

Appendix D
Consultants Figures



LEGEND

- ▼ Former structure remnants (footings)
- Sample from close to former structure remnants
- ★ Recent fly tipping
- ★ Remnant stockpile
- Stockpile test pit location
- Surface sample location
- 14-19 Area of Environmental Concern (AEC).
Approximate envelopes of former
structures (primarily houses and sheds)
- refer to historical aerial photographs.
- 20 AEC- Approximate area of former market garden.



Douglas Partners
Geotechnics . Environment . Groundwater

Sydney, Newcastle, Brisbane,
Melbourne, Perth, Darwin,
Wyong, Campbelltown, Canberra
Townsville, Cairns, Wollongong

TITLE: **FIELDWORK LOCATIONS - SOUTHERN SECTION
ROOTY HILL ROAD SOUTH
DOONSIDE**

CLIENT: Western Sydney Parklands Trust

DRAWN BY: ALT

SCALE: 1:2500

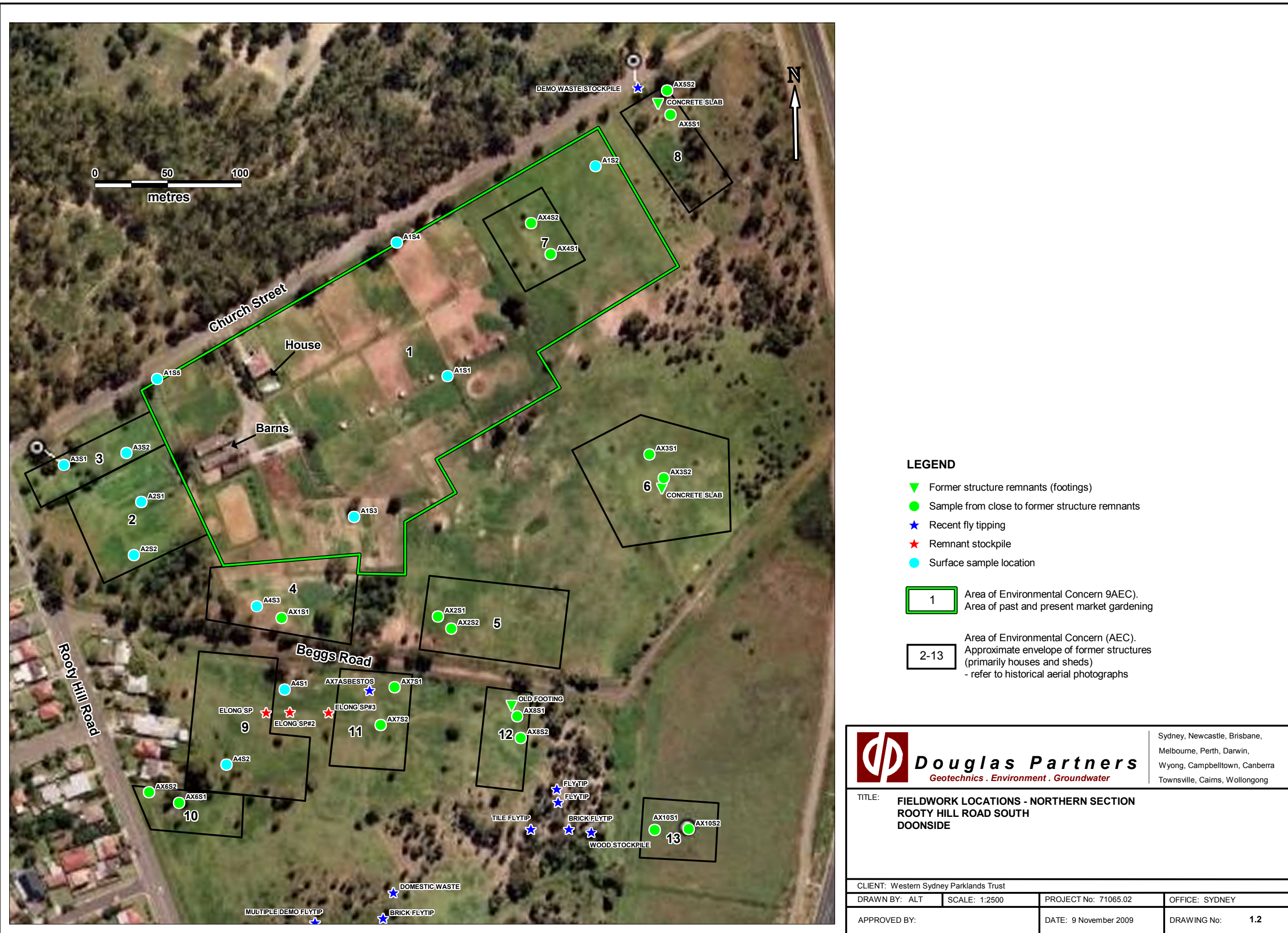
PROJECT No: 71065.02

OFFICE: SYDNEY

APPROVED BY:

DATE: 9 November 2009

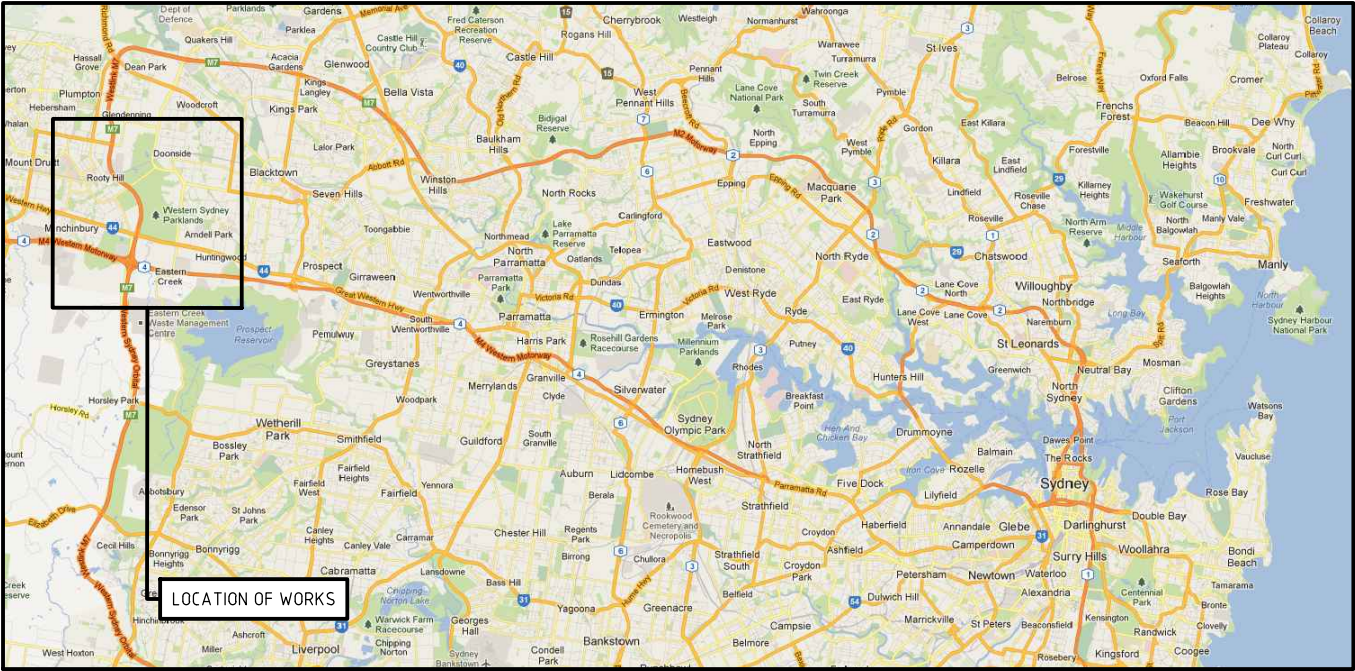
DRAWING No: **1.1**



ECBH ENVIRONMENTAL SITE ASSESSMENT



LOCATION OF WORKS
SCALE 1:10,000 (A3)



LOCALITY MAP
NOT TO SCALE

DRAWING NUMBER	DRAWING TITLE	REVISION
S12388.01-DWG-001	SITE LOCATION	A
S12388.01-DWG-002	SITE LAYOUT AND SAMPLING LOCATIONS	A
S12388.01-DWG-003	PROPOSED LAND DIVISION USE	A
S12388.01-DWG-004	SUPERLOT 1 - SAMPLE LOCATION PLAN	A
S12388.01-DWG-005	SUPERLOT 2, AREA A & AREA C - SAMPLE LOCATION PLAN	A
S12388.01-DWG-006	AREA X - SAMPLE LOCATION PLAN	A
S12388.01-DWG-007	AREA Y - SAMPLE LOCATION PLAN	A
S12388.01-DWG-008	GROUNDWATER ELEVATION PLAN	A

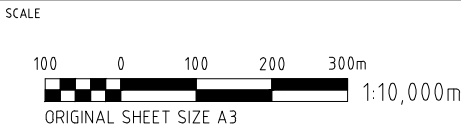
CAD FILE: G:\CAD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-001.dwg

REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
A	MSM	21/11/12	DRAFT	APP

DESIGNED	CHECKED	DATE
DRAWN	MSM	21/11/12
APPROVED	MN	DATE

DATE PLOTTED: 07 December, 2012 - 2:47pm



PROJECT	S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT
TITLE	FIGURE 1 SITE LOCATION
STATUS	DRAFT
DRG No.	S12388.01-DWG-001
REV.	A



LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
	PROPOSED BUILDING DEVELOPMENT LAYOUT
1	SUPERLOT
P	AREA
	BORE HOLE LOCATION
	TEST PIT LOCATION
	STOCKPILE LOCATION

CAD FILE: G:\CADD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-002.dwg

REVISIONS

No.	BY	DATE	DESCRIPTION
A	MSM	21/11/12	DRAFT

DESIGNED			
DRAWN			
APPROVED			
DATE PLOTTED: 07 December, 2012 - 2:47pm			

SCALE	
ORIGINAL SHEET SIZE A3	

--	--

cdmsmith.com	

PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE FIGURE 2 SITE LAYOUT & SAMPLING LOCATIONS		
STATUS DRAFT	DRG No. S12388.01-DWG-002	REV. A

CAD FILE: G:\CADD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-003.dwg

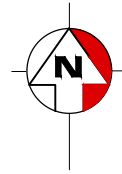
REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
A	MSM	21/11/12	DRAFT	APP

DESIGNED				CHECKED			
DRAWN				MSM	CHECKED	CG	
APPROVED				MN	DATE	21/11/12	
DATE PLOTTED: 07 December, 2012 - 2:47pm							



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE		
FIGURE 3 PROPOSED LAND DIVISION USE		
STATUS DRAFT		REV. A
DRG No. S12388.01-DWG-003		



LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
	PROPOSED BUILDING DEVELOPMENT LAYOUT

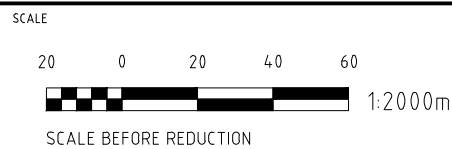
CAD FILE: G:\CADD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-004.dwg

REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
A	MSM	21/11/12	DRAFT	

DESIGNED				CHECKED			
DRAWN				MSM	CHECKED	CD	
APPROVED				MN	DATE	21/11/12	
DATE PLOTTED: 07 December, 2012 - 2:47pm							

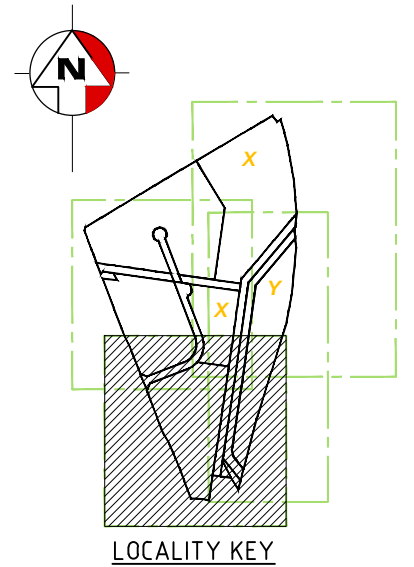
This drawing is confidential and shall only be used for the purposes of this project.



A3



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE FIGURE 4 SUPERLOT 1 - SAMPLE LOCATION PLAN		
STATUS DRAFT	DRG No. S12388.01-DWG-004	REV. A



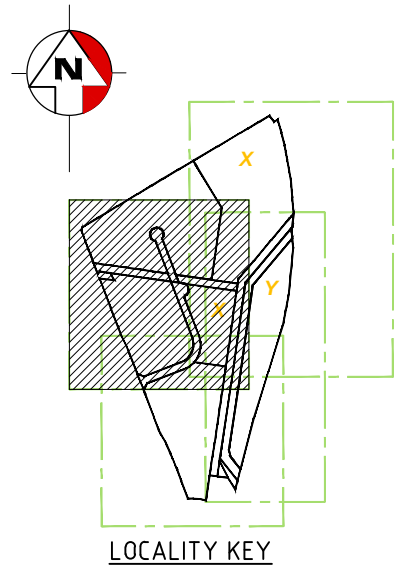
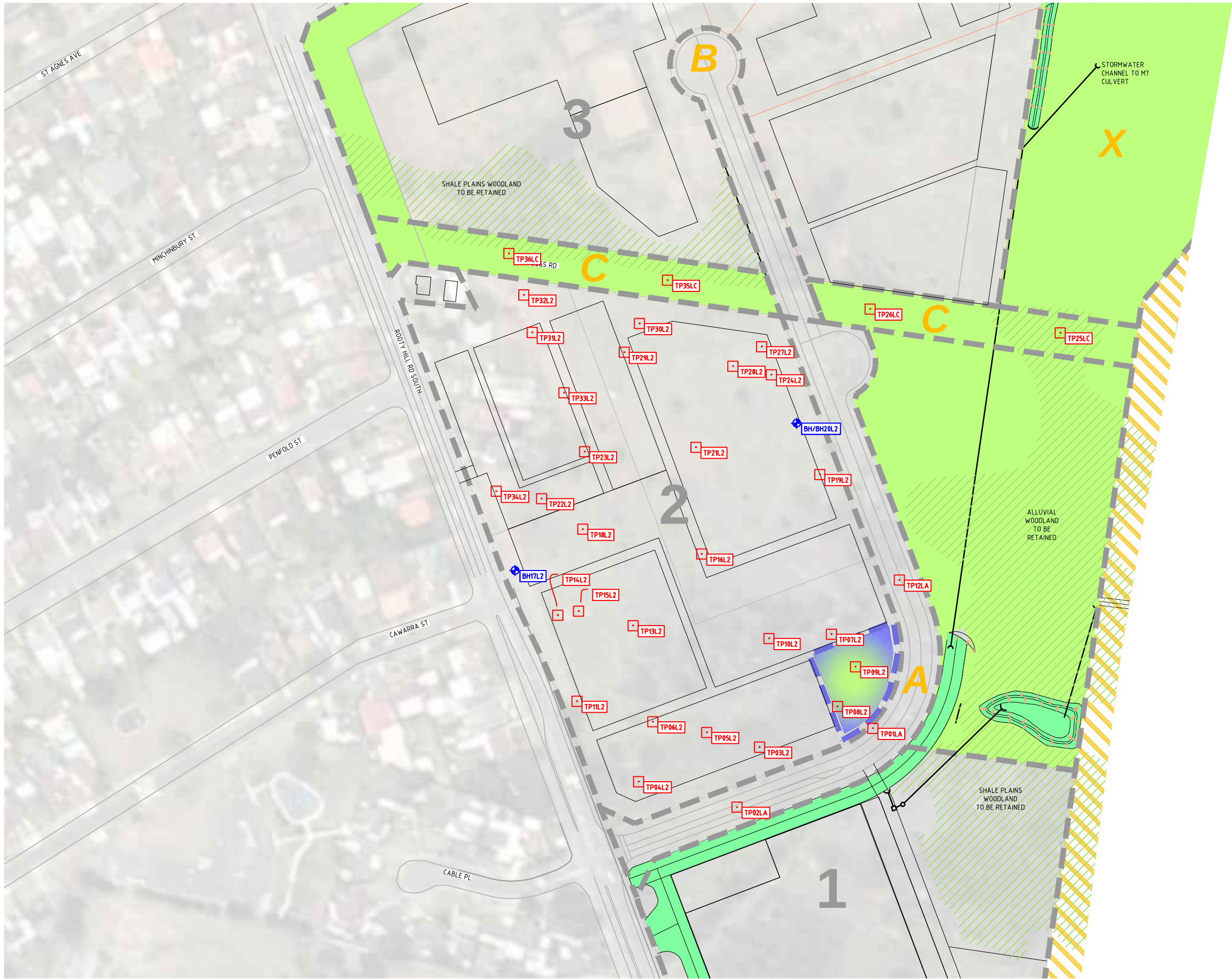
LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
	SUPERLOT
	AREA
	BORE HOLE LOCATION
	TEST PIT LOCATION
	STOCKPILE LOCATION

CAD FILE G:\CADD\STONEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-005.dwg

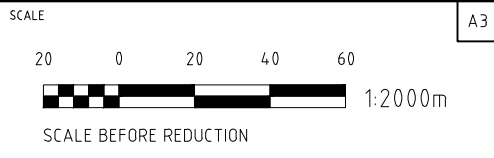
REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
A	MSM	21/11/12	DRAFT	APP

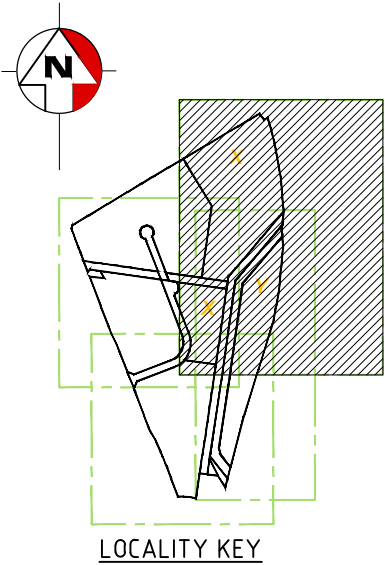
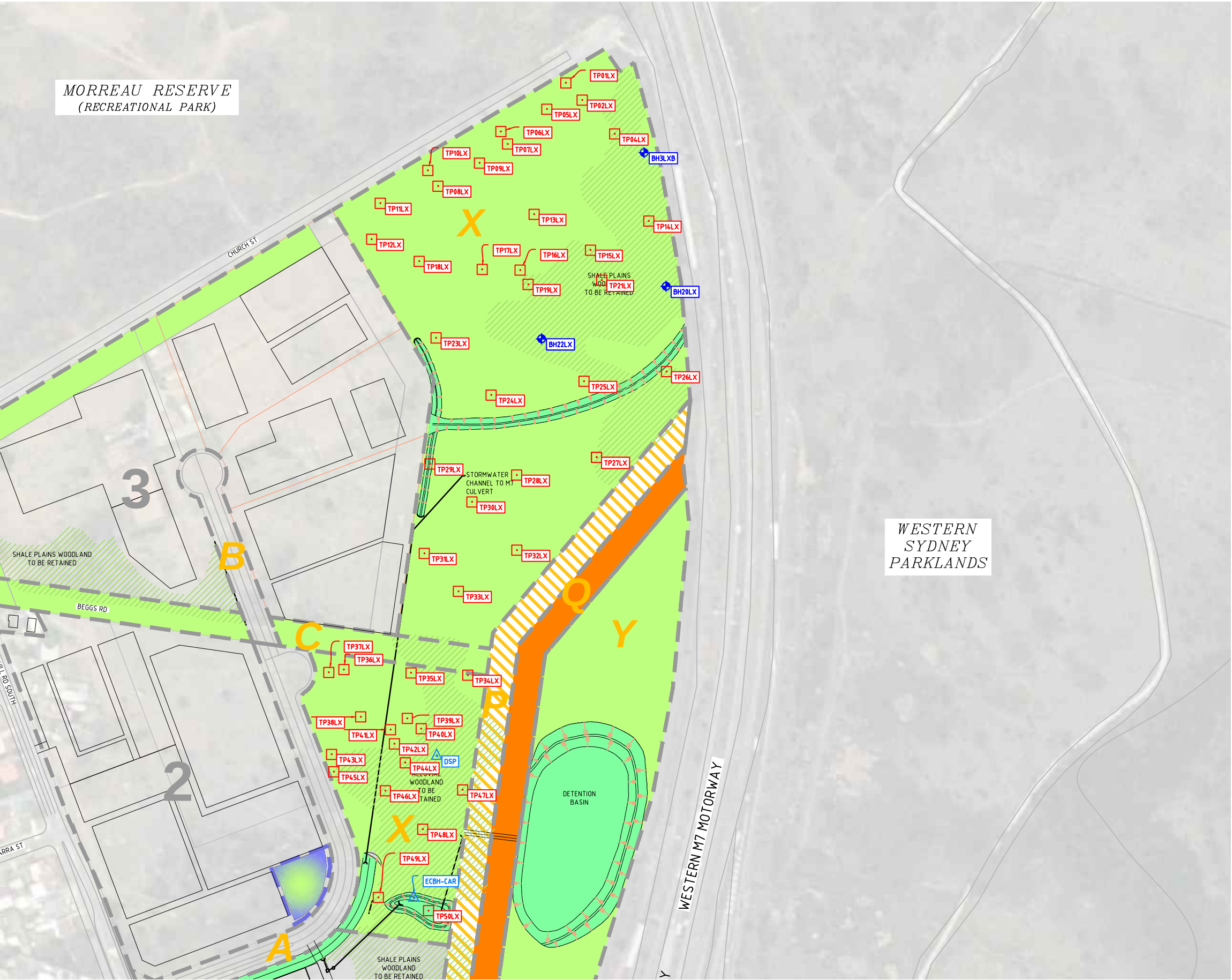
©COPYRIGHT COM Smith This drawing is confidential and shall only be used for the purposes of this project.			
DESIGNED		CHECKED	
DRAWN	MSM	CHECKED	CG
APPROVED	MN	DATE	21/11/12
DATE PLOTTED: 07 December, 2012 - 2:47pm			



LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
1	SUPERLOT
P	AREA
	BORE HOLE LOCATION
	TEST PIT LOCATION
	STOCKPILE LOCATION



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE FIGURE 5 SUPERLOT 2, AREA A & AREA C SAMPLE LOCATION PLAN		
STATUS DRAFT	DRG No. S12388.01-DWG-005	REV. A



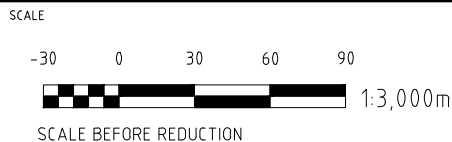
LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
1	SUPERLOT
P	AREA
	BORE HOLE LOCATION
	TEST PIT LOCATION
	STOCKPILE LOCATION

CAD FILE: G:\CADD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-006.dwg

REVISIONS

No.	BY	DATE	DESCRIPTION
A	MSM	21/11/12	DRAFT

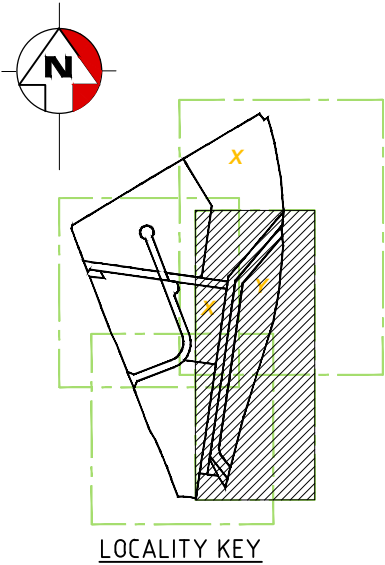
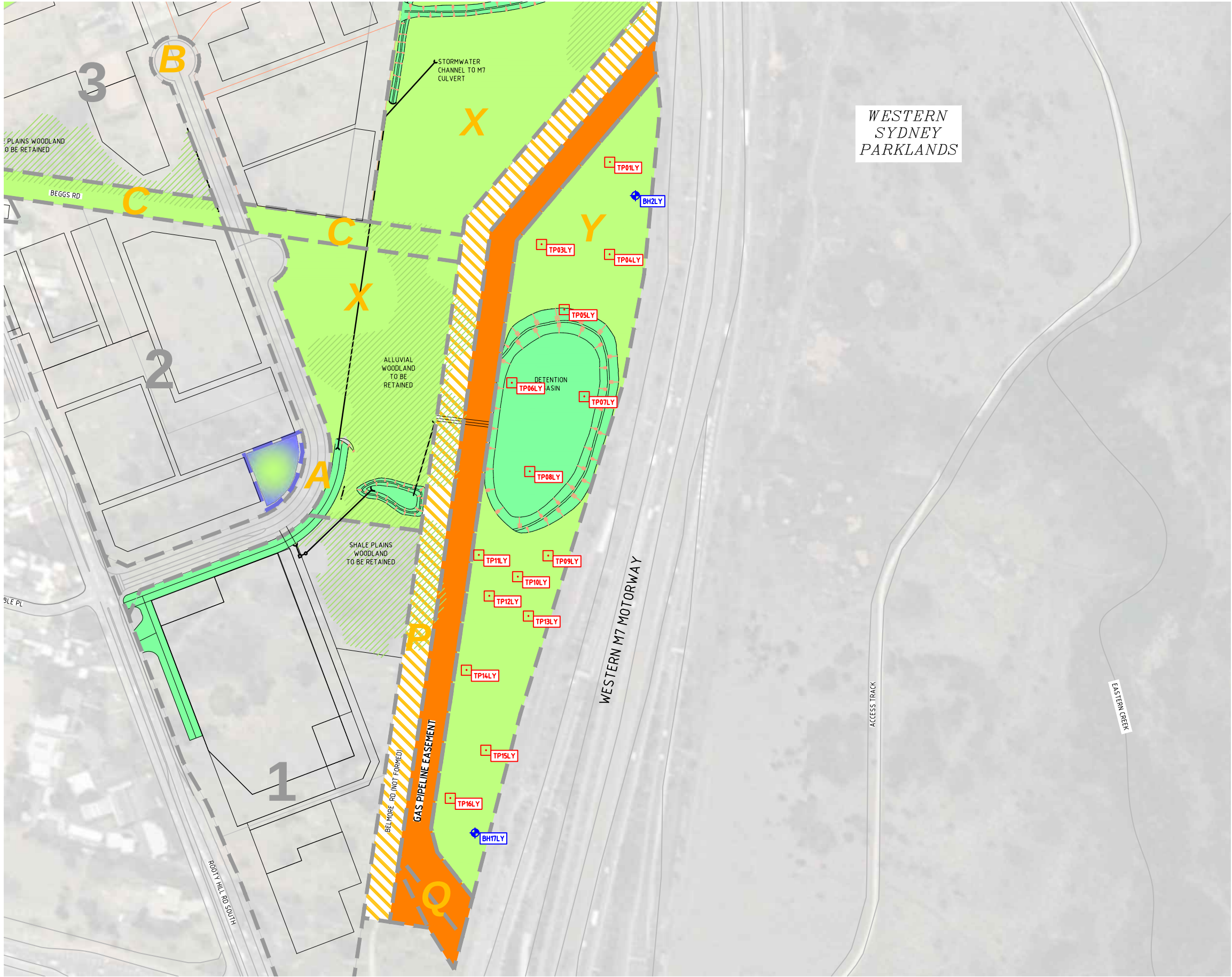
DESIGNED			
DRAWN			
APPROVED			
DATE PLOTTED: 07 December, 2012 - 2:47pm			



A3



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE FIGURE 6 AREA X SAMPLE LOCATION PLAN		
STATUS DRAFT	DRG No. S12388.01-DWG-006	REV. A



LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
1	SUPERLOT
P	AREA
	BORE HOLE LOCATION
	TEST PIT LOCATION
	STOCKPILE LOCATION

CAD FILE: G:\CAD\SYDNEY\Project\12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\12388.01-DWG-007.dwg

REVISIONS					
No.	BY	DATE	DESCRIPTION	APPD	
A	MSM	21/11/12	DRAFT	APP	

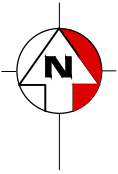
©COPYRIGHT CDM Smith This drawing is confidential and shall only be used for the purposes of this project.					
DESIGNED		CHECKED			
DRAWN	MSM	CHECKED	CG		
APPROVED	MN	DATE	21/11/12		
DATE PLOTTED: 07 December, 2012 - 2:48pm					

SCALE		A3
SCALE BEFORE REDUCTION		

--	--



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE FIGURE 7 AREA Y SAMPLE LOCATION PLAN		
STATUS DRAFT	DRG No. S12388.01-DWG-007	REV. A



LEGEND	
	SUPERLOT/ AREA BOUNDARY
	BORE HOLE LOCATION
	GROUNDWATER CONTOUR LINE (0.5m INTERVAL) (ELEVATION mAHD)
	GROUNDWATER FLOW DIRECTION ARROW

CAD FILE G:\CADD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-008.dwg

REVISIONS

No.	BY	DATE	DESCRIPTION
A	MSM	21/11/12	DRAFT

DESIGNED			
DRAWN MSM			
APPROVED MN			
DATE 21/11/12			
DATE PLOTTED: 07 December, 2012 - 2:48pm			

SCALE

50

0

50

100

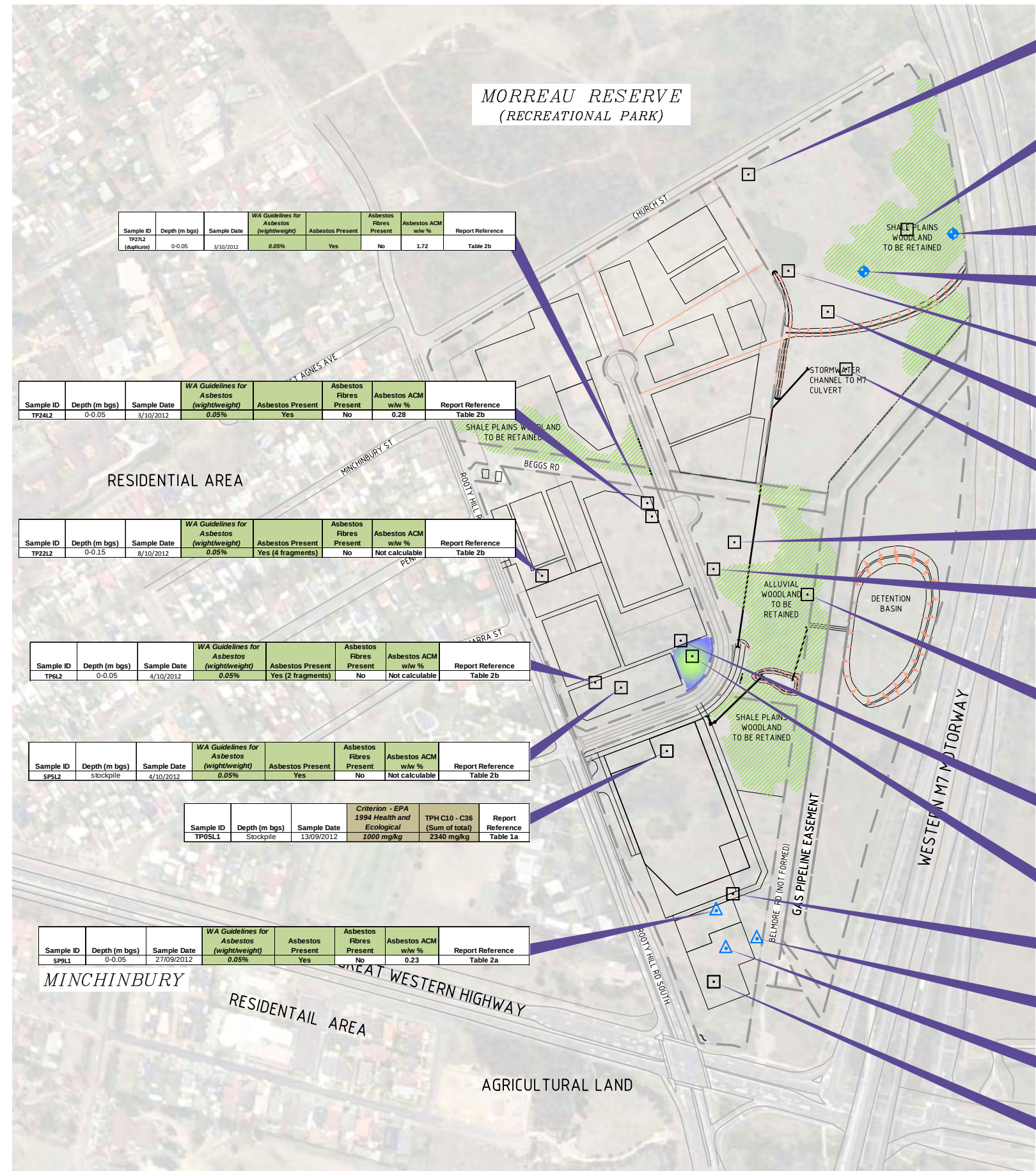
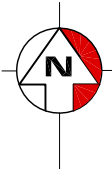
150m

1:5,000m

ORIGINAL SHEET SIZE A3



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE		
FIGURE 8 GROUNDWATER CONTOUR PLAN		
STATUS DRAFT		REV. A
DRG No. S12388.01-DWG-008		



Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP21L2 (duplicate)	0-0.05	3/10/2012	0.05%	Yes	No	1.72	Table 2b

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP24L2	0-0.05	3/10/2012	0.05%	Yes	No	0.28	Table 2b

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP22L2	0-0.15	8/10/2012	0.05%	Yes (4 fragments)	No	Not calculable	Table 2b

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP6L2	0-0.05	4/10/2012	0.05%	Yes (2 fragments)	No	Not calculable	Table 2b

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
SP5L2	stockpile	4/10/2012	0.05%	Yes	No	Not calculable	Table 2b

Sample ID	Depth (m bgs)	Sample Date	Criterion - EPA 1994 Health and Ecological	TPH C10 - C36 (Sum of total)	Report Reference
TP05L1	Stockpile	13/09/2012	1000 mg/kg	2340 mg/kg	Table 1a

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
SP9L1	0-0.05	27/09/2012	0.05%	Yes	No	0.23	Table 2a

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP11X	0-0.05	21/09/2012	0.05%	Yes	No	Not calculable	Table 2d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
TP21X	0-0.05	24/09/2012	3000 mg/kg	3800 mg/kg	Table 1d

Sample ID	Depth (m bgs)	Sample Date	Asbestos Present	WA Guidelines for ACM (wightweight)	Asbestos ACM w/w %	Asbestos Fibres Present	WA Guidelines for Asbestos Fibres(wightweight)	AF-w/w Analysis (%)	Report Reference
TP21X	0-0.05	24/09/2012	Yes	0.05%	Not calculable	YES	0.001%	0.0001	Table 2d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
BH20X	1.5-1.6	20/09/2012	3000 mg/kg	3100 mg/kg	Table 1d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
BH22X	0-0.05	19/09/2012	3000 mg/kg	3900 mg/kg	Table 1d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
TP23X	0-0.05	21/09/2012	3000 mg/kg	3200 mg/kg	Table 1d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
TP24X	0.1-0.15	21/09/2012	3000 mg/kg	3400 mg/kg	Table 1d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
TP28X	0.1-0.15	24/09/2012	3000 mg/kg	3900 mg/kg	Table 1d

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP38X	0-0.05	11/09/2012	0.05%	Yes (2 fragments)	No	Not calculable	Table 2d

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP43X	0-0.05	11/09/2012	0.05%	Yes	No	Not calculable	Table 2d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Copper	Criterion NEPM 1999 HIL E ²	Lead	Report Reference
TP47X	0.1-0.15	13/09/2012	2000 mg/kg	11000 mg/kg	600 mg/kg	1100 mg/kg	Table 1d
	0.3-0.4			1400 mg/kg		770 mg/kg	

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP47X	0-0.05	11/09/2012	0.05%	Yes	No	3.75	Table 2d

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
TP7L2	0-0.05	4/10/2012	3000 mg/kg	3300 mg/kg	Table 1b

Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Manganese	Report Reference
TP9L2	0-0.05	4/10/2012	3000 mg/kg	3700 mg/kg	Table 1b

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
TP16L1	0-0.05	26/09/2012	0.05%	Yes	No	Not calculable	Table 2a

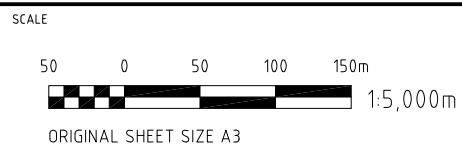
Sample ID	Depth (m bgs)	Sample Date	Criterion NEPM 1999 HIL E ²	Lead	Report Reference
SP6L1	0-0.05	27/09/2012	3000 mg/kg	610 mg/kg	Table 1a

Sample ID	Depth (m bgs)	Sample Date	WA Guidelines for Asbestos (wightweight)	Asbestos Present	Asbestos Fibres Present	Asbestos ACM w/w %	Report Reference
SP6L1	0-0.05	27/09/2012	0.05%	Yes	No	4.84	Table 2a

Sample ID	Depth (m bgs)	Sample Date	Criterion - EPA 1994 Health and Ecological	TPH C10 - C36 (Sum of total)	Report Reference
TP27L1B	0.1-0.15	27/09/2012	1000 mg/kg	2560 mg/kg	Table 1a

CAD FILE: G:\CAD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust Production Drawings\S12388.01-DWG-009.dwg

REVISIONS							©COPYRIGHT CDM Smith This drawing is confidential and shall only be used for the purposes of this project.			
							DESIGNED		CHECKED	
							DRAWN	MSM	CHECKED	CG
							APPROVED	MN	DATE	21/11/12
	A	MSM	21/11/12	DRAFT			APP			
	No.	BY	DATE	DESCRIPTION			APPD	DATE PLOTTED: 21 January, 2013 - 11:16am		



PROJECT			S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT									
TITLE			FIGURE 9 SOIL CRITERIA EXCEEDANCES									
STATUS			DRAFT					DRG No.		S12388.01-DWG-009		
								REV.		A		

CAD FILE: G:\ADDS\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-010.dwg

REVISIONS

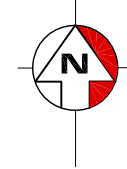
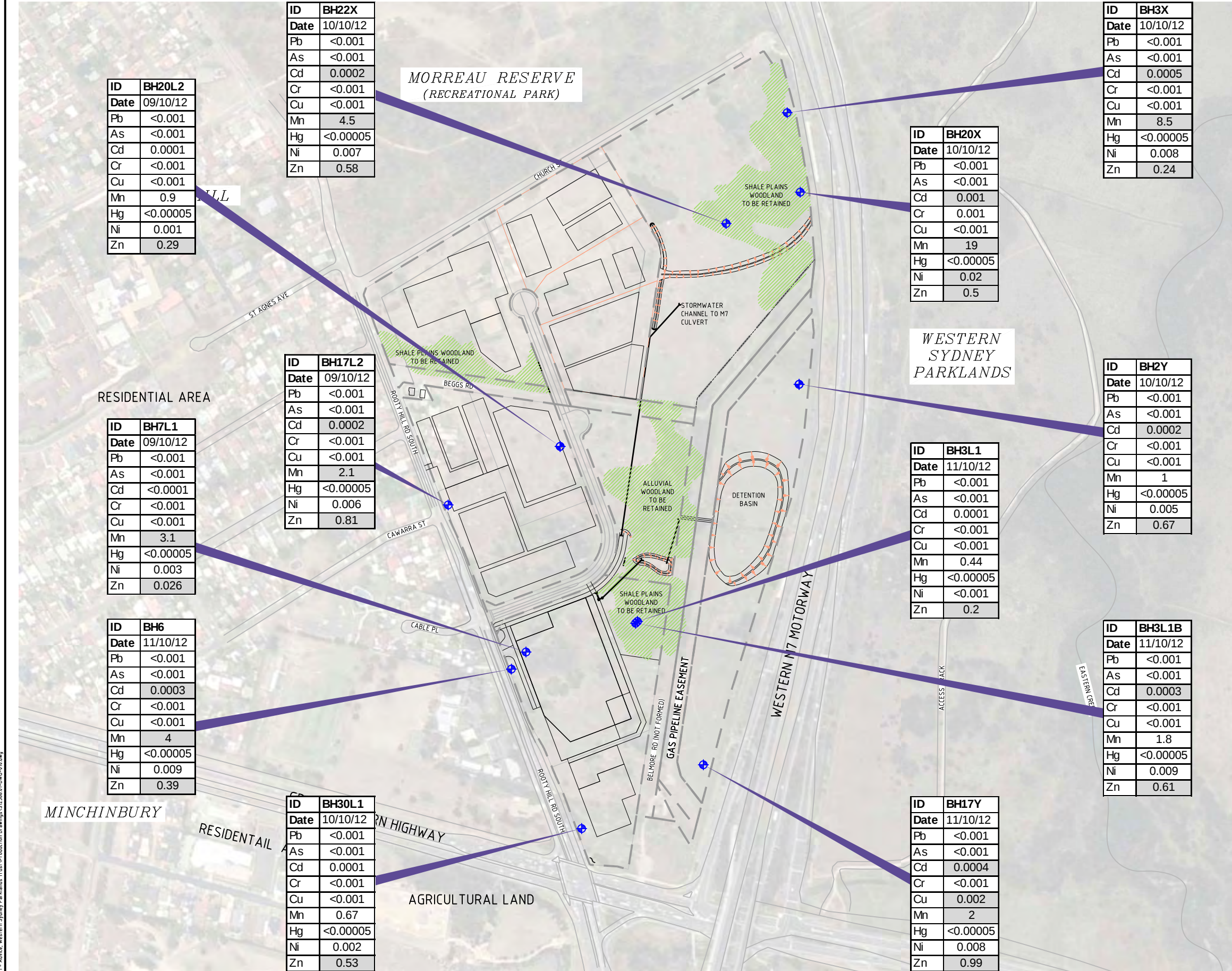
No.	BY	DATE	DESCRIPTION
A	MSM	21/11/12	DRAFT

DESIGNED			
DRAWN			
APPROVED			
DATE PLOTTED: 07 December, 2012 - 2:56pm			

SCALE	
50 0 50 100 150m	
ORIGINAL SHEET SIZE A3	



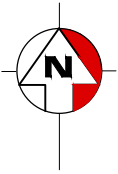
PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE		
FIGURE 10		
GROUNDWATER CRITERIA EXCEEDENCES		
STATUS DRAFT		REV. A



NOTES

- ALL CONCENTRATIONS ARE IN MG/L.
- CRITERIA USED ARE FROM ANZECC & ARMCAZ (2000) 95% LEVEL OF PROTECTION FOR FRESHWATER ECOSYSTEMS. GREY SHADING INDICATES SAMPLE CONCENTRATION EXCEEDENCE OF THE RELEVANT CRITERION.
- ALL SAMPLES WERE FILTERED PRIOR TO ANALYSIS.

Analyte	Criteria
Pb	0.0034
As	
Cd	0.0002
Cr	
Cu	0.0014
Mn	1.9
Hg	0.0006
Ni	0.011
Zn	0.008



LEGEND	
	SUPERLOT / AREA BOUNDARY
	POTENTIAL LOCATION FOR ACTIVITY PLAYGROUND
	GAS PIPELINE EASEMENT
	BUFFER TO GAS PIPELINE
	OPEN SPACE / CUMBERLAND PLAIN WOODLAND
	PROPOSED STORMWATER CONTROL AREA
	PROPOSED BUILDING DEVELOPMENT LAYOUT
1	SUPERLOT
P	AREA
	BORE HOLE LOCATION
	TEST PIT LOCATION
	STOCKPILE LOCATION
	IDENTIFIED FILL WITH WASTE CONTENT LOCATION
	IDENTIFIED ASBESTOS MATERIAL LOCATION

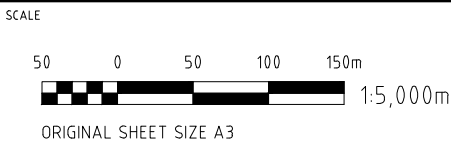
CAD FILE: G:\CADD\SYDNEY\Projects\S12388.01 - Advice, Western Sydney Parklands Trust\Production Drawings\S12388.01-DWG-011.dwg

REVISIONS

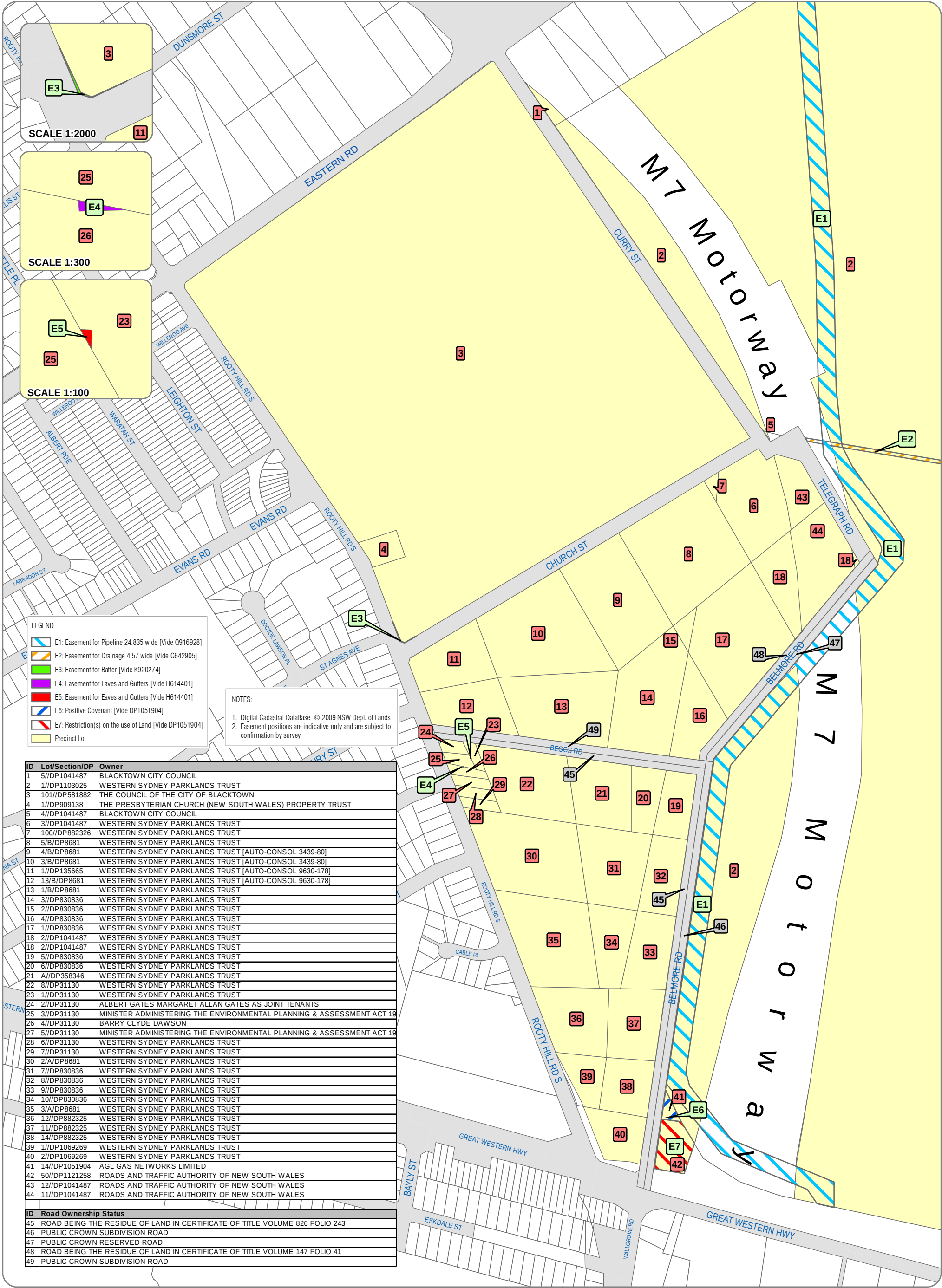
No.	BY	DATE	DESCRIPTION	APPD
A	MSM	10/12/12	DRAFT	APP

©COPYRIGHT CDM Smith
 This drawing is confidential and shall only be used for the purposes of this project.

DESIGNED		CHECKED	
DRAWN	MSM	CHECKED	CG
APPROVED	MN	DATE	10/12/12
DATE PLOTTED: 10 December, 2012 - 4:56pm			



PROJECT S12388.01 - ECBH ENVIRONMENTAL SITE ASSESSMENT		
TITLE FIGURE 11 ASBESTOS AND WASTE LOCATION LOCATIONS		
STATUS DRAFT	DRG No. S12388.01-DWG-011	REV. A



P:\F719\Mapping\Acad-Gis\F719-G-003b.mxd, 7/05/2010 12:06:16 PM, by fnozahari

B 30-04-2010 Ownership information updated, Easements added
A 20-07-2009 Table Amended

KDS
SAS

No. Date Revision Details

INI

PREPARED FOR:



CHECKED BY/DATE: KDS/07-05-2010
APPROVED BY/DATE: DWF/07-05-2010
GIS REF: F719-G-003b.mxd
JOB REF: F719

CO-ORDS: MGA
DATUM: N/A
DATE OF PLAN: 07-05-2010



1:5,000 @ A3
0 50 100 150 200 250 300
Metres

© Whelans InSites Pty Ltd