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Project No.:	610.14718
Date:	8/9/2016
Drawn by:	MS
Scale:	1:4,000
Sheet Size:	@A4
Projection:	GDA 1994 MGA Zone 56

Shaft Locations
Other (NML Exceedance 0 to 10 dB)
Crossover Cavern

Other (NML Exceedance 10 to 20 dB)

Other (NML Exceedance 20 to 25 dB)

Other (NML Exceedance > 25 dB)

Residential (NML Exceedance 0 to 10 dB)

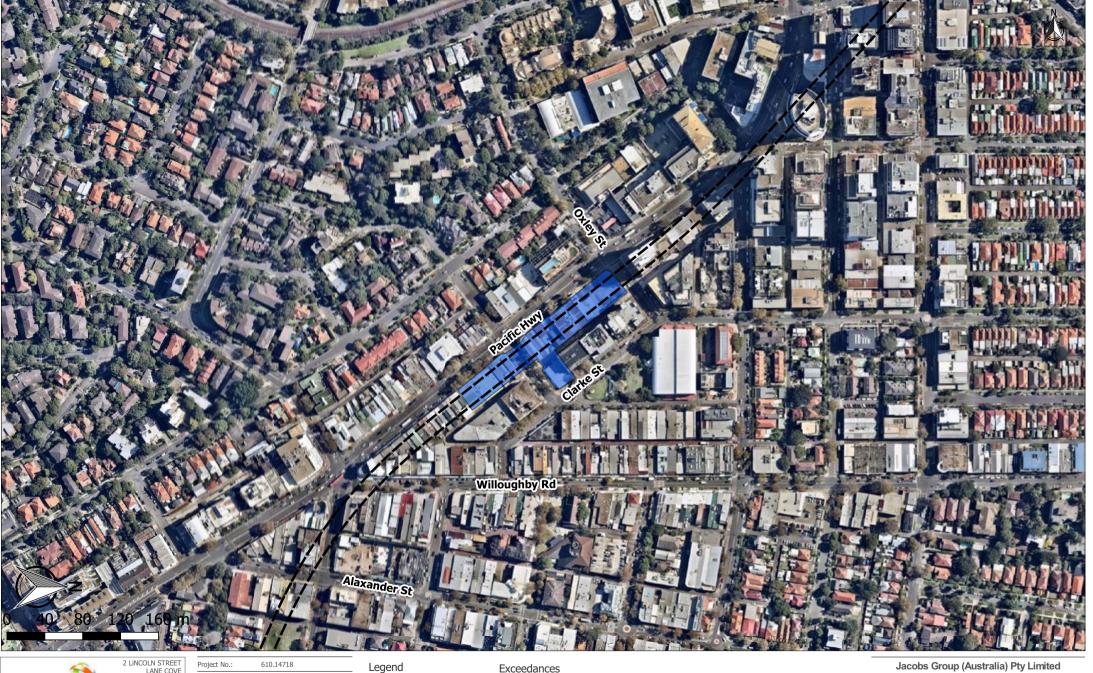
Residential (NML Exceedance 10 to 20 dB)

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Residential (NML Exceedance > 25 dB)

Ground-Bourne Noise Assessment Day-time Crows Nest

Sydney Metro Chatswood to Sydenham





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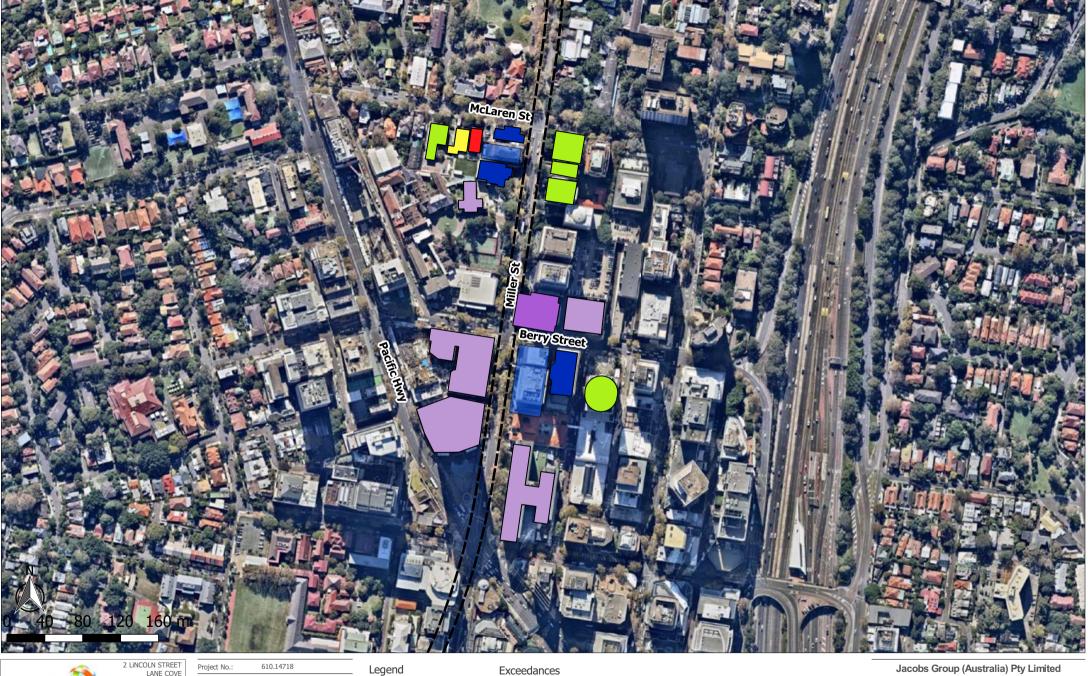
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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Crows Nest





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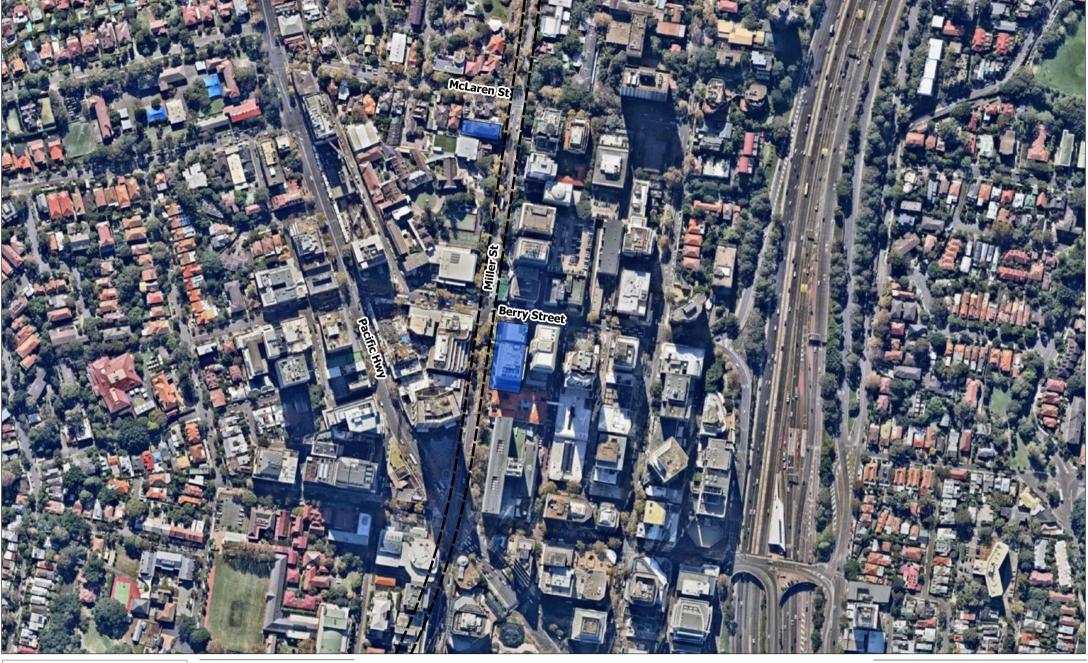
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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Day-time Victoria Cross





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Shaft Locations

Crossover Cavern

# Exceedances

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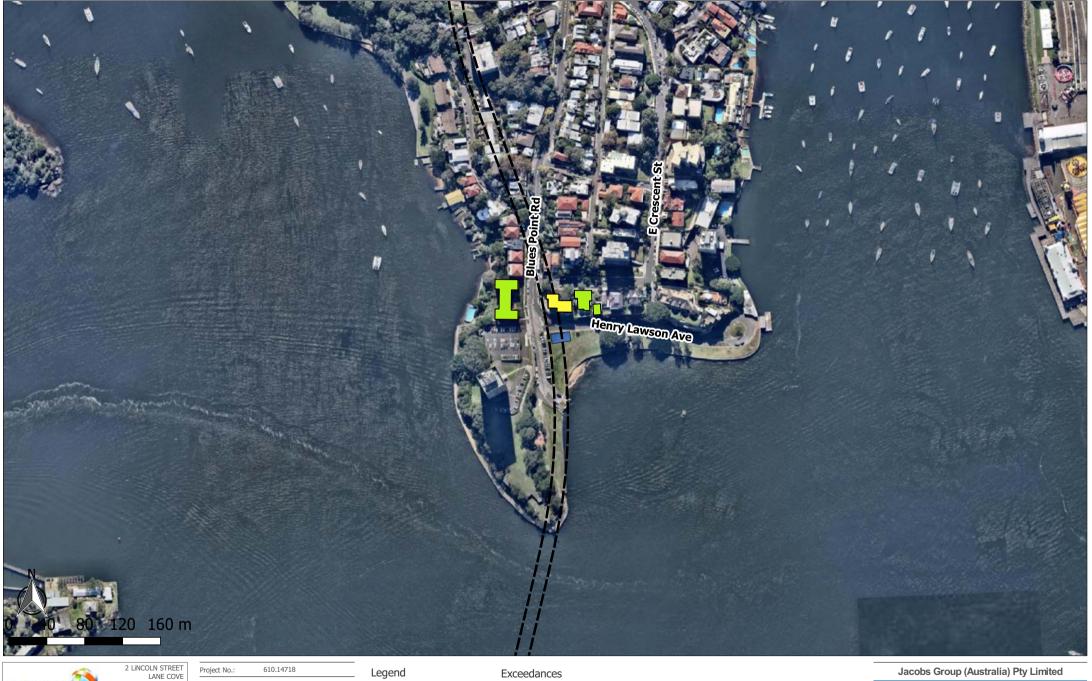
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Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Victoria Cross





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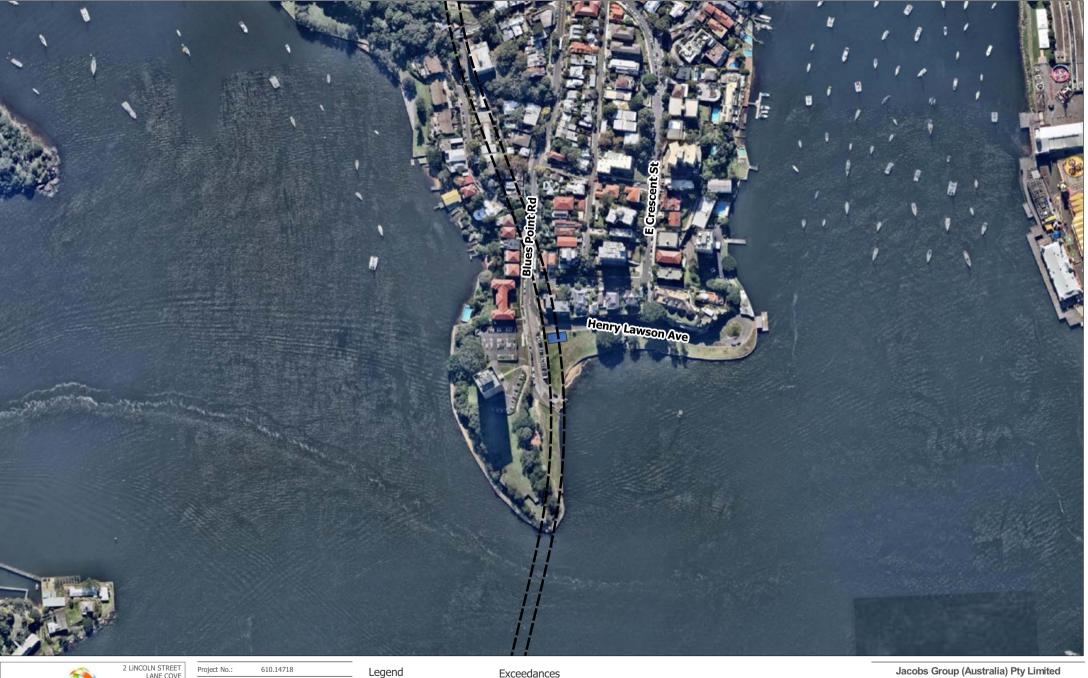
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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Day-time Blues Point





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Shaft Locations

Crossover Cavern

Exceedances

Residential (NML Exceedance 0 to 10 dB)

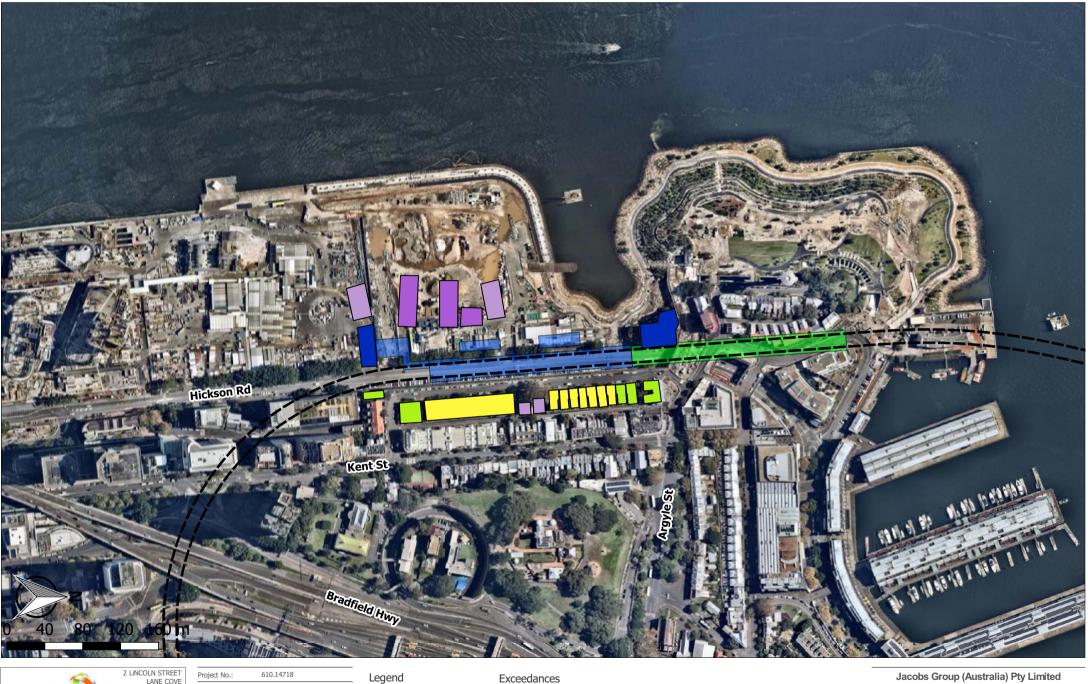
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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Barangaroo





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Shaft Locations

Crossover Cavern

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Sydney Metro Chatswood to Sydenham

**Ground-Bourne Noise Assessment** Day-time Barangaroo





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# Legend

Shaft Locations

Crossover Cavern

# Exceedances

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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Barangaroo





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Shaft Locations

Crossover Cavern

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Other (NML Exceedance > 25 dB)

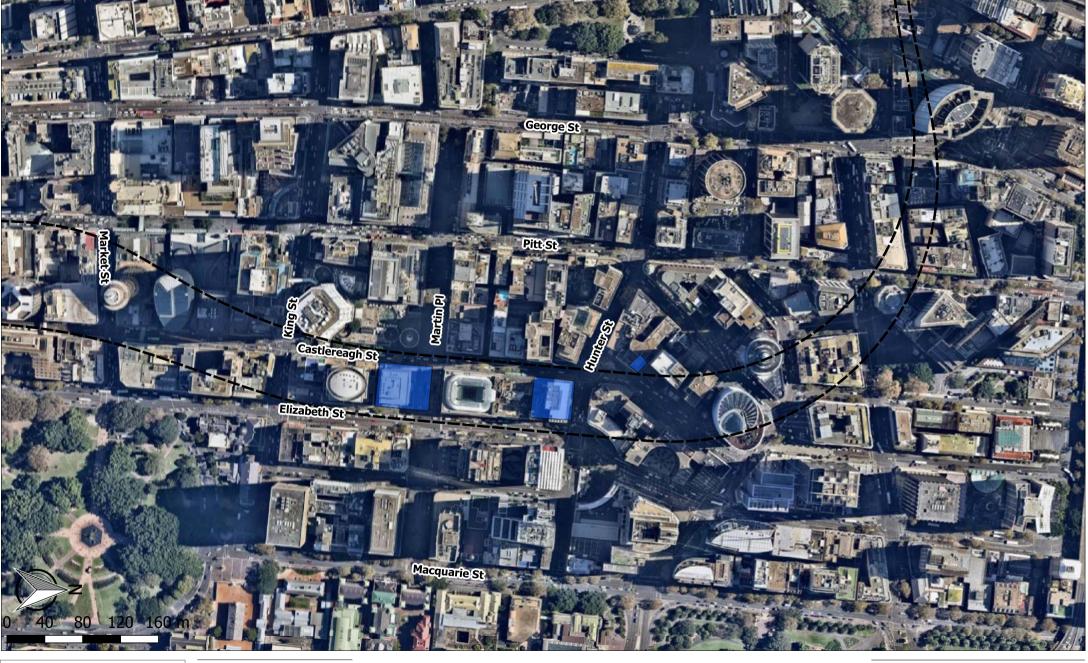
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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Day-time Martin Place





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# Legend

Shaft Locations

Crossover Cavern

### Exceedances

Residential (NML Exceedance 0 to 10 dB)

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Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Martin Place





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# Legend

Shaft Locations

Crossover Cavern

# Exceedances

Other (NML Exceedance 0 to 10 dB)

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Other (NML Exceedance 20 to 25 dB)

Other (NML Exceedance > 25 dB)

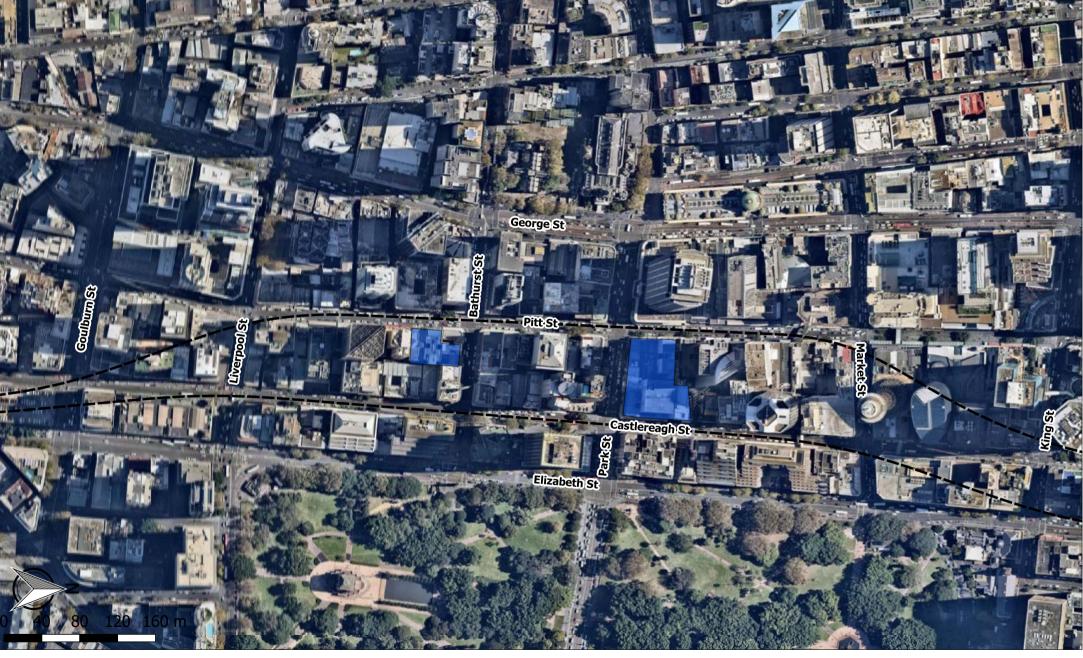
Residential (NML Exceedance 0 to 10 dB)

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Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Day-time Pitt Street





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# Legend

Shaft Locations

Crossover Cavern

### Exceedances

Residential (NML Exceedance 0 to 10 dB)

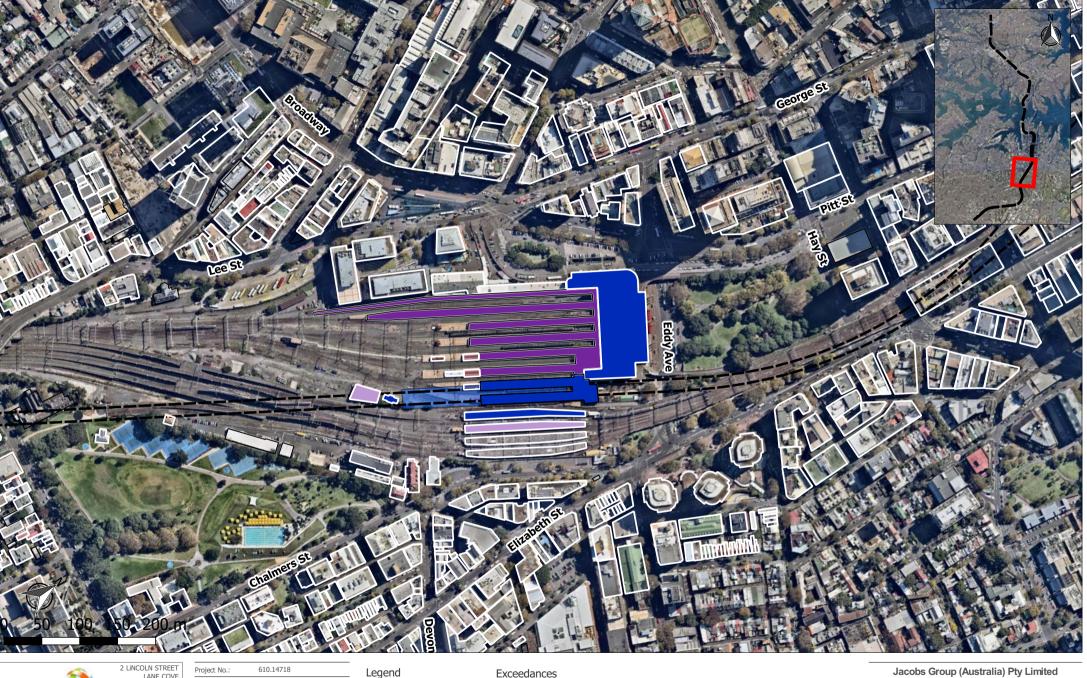
Residential (NML Exceedance 10 to 20 dB)

Residential (NML Exceedance 20 to 25 dB) Residential (NML Exceedance > 25 dB)

Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Pitt Street





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Sheet Size:	@A4
Projection:	GDA 1994 MGA Zone 56

One Storey Receiver
>One Storey Receiver
Shaft Locations

Crossover Cavern

Other (NML Exceedance 0 to 10 dB)

Other (NML Exceedance 10 to 20 dB)

Other (NML Exceedance 10 to 20 dB)

Residential (NML Exceedance 10 to 20 dB)

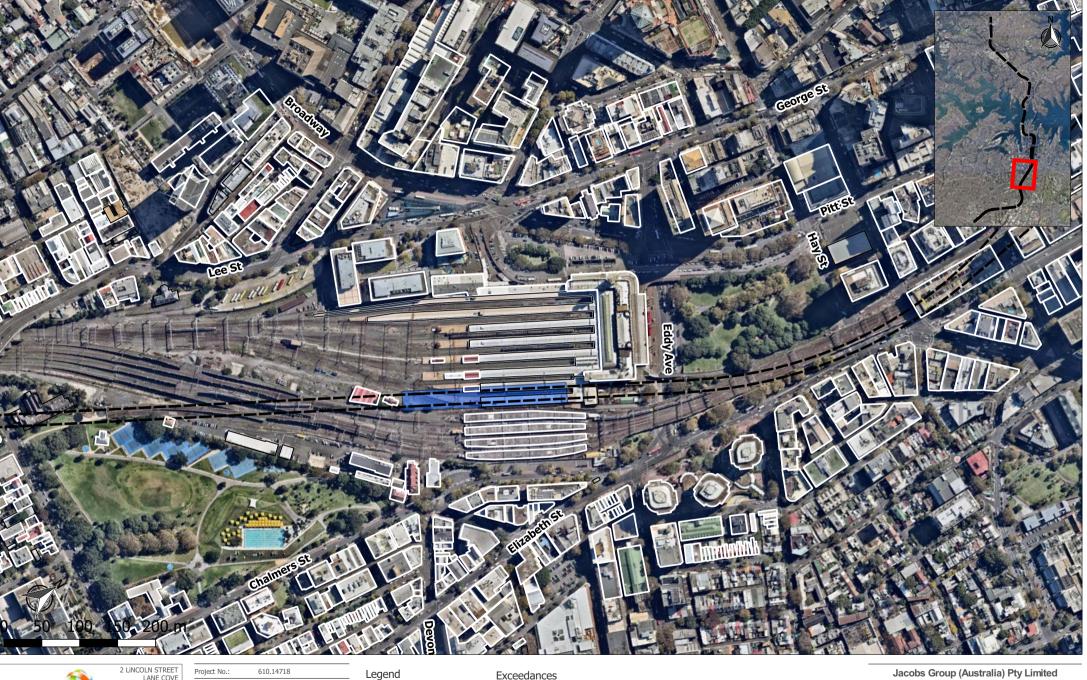
Other (NML Exceedance 20 to 25 dB)

Other (NML Exceedance > 25 dB)

Residential (NML Exceedance > 25 dB)

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment
Day-time
Central Station





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One Storey Receiver

>One Storey Receiver

Shaft Locations Crossover Cavern

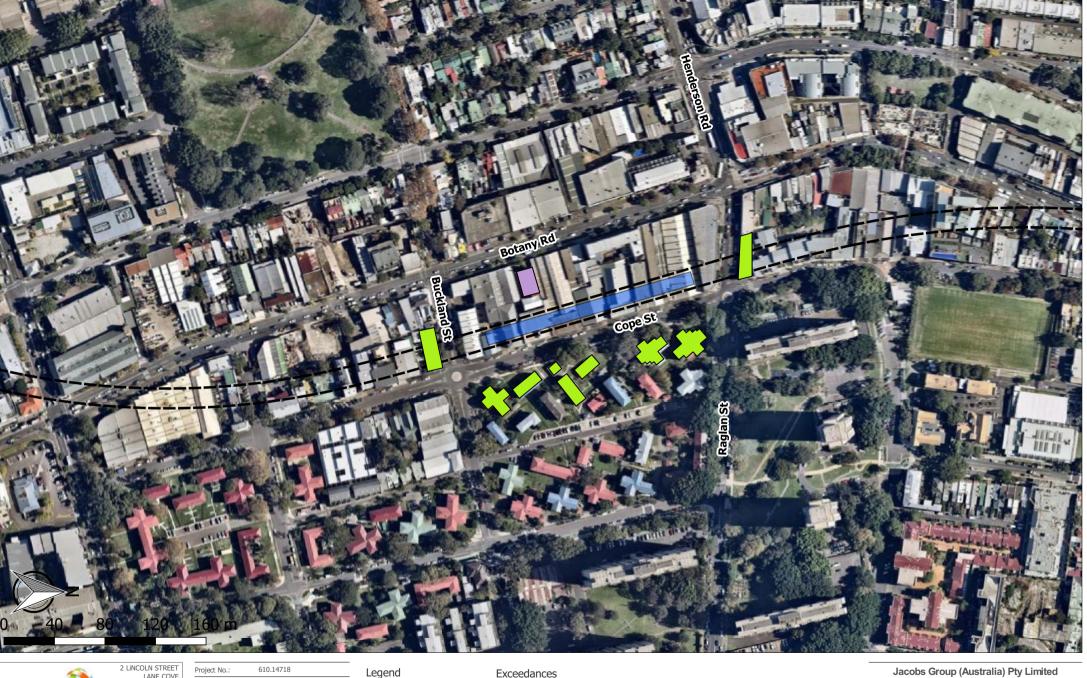
Residential (NML Exceedance 0 to 10 dB)

Residential (NML Exceedance 10 to 20 dB)

Residential (NML Exceedance > 20 dB)

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time **Central Station** 





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Shaft Locations

Crossover Cavern

# Exceedances

Other (NML Exceedance 0 to 10 dB)

Other (NML Exceedance 10 to 20 dB) Other (NML Exceedance 20 to 25 dB) Other (NML Exceedance > 25 dB)

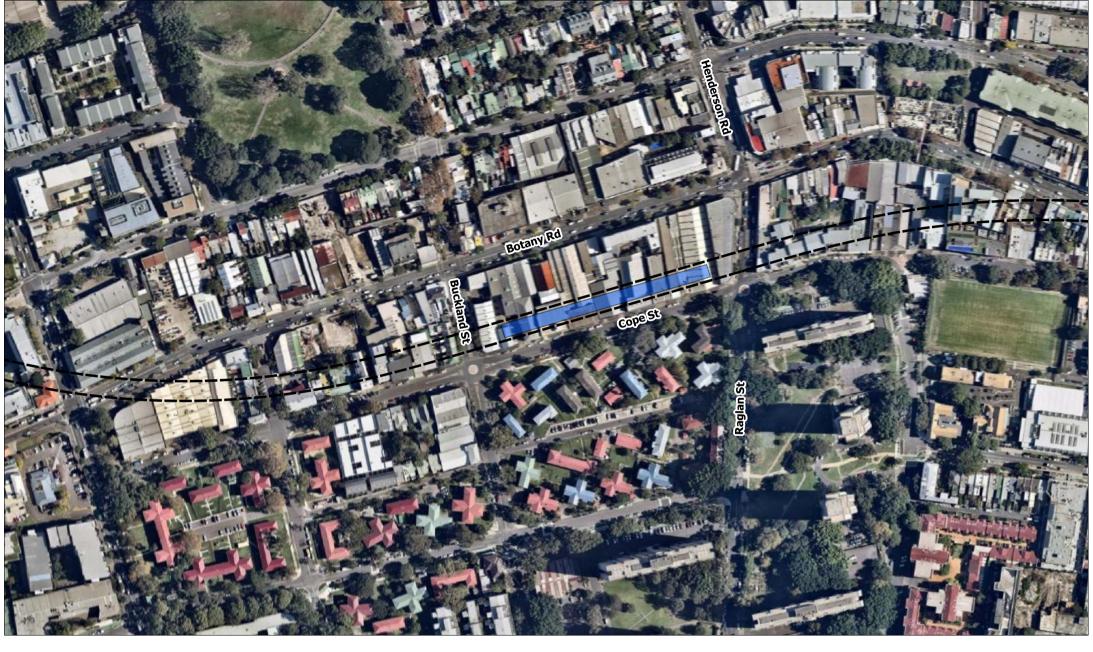
Residential (NML Exceedance 0 to 10 dB)

Residential (NML Exceedance 10 to 20 dB) Residential (NML Exceedance 20 to 25 dB)

Residential (NML Exceedance > 25 dB)

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Day-time Waterloo





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# Legend

Shaft Locations

Crossover Cavern

# Exceedances

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Residential (NML Exceedance 10 to 20 dB)

Residential (NML Exceedance 20 to 25 dB) Residential (NML Exceedance > 25 dB)

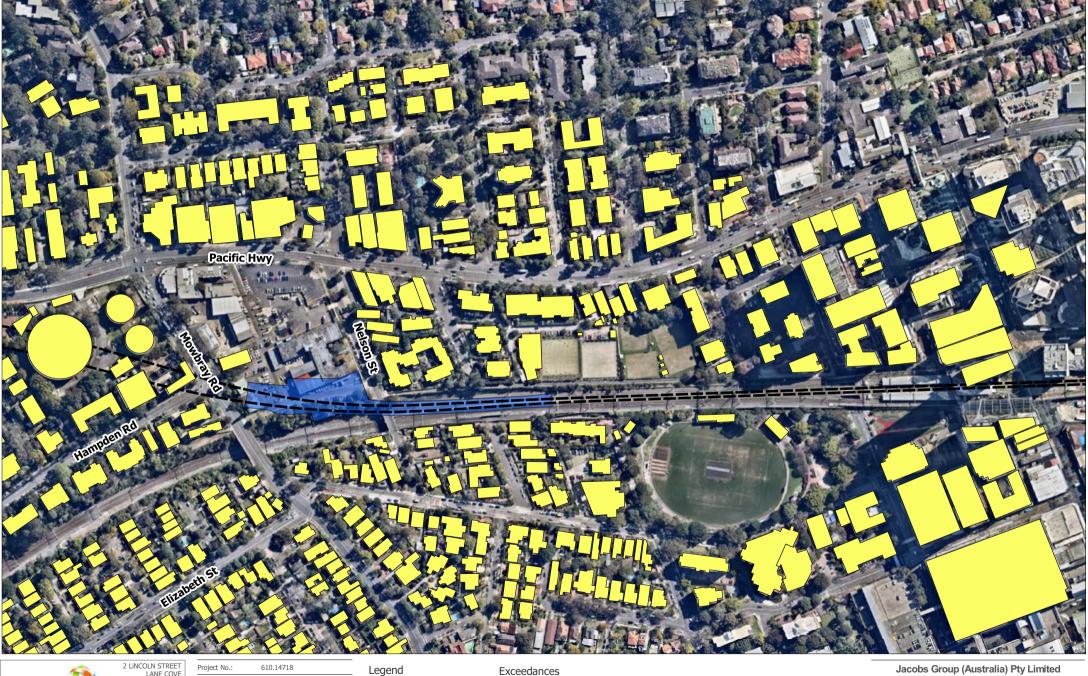
Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Ground-Bourne Noise Assessment Night-time Waterloo

Report Number 610.14718R2

# CONSTRUCTION VIBRATION PREDICTIONS





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Legend

Shaft Locations

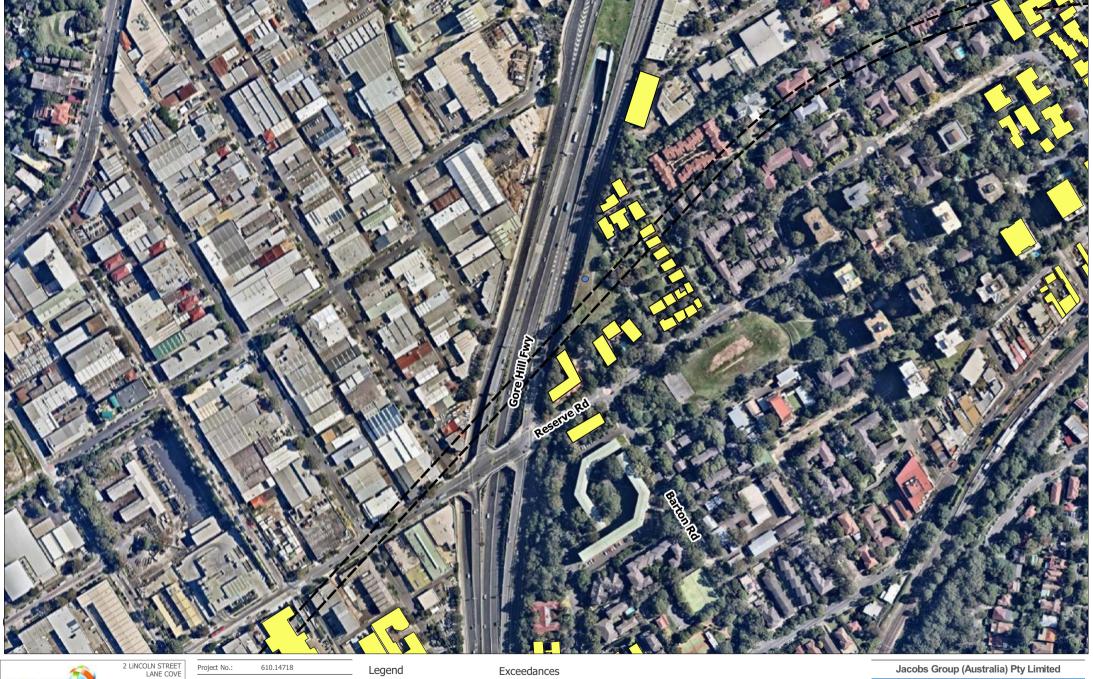
Crossover Cavern

No Exceedance

Exceedance

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Chatswood





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Shaft Locations Crossover Cavern

No Exceedance

Exceedance

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Artarmon





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Shaft Locations Crossover Cavern

No Exceedance

Exceedance

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Crows Nest





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Shaft Locations

Crossover Cavern

Exceedances

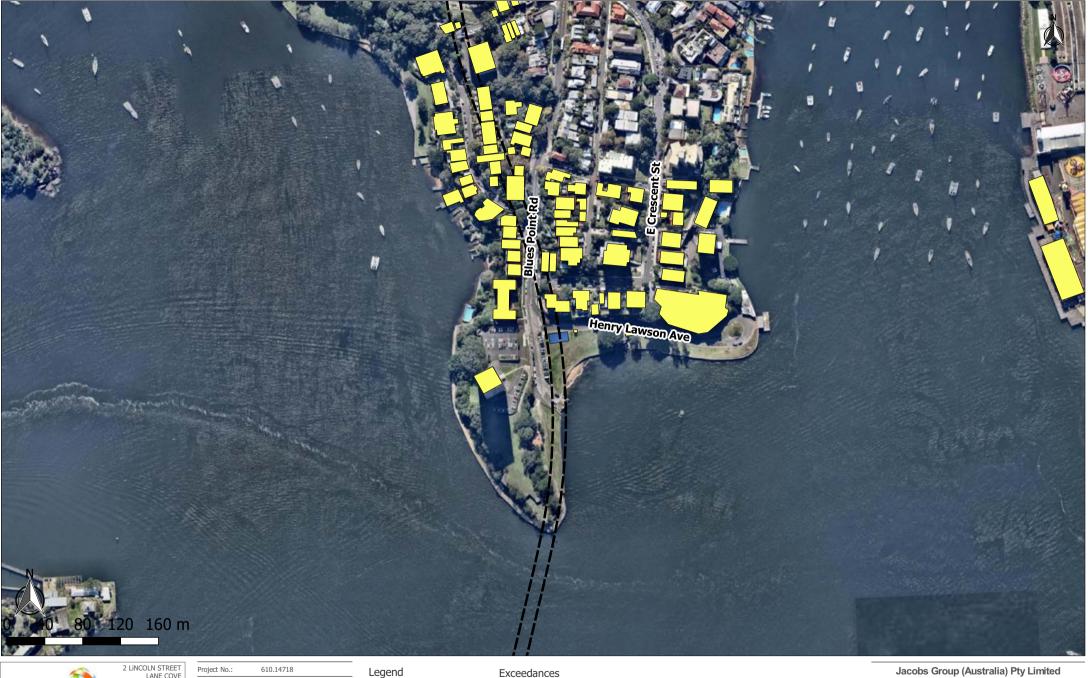
No Exceedance

Exceedance

Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Victoria Cross





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Shaft Locations

Crossover Cavern

Exceedances

No Exceedance

Exceedance

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Blues Point





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# Legend

Shaft Locations

Crossover Cavern

Exceedances

No Exceedance Exceedance

Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Barangaroo





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# Legend

Shaft Locations

Crossover Cavern

Exceedances

No Exceedance

Exceedance

Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Martin Place





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Shaft Locations

Crossover Cavern

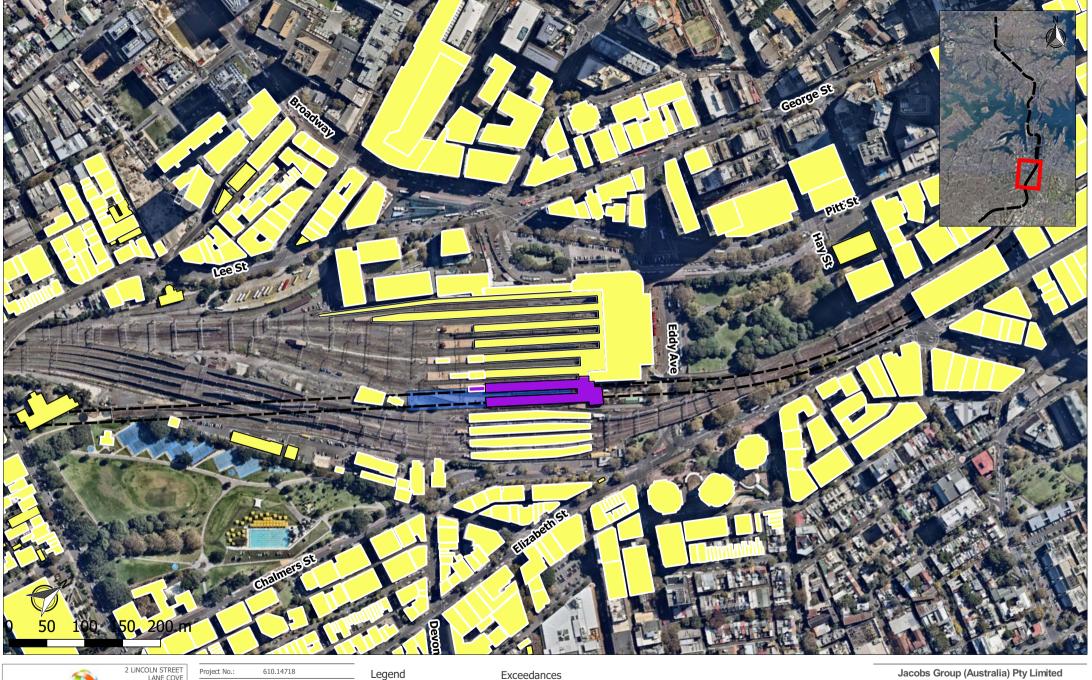
No Exceedance

Exceedance

Jacobs Group (Australia) Pty Limited

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Pitt Street





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One Storey Receiver

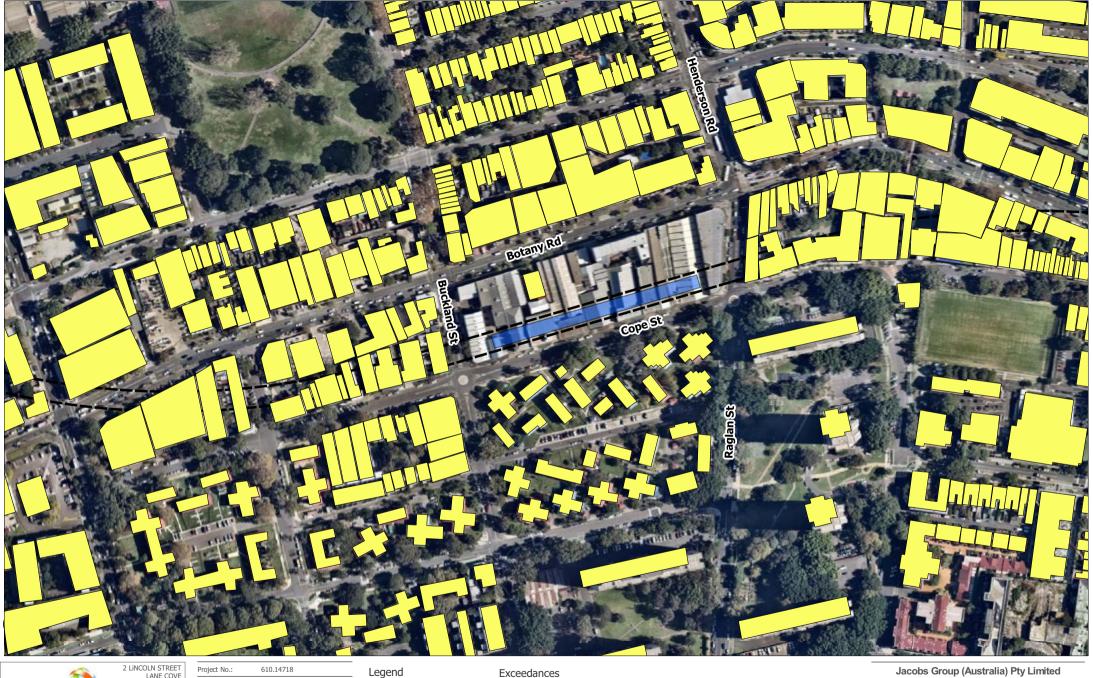
>One Storey Receiver Shaft Locations

Crossover Cavern

No Exceedance Exceedance

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Central Station





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Shaft Locations

Crossover Cavern

Exceedances

No Exceedance

Exceedance

Sydney Metro Chatswood to Sydenham

Cosmetic Damage Vibration Assessment Exceedance of Screening Criteria Waterloo