

27 June 2018

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Level 2
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RE. CALDERWOOD VALLEY – CONCEPT PLAN AMENDMENT (MOD 4)
ASSESSMENT OF IMPACT ON ABORIGINAL CULTURAL HERITAGE

Aboriginal Heritage Assessment for Calderwood Valley – Concept Plan Amendment (Mod 4)

Kelleher Nightingale Consulting (KNC) has undertaken an appraisal of Aboriginal cultural heritage for the proposed Calderwood Valley - Concept Plan Amendment (Mod 4) against previous investigations related to the Concept Plan approval (MP09_0082) and applicable Office of Environment and Heritage (OEH) guidelines. The results of the Aboriginal heritage assessment are outlined in this report.

Summary

An appraisal of Aboriginal cultural heritage identified in the Concept Plan Amendment (Mod 4) found that impacts to Aboriginal heritage were consistent with the original Concept Plan approval (MP09_0082). The development footprint is the same for the Concept Plan (MP09_0082) and proposed Concept Plan Amendment (Mod 4) resulting in the same level of impact on Aboriginal heritage. Prior to any impact to Aboriginal objects an Aboriginal Heritage Impact Permit (AHIP) will be required from OEH.

Relevant OEH guidelines and requirements that apply to obtaining an AHIP include:

Applying for an Aboriginal Heritage Impact Permit: Guide for applicants (OEH 2011)

Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW 2010)

Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011)

The modification to the concept plan

The staged development of lands at Calderwood, NSW, known as 'Calderwood Valley' development is currently being undertaken. The Concept Plan (MP09_0082) was approved by the Minister for Planning on 8 December 2010 and granted consent for approximately 4,800 dwellings, approximately 50 hectares of mixed use land for retail, commercial and light industrial uses, open space, community facilities and the protection of ESL and internal roads.

As the development progressed it was determined that an application for the modification to the concept plan was required to supply a range of housing types and sizes to meet market demand and address housing affordability pressures in the Illawarra region. The modification application (Mod 4) seeks to increase the project yield to 6,500 dwellings and increase retail floor space in the town centre to 25,000 square metres (Figure 1). The increase of dwellings would be focused on the town centre and residential zoned land so that there is no change to the urban footprint, nor the riparian or environmental reserves.

A Secretary's Environmental Assessment Requirements (SEARs) request was lodged on 28 November 2017 and the SEARs issued on 1 February 2018. The SEARs included a requirement that the modification must provide an appraisal of Aboriginal cultural heritage against previous investigations and applicable OEH guidelines.

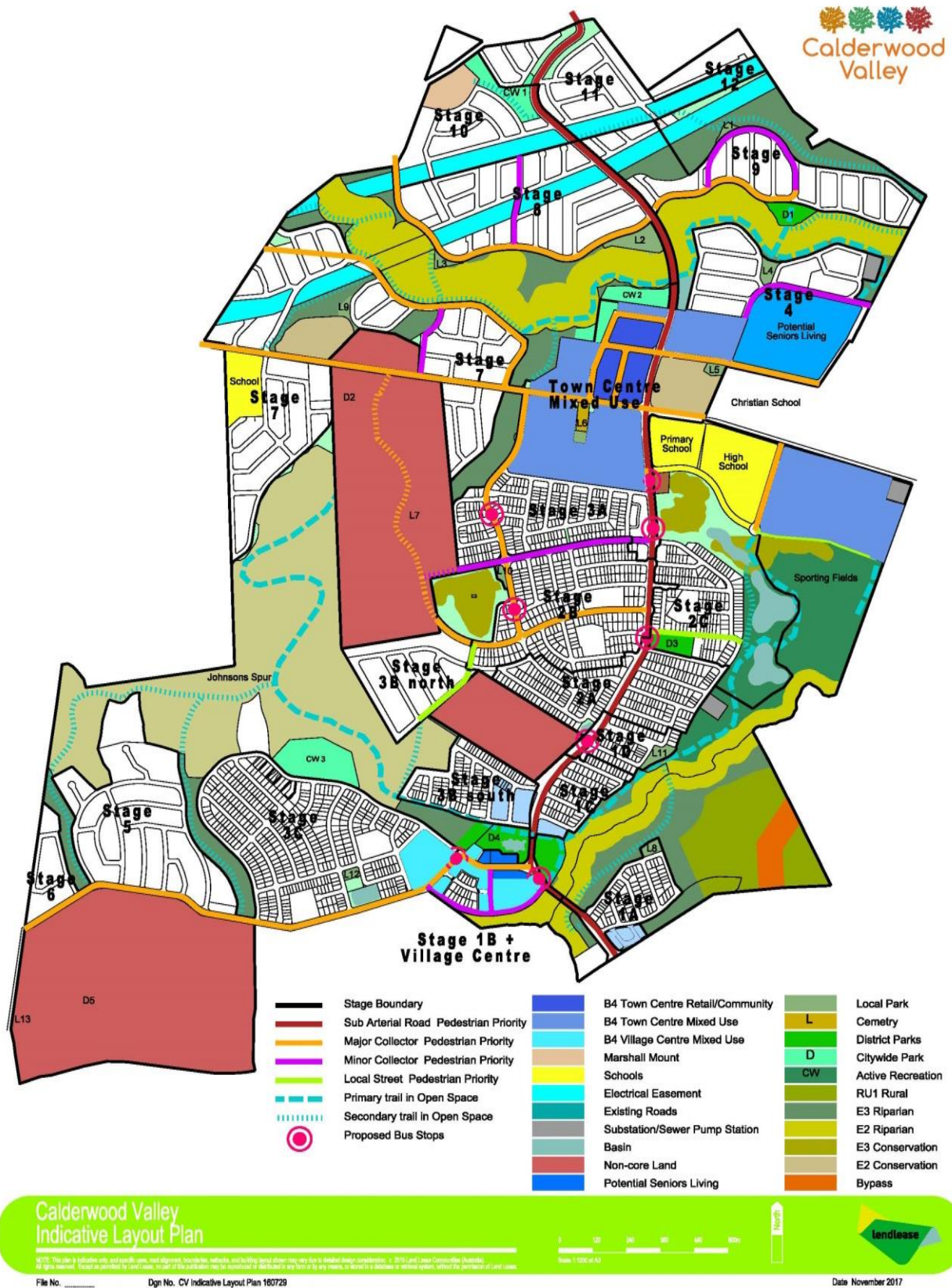


Figure 1. Calderwood Valley Indicative Layout Plan – Concept Plan Amendment (Mod 4)

Aboriginal Heritage Assessment – Concept Plan Amendment (Mod 4)

The proposed Concept Plan Amendment (Mod 4) and identified Aboriginal heritage constraints are shown on Figure 2.

The Mod 4 Concept Plan will potentially impact 39 Aboriginal archaeological sites. The sites and associated development lands will require an AHIP prior to any impact to Aboriginal objects. An AHIP can be obtained by following the OEH guide: *Applying for an Aboriginal Heritage Impact Permit: Guide for applicants* (2011).

Beyond the AHIP process, the sites are not a hindrance to the proposed development of Calderwood Valley.

Desktop Assessment

The proposed development area has been assessed within a comprehensive Aboriginal heritage report:

- Austral Archaeology Pty Ltd, 2010. Calderwood Urban Development Project. Aboriginal Archaeological and Cultural Heritage Assessment. Combined Desktop Assessment & Field Assessment Report. Report for Eco Logical Australia Pty Ltd on behalf of Delfin Lend Lease.

The study area for the Calderwood Urban Development Project report encompassed the Mod 4 Concept Plan area.

Aboriginal Community Consultation

Assessments to date have included detailed consultation with relevant Aboriginal stakeholders. As part of the process to obtain an AHIP, further consultation will be required in accordance with OEH requirements: *Aboriginal cultural heritage consultation requirements for proponents 2010*. The required level of Aboriginal community consultation is consistent for both the existing Concept Plan approval (MP09_0082) and the proposed Concept Plan Amendment (Mod 4).

Database Search (AHIMS)

A search of the OEH Aboriginal Heritage Information Management System (AHIMS) was conducted on 21 May 2018 to identify any registered Aboriginal sites within the Calderwood Valley area (Appendix A). The AHIMS database search was conducted within the following coordinates (GDA, Zone 56):

Easting: 0290900 - 0295200
Northing: 6170900 - 6175700
Number of records on AHIMS database: 55

The AHIMS search identified 39 Aboriginal archaeological sites within the boundaries of the Mod 4 Concept Plan area. The findings of the AHIMS search are consistent with the findings of the detailed Aboriginal heritage assessments.

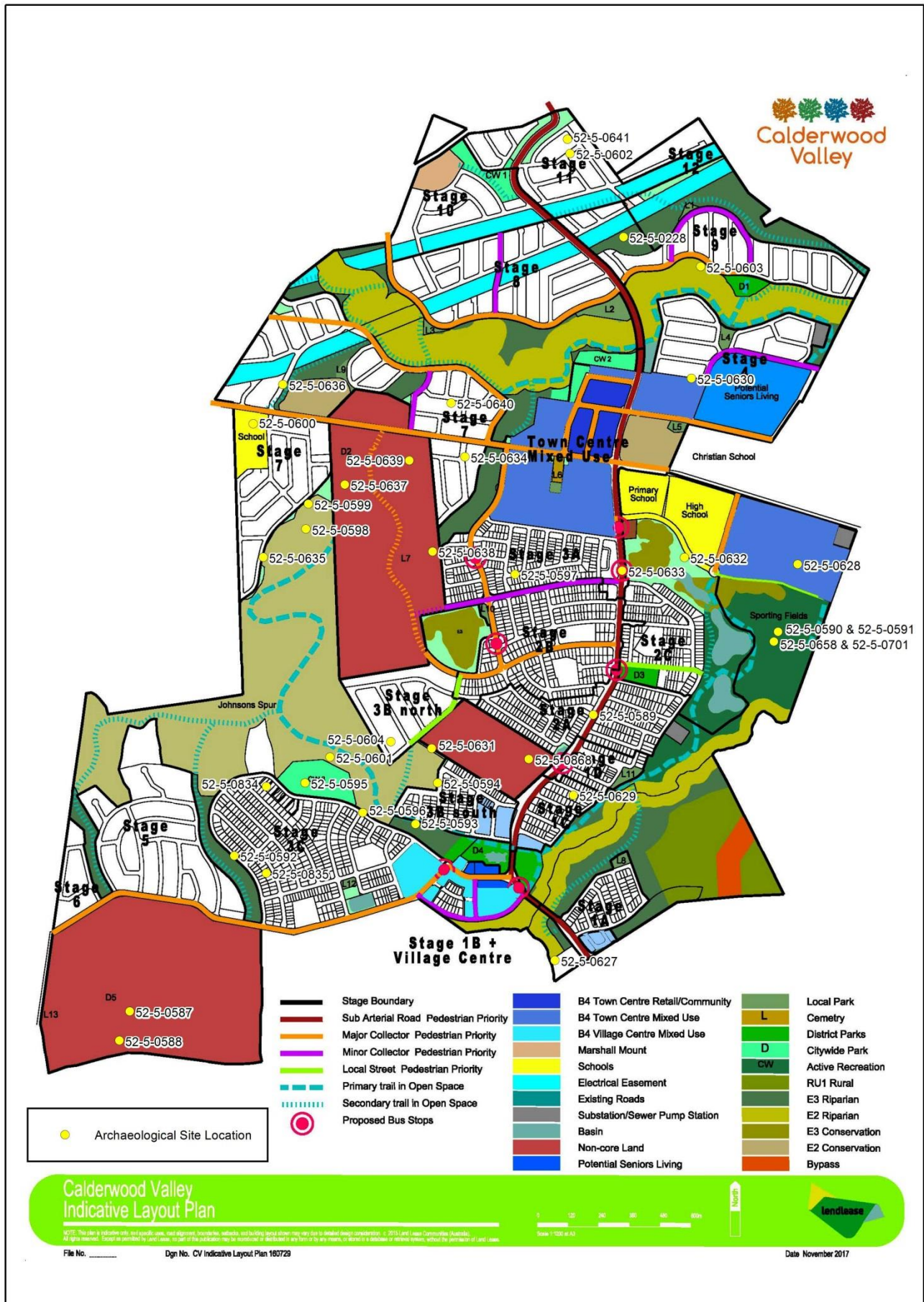


Figure 2. Concept Plan Amendment (Mod 4) with registered Aboriginal heritage sites

Impacts on Aboriginal Cultural Heritage

Aboriginal heritage desktop assessment identified 39 archaeological sites within the Mod 4 Concept Plan area which may be impacted by the proposed works. The level of impact is consistent with the Concept Plan approval (MP09_0082). Any impacted Aboriginal archaeological sites will require an AHIP under section 90 of the *National Parks and Wildlife Act 1974* prior to any impact.

Consultation with OEH

The impact on Aboriginal heritage from the proposed Concept Plan Amendment (Mod 4) was discussed with OEH (19/6/18). The consistency of the Aboriginal heritage impact between Mod 4 and the Concept Plan approval (MP09_0082) was discussed, based on the consistency of the project footprint. It was also discussed that the Mod 4 proposal would require adhering to OEH guidelines and obtaining AHIPs to enable any impacts to Aboriginal heritage objects resulting from the Calderwood development.

Conclusion and Recommendations

An appraisal of Aboriginal cultural heritage identified in the Concept Plan Amendment (Mod 4) found that impacts to Aboriginal heritage were consistent with the Concept Plan approval (MP09_0082). The development footprint is the same for the Concept Plan (MP09_0082) and proposed Concept Plan Amendment (Mod 4) resulting in the same level of impact on Aboriginal heritage. Aboriginal heritage assessment identified 39 archaeological sites within the Mod 4 Concept Plan area (Figure 2). The potential harm to Aboriginal cultural heritage as the result of proposed Calderwood Valley - Concept Plan Amendment (Mod 4) is consistent with previous archaeological investigations.

Impacted Aboriginal sites will require an AHIP prior to any impact. An AHIP can be obtained by following the relevant OEH guidelines and requirements, including:

Applying for an Aboriginal Heritage Impact Permit: Guide for applicants (OEH 2011)

Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW 2010)

Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011)

Beyond the AHIP process, the sites are not a hindrance to the proposed development of Calderwood Valley.

If you have any questions or require further information, please do not hesitate to contact me on (02) 9232 5373 or email Matthew.Kelleher@knconsult.com.au

Yours sincerely,



Dr Matthew Kelleher
Director/Archaeologist

Appendix A AHIMS Search Results



Office of
Environment
& Heritage

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 1641

Client Service ID : 346087

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
52-5-0228	Macquarie Rivlet 2;	AGD	56	293600	6174500	Open site	Valid	Artefact :-	Open Camp Site	1330,102212,1 02375
	Contact	Recorders	Kerry Navin,Mr.Kelvin Officer,Doctor.Susan McIntyre-Tarnwoy					Permits		
52-5-0515	Calderwood PAD 1	AGD	56	291173	6172768	Open site	Valid	Potential Archaeological Deposit (PAD) :-		102212
	Contact T Russell	Recorders	Ms.Sarah Burke					Permits	2661,2873	
52-5-0522	HCL, Tullimbah	AGD	56	294391	6170922	Open site	Valid	Artefact : 5		102212
	Contact Searle	Recorders	Doctor.Julie Dibden					Permits		
52-5-0627	CP-S-01	GDA	56	293437	6171863	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.Leigh Bate					Permits		
52-5-0628	CP-S-02	GDA	56	294386	6173411	Open site	Valid	Artefact : 6		
	Contact	Recorders	Mr.Leigh Bate					Permits		
52-5-0629	CP-S-03	GDA	56	293509	6172509	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.Leigh Bate					Permits		
52-5-0630	CP-S-04	GDA	56	293970	6174138	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.Leigh Bate					Permits		
52-5-0631	CP-S-05	GDA	56	292955	6172691	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.Leigh Bate					Permits		
52-5-0632	CP-S-06/CP-PAD-02	GDA	56	293943	6173438	Open site	Valid	Artefact : 2		103727,10372 8
	Contact	Recorders	Mr. Leigh Bate					Permits		
52-5-0633	CP-S-07	GDA	56	293700	6173386	Open site	Valid	Artefact : 3		103727,10372 8
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits	4092	
52-5-0634	CP-S-08	GDA	56	293085	6173831	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0635	CP-S-09/CP-PAD-03	GDA	56	292297	6173439	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0636	CP-S-10	GDA	56	292374	6174114	Open site	Valid	Artefact : 3		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0637	CP-S-11/CP-PAD-04	GDA	56	292616	6173723	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0638	CP-S-12	GDA	56	292959	6173461	Open site	Valid	Artefact : 1		103727,10372 8
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0639	CP-S-13	GDA	56	292868	6173817	Open site	Valid	Artefact : 1		

Report generated by AHIMS Web Service on 21/05/2018 for Benjamin Anderson for the following area at Datum :GDA, Zone : 56, Eastings : 290900 - 295200, Northings : 6170900 - 6175700 with a Buffer of 0 meters. Additional Info : Archaeological Assessment. Number of Aboriginal sites and Aboriginal objects found is 55

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0640	CP-S-14/CP-PAD-05	GDA	56	293031	6174042	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr. Leigh Bate					Permits		
52-5-0641	CP-S-15	GDA	56	293486	6175073	Open site	Valid	Artefact : 1		102766
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0434	Tullimbah PAD1	AGD	56	293600	6171650	Open site	Valid	Potential Archaeological Deposit (PAD) :-		102212,10339 0
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits	2299,2338,3054,3118	
52-5-0431	Tullimbar Village PAD3	AGD	56	294000	6171200	Open site	Valid	Potential Archaeological Deposit (PAD) :-		102212
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Navin Officer Heritage Consultants Pty I					Permits	2149,2321,2338	
52-5-0441	HC2 and PAD3	GDA	56	294454	6171230	Open site	Valid	Artefact : 5		102212
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd, Illawarra LALC, Mrs. Nicola Hayes					Permits		
52-5-0529	Calderwood 1	GDA	56	291499	6173252	Open site	Valid	Artefact : 1		102212
	Contact	Recorders	Wodi Wodi Elders Corporation					Permits		
52-5-0701	CP-IP-05A	GDA	56	294292	6173109	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0658	CP-IP-05	GDA	56	294292	6173109	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0868	North Macquarie Road PAD 1	GDA	56	293335	6172650	Open site	Valid	Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Kelleher Nightingale Consulting Pty Ltd, Miss. Kristen Taylor					Permits		
52-5-0439	Tullimbah Village PAD2	AGD	56	294050	6171800	Open site	Valid	Potential Archaeological Deposit (PAD) :-		102212,10339 0
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits	2338,3054,3118	
52-5-0440	Tullimbah Village PAD4	AGD	56	294300	6170900	Open site	Valid	Potential Archaeological Deposit (PAD) :-		102212,10339 0
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits	2338,3054,3118	
52-5-0489	WDRA_AX_33	AGD	56	294715	6175487	Open site	Valid	Artefact : 1		100075,10221 2,102766
	Contact	Recorders	Australian Museum Consulting (AM Consulting)					Permits		
52-5-0490	WDRA_AX_34	AGD	56	293750	6175409	Open site	Valid	Artefact : 1		100075,10221 2,102766

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact S Scanlon	Recorders						Permits		
52-5-0493	WDRA_AX_37	AGD	56	294765	6174305	Open site	Valid	Artefact : 1		100075,10221 2
	Contact S Scanlon	Recorders						Permits		
52-5-0494	WDRA_AX_38	AGD	56	295069	6174584	Open site	Valid	Artefact : 1		100075,10221 2
	Contact S Scanlon	Recorders						Permits		
52-5-0495	WDRA_AX_39	AGD	56	292286	6174532	Open site	Valid	Artefact : 1		100075,10221 2
	Contact S Scanlon	Recorders						Permits		
52-5-0587	CP-IF-01	GDA	56	291775	6171664	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits		
52-5-0588	CP-IF-02	GDA	56	291735	6171550	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits		
52-5-0589	CP-IF-03	GDA	56	293587	6172587	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits		
52-5-0590	CP-IF-04	GDA	56	294309	6173147	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits		
52-5-0591	CP-IF-05	GDA	56	294309	6173147	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits		
52-5-0592	CP-IF-06	GDA	56	292184	6172272	Open site	Valid	Artefact : 1		103727,10372 8
	Contact	Recorders						Permits		
52-5-0593	CP-IF-07	GDA	56	292892	6172396	Open site	Valid	Artefact : 1		103727,10372 8
	Contact	Recorders						Permits		
52-5-0594	CP-IF-08	GDA	56	292979	6172557	Open site	Valid	Artefact : 1		103727,10372 8
	Contact	Recorders						Permits		
52-5-0595	CP-IF-11	GDA	56	292460	6172557	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits		
52-5-0596	CP-IF-12	GDA	56	292686	6172441	Open site	Valid	Artefact : 1		103727,10372 8
	Contact	Recorders						Permits		
52-5-0597	CP-IF-13	GDA	56	293281	6173372	Open site	Partially Destroyed	Artefact : 1		103727,10372 8
	Contact	Recorders						Permits	4092	
52-5-0598	CP-IF-14	GDA	56	292464	6173549	Open site	Valid	Artefact : 1		

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Extensive search - Site list report

Your Ref/PO Number : 1641

Client Service ID : 346087

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0599	CP-IP-15	GDA	56	292473	6173647	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0600	CP-IP-16	GDA	56	292257	6173960	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0601	CP-IP-10	GDA	56	292558	6172658	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0602	CP-IP-17	GDA	56	293496	6175017	Open site	Valid	Artefact : 1		102766
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0603	CP-IP-18	GDA	56	294006	6174575	Open site	Valid	Artefact : 1		
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0604	CP-PAD-01	GDA	56	292796	6172718	Open site	Valid	Artefact : 1		103727,103728
	Contact	Recorders	Austral Archaeology Pty Ltd					Permits		
52-5-0842	Tullimbar PAD5 Cloned	GDA	56	294560	6171025	Open site	Valid	Potential Archaeological Deposit (PAD):-		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Nicola Hayes					Permits		
52-5-0834	Calderwood 01	GDA	56	292309	6172542	Open site	Valid	Artefact : 1		103727,103728
	Contact	Recorders	Eco Logical Australia Pty Ltd - Sydney,Ms.Sheahan Bestel					Permits		
52-5-0835	Calderwood 02	GDA	56	292309	6172204	Open site	Valid	Artefact : 1		103727,103728
	Contact	Recorders	Eco Logical Australia Pty Ltd - Sydney,Ms.Sheahan Bestel					Permits		
52-5-0844	Tullimbar Artefact Return Location	GDA	56	294476	6171114	Open site	Valid	Artefact :-		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd,Mrs.Nicola Hayes					Permits		
52-5-0848	YTOF AS 9	GDA	56	295082	6173605	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD): 1		103838
	Contact	Recorders	Artefact - Cultural Heritage Management Artefact - Cultural Heritage Management					Permits	4180	

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