



Appendix A

Background figures





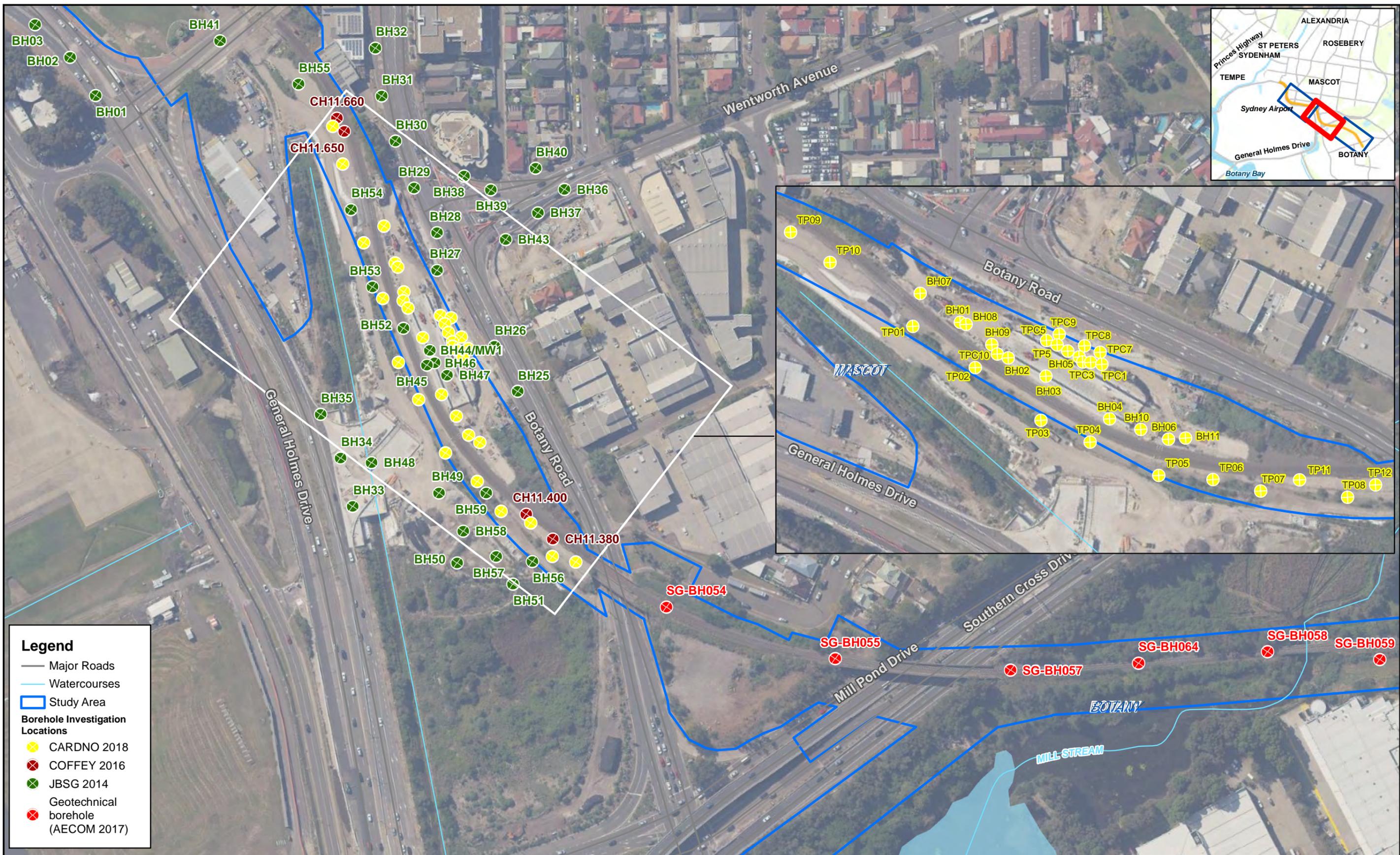
Legend

- Major Roads
- ▭ Study Area
- Borehole Investigation Locations**
- ⊗ COFFEY 2016
- ⊗ JBSG 2014
- ⊗ Geotechnical borehole (AECOM 2017)
- ⊗ Environmental borehole (AECOM 2017)



Author: David Naiken
 Date: 21/08/2019
 Map no: PS113386_GIS_082_A2

Figure 1



Legend

- Major Roads
- Watercourses
- ▭ Study Area

Borehole Investigation Locations

- ⊗ CARDNO 2018
- ⊗ COFFEY 2016
- ⊗ JBSG 2014
- ⊗ Geotechnical borehole (AECOM 2017)



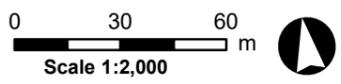
Author: David Naiken
Date: 21/08/2019
Map no: PS113386_GIS_082_A2

Figure 1



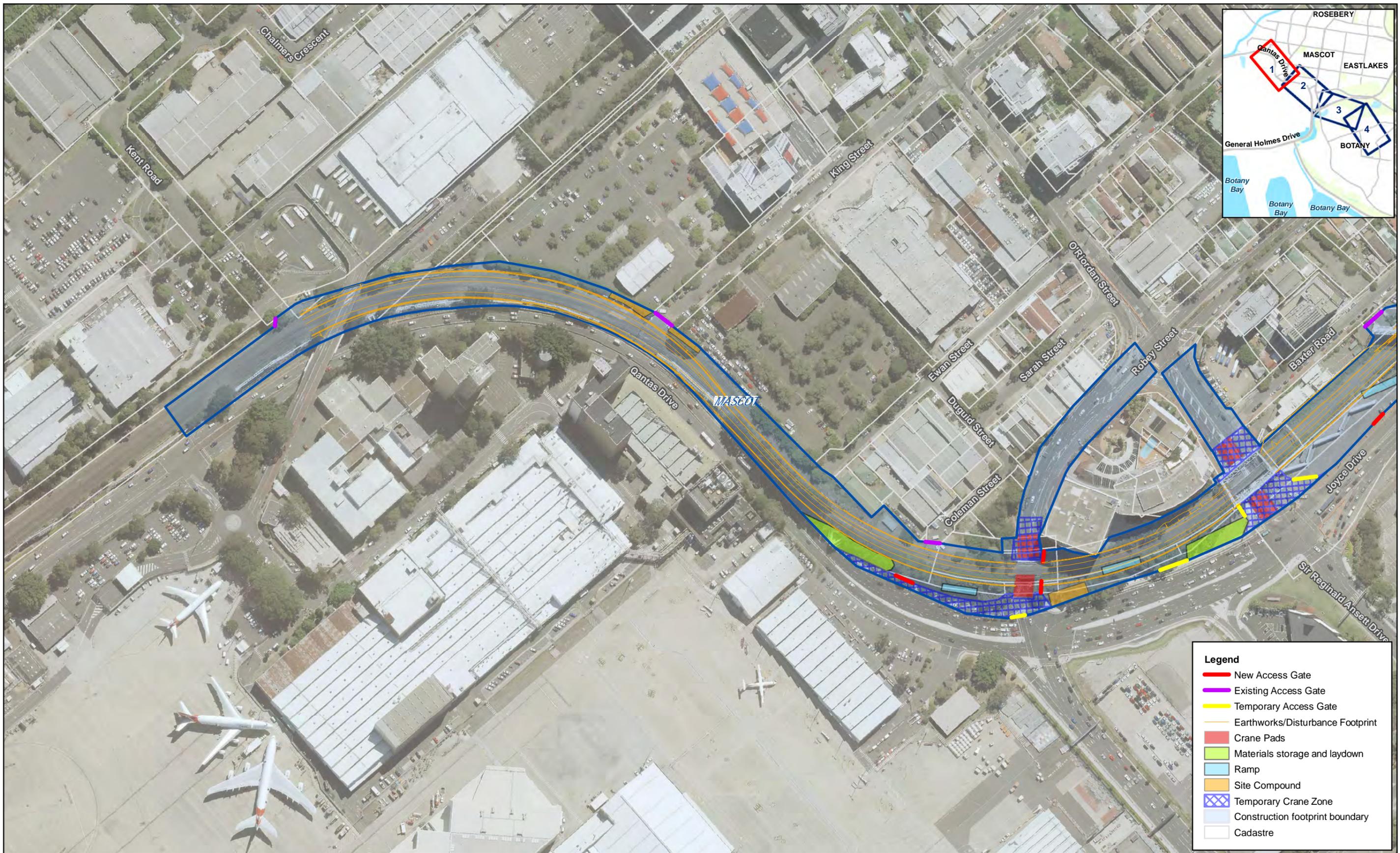
Legend

- Study Area
- Borehole Investigation Locations**
- ⊗ COFFEY 2015
- ⊗ Environmental borehole (AECOM 2017)
- ⊗ Large diameter auger borehole (AECOM 2017)



Author: David Naiken
Date: 21/08/2019
Map no: PS113386_GIS_082_A2

Figure 1



Legend

- █ New Access Gate
- █ Existing Access Gate
- █ Temporary Access Gate
- █ Earthworks/Disturbance Footprint
- █ Crane Pads
- █ Materials storage and laydown
- █ Ramp
- █ Site Compound
- █ Temporary Crane Zone
- █ Construction footprint boundary
- █ Cadastre

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING	PLOT DATE / TIME 15/05/2019 9:30:15 AM	PLOT BY GK	CLIENT ARTC	BOTANY RAIL DUPLICATION	A3
REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A1 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	<p>Figure 2 - Proposed earthworks</p> <p style="text-align: right;">Page 1 of 4</p>	
A1	15/05/2019	Proposed earthworks			 1:2,500	 DRG No.		
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							SHEET No.	ISSUE A1



Legend

- New Access Gate
- Existing Access Gate
- Temporary Access Gate
- Earthworks/Disturbance Footprint
- Materials storage and laydown
- Ramp
- Site Compound
- Storage and compound area
- Temporary Crane Zone
- Construction footprint boundary
- Cadastre

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
A1	15/05/2019	Proposed earthworks

DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
WVR No.	APPROVAL

SCALES ON A1 SIZE DRAWING

DRAWINGS / DESIGN PREPARED BY

1:2,500

CO-ORDINATE SYSTEM: MGA ZONE 56

HEIGHT DATUM: AHD

DRG No.

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DRG CHECK	J BARTON	15/05/2019

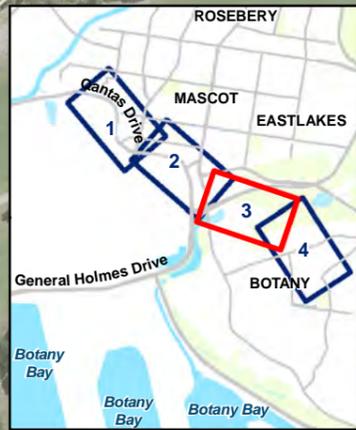
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PLOT BY: GK

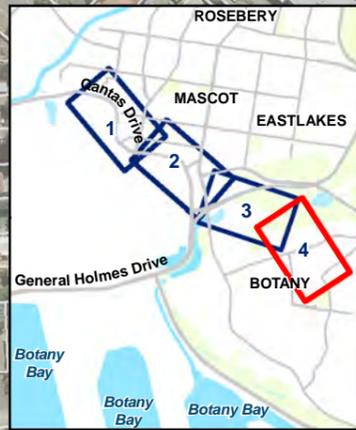
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PREPARED FOR:

BOTANY RAIL DUPLICATION		A3
Figure 2 - Proposed earthworks		Page 2 of 4
RMS REGISTRATION No.	EDMS No.	SHEET No.
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DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING	PLOT DATE / TIME 15/05/2019 9:30:15 AM	PLOT BY GK	CLIENT ARTC	BOTANY RAIL DUPLICATION	A3			
REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A1 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		
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							PREPARED FOR	RMS REGISTRATION No.	PART		
								ISSUE STATUS FOR INFORMATION	EDMS No.	SHEET No.	ISSUE A1



DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING	PLOT DATE / TIME 15/05/2019 9:30:15 AM	PLOT BY GK	CLIENT ARTC	BOTANY RAIL DUPLICATION		A3	
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A1	15/05/2019	Proposed earthworks						G KUMAR	15/05/2019	
					CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD		J BARTON	15/05/2019	
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Figure 2 - Proposed earthworks

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RMS REGISTRATION No. _____

EDMS No. _____

SHEET No. _____

ISSUE A1



Legend

- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre
- Could not be accessed - no walkover

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
A1	15/05/2019	Areas not accessed during site inspection

DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
WVR No. APPROVAL	SCALES ON A1 SIZE DRAWING

1:2,500

CO-ORDINATE SYSTEM: MGA ZONE 56
HEIGHT DATUM: AHD

DRAWINGS / DESIGN PREPARED BY

DRG No.

TITLE	NAME	DATE
DRAWN	G KUMAR	
DRG CHECK	J BARTON	
		15/05/2019

CLIENT

PREPARED FOR

BOTANY RAIL DUPLICATION		A3
15/05/2019		
Figure 3 - Areas not accessed during site inspection		
Page 1 of 4		
RMS REGISTRATION No.		PART
ISSUE STATUS FOR INFORMATION	EDMS No.	SHEET No.
		ISSUE A1



Legend

- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre
- Could not be accessed - no walkover

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
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CO-ORDINATE SYSTEM: MGA ZONE 56
HEIGHT DATUM: AHD

DRAWINGS / DESIGN PREPARED BY

DRG No.

TITLE	NAME	DATE
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DRG CHECK	J BARTON	15/05/2019

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PREPARED FOR

BOTANY RAIL DUPLICATION		A3
15/05/2019		
Figure 3 - Areas not accessed during site inspection		Page 2 of 4
RMS REGISTRATION No.	EDMS No.	SHEET No.
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Legend

- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
A1	15/05/2019	Areas not accessed during site inspection

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TITLE	NAME	DATE
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DRG CHECK	J BARTON	15/05/2019

CLIENT

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BOTANY RAIL DUPLICATION		A3
15/05/2019	Figure 3 - Areas not accessed during site inspection Page 4 of 4	
RMS REGISTRATION No.	EDMS No.	SHEET No.
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REV	DATE	AMENDMENT / REVISION DESCRIPTION
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DRG CHECK	J BARTON	15/05/2019

CO-ORDINATE SYSTEM	HEIGHT DATUM
MGA ZONE 56	AHD

BOTANY RAIL DUPLICATION		A3
Figure 4 - Features identified during site inspection		
Page 1 of 4		
RMS REGISTRATION No.	EDMS No.	SHEET No.
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Legend	
	Earthworks/Disturbance Footprint
	Construction footprint boundary
	Cadastre
	Construction rubbish
	Suspected fill area

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
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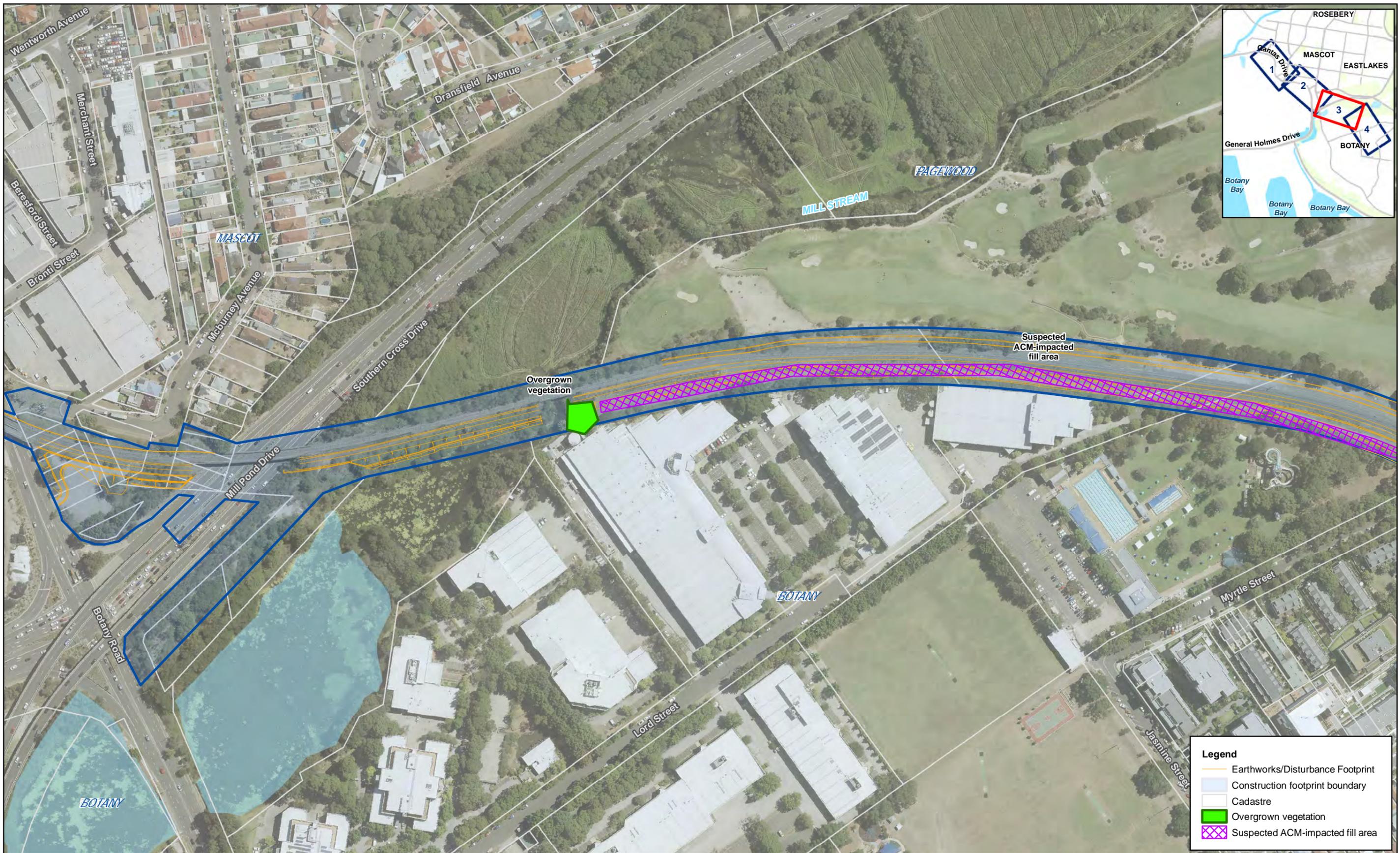
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DRG CHECK	J BARTON	15/05/2019

CO-ORDINATE SYSTEM	HEIGHT DATUM
MGA ZONE 56	AHD

BOTANY RAIL DUPLICATION		A3
Figure 4 - Features identified during site inspection		
Page 2 of 4		
RMS REGISTRATION No.	EDMS No.	SHEET No.
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Legend

- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre
- Overgrown vegetation
- Suspected ACM-impacted fill area

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
A1	15/05/2019	Features identified during site inspection

DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
WVR No.	APPROVAL

SCALES ON A1 SIZE DRAWING

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1:2,500

CO-ORDINATE SYSTEM: MGA ZONE 56

HEIGHT DATUM: AHD

DRAWINGS / DESIGN PREPARED BY

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TITLE	NAME	DATE
DRAWN	G KUMAR	15/05/2019
DRG CHECK	J BARTON	15/05/2019

PLOT DATE / TIME: 15/05/2019 3:53:57 PM

PLOT BY: GK

CLIENT: ARTC

PREPARED FOR:

BOTANY RAIL DUPLICATION A3

Figure 4 - Features identified during site inspection

Page 3 of 4

RMS REGISTRATION No.	EDMS No.	SHEET No.	ISSUE
			A1

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Legend

- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre
- Ballast stockpile
- Recess area
- Skip bin
- Sleepers
- Suspected ACM-impacted fill area
- Vegetation stockpile

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
A1	15/05/2019	Features identified during site inspection

DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
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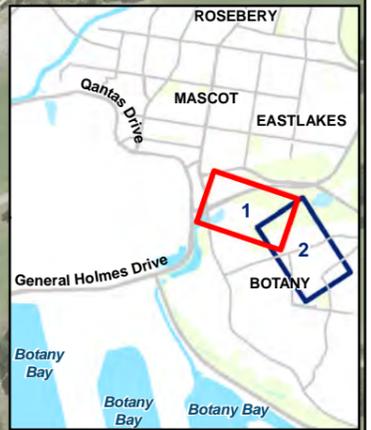
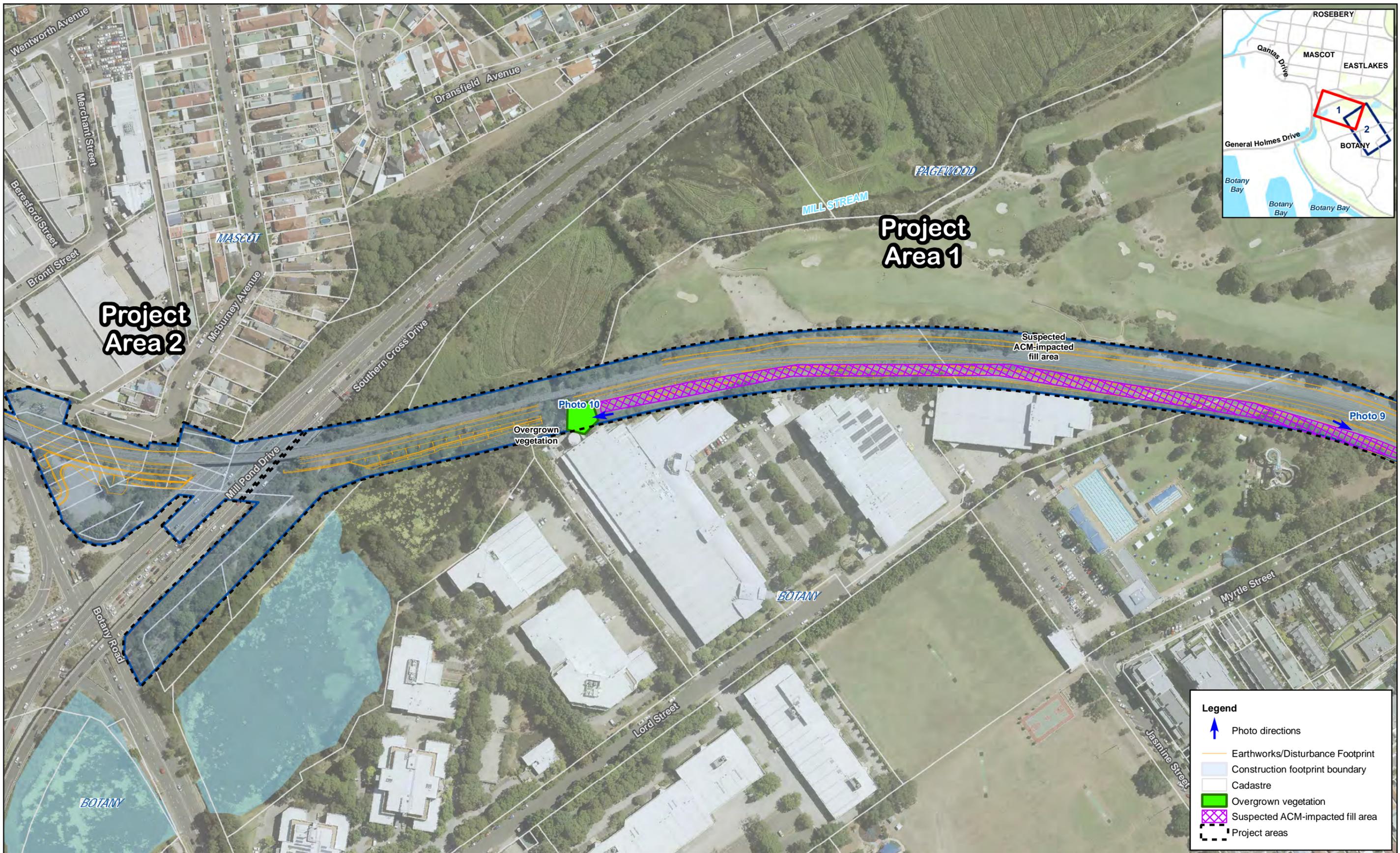
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DRG CHECK	J BARTON	15/05/2019

CLIENT

PREPARED FOR

BOTANY RAIL DUPLICATION		A3
Figure 4 - Features identified during site inspection		
Page 4 of 4		
RMS REGISTRATION No.	EDMS No.	SHEET No.
ISSUE STATUS FOR INFORMATION		ISSUE A1



Legend	
	Photo directions
	Earthworks/Disturbance Footprint
	Construction footprint boundary
	Cadastral
	Overgrown vegetation
	Suspected ACM-impacted fill area
	Project areas

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
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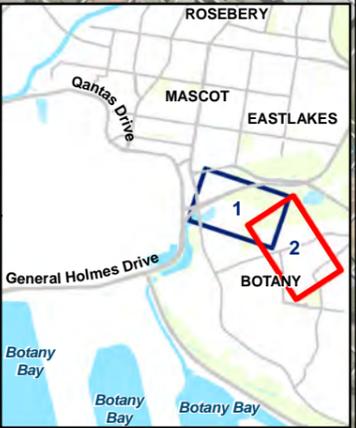
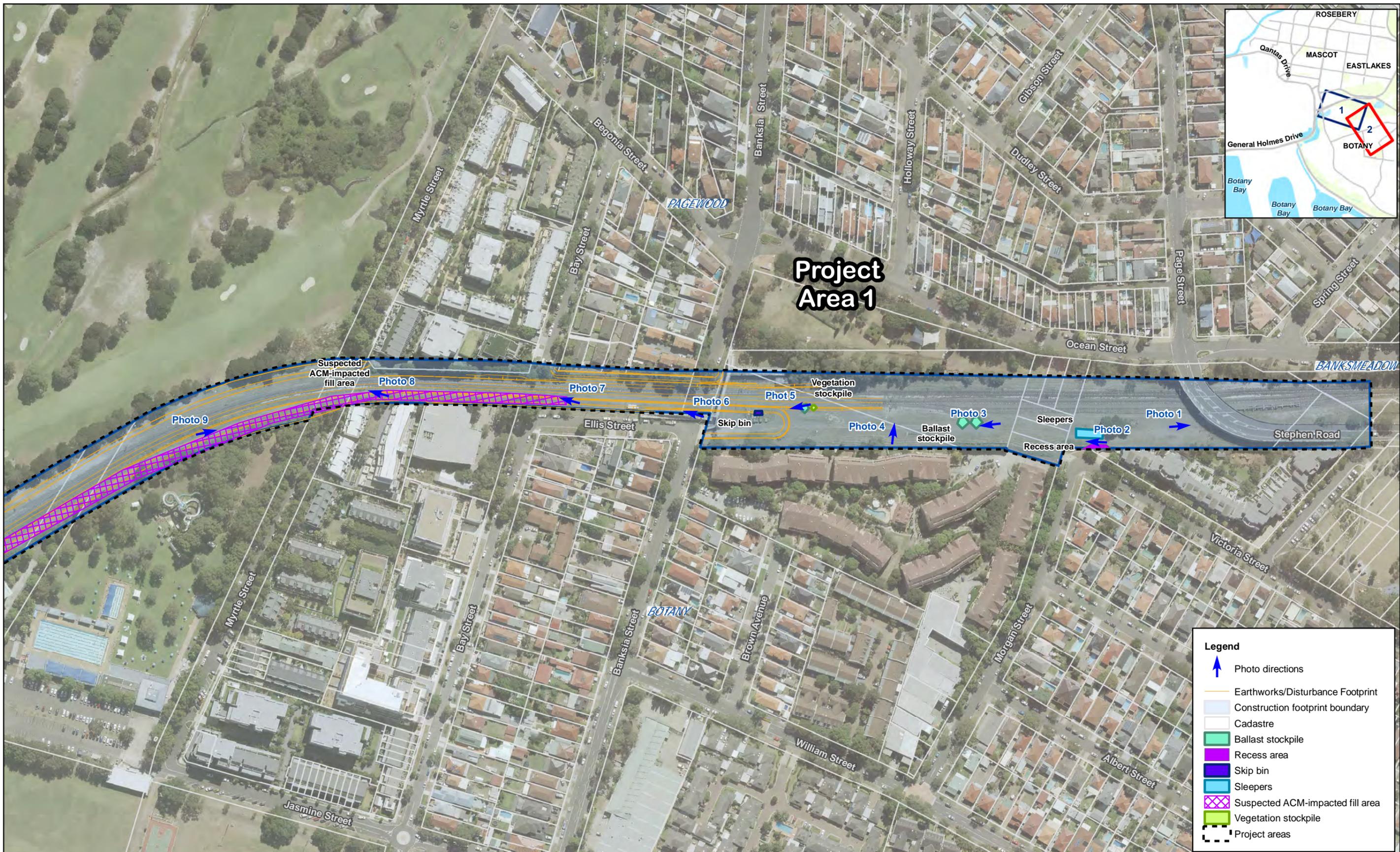
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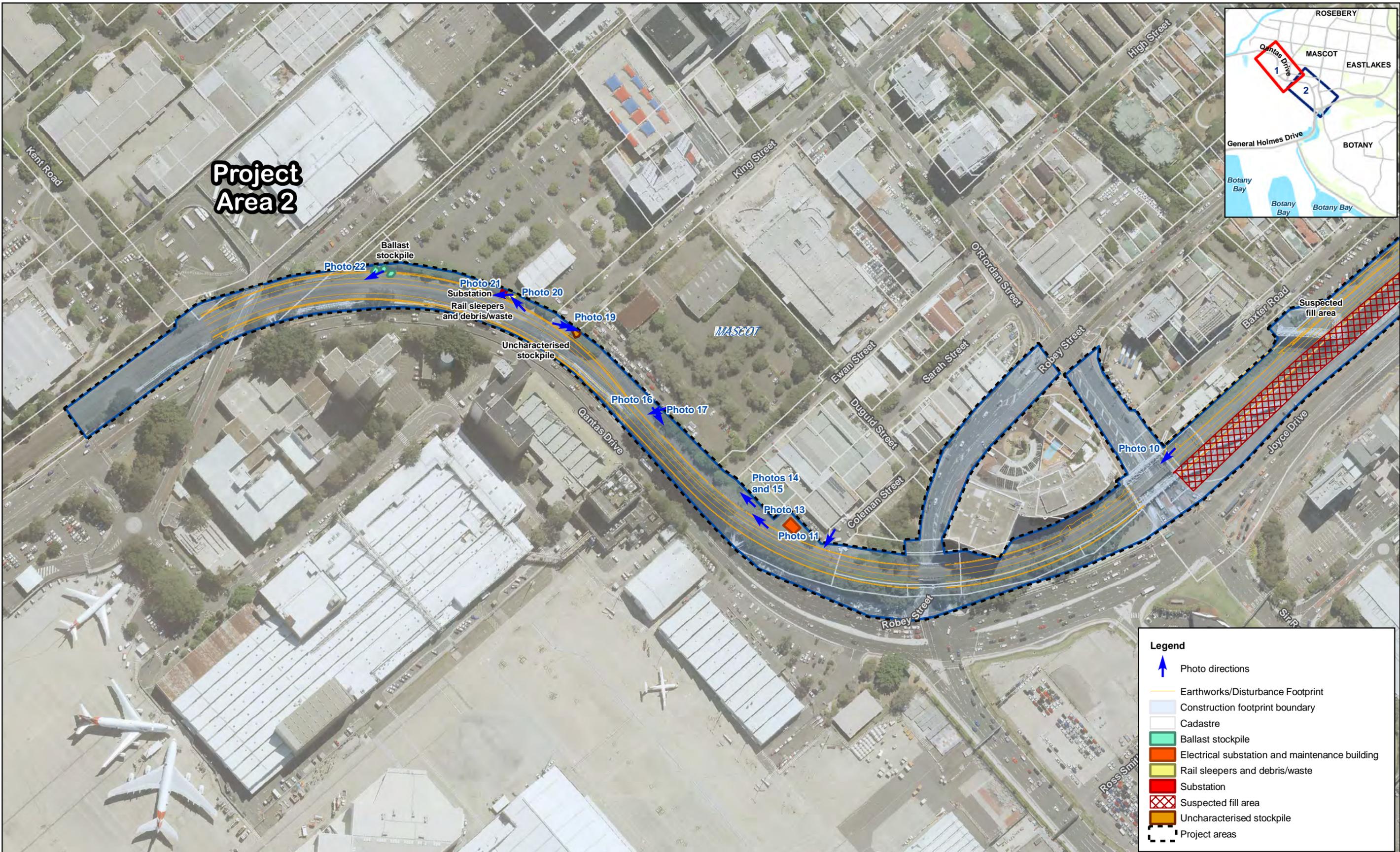
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CO-ORDINATE SYSTEM	HEIGHT DATUM
MGA ZONE 56	AHD

BOTANY RAIL DUPLICATION		A3
Features identified during site inspection Photo log index - Project Area 1		Page 1 of 2
RMS REGISTRATION No.	EDMS No.	SHEET No.
ISSUE STATUS FOR INFORMATION		ISSUE A1



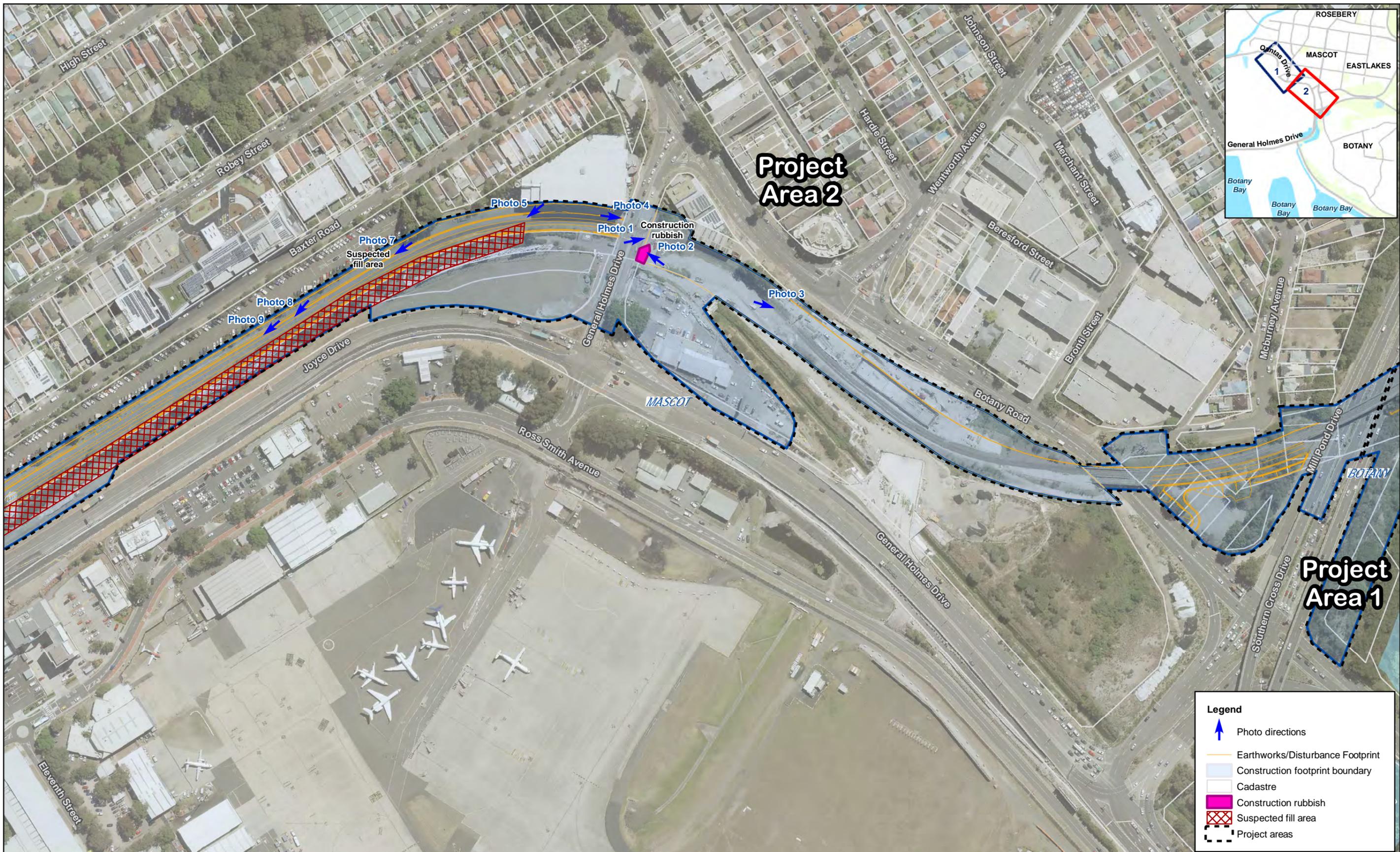
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A1	30/05/2019	Features identified during site inspection - Photo log - Project Area 1					Page 2 of 2			
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							ISSUE STATUS FOR INFORMATION	EDMS No.	SHEET No.	ISSUE A1



Legend

- Photo directions
- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre
- Ballast stockpile
- Electrical substation and maintenance building
- Rail sleepers and debris/waste
- Substation
- Suspected fill area
- Uncharacterised stockpile
- Project areas

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING	PLOT DATE / TIME 30/05/2019 3:32:14 PM	PLOT BY GK	CLIENT ARTC	BOTANY RAIL DUPLICATION		A3
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							PREPARED FOR	RMS REGISTRATION No.	
								ISSUE STATUS FOR INFORMATION	
								EDMS No.	SHEET No.
									ISSUE A1



Legend

- Photo directions
- Earthworks/Disturbance Footprint
- Construction footprint boundary
- Cadastre
- Construction rubbish
- Suspected fill area
- Project areas

DATA SOURCE: Aerial Imagery © AUSIMAGE - Jacobs Group (Australia) Pty Ltd 2018

REV	DATE	AMENDMENT / REVISION DESCRIPTION
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DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
WVR No.	APPROVAL

SCALES ON A1 SIZE DRAWING

CO-ORDINATE SYSTEM: MGA ZONE 56
HEIGHT DATUM: AHD

DRAWINGS / DESIGN PREPARED BY

DRG No.

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DRG CHECK	J BARTON	30/05/2019

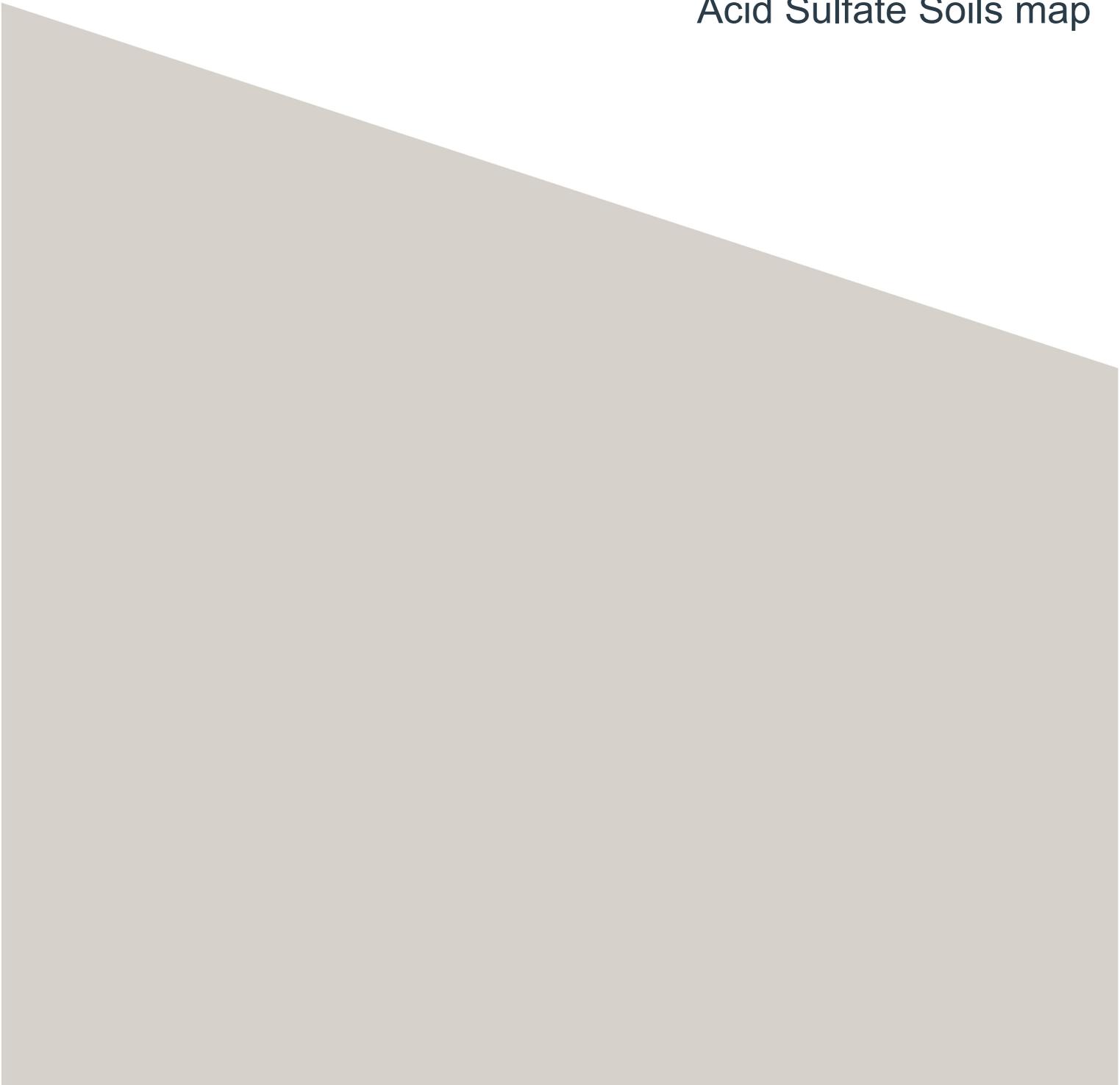
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PREPARED FOR

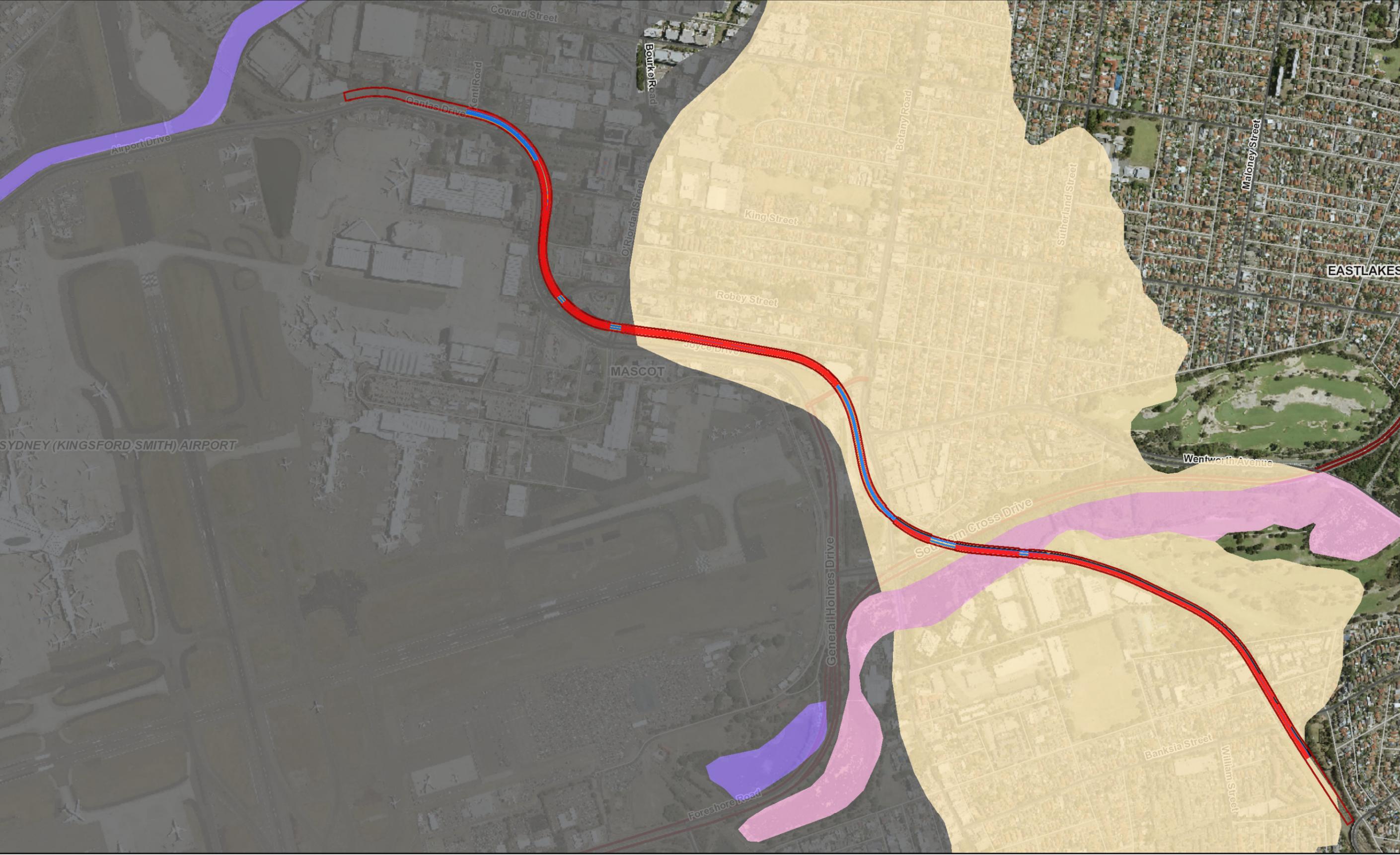
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Features identified during site inspection Photo log index - Project Area 2				Page 2 of 2
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FOR INFORMATION			A1	



Appendix B
Acid Sulfate Soils map

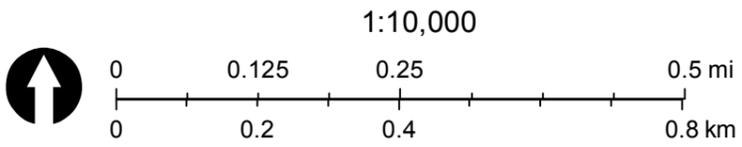


Appendix B - Acid Sulfate Soil risk



August 13, 2018

Printed from: <https://create-anz.wsp.com/Default.aspx?p=sydneygateway>



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Legend

Acid sulfate soil risk

	Rail Design - Horizontal alignment Up Botany		Alexandra Canal
	Rail Design - Horizontal alignment Down Botany		
	Rail Design - Loops Botany		
	Project site - Rail		
Acid Sulfate Soil Risk			
	High Risk 0-1m		
	High Risk 1-2m		
	High Risk 2-4m		
	High Risk above 4m		
	High Risk Sediments		
	Low Risk 0-1m		
	Low Risk 1-2m		
	Low Risk 2-4m		
	Low Risk above 4m		
	Low Risk Sediments		
	No Risk		
	Water		
	Disturbed Terrain		
	Beach		
	Major Places		
	Locality Names		
	Road Names		
Local Road			
	Local Road		
	Track and Access		
	Dedicated Busway		
	Named watercourse		
	Watercourses		



Botany Bay Local Environmental Plan 2013

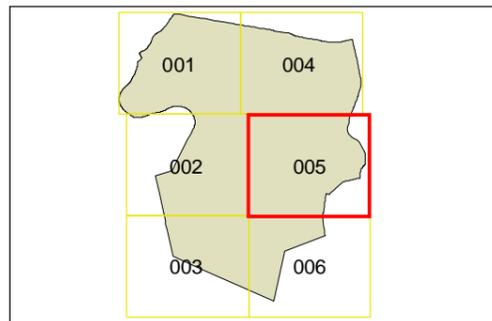
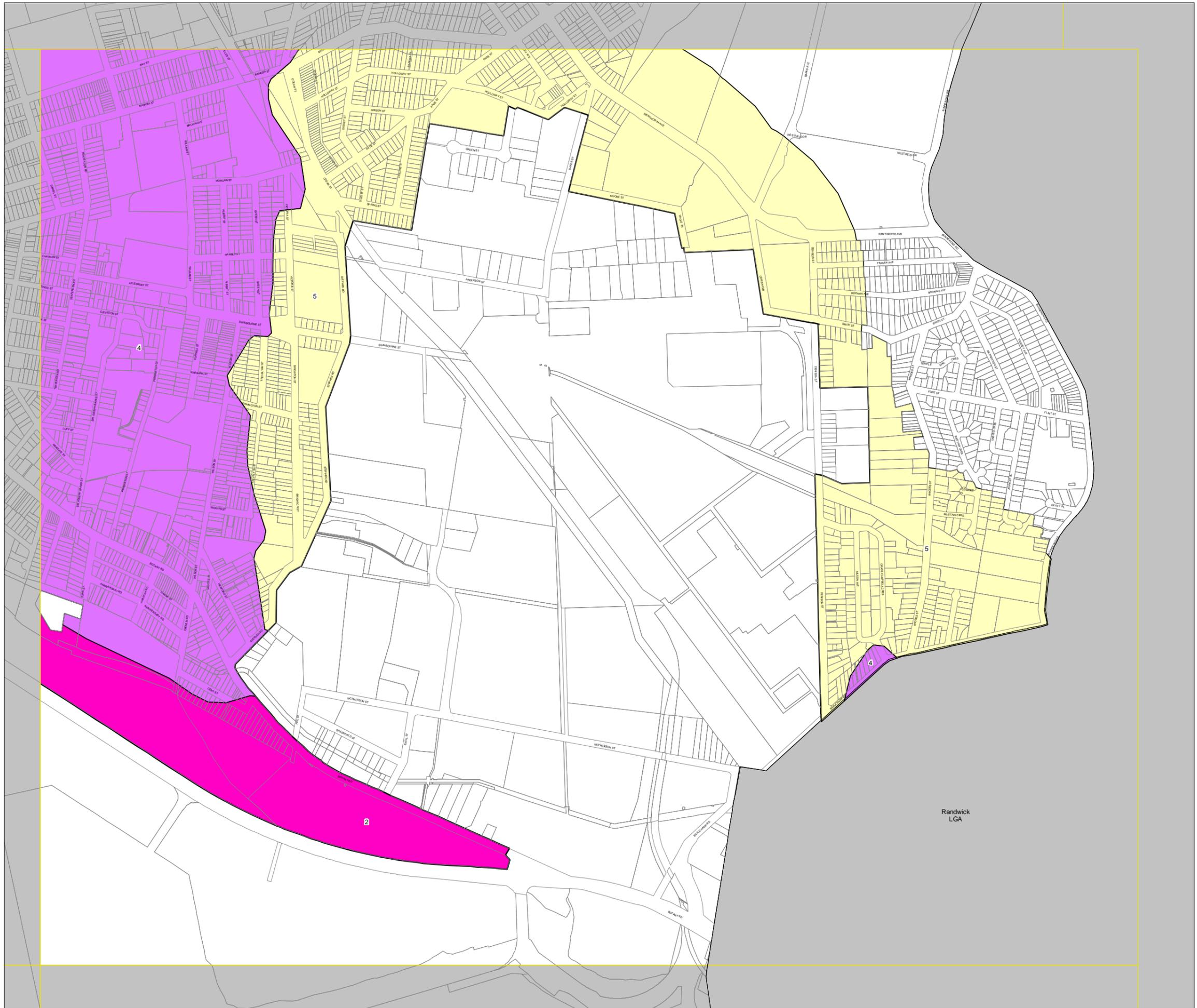
Acid Sulfate Soils Map - Sheet ASS_005

Acid Sulfate Soils

-  Class 1
-  Class 2
-  Class 4
-  Class 5

Cadastre

-  Base data 5/1/2012 © Land and Property Information (LPI)



0 200 400 m

Scale 1:10,000 @ A3

Projection GDA 1994
Zone 56

Map identification number:
1100_COM_ASS_005_010_20130224



Botany Bay Local Environmental Plan 2013

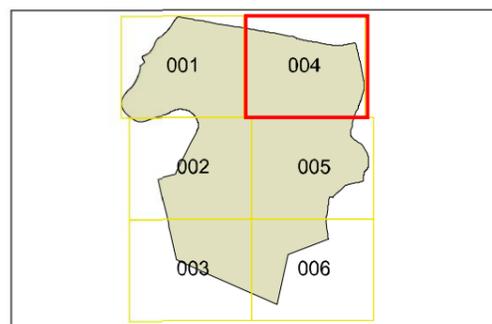
Acid Sulfate Soils Map - Sheet ASS_004

Acid Sulfate Soils

- Class 1
- Class 2
- Class 4
- Class 5

Cadastre

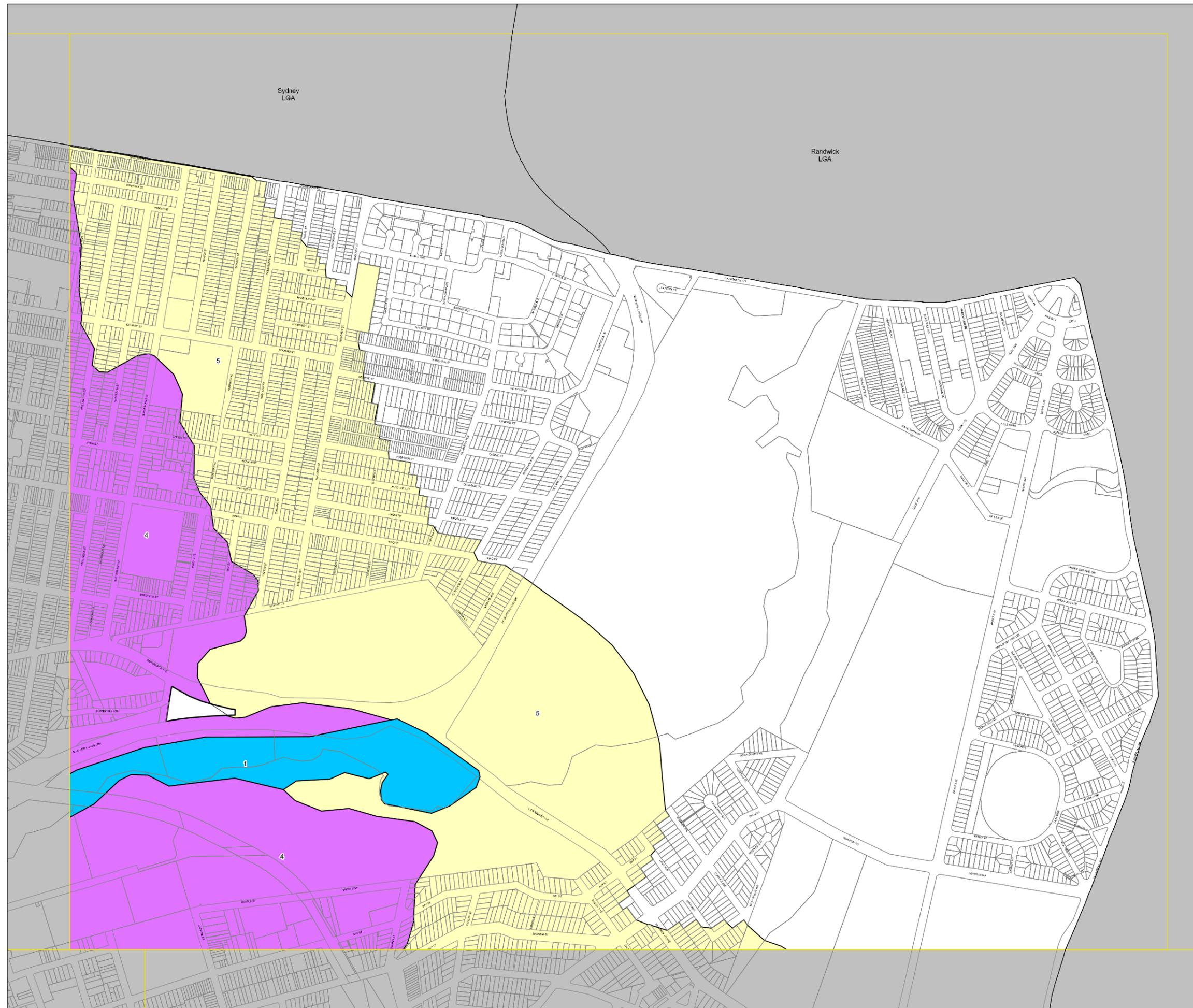
- Base data 5/11/2012 © Land and Property Information (LPI)



Scale 1:10,000 @ A3

Projection GDA 1994
Zone 56

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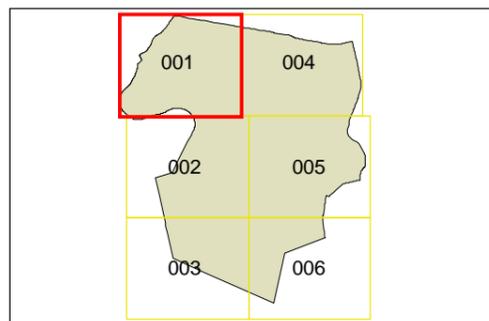
Acid Sulfate Soils Map - Sheet ASS_001

Acid Sulfate Soils

- Class 1
- Class 2
- Class 4
- Class 5

Cadastre

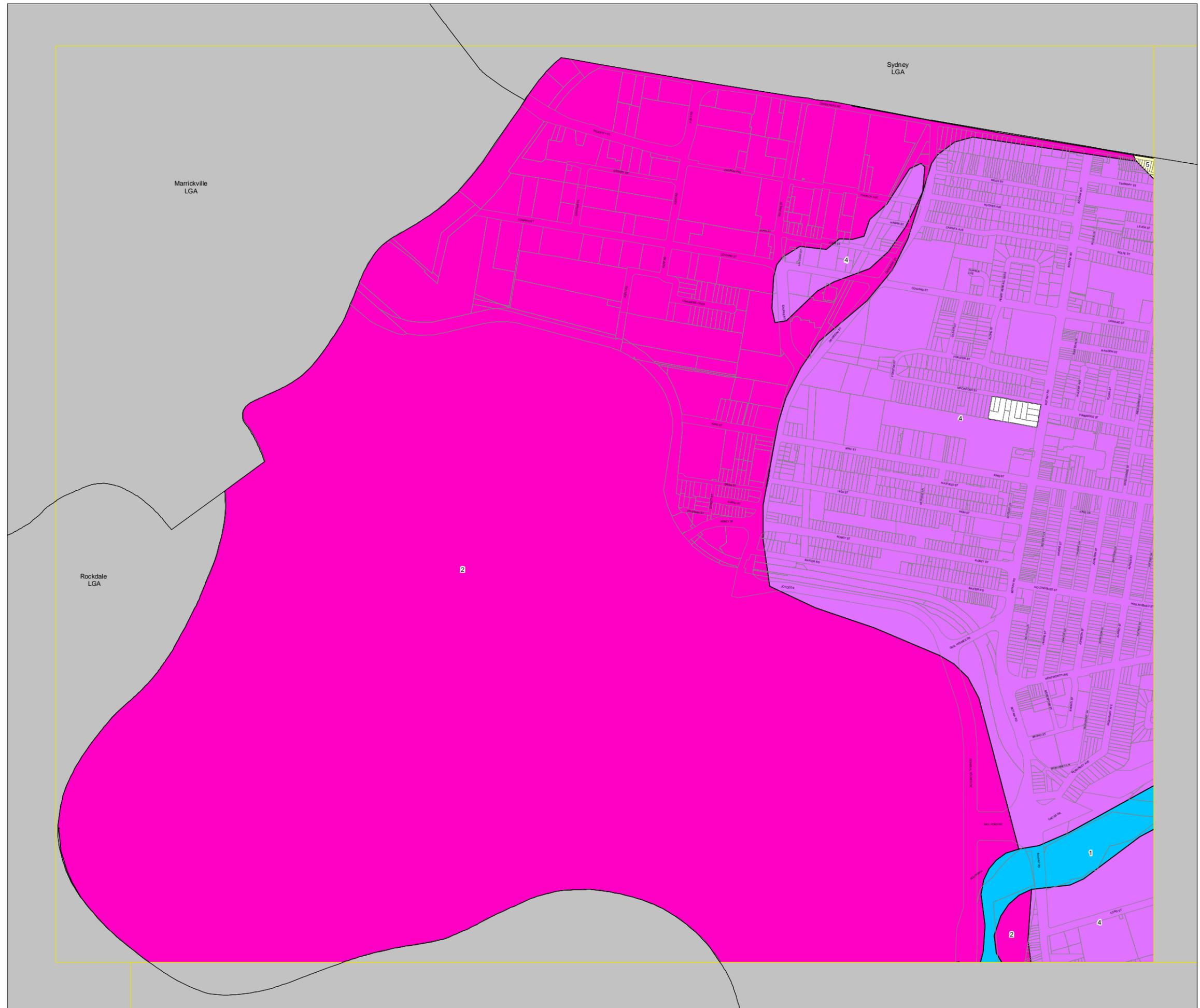
- Base data 5/11/2012 © Land and Property Information (LPI)



Scale 1:10,000 @ A3

Projection GDA 1994
Zone 56

Map identification number:
1100_COM_ASS_001_010_20130224





Appendix C Photographs





PHOTOGRAPHIC LOG

Client Name
ARTC
PS109315

Site Location
Botany Freight Rail Line, Botany NSW.

Project
Botany Rail Duplication EIS

Photo No.	Date	
1	06.07.2018	
Description View of Page/Stephen St Bridge facing south. Chainage 9.610 km.		

Photo No.	Date	
2	06.07.2018	
Description Rail sleeper storage area. Chainage 9.700 km (approximate).		



PHOTOGRAPHIC LOG

Client Name
ARTC
PS109315

Site Location
Botany Freight Rail Line, Botany NSW.

Project
Botany Rail Duplication EIS

Photo No.	Date	
3	06.07.2018	
Description Rail ballast stockpiles with organics and general debris throughout. Chainage 9.800 km (approximate).		

Photo No.	Date	
4	06.07.2018	
Description Multiple waste drums present, labels indicate they contain a limestone based firecaulk sealant. Chainage 9.850 km (approximate).		



PHOTOGRAPHIC LOG

Client Name
ARTC
PS109315

Site Location
Botany Freight Rail Line, Botany NSW.

Project
Botany Rail Duplication EIS

Photo No.	Date	
5	06.07.2018	
Description Rail ballast and mixed vegetation stockpiles. Chainage 9.900 km (approximate).		

Photo No.	Date	
6	06.07.2018	
Description Asbestos Containing Material warning signage noted under the Banksia St Pedestrian Level Crossing. Chainage 10.000 km (approximate).		



PHOTOGRAPHIC LOG

Client Name
ARTC
PS109315

Site Location
Botany Freight Rail Line, Botany NSW.

Project
Botany Rail Duplication EIS

Photo No.	Date	
7	06.07.2018	
Description Roadway alongside the rail tracks elevated from natural slope of land/surrounds by approximately 1 m, indicating the presence of fill material. Chainage 10.100 km (approximate).		

Photo No.	Date	
8	06.07.2018	
Description Elevated roadways continues opposite the Eastlake Golf Course. Chainage 10.200 km (approximate).		



PHOTOGRAPHIC LOG

Client Name
ARTC
PS109315

Site Location
Botany Freight Rail Line, Botany NSW.

Project
Botany Rail Duplication EIS

Photo No.	Date	
9	06.07.2018	
Description		
Exposed geofabric layer observed in multiple areas along the roadway surface. Strong indicator of the presence of fill material in the elevated roadway.		

Photo No.	Date	
10	06.07.2018	
Description		
Overgrown vegetation observed surrounding the roadway, particularly in the vicinity of the Mill Stream Bridge.		
Unauthorised to proceed beyond this point due to narrow bridge.		
Chainage 10.900 km (approximate).		