LAeq 15 min	66.3	66	Compliant	Traffic on South Street was the dominant noise source. Sydney Gateway works were compliant with predicted noise levels.
2 Bellevue Street, Tempe	20/10/2023	Attended	LAeq 15 min	69.2	56	Compliant	Traffic on Bellevue Street and the Princes Highway were the dominant noise sources. Sydney Gateway works were not audible. Sydney Gateway project works compliant.
7 South Street, Tempe	20/10/2023	Attended	LAeq 15 min	62.9	67	Compliant	Dogs barking was the dominant noise source. Sydney Gateway works were not audible. Sydney Gateway project works compliant.
3 Bellevue Street, Tempe	25/10/2023	Attended	LAeq 15 min	56.7	41	Compliant	Aeroplanes and airport movements were the dominant noise sources. Sydney Gateway works were compliant with predicted noise levels.
107 Baxter Road, Mascot	26/10/2023	Attended	LAeq 15 min	59.1	45	Compliant	Airport movements were the dominant noise source. Sydney Gateway works were not audible. Sydney Gateway project works compliant.
4 Station St, Tempe	30/10/23	Attended	LAeq 15 min	52.3	40	Compliant	The dominant noise sources were insects and wildlife within the Tempe wetlands, with occasional cars passing on South St. Sydney Gateway works were not audible. Sydney Gateway project works compliant.
5 Wentworth St, Tempe	30/10/23	Attended	LAeq 15 min	57.3	37	Compliant	The dominant noise sources were insects and wildlife within the Tempe wetlands, with occasional cars passing on South St. Sydney Gateway works were not audible. Sydney Gateway project works compliant.

1. LAeq (15min) - The A-weighted equivalent continuous (energy average) A-weighted sound pressure level over a 15-minute period.
2. dBA - Decibels using the A-weighted scale measured according to the frequency of the human ear.

Table 3: Landfill Gas Monitoring Results

ID	Type	Methane Limit	Results (Stabilised)	Comments
GW1A	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW2	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW3	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW4A	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW5A	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW6A	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW7	Landfill Gas Monitoring ¹	1%v/v	-	Destroyed unable to be sampled
GW8	Landfill Gas Monitoring ¹	1%v/v	-	Destroyed unable to be sampled
GW9	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW9A	Landfill Gas Monitoring ²	N/A	-	Unable to be sampled
GW11A	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
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	5.8	Compliant
GW16	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW17	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW19A	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
GW22s	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
JHSW-LFG02	Landfill Gas Monitoring ¹	1%v/v	0	Compliant
OSA1	Gas Accumulation Monitoring ³	500ppm	<3	Compliant
OSA2	Gas Accumulation Monitoring ³	500ppm	<3	Compliant
OSA3	Gas Accumulation Monitoring ³	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.