

5.1.9 Transect 10 – Bidjigal Reserve, northern side of Hills M2 Motorway, West Pennant Hills

Transect 10 was on a generally east to west alignment, parallel to the Hills M2 Motorway on its northern side in the West Pennant Hills area within the Bidjigal Reserve (see **Figure 13**).

This transect ran parallel to Blue Gum Creek and was situated within a bush area, located in proximity to other adjoining park and reserve areas such as Richard Webb Reserve, Excelsior Park, Munro Reserve, Baulkham Hills Park and the Eric Mobbs Recreational Reserve.

In the area immediately adjacent to the Hills M2 Motorway there had been substantial impacts resulting from its construction. Beyond the road corridor area there was still largely undisturbed bush with mature vegetation as well as regrowth.

The main disturbance impacts were limited clearance in some areas, such as along walking tracks, graffiti, littering, stormwater drains and modification works along Blue Gum Creek in proximity to the Hills M2 Motorway. Along Blue Gum Creek a culvert and areas of artificial bank construction comprising small stones bound in place by metal nets were noted. Weed species including lantana were present in the area and the steep slopes in some areas were subject to wash and erosion (refer to **Plate 29** to **Plate 38**).

Along the extent of the transect, numerous sandstone outcrops and overhangs were present, including previously identified AHIMS rockshelter sites. No surface artefacts were identified, but this could have been due to the low ground surface visibility, which averaged zero per cent to 10 per cent due to vegetation growth and leaf litter. Intact deposits were noted within and in proximity to rockshelters, having the potential for subsurface deposits.

The coordinates for previously recorded AHIMS site #45-6-2472/#45-6-2513 suggest that the site would be located within the current road corridor of the Hills M2 Motorway. The site was unable to be relocated during the site inspection and was therefore assessed as having been possibly destroyed. The site card records that an Application for a Grant to Destroy permit was to be made by former Roads and Traffic Authority, presumably as a result of the construction of the Hills M2 Motorway. No records associated with the site card indicating that the application was submitted were identified.

Rockshelters were identified at locations in proximity to the AHIMS coordinates for sites #45-6-2097, #45-6-2160, #45-6-2061 and #45-6-2163 allowing for errors in grid coordinate approximation on the original recordings. No photos were provided in the past site card recordings, making positive re-identification difficult for these sites. Images for sites #45-6-2097, #45-6-2160 and #45-6-2163 rockshelter areas identified during this inspection are included from **Plate 29** to **Plate 38**.

In summary, the survey identified the area as having archaeological potential and Aboriginal consultation identified the sites within this area as having cultural value. This area has been identified as an area of archaeological sensitivity, and a management zone has been recommended (refer to **Section 5.3**).

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Figure 13 Survey Transects 10 and 11

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Plate 29 **Transect 10, outcrops at location of AHIMS #45-6-2097**



Plate 30 **Transect 10, graffiti on overhang at location of AHIMS #45-6-2097**



Plate 31 **Transect 10, graffiti on overhang at location of AHIMS #45-6-2163**

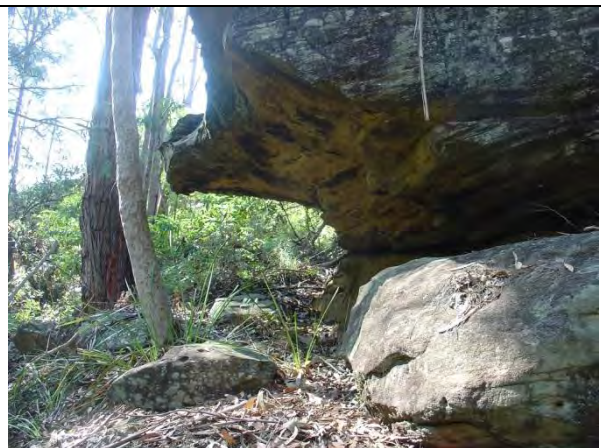


Plate 32 **Transect 10, overhang at location of AHIMS #45-6-2163**



Plate 33 **Transect 10, rockshelter with potential deposit, view west at location of AHIMS #45-6-2160**



Plate 34 **Transect 10, rockshelter with potential deposit, view east at location of AHIMS #45-6-2160**

	
Plate 35 Transect 10, Blue Gum Creek	Plate 36 Transect 10, Allen Madden at culvert on Blue Gum Creek next to Hills M2 Motorway
	
Plate 37 Transect 10, disturbed corridor immediately adjacent to Hills M2 Motorway	Plate 38 Transect 10, view south toward Hills M2 Motorway

5.1.10 Transect 11 – Haines Avenue to Yale Close, North Rocks

Transect 11 was located at Haines Avenue to near Yale Close, North Rocks (see **Figure 13**). The main extent of the transect was in an east to west trajectory, parallel to the Hills M2 Motorway on its southern side.

Due to areas of clearance and walking paths the overall ground surface visibility averaged 40 per cent. Vegetation throughout the area was composed of regrowth and there had been high levels of disturbance throughout the area, including concrete lining of drainage lines, culvert, storm water drains and construction impacts associated with the Hills M2 Motorway. Graffiti and littering were also noted in the area (refer to **Plate 39** to **Plate 42**).

Apart from the concrete filled drainage lines, there were no water resources within this transect area, but an unnamed tributary of Blue Gum Creek was present to the west of the end point of the transect, immediately adjacent to Yale Close. Two previously recorded AHIMS sites had coordinates situating the sites within this area, being #45-6-2097 and #45-6-2161. Ground-truthing placed the sites to the north of the Hills M2 Motorway, as identified in Transect 10.

No Aboriginal archaeological sites or areas of archaeological sensitivity were identified within the area to be disturbed as part of the project. Aboriginal consultation did not identify any cultural sensitivity within the area of potential impact.

	
Plate 39 Transect 11, Andrew McLaren and Tracey Howie at culvert	Plate 40 Transect 11, drain utility hole
	
Plate 41 Transect 11, modified slope	Plate 42 Transect 11, adjacent to Hills M2 Motorway, view east

5.1.11 Transect 12 – Perry Street to Hills M2 Motorway, Baulkham Hills

Transect 12 was located at Perry Street to Hills M2 Motorway, Baulkham Hills, NSW.

There were no AHIMS sites along this transect.

Ground surface visibility during the inspection averaged 25 per cent due to vegetation and leaf litter. Vegetation throughout the area included grass areas, areas of regrowth, and limited mature vegetation.

Darling Mills Creek and its associated drainage lines were highly modified in this area.

Other development impacts within the area included tracks, the Hills M2 Motorway, modified drainage lines (concrete lined), sediment ponds, housing and associated infrastructure (refer to **Figure 14** and **Plate 43** to **Plate 46**).

No Aboriginal archaeological sites or areas of archaeological sensitivity were identified within the area to be disturbed as part of the project. Aboriginal consultation did not identify any cultural sensitivity within the area of potential impact.

	
Plate 43 Transect 12, access track between houses and Hills M2 Motorway	Plate 44 Transect 12, adjacent to Hills M2 Motorway
	
Plate 45 Transect 12, concrete drainage line	Plate 46 Transect 12, beneath Hills M2 Motorway adjacent to modified channel of Darling Mills Creek



Figure 14 Survey transects 12, 13 and 14

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5.1.12 Transect 13 – Randall Crescent to Ventura Road, Baulkham Hills

Transect 13 was located at Randall Crescent to Ventura Road, Baulkham Hills, NSW.

AHIMS sites within 200 metres of this transect were #45-6-0923 and #45-6-0924. Site #45-6-0923 was located within Transect 14. Site #45-6-0924 was not relocated.

Ground surface visibility during the inspection averaged 25 per cent due to vegetation and leaf litter throughout the bush reserve area. Vegetation included both mature vegetation and regrowth, with tracks linking suburban street areas to the bush area.

Darling Mills Creek was highly modified in this area. Other development impacts included tracks and stormwater drains (refer to **Figure 14**, **Plate 47** and **Plate 48**).

No Aboriginal archaeological sites or areas of archaeological sensitivity were identified within the area of proposed impact. Aboriginal consultation did not identify any specific cultural sensitivity within the area of potential impact.



Plate 47 Transect 13, bush reserve with tracks

Plate 48 Transect 13, bush reserve with tracks

5.1.13 Transect 14 – Ventura Road to Renown Road, Baulkham Hills

Transect 14 was located at Ventura Road to Renown Road, Baulkham Hills, NSW (refer to **Figure 14**).

AHIMS sites within 400 metres of this transect included #45-6-0923, #45-6-2548/ #45-5-0886, #45-6-2542, #45-6-2543 and #45-6-2544.

Ground surface visibility during the inspection averaged 20 per cent due to vegetation, leaf litter and concrete. Moss also obscured the surface of some sandstone outcrops, which were checked for signs of modification (grinding grooves/engravings). Vegetation throughout the area included both regrowth and mature vegetation.

Darling Mills Creek and its associated drainage line were both highly modified in this area, with modified channel and stormwater drains.

Other development impacts within the area included the Hills M2 Motorway, drains, modified creeklines (concrete lined), sewer vents, roads, tracks, housing and associated infrastructure (refer to **Plate 49** and **Plate 50**).

Overhangs were identified and four previously recorded AHIMS rockshelter sites were relocated. Areas of rock overhang either side of Darling Mills Creek and its associated tributary were found to contain these sites. These areas were noted as having archaeological sensitivity as well as Aboriginal cultural sensitivity, although these areas had been subject to impacts from graffiti, littering and modern campfires. Collectively, two of these sites have been identified as a management zone containing archaeological sensitivity. The identified sites are listed in **Table 7** and area shown in proximity to the project on **Figure 16**.

	
Plate 49 Transect 14, stormwater drains	Plate 50 Transect 14, M2 motorway overhead with support pylons, maintenance access track and modified channel for Darling Mills Creek

Table 5 Visual inspection results

Transect	Landform elements	Natural creek or drainage line observed within boundaries of disturbance footprint?	Average ground surface visibility (GSV)	Average ground integrity	Key disturbance factors	Surface artefacts observed	Archaeological sensitivity of area of proposed disturbance	Impact risk for area of proposed ground disturbance
1	Midslope and creek bank	Cockle Creek	Very Poor	Low	Vegetation clearance, service road construction/use, residential houses and associated infrastructure, culvert, pipes.	No	Low	Low
2	Midslope, lower slope, creek bank, creek channel	Cockle Creek	Very poor	Low	Native vegetation removal, walking track, bike track, rubbish dumping, graffiti, creek channel modification, concrete drainage channels, culvert, motorway construction; pipeline, stormwater pollution trap.	No	Low	Low
3	Lower slope, creek bank, creek channel	Cockle Creek	Very poor	Low	Native vegetation removal, creek channel modification, freeway construction, residential houses/infrastructure.	No	Low	Low
4	Creek bank	Cockle Creek	Poor	Low	Roads, modified creekline (concrete and brick lined), housing and associate infrastructure.	No	Low	Low
5	Midslope	No	Very Poor	Low	Vegetation clearance, residential houses and associated infrastructure, motorway construction/use.	No	Low	Low
6	Lower slope & creek bank	Coups Creek	Poor	Low	Roads, drains, park area, bush track, housing and associate infrastructure.	No	Low	Low

Transect	Landform elements	Natural creek or drainage line observed within boundaries of disturbance footprint?	Average ground surface visibility (GSV)	Average ground integrity	Key disturbance factors	Surface artefacts observed	Archaeological sensitivity of area of proposed disturbance	Impact risk for area of proposed ground disturbance
7	Modified tributary channel	Unnamed tributary	Very poor	Low	Cement lining, brick walls, utility holes, pipes, storm water drains, residential houses, rubbish.	No	Low	Low
8	Gentle slope	No	Very poor	Moderate	Vegetation clearance, park landscaping.	No	Low	Low
9	Modified creek bank	Tributary of Devlins Creek	Very good	Low	Residential housing, vegetation clearance, walking track, storm water drains, Hills M2 Motorway construction/use.	No	Low	Low
10	Slopes	Blue Gum Creek	Very Poor	Moderate	Vegetation clearance, tracks, culvert, creek line modification, erosion, wash.	No	High	High
11	Slope	Unnamed tributary of Blue Gum Creek	Fair	Low	Vegetation clearance, tracks, culvert, concrete lining of drainage lines, storm water drains, littering, graffiti, Hills M2 Motorway construction/use.	No	Low	Low

Transect	Landform elements	Natural creek or drainage line observed within boundaries of disturbance footprint?	Average ground surface visibility (GSV)	Average ground integrity	Key disturbance factors	Surface artefacts observed	Archaeological sensitivity of area of proposed disturbance	Impact risk for area of proposed ground disturbance
12	Upper slope, midslope, creek bank	Darling Mills Creek and tributary	Poor	Low	Tracks, motorway, modified drainage lines (concrete lined), sediment pond, housing and associate infrastructure.	No	Low	Low
13	Midslope, lower slope and creek bank	Darling Mills Creek	Poor	Low	Track, stormwater drains and modified creekline.	No	Low	Low
14	Midslope, lower slope and creek bank	Darling Mills Creek and tributary	Poor	Low	Motorway, drains, modified creekline (concrete lined), sewer vents, roads, tracks, housing and associate infrastructure.	No, but rockshelters present.	Moderate	Low

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5.2 Ground-truthing AHIMS registered sites

Prior to the field inspections, site cards were obtained for the previously identified AHIMS register search results. Information from the site cards was then utilised in inspecting the site location areas during field inspections. The significance of the items was not provided on the site cards.

Some sites were identified as having been destroyed during previous development works. Others were found to be registered at an erroneous coordinate, (e.g. #45-6-0897 was registered to a coordinate near Brickpit Park on Pennant Hills Road, but was described on the site card as being situated on Lane Cove River).

Details on the AHIMS sites that were subject to the field inspection have been provided in **Table 6** and the results are discussed in **Section 5.1**.

In summary:

- Site #45-6-0339 was unable to be located during the targeted inspection. However it is noted that the site card states that the site was “now obliterated by waterboard piping and works” suggesting that although it is listed as valid in the AHIMS register, it has in fact been destroyed.
- Site #45-6-0342 was unable to be located during the targeted inspection. It is noted that the site card for #45-6-0342 describes the engravings as having being “cut out” prior to 1910 and that a 1988 review by Tessa Corkill could not identify the site location.
- The site card for #45-6-1487 showed that the site was destroyed under permit 450001 (January 1986). No remnants of the site were located during the site inspection.
- Sites #45-6-2472/#45-6-2513 were possibly destroyed during previous development works. The site card records that an Application for a Grant to Destroy permit was to be made to the former Roads and Traffic Authority (now Roads and Maritime), presumably as a result of the construction of the Hills M2 Motorway. No records associated with the site card indicating that this application was submitted were identified.
- Site #45-6-2892 was unable to be located during the targeted inspection. Site #45-6-2892 does not have a site card on file in the AHIMS register and the AHIMS coordinate places the site on the Pennant Hills Golf Course. It was unable to be relocated during past surveys of the area undertaken previously by AECOM during the development of the Hills M2 Motorway Upgrade project (AECOM, 2010).
- Sites #45-6-0923, #45-6-2097, #45-6-2160, #45-6-2161, #45-6-2163, #45-6-2542, # 45-6-2543, #45-6-2544 and #45-6-2548 /#45-5-0886 were located and remain valid.
- Site #45-6-0924 could not be relocated during the site inspection.

Details of the AHIMS sites are summarised below in **Table 6** and **Table 7**.

Table 6 AHIMS Registered Sites within project corridor

AHIMS #	Site name	Site type	Valid / destroyed
45-6-0339	Normanhurst	Grinding grooves	Destroyed
45-6-0342	Asquith	Engraving	Could not be relocated during the site inspection.
45-6-0923	DARLING MILLS CREEK 1	Rockshelter	Valid
45-6-0924	Darling Mills Creek; Parramatta	Rockshelter with art	Could not be relocated during the site inspection.
45-6-1487	Golf Links Track; HB-13;	Grinding grooves	Destroyed
45-6-2097	Darling Mills S.F. 2	Rockshelter	Valid
45-6-2160	CF1 a b; Cumberland S.F.	Art site/ Rockshelter	Valid
45-6-2161	CF3;Cumberland S. F.	Rockshelter	Valid
45-6-2163	CF5;Cumberland S.F.	Rockshelter	Valid
45-6-2472 / 45-6-2513	CF6/ CFC (Baulkham Hills) SEE 45-6-2472	Art site/ Rockshelter	Could not be relocated during the site inspection.
45-6-2542	DMC 6	Rockshelter	Valid
45-6-2543	DMC 7	Rockshelter	Valid
45-6-2544	DMC 8	Rockshelter	Valid
45-6-2892	PHGC 1 (Hills Golf Course)	Rockshelter	Could not be relocated during the site inspection.
45-6-2548 / 45-5-0886	DMC 1	Rockshelter	Valid

Table 7 Sites in proximity to Hills M2 Motorway integration works

AHIMS #	Site name	Site type	Notes
45-6-0923	DARLING MILLS CREEK 1	Rockshelter	Originally recorded in 1963, an inspection that searched for it in 1989 found likely matches in the locality but could not positively identify the rockshelter due to a lack of information on the site card. The same issues exist for this 2013 inspection, with this location the most likely match. A modern campfire was identified within this rockshelter.
45-6-2548/45-5-0886	DMC 1	Rockshelter	This site has been duplicated in the AHIMS register, with two sites cards referring to it. At the time of inspection a small overhang with rock base containing graffiti (A.Y.KM. 30.7.66) was noted to be directly adjacent to the larger rockshelter identified on the site cards. This site is in proximity to the existing Hills M2 Motorway, walking track and modified channel for Darling Mills Creek. It was noted to contain graffiti.
45-6-2543	DMC 7	Rockshelter	In addition to the initial site recording in 1993, this site was also reinspected in 2009 by AECOM. This rockshelter was located adjacent to #45-6-2544.
45-6-2544	DMC 8	Rockshelter	In addition to the initial site recording in 1993, this site was also reinspected in 2009 by AECOM. This rockshelter was located adjacent to #45-6-2543.
45-6-2542	DMC 6	Rockshelter	This site was in regular modern use, with evidence of past campfires, wood gathered and a depression excavated for a future campfire, tongs, broken glass and graffiti all present.
NA	NA	Rock overhang	No corresponding site card could be found for this rock overhang. Graffiti was noted as present.
NA	NA	Rock overhang	No corresponding site card could be found for this rock overhang. Graffiti was noted as present. This rock overhang is located immediately adjacent to a walking track alongside a tributary creek.





	
<p>Plate 51 AHIMS #45-6-0923 (no picture on site card for comparison)</p>	<p>Plate 52 AHIMS #45-6-2548/45-5-0886 - additional small overhang area adjacent to main section with graffiti</p>
	
<p>Plate 53 AHIMS #45-6-2548 – 1992 picture from site card</p>	<p>Plate 54 AHIMS #45-6-2548 – 2013 inspection</p>



Plate 55 AHIMS #45-6-2543 – 2009 picture from site card

Plate 56 AHIMS #45-6-2543 – 2013 inspection



Plate 57 AHIMS #45-6-2544 – 2009 picture from site card

Plate 58 AHIMS #45-6-2544 – 2013 inspection

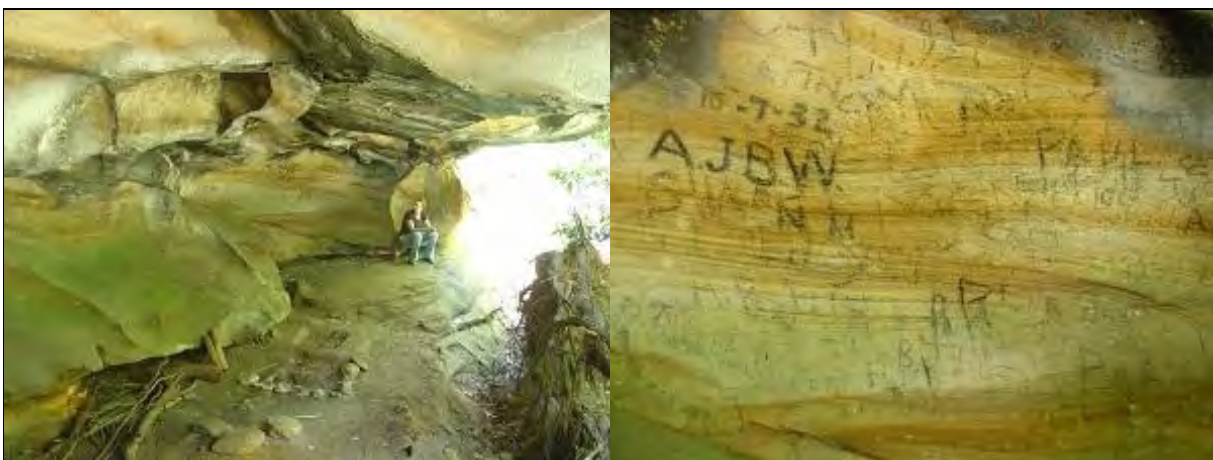
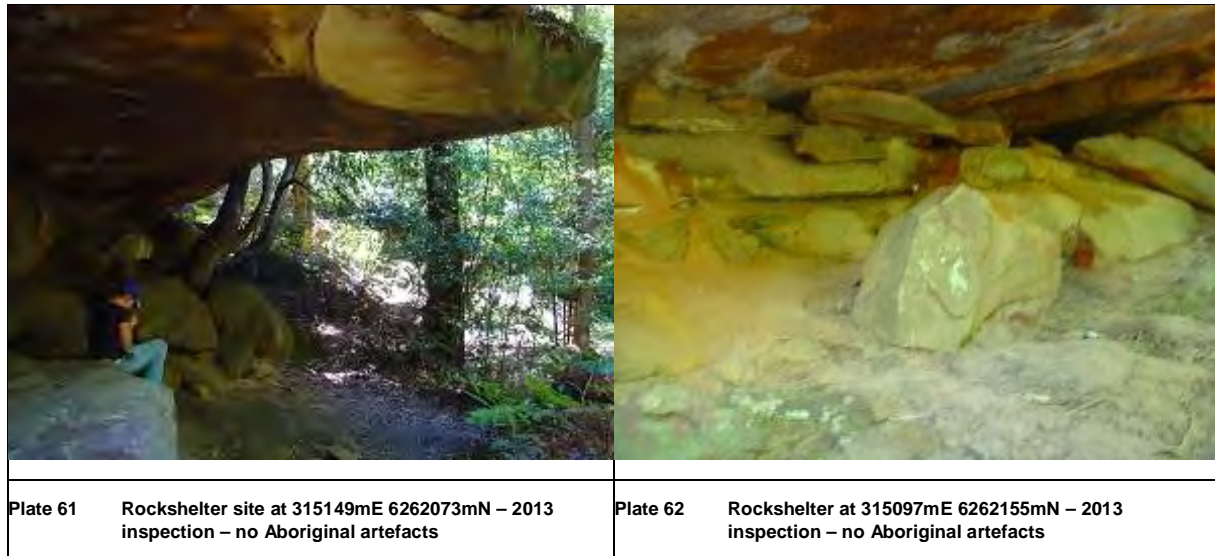


Plate 59 AHIMS #45-6-2542 with two campfire areas, firewood and graffiti – 2013 inspection (no picture on site card for comparison)

Plate 60 AHIMS #45-6-2542 graffiti detail – 2013 inspection



5.3 Outcomes of aboriginal representative consultation

As detailed in **Section 3.1**, representatives from the Metropolitan Local Aboriginal Land Council (MLALC) and Guringai Tribal Link Aboriginal Corporation (GTLAC) participated in the site inspections held in late 2013.

Both representatives provided verbal feedback during the field inspections, which was considered in this assessment. The representatives were invited to provide a report or comments detailing their findings of the inspections for consideration in the assessment of the potential impacts of the project.

A report was received from the GTLAC representative for the site inspections undertaken in September and October 2013 (refer to **Appendix A**). In summary, the GTLAC representative advised that:

- “The study area for the proposed works, has been and still is, home to the Guringai speaking Mob (Wanangine), for generations and seasonally occupied in various locations by the Darug peoples.”
- “No Aboriginal sites were identified within the study area at the time of this survey. Previously recorded Aboriginal sites could not be identified at the time of this survey and it appears that these sites were subject to a Consent to destroy Permit (issued by DEC, now known as OEH) during the construction of the existing F3 and associated roadways.”
- “To our knowledge, some engraving sites were excavated and relocated to Ku-ring-gai Chase National Park and one was relocated to The Wildflower Gardens at St. Ives.”

As the GTALC representative was unable to attend the December 2013 inspection, a copy of the report for that inspection was provided to that representative for comment. The representative advised that no further comment would be provided.

Verbal advice received during the field inspections from the MLALC representative were considered in this assessment, being that there are no Aboriginal sites or areas of specific cultural values detected during the inspections in the areas proposed for disturbance. The MLALC representative was also provided with data from the inspection conducted on 24 September 2013 and a copy of the report relating to the inspection held on 19 December 2013. In providing comment on that report, the representative agreed with the recommendations relating to restrictions to management zones for areas of sensitivity (as discussed in **Section 5.4** and **Chapter 7.0**).

No specific cultural values (including cultural landscape values) were identified by the representatives as having the potential to be impacted by the proposed works.

5.4 Management Zones

Two management zones were identified during this assessment. The purpose of these management zones was to assist in the avoidance of areas containing Aboriginal heritage values during the proposed works. These management zones were identified based upon known and potential Aboriginal archaeological heritage values, objects and places. Triggers for consideration of a management zone included currently valid AHIMS sites, landforms with the potential for further sites to occur and input from participating Aboriginal representatives on cultural values (including cultural landscape values). Field inspections of these areas were utilised to assess the level of past disturbance and ground-truth AHIMS sites. The extent of these management zones were defined considering the combination of all of these elements. The curtilage was defined with reference to areas of high disturbance (such as the existing Hills M2 Motorway alignment) located outside its bounds.

These management zones are referred to as areas of archaeological sensitivity, being ASA1 and ASA2. The management zones were identified specifically in relation to this assessment, which had a defined study area. Archaeological sensitivity may also occur in the continuing landforms beyond the bounds of the identified management zones, but have not been assessed as they fall outside the parameters of this study and the defined study area. The identification of management zones ASA1 and ASA2 was specifically undertaken to manage the avoidance of impacts for the proposed works on both known and potential Aboriginal heritage.

Area of archaeological sensitivity – ASA1

The ASA1 management zone, which contains three previously registered AHIMS sites (#45-6-2097, #45-6-2160 and #45-6-2163), was identified in the southern portion of the study area west of the southern interchange (refer to **Figure 15**). The area was identified on transect 11 and is located on the northern side of the Hills M2 Motorway in West Pennant Hills. The area is adjacent to Blue Gum Creek and contains numerous outcrops and rock overhangs. In addition to the three registered AHIMS sites there is a potential for further Aboriginal archaeological sites to be located in this area. This area is outside of the construction footprint for the project.

Area of archaeological sensitivity – ASA2

Five previously registered AHIMS sites (#45-6-0923, #45-6-2548/45-5-0886, #45-6-2543, #45-6-2544 and #45-6-2542) and two rock overhangs were identified within 400 metres of the Hills M2 Motorway integrations works, to the north of the Hills M2 Motorway, adjacent to Darling Mills Creek (refer to **Figure 16**). The ASA2 management zone was identified on transect 14 as being that portion of the outcrop and rock overhang area within 200 metres of the proposed works. ASA2 management zone contains AHIMS sites #45-6-2543 and #45-6-2544 as well as further overhangs.

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Figure 15 Archaeological sensitivity area 1

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Figure 16 Area of archaeological sensitivity 2 within proximity to the project

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6.0 Summary of constraints

Two management zones were identified during these works. One of these areas (ASA1) was identified within Bidjigal Reserve on the northern side of Hills M2 Motorway, West Pennant Hills (refer to **Figure 15**). This area contains three registered AHIMS sites and has the potential for further sites to be located within the area. Aboriginal consultation identified this area as containing areas of cultural significance. This area is located outside of the construction footprint for the project.

The second management zone area contained two rockshelter sites and rock overhangs near Darling Mills Creek, located north of the Hills M2 Motorway. It was identified as a result of the assessment of the study area. There is also potential for further Aboriginal archaeological sites to be located in this area. This area is referred to in this report as ASA2 management zone, and was located on transect 14 (refer to **Figure 16**). The identified sites and area of potential fall outside of the construction footprint for the project.

For management zones ASA1 and ASA2, the construction footprint for the project would not extend into these areas.

The other transect areas inspected during this assessment have been assessed as disturbed with a low likelihood for containing Aboriginal archaeological sites and having no specific cultural values. Direct impacts to sites #45-6-0923, #45-6-2097, #45-6-2160, #45-6-2161, #45-6-2163, #45-6-2542, #45-6-2543, #45-6-2544 and #45-6-2548 / #45-5-0886 would be avoided.

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7.0 Summary of Findings & Recommendations

The analysis of Aboriginal cultural heritage for the project identified the following:

- Direct impacts to sites #45-6-0923, #45-6-2097, #45-6-2160, #45-6-2161, #45-6-2163, #45-6-2542, #45-6-2543, #45-6-2544 and #45-6-2548 / #45-5-0886 would be avoided.
- No specific Aboriginal archaeological heritage values were identified during these inspections outside existing AHIMS site areas, with the exception of two management zone areas, being:
 - An area of archaeological sensitivity, containing three valid registered AHIMS sites and the potential for further sites, located in the southern portion of the study area. This area is referred to in this report as ASA1 (Archaeological Sensitivity Area 1) management zone. The area is adjacent to Blue Gum Creek and contains numerous outcrops and rock overhangs.
 - An area containing two rockshelter sites and rock overhangs near Darling Mills Creek and located north of the Hills M2 Motorway, which were identified as being within 200 metres of the construction footprint. There is also potential for further Aboriginal archaeological sites to be located in this area. This area is referred to in this report as ASA2 (Archaeological Sensitivity Area 2) management zone.
 - The construction footprint for the project would not extend into either ASA1 or ASA2 management zones.
- Development works have previously been conducted in proximity to ASA2 management zone as part of the M2 Upgrade project. Activities conducted in this locality included establishment and operation of a construction compound site, bridge widening works and piling. The M2 Upgrade project was successfully completed without adversely affecting nearby rock outcrops and rock shelters.
- Project works proposed in proximity to ASA2 management zone relate to the Hills M2 Motorway, the majority of which would affect the southern side of the motorway. Where the integration works affect the northern side of the motorway, they would not extend beyond the area previously disturbed by the M2 Upgrade project. On this basis, and noting the absence of adverse impacts by the M2 Upgrade project, it is anticipated that the Hills M2 Motorway integration works would similarly not result in adverse impacts to this area of archaeological sensitivity.
- The targeted inspections have not identified any impacts on Aboriginal cultural values as a result of the project, and as such, the assessment has not advanced to a detailed cultural heritage impact assessment. Management recommendations have been compiled to protect sites identified in the surrounding area. This assessment, undertaken in accordance with OEH guidelines, does not identify any need for further assessment or consultation.
- Nonetheless, recommendations to safeguard these values have been developed and detailed in **Section 7.1**.
- Based on the results of this assessment, the AHIMS database should be updated through submission of site cards and ASIR card/s. This should provide the data gathered during this inspection so that the latest coordinate and condition data is accurate within the AHIMS register.

7.1 Management recommendations

Based on the results of the targeted inspections it is recommended that:

- The detailed design of the project should be developed to avoid direct impacts on the ASA1 and ASA2 management zones and previously identified archaeological sites.
- The identified rockshelter sites and overhangs located within 200 metres of the Hills M2 Motorway integration works should be clearly delineated prior to construction works to avoid inadvertent impacts during construction.

- During construction, vibration monitoring would be conducted for vibration intensive works within 50 metres of rockshelter sites and overhangs associated with ASA2 management zone to ensure that the rockshelter sites and overhangs are not adversely affected. The need for vibration monitoring would be informed by a preliminary screening of activities at this location to identify what activities have the potential for vibration at the areas of sensitivity. The preliminary screening and works requiring monitoring would be contained within the construction environmental management plan.
- If impacts on any Aboriginal heritage sites or areas of archaeological sensitivity cannot be avoided, then it is recommended that the assessment process progress to Stage 3 of the Roads and Maritime PACHCI process for formal consultation (Roads and Maritime, 2011).
- The AHIMS database should be updated through submission of site cards and ASIR card/s prior to works commencing. This should provide the data gathered during the field inspections carried out to inform this assessment so that the latest coordinate and condition data is accurate within the AHIMS register.
- In the event that additional areas outside of those inspected as part of this assessment are identified as having potential for Aboriginal heritage and the potential for disturbance as a result of the project, then the need for additional Stage 2 assessments should be reviewed.
- If an Aboriginal object(s) or human remains are discovered during construction, the discovery should be managed in accordance with the Roads and Maritime standard management procedure Unexpected Archaeological Finds (July, 2012).

**ABORIGINAL CULTURAL HERITAGE
IMPACT ASSESSMENT REPORT.
PROPOSED TOLLED MOTORWAY
LINKING the F3 to the HILLS M2
MOTORWAY
NORTH ROCKS to HORNSBY, NSW.**

*Prepared by Tracey Howie-Guringai Tribal Link Aboriginal Corporation
for
Roads and Maritime Services (RMS) NSW.
October, 2013.*

**ABORIGINAL CULTURAL HERITAGE
IMPACT ASSESSMENT REPORT**

**PROPOSED TOLLED MOTORWAY LINKING the F3 to the HILLS M2
MOTORWAY, NORTH ROCKS to HORNSBY, NSW**

**Prepared by Guringai Tribal Link Aboriginal Corporation,
for Roads and Maritime Services (RMS) NSW.**

INTRODUCTION:

Guringai Tribal Link Aboriginal Corporation (GTLAC) was contacted by Clive Freeman, Aboriginal Cultural Heritage Officer for RMS, in regards to an Aboriginal Cultural Heritage Impact Assessment for the proposed F3 to Hills M2 Motorway link road.

The proposal consists of a tolled Motorway linking the F3 (M1 Pacific Motorway) to the Hills M2 Motorway running between North Rocks and Hornsby and extending through Baulkham Hills, North Rocks, Carlingford, West Pennant Hills, Pennant Hills, Beecroft, Thornleigh, Normanhurst and Wahroonga, NSW.

This survey was to revisit previously recorded Aboriginal sites and assess undeveloped areas within the proposed construction corridor (study area) for any additional Aboriginal sites, as defined in Attachment 1.

STUDY AREA:

The study area extends from the F3 (M1 Pacific Motorway) to the Hills M2 Motorway, passing through Baulkham Hills, North Rocks, Carlingford, West Pennant Hills, Pennant Hills, Beecroft, Thornleigh, Normanhurst and Wahroonga, NSW.

METHODOLOGY:

The survey was conducted on foot with a focus on ground surface exposures, large mature trees and previously recorded Aboriginal sites.

Representatives on site;

24/09/13;

GTLAC - Tracey Howie and Archaeologists, Darran Jordan and Chris Ellis - AECOM P/L.

02/10/13;

GTLAC - Tracey Howie, AECOM - Darran Jordan and Metropolitan LALC - Allan Madden.

8.0 Conclusion

The desktop assessment and targeted field inspections, as detailed in this report, have not identified any impacts that would result from the construction and operation of the project on Aboriginal archaeological sites, areas of archaeological sensitivity or areas that have Aboriginal cultural value. Management and mitigation measures have been recommended to protect sites identified in the surrounding area. It is therefore concluded that no further assessment or consultation in accordance with PACHCI or Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC, July 2005) is required for the project.

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9.0 References

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Appendix A

GTLAC report

HISTORICAL INFORMATION:

The study area for the proposed works, has been and still is, home to the Guringai speaking Mob (Wanangine), for generations and seasonally occupied in various locations by the Darug peoples. Pre and post European settlement.

Well known and documented members of the Guringai mob were: Boongaree, Matora, Mosquito, Jewfish, Cora(Gooseberry), Flathead, Long Dick, Sophy, Kitty and Charlotte Ashby.(nee Webb).

Thier presence in this area was initially recorded pre 1790. References to these Guringai speaking people are located on Government Blanket list and Court Bench records taken in the Northern Beaches areas and Colonial Secretary minutes, which are held at Hornsby Library and early recordings from surveyors John Fraser,Chappell, Felton & Sarah Matthews, journals written by Rev.L.E.Threlkeld, Rev. Glennie, Matthew Flinders, Augustus Earl, R.H Mathews, and current AIATSIS maps.

The traditional areas occupied by the Guringai speaking comprises of: All of Port Jackson catchment, including the tributaries of Middle Harbour and Lane Cove River, the Broken Bay catchment, including tributaries of Brisbane Water, Cowan Creek and Pitt Water, the water shed along Peats Ridge, following along the range through to Kulnura, as well as the Lakes of the Central Coast to lower Lake Macquarie.

Guringai - People of the Coast.

Darug - People of the Plains (as described by J.Fraser 1865)

Guringai and Darug People occupied and utilised the surrounding lands and waters of the wider Hornsby Local Government Areas and beyond, for centuries prior and post to European settlement.

With a predominately seafood diet, we fished and gathered from these waters and their banks and hunted for animals, collected berries, fruits and seeds, had ceremonies, celebrations and mourned within these areas.

Care was taken to not deplete our resources and respect was given to the Land.

FINDINGS:

No Aboriginal sites were identified within the study area at the time of this survey.

Previously recorded Aboriginal sites could not be identified at the time of this survey and it appears that these sites were subject to a Consent to destroy Permit (issued by DEC, now known as OEH) during the construction of the existing F3 and associated roadways.

To our knowledge, some engraving sites were excavated and relocated to Kuringai Chase National Park and one was relocated to The Wildflower Gardens at St. Ives.

RECOMMENDATIONS:

Should any Aboriginal sites/objects be located during the processes of any proposed works, work must cease in that area and the Office of Environment and Heritage (OEH, formally, Department of Environment Climate Change and Water, DECCW) & GTLAC are to be notified immediately.

Should any skeletal remains be unearth during any works or associated activities, all work must cease immediately within that vicinity and the NSW Police, OEH, NSW Coroner's Office and GTLAC are to be contacted.

Section 90(1) of the National Parks and Wildlife Act, 1974 states that it is an offence to destroy, deface or damage, or cause or permit destruction or defacement of or damage to, an Aboriginal object or Aboriginal place without first obtaining the consent of the Director General of the Office of Environment and Heritage.

Statutory Considerations.

Aboriginal and Torres Strait Islander Heritage Protection Act 1984. (Commonwealth)

The Aboriginal and Torres Strait Islander Heritage and Protection Act 1984 (Cwlth) was enacted at a Federal level to preserve and protect areas (particularly sacred sites) and objects of particular significance to Aboriginal Australians from damage or desecration. Steps necessary for the protection of a threatened place are outlined in a gazetted Ministerial Declaration (Sections 9 and 10). This can include the prevention of development.

As well as providing protection to areas, it can also protect objects by Declaration, in particular Aboriginal skeletal remains (Section 12). Although this is a Federal Act, it can be invoked on a State level if the State is unwilling or unable to provide protection for such sites or objects.

National Parks and Wildlife Act, 1974. (NSW)

The National Parks and Wildlife Act 1974 (NPW Act) provides blanket protection for Aboriginal objects (material evidence of Indigenous occupation) and Aboriginal Places (areas of Cultural significance to the Aboriginal community) across NSW. An Aboriginal object is defined as:

any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains.

An Aboriginal place is any place declared to be an Aboriginal place by the Minister for the Office of Environment and Heritage (OEH), under Section 84 of the Act.

It is an offence to disturb Aboriginal objects or places without a permit authorised by the Director-General of the OEH. In addition, anyone who discovers an Aboriginal object is obliged to report the discovery to OEH

Attachment 1:

BRIEF DESCRIPTION OF ABORIGINAL SITES and OBJECTS:

(Please note that not all Aboriginal site types are listed here).

Artefacts: (as defined in NPW Act. 1974)

Stone artefacts are culturally modified stone materials that occur when a stone material is struck by another stone to manufacture stone tools and implements. Other types of artefacts are quartz, modified shells and glass or ceramic, post European settlement.

Shell middens:

Shell middens are large deposits of shell materials that have accumulated over centuries of celebrations, ceremonies and/or feasts performed on the foreshore areas. Middens usually also contain artefacts and small animal and/or bird bones.

Scarred or culturally modified trees:

Scarred and culturally modified trees are usually large trees in which the thick outer layer of the tree has been removed with a traditional tool. Large removals were used for making canoes. Other removals were used for coolamons (trays with concave edges used as buckets or large plates), shields and shelter.

Stone Hatchet/Axe:

Stone hatchets and axes are made from binding a hard rock that has been sharpened on a sandstone platform/outcrop, to the end of a piece of wood and secured with tree resin and/or string made from rubbing strands of long, tough grasses together until they are tightly fused.

Grinding Grooves:

Grinding grooves are indented scars on sandstone platforms/outcrops, as a result of sharpening spears and axes in the same indentation over centuries. They are usually located near a constant water source.

Engraving sites:

Engraving sites are located on sandstone platforms/outcrops and boulders and are depictions of animals, human figures both natural and mythological, site indication markers, travel route markers and traditional tools. All engraving sites have a special meaning and form sections of much larger site complexes/story lines.

Ochre/Pigment Art:

Ochre art is usually located within a sandstone shelter/overhang and consists of drawings or hand stencils. Hand stencils are made by chewing a small amount of ochre mixed with egg white or water and sprayed by mouth over the hand when placed against the wall of the shelter/overhang. Another type of pigment art is charcoal drawings.

Spear:

Spear were usually made from the long narrow stem of a matured Xanthoria grass tree and were either sharpened on a sandstone at one end or had a stone spear head fixed to one end by binding it with tree resins.

Womera:

Womeras were used to propel a spear by placing the blunt end of the spear onto a sharpened stick or animal tooth that has been fixed to one end of a narrow piece of wood, about 30cm in length. Womeras made the spears travel much faster were and more accurate than just throwing them with a bare hand.

DESCRIPTION OF ABORIGINAL SITES and OBJECTS Continued:

Aboriginal Place:

An area of land or waters identified as being of Cultural significance and importance to the Aboriginal Community and, *any place declared to be an Aboriginal place by the Minister for the Office of Environment and Heritage (OEHL), under Section 84 of the Act.*

Water Holes:

Water holes are deep bowl like indentations in sandstone platforms/outcrops associated with fresh flowing water or permanent water sources such as natural springs.

Burial sites:

Burial sites contain human remains of Aboriginal persons pre European settlement and not within the confines of a graveyard/cemetery.

Sandstone Shelters:

Stone shelters were used as protection from extreme weather conditions and for shelter whilst travelling through the ridge top areas. They usually contain a sandy floor and can contain artefact materials.

Fish Traps:

Fish traps were made from boulders that are small enough to be carried and placed in a semi-circular formation within the low tide area of the foreshore. Upon a low tide the fish trapped within the rock formation were collected for consumption.

Knapping Site:

An area continually occupied over centuries/generations for the purposes of stone tool making and containing several, usually hundreds of offcuts and discarded fragments from the tools.

Appendix B

AHIMS register search results

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : 60300684

Client Service ID : 106367

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-2369	Bone shelter;	AGD	56	323180	6265680	Closed site	Valid	Artefact : -	Shelter with Deposit	2047
	<u>Contact</u>							<u>Permits</u>		
45-6-1084	Asquith;	AGD	56	325159	6269328	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	<u>Contact</u>							<u>Permits</u>		
45-6-1439	Elouera Bushland Reserve	AGD	56	320710	6267687	Open site	Not a Site	Art (Pigment or Engraved) : -	Not an Aboriginal Site	
	<u>Contact</u>							<u>Permits</u>		
45-6-2513	CFC (Baulkham Hills) SEE 45-6-2472	AGD	56	317750	6262200	Closed site	Valid	Art (Pigment or Engraved) : -, Artefact : -	Shelter with Art,Shelter with Deposit	
	<u>Contact</u>							<u>Permits</u>		
45-6-0608	Lane Cove River;Turramurra Public School	AGD	56	325726	6263669	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	<u>Contact</u>							<u>Permits</u>		
45-5-1005	IFCH1	AGD	56	322415	6262289	Open site	Not a Site	Artefact : -	Isolated Find	
	<u>Contact</u>							<u>Permits</u>		
45-6-2453	HR6	AGD	56	322400	6263970	Closed site	Valid	Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Deposit	3484
	<u>Contact</u>							<u>Permits</u>		
45-6-2454	HR7	AGD	56	320750	6266340	Closed site	Valid	Artefact : -	Shelter with Deposit	3484
	<u>Contact</u>							<u>Permits</u>		
45-6-2472	CF6	AGD	56	317750	6262200	Closed site	Valid	Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Deposit	
	<u>Contact</u>							<u>Permits</u>		
45-6-1487	Golf Links Track;HB-13;	AGD	56	325619	6269154	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	940
	<u>Contact</u>							<u>Permits</u>		
45-6-2097	Darling Mills S. F. 2	AGD	56	317453	6262240	Closed site	Valid	Artefact : -	Shelter with Deposit	1776,1809,191 1,2113,2293
	<u>Contact</u>							<u>Permits</u>		
45-6-2099	Dynamited;	AGD	56	323140	6265520	Closed site	Valid	Artefact : -	Shelter with Deposit	287
	<u>Contact</u>							<u>Permits</u>		
45-6-1157	Brown;Cut Inside Cave; RYDE 003	GDA	56	325234	6262680	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	

Report generated by AHIMS Web Service on 17/07/2013 for Darran Jordan for the following area at Datum :GDA, Zone : 56, Eastings : 316729 - 325947, Northings : 6261657 - 6269794 with a Buffer of 0 meters. Additional Info : Background research. Number of Aboriginal sites and Aboriginal objects found is 69

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : 60300684

Client Service ID : 106367

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-1158	Brown Two Ceiling Domes Cave RYDE 004	AGD	56	325274	6262670	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-2163	CF5;Cumberland S.F.;	AGD	56	317926	6262507	Closed site	Valid	Artefact : -	Shelter with Deposit	1776,1779,2114
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0339	Normanhurst;	AGD	56	322450	6267538	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0340	Turramurra;Pennant Hills;	AGD	56	325595	6265678	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0341	Pymble;Turramurra;	AGD	56	325717	6264126	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0342	Asquith;	AGD	56	325528	6269152	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	940
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-2034	English house;	AGD	56	325440	6264850	Closed site	Valid	Artefact : -	Shelter with Deposit	1333
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-2035	Becks place;	AGD	56	325600	6264970	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	1333
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-2041	Darling Mills S.F. 1	AGD	56	317050	6262430	Closed site	Valid	Artefact : -	Shelter with Deposit	1776,1809,1911,2113,2114
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0749	Cherrybrook 5;	AGD	56	317780	6267920	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	1271
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-1768	Cherrybrook	AGD	56	317440	6266920	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	360
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0937	Rogans Hill	AGD	56	319544	6266475	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-6-0938	Rogans Hill;	AGD	56	319870	6266150	Open site	Valid	Art (Pigment or Engraved) : -, Grinding Groove : -	Axe Grinding Groove,Rock Engraving	

Report generated by AHIMS Web Service on 17/07/2013 for Darran Jordan for the following area at Datum :GDA, Zone : 56, Eastings : 316729 - 325947, Northings : 6261657 - 6269794 with a Buffer of 0 meters. Additional Info : Background research. Number of Aboriginal sites and Aboriginal objects found is 69

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : 60300684

Client Service ID : 106367

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0939	Rogans Hill;	AGD	56	317696	6267446	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0940	Rogans Hill;(duplicate copy of 45-3-0940)	AGD	56	319621	6267209	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0941	Rogans Hill;	AGD	56	319811	6266846	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0945	Rogans Hill;Glenhaven;	AGD	56	317410	6268080	Open site	Valid	Grinding Groove : -, Water Hole : -	Axe Grinding Groove,Water Hole/Well	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0946	Rogans Hill;	AGD	56	319983	6267399	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0947	Hornsby;	AGD	56	319238	6268116	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0948	Rogans Hill;Hornsby;	AGD	56	319242	6267933	Closed site	Valid	Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0949	Normanhurst;	AGD	56	320258	6267404	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0950	Rogans Hill;Pyes Ck 3;	AGD	56	318967	6267928	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	764
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0951	Rogans Hill	AGD	56	320172	6267128	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0955	Rogans Hill;	AGD	56	319950	6266200	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-1647	Cherrybrook;Pyes Creek 2;	AGD	56	318950	6268350	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	764,1214
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							

Report generated by AHIMS Web Service on 17/07/2013 for Darran Jordan for the following area at Datum :GDA, Zone : 56, Eastings : 316729 - 325947, Northings : 6261657 - 6269794 with a Buffer of 0 meters. Additional Info : Background research. Number of Aboriginal sites and Aboriginal objects found is 69

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : 60300684

Client Service ID : 106367

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-1649	Pyes Creek 1(Cherry brook)	AGD	56	317620	6267040	Closed site	Valid	Artefact : -	Shelter with Deposit	764,1039
	<u>Contact</u>	<u>Recorders</u>	Doctor.Jo McDonald							
45-6-0304	Pennant Hills;	AGD	56	322503	6264795	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-6-0306	West Pennant Hills;Rogan's Hill;	AGD	56	318523	6267279	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-6-0307	Hornsby;	AGD	56	320860	6269336	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-6-0896	Window Cave;Pennant Hills;	AGD	56	322890	6265450	Closed site	Valid	Artefact : -	Shelter with Deposit	1809
	<u>Contact</u>	<u>Recorders</u>	Val Attenbrow,T Barlow,K Cutmore							
45-6-0897	Normanhurst;	AGD	56	323375	6267007	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-6-1879	Blackfellows Head Spur 2;	AGD	56	321700	6269050	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	R Clegg							
45-6-1880	Blackfellows Head Spur 3;	AGD	56	321700	6269050	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	R Clegg							
45-6-1881	Blackfellows Head Spur 4;	AGD	56	321700	6269050	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	R Clegg							
45-6-1054	Lane Cove;Man Goanna Cave;	AGD	56	325729	6263486	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-6-1073	Hornsby;Black Kangaroo Cave;	AGD	56	321040	6269523	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	580
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-6-1703	Blackfellows Head Spur 4;	AGD	56	321740	6269010	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	Doctor.Jo McDonald							
45-6-1704	Blackfellows Head Spur 3;	AGD	56	321690	6269140	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	Doctor.Jo McDonald							

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : 60300684

Client Service ID : 106367

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-1705	Black Fellows Head Spur 2;	AGD	56	321690	6269080	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	Margrit Koettig,Doctor.Jo McDonald							
45-6-0228	Blackfellow's Head Spur 1;West Leigh;	AGD	56	321700	6269050	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	209
	<u>Contact</u>	<u>Recorders</u>	Doctor.Jo McDonald,M Donald							
45-6-0977	Epping;Lane Cove River; Little bloodwood stump cave RYDE 001	GDA	56	323964	6262130	Closed site	Valid	Artefact : -	Shelter with Deposit	2047
	<u>Contact</u>	<u>Recorders</u>	Val Attenbrow,Aboriginal Heritage Office,Mr.Rick Bullers							
45-6-0978	Lane Cove River;	AGD	56	324729	6263192	Open site	Valid	Grinding Groove : -, Water Hole : -	Axe Grinding Groove,Water Hole/Well	
	<u>Contact</u>	<u>Recorders</u>	Mr.R Taplin							
45-6-2861	FR01	AGD	56	317654	6265123	Open site	Valid	Artefact : 5		
	<u>Contact</u> T Russell	<u>Recorders</u>	Jo McDonald Cultural Heritage Management							
45-6-2892	PHGC 1 (Hills Golf Course)	GDA	56	319880	6263112	Closed site	Valid	Artefact : -		3652
	<u>Contact</u>	<u>Recorders</u>	Mary Dallas Consulting Archaeologists							
45-6-2040	Coups creek;	AGD	56	323570	6265750	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	Val Attenbrow							
45-6-2949	M2A1	GDA	56	323895	6262241	Open site	Valid	Grinding Groove : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Rick Bullers							
45-6-2160	CF1 a b;Cumberland S.F.;	AGD	56	318018	6262574	Closed site	Valid	Art (Pigment or Engraved) : -, Artefact : -	Shelter with Art,Shelter with Deposit	1776,2114
	<u>Contact</u>	<u>Recorders</u>	Mr.Rick Bullers,Ms.Tessa Corkill							
45-6-2161	CF3;Cumberland S. F.;	AGD	56	317123	6262357	Closed site	Valid	Artefact : -	Shelter with Deposit	1776,1779,2113,2114
	<u>Contact</u>	<u>Recorders</u>	Mr.Rick Bullers,Ms.Tessa Corkill							
45-6-2956	Colbarra Place PAD	GDA	56	317200	6263600	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Streat Archaeological Services							
45-6-2990	Zig Zag Creek 01	GDA	56	320196	6267009	Closed site	Valid	Artefact : 2, Hearth : 1		102473
	<u>Contact</u>	<u>Recorders</u>	Mr.Michael Jackson							
45-6-3104	Rothwell Shelter KUR033	GDA	56	325500	6265090	Open site	Valid	Potential Archaeological Deposit (PAD) : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : 60300684

Client Service ID : 106367

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-3067	Crescent 1	GDA	56	322187	6263082	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-3082	NWRL PAD1	GDA	56	320967	6262938	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-3105	Canoon Rd Grooves 1 KUR143	GDA	56	324284	6264100	Open site	Valid	Grinding Groove : -		
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-3042	Eden Ave Groove 1 KUR 052	GDA	56	325374	6262955	Open site	Valid	Grinding Groove : 1		
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-3083	Crescent 3	GDA	56	321842	6263343	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2443	Belvis 4	AGD	56	310500	6264960	Open site	Valid	Artefact : -	Open Camp Site	4153,98740
	<u>Contact</u>	<u>Recorders</u>	Michael Guider							
45-5-2017	Belvis 7 (Bella Vista)	AGD	56	310040	6263800	Open site	Valid	Artefact : -	Open Camp Site	4153,98740
	<u>Contact</u>	<u>Recorders</u>	Michael Guider							
45-5-2018	Belvis 3 (Bella Vista)	AGD	56	310480	6264920	Open site	Valid	Artefact : -	Open Camp Site	4153,98740
	<u>Contact</u>	<u>Recorders</u>	Michael Guider,Ms.Laila Haglund							
45-5-2019	Belvis 2 (Bella Vista)	AGD	56	310520	6264660	Open site	Valid	Artefact : -	Open Camp Site	4153,98740
	<u>Contact</u>	<u>Recorders</u>	Michael Guider,Ms.Laila Haglund							
45-5-2020	Belvis 1 (Bella Vista)	AGD	56	310300	6264780	Open site	Valid	Artefact : -	Open Camp Site	4153
	<u>Contact</u>	<u>Recorders</u>	Michael Guider							
45-5-1064	Toongabbie Creek 2 TC 2	AGD	56	311390	6262500	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	Michael Guider							
45-6-2542	Darling Mills_Creek 6;DMC 6;	AGD	56	315100	6261850	Closed site	Valid	Artefact : -	Shelter with Deposit	2670
	<u>Contact</u>	<u>Recorders</u>	Ms.Tessa Corkill							
45-6-2543	Darling Mills_Creek 7;DMC 7;	AGD	56	315240	6261961	Closed site	Valid	Artefact : -	Shelter with Deposit	2670
	<u>Contact</u>	<u>Recorders</u>	Mr.Rick Bullers,Ms.Tessa Corkill							
45-6-2548	DMC1;DMC 1;	AGD	56	315000	6261890	Closed site	Valid	Artefact : -	Shelter with Deposit	2670
	<u>Contact</u>	<u>Recorders</u>	Ms.Tessa Corkill							
45-5-0887	See 45-6-2549;	AGD	56	315400	6262850	Closed site	Valid	Artefact : -	Shelter with Deposit	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-5-0888	See 45-6-2550;	AGD	56	315480	6263070	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS							
45-5-2408	Bella Vista 2;	AGD	56	310500	6264600	Open site	Valid	Artefact : -	Open Camp Site	98740
	<u>Contact</u>	<u>Recorders</u>	Helen Brayshaw,Ms.Laila Haglund							
45-5-2409	Bella Vista 3;	AGD	56	310560	6264260	Open site	Valid	Artefact : -	Open Camp Site	98740
	<u>Contact</u>	<u>Recorders</u>	Helen Brayshaw,Ms.Laila Haglund							
45-5-2295	Toongabbie 1;	AGD	56	312890	6259630	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	102742
	<u>Contact</u>	<u>Recorders</u>	Doctor.Jo McDonald							
45-5-2296	Toongabbie 2;	AGD	56	313300	6259360	Closed site	Valid	Artefact : -	Shelter with Deposit	102742
	<u>Contact</u>	<u>Recorders</u>	Doctor.Jo McDonald							

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2297	Toongabbie 3;	AGD	56	313100	6259450	Open site	Valid	Shell : -, Artefact : -	Midden	102742
	Contact	Recorders	Doctor.Jo McDonald					Permits	502	
45-6-1886	William Place Shelters;	AGD	56	315600	6260100	Closed site	Valid	Artefact : -	Shelter with Deposit	1566,102196
	Contact	Recorders	R Mackay					Permits		
45-6-1887	Grinding Groove. Perry Street Groove.;Reserve;	AGD	56	316100	6261200	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1566,1776
	Contact	Recorders	R Mackay					Permits		
45-5-0970	Toongabbie Ck 1	AGD	56	311110	6261770	Open site	Valid	Artefact : -	Open Camp Site	2832,3832,102742
	Contact	Recorders	John Edgar					Permits	610,682	
45-5-0973	Powers Lane 4;PL-4;	AGD	56	309850	6264400	Open site	Valid	Artefact : -	Open Camp Site	98740
	Contact	Recorders	Denis Byrne,Tony Kondek					Permits	616	
45-6-2549	DMC2;DMC 2;	AGD	56	315400	6262850	Closed site	Valid	Artefact : -	Shelter with Deposit	2670
	Contact	Recorders	Ms.Tessa Corkill					Permits		
45-6-2550	DMC3;DMC 3;	AGD	56	315480	6263070	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2670
	Contact	Recorders	Ms.Tessa Corkill					Permits		
45-6-2553	Lake Parra R1;LP R1;	AGD	56	315640	6258780	Open site	Valid	Artefact : -	Open Camp Site	102196
	Contact	Recorders	Michael Guider					Permits		
45-6-2560	Lake Parra R2;LP R2;	AGD	56	315500	6258780	Open site	Valid	Artefact : -	Open Camp Site	102196
	Contact	Recorders	Michael Guider					Permits	2928	
45-5-1084	Matthew Pearce 1;	AGD	56	311620	6262600	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Michael Guider					Permits		
45-5-1085	Matthew Pearce 2;	AGD	56	311250	6262500	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Michael Guider					Permits		
45-5-1086	Vardys Road;	AGD	56	309140	6262740	Open site	Valid	Artefact : -	Open Camp Site	98740
	Contact	Recorders	Michael Guider					Permits		
45-5-1087	Vardys Road PS;	AGD	56	309340	6262700	Open site	Valid	Artefact : -	Open Camp Site	98740
	Contact	Recorders	Michael Guider					Permits		
45-5-1088	Foundry Road;	AGD	56	310500	6261620	Open site	Valid	Artefact : -	Open Camp Site	98740,102742
	Contact	Recorders	Michael Guider					Permits		
45-5-1089	Crestwood 1;	AGD	56	312120	6264180	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Michael Guider					Permits		
45-5-1090	Grantham Reserve;	AGD	56	308060	6259240	Open site	Valid	Artefact : -	Open Camp Site	

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Permits							
45-5-1091	Chopin Street;	AGD	56	310280	6261700	Open site	Valid	Artefact : -	Open Camp Site	98740,102742
	Contact	Recorders	Permits							
45-5-0348	Grantham Creek 1 Grantham Poultry Research Station	AGD	56	308320	6259710	Open site	Valid	Artefact : -	Open Camp Site	260,1018
	Contact	Recorders	Permits							
45-5-0935	Powers Lane 1;	AGD	56	309610	6264050	Open site	Valid	Artefact : -	Open Camp Site	98740
	Contact	Recorders	Permits							
45-5-0936	Powers Lane 2;	AGD	56	309640	6263790	Open site	Valid	Artefact : -	Open Camp Site	98740
	Contact	Recorders	Permits							
45-5-0937	Powers Lane 3;	AGD	56	309440	6263780	Open site	Valid	Artefact : -	Open Camp Site	98740
	Contact	Recorders	Permits							
45-6-2579	Crestwood 2;	AGD	56	311720	6263680	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Permits							
45-5-1092	Tory Burns Reserve;	AGD	56	312880	6262780	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Permits							
45-5-1093	Mitchell High School;	AGD	56	306880	6259640	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Permits							
45-5-1098	Blacktown Creek;	AGD	56	307040	6259680	Open site	Valid	Artefact : -, Stone Quarry : -	Open Camp Site,Quarry	
	Contact	Recorders	Permits							
45-5-1104	Belvis 5	AGD	56	311220	6264660	Open site	Valid	Artefact : -	Open Camp Site	4153
	Contact	Recorders	Permits							
45-5-1105	Belvis 6	AGD	56	311180	6264240	Open site	Valid	Artefact : -	Open Camp Site	4153
	Contact	Recorders	Permits							
45-5-1108	Louise Ave;	AGD	56	312520	6262750	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Permits							
45-5-1109	Delaney Drive	AGD	56	312520	6264720	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	102196
	Contact	Recorders	Permits							
45-5-1110	Redbank;Northmead;	AGD	56	314020	6258060	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	102196
	Contact	Recorders	Permits							
45-6-2162	CF4 a b;Cumberland S.F.;	AGD	56	315701	6262054	Closed site	Valid	Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Deposit	1776,1779,211 3,2114
	Contact	Recorders	Permits							
		Mr.Rick Bullers,Ms.Tessa Corkill								

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-0962	OWR 7;Rouse Hill; Contact	AGD	56	309550	6264950	Open site	Valid	Artefact : - Permits	Open Camp Site 433	98740
45-5-0963	OWR 8;Rouse Hill; Contact	AGD	56	309700	6264510	Open site	Valid	Artefact : - Permits	Open Camp Site 432,1383	98740
45-5-0842	Toongabbie Creek 3 Old Toongabbie Contact	AGD	56	313550	6259290	Open site	Valid	Artefact : - Permits	Open Camp Site	102742
45-5-0843	Finalysons Creek;Wentworthville; Contact	AGD	56	313040	6257910	Open site	Valid	Grinding Groove : - Permits	Axe Grinding Groove	102196
45-5-0871	Toongabbie CK 14;Baulkham Hills; Contact	AGD	56	311390	6262490	Open site	Valid	Grinding Groove : - Permits	Axe Grinding Groove	
45-5-0886	See 45-6-2548; Contact	AGD	56	315000	6261890	Closed site	Valid	Artefact : - Permits	Shelter with Deposit	
45-6-2036	Lake Parramatta 2 Contact	AGD	56	315710	6258920	Closed site	Valid	Art (Pigment or Engraved) : - Permits	Shelter with Art	102196
45-6-1781	Lake Parramatta Reserve Shelter; Contact	AGD	56	315650	6259250	Closed site	Valid	Art (Pigment or Engraved) : - Permits	Shelter with Art	102196
45-6-0923	Darling Mills Creek;Parramatta; Contact	AGD	56	315190	6261310	Closed site	Valid	Artefact : - Permits	Shelter with Deposit	1776
45-6-0924	Darling Mills Creek;Parramatta Contact	AGD	56	315799	6261555	Closed site	Valid	Art (Pigment or Engraved) : - Permits	Shelter with Art	1776
45-5-0824	Moxhams Road Cave; Contact	AGD	56	313926	6260011	Closed site	Valid	Artefact : 8 Permits	Shelter with Deposit	102742
45-5-0835	Toongabbie Cave;Old Toongabbie; Contact	AGD	56	313210	6259450	Closed site	Valid	Artefact : - Permits	Shelter with Deposit	102742
45-5-0839	Greystanes Creek 1;Toongabbie; Contact	AGD	56	308810	6258350	Open site	Valid	Artefact : - Permits	Open Camp Site	
45-5-0840	Greystanes Creek 2;Toongabbie; Contact	AGD	56	308750	6258130	Open site	Valid	Artefact : - Permits	Open Camp Site	

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-0841	Toongabbie Creek 4 Winston Hills	AGD	56	312890	6259660	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	102742
	<u>Contact</u>								<u>Permits</u>	
45-5-0791	Toongabbie creek	AGD	56	311410	6260170	Open site	Valid	Artefact : -	Open Camp Site	102742
	<u>Contact</u>								<u>Permits</u>	
45-5-0792	John Curtin Reserve, Northmead;	AGD	56	314069	6260281	Closed site	Valid	Artefact : -	Shelter with Deposit	1809,2047
	<u>Contact</u>								<u>Permits</u>	
45-5-0492	Bella Vista 1	AGD	56	310030	6264790	Open site	Valid	Artefact : -	Open Camp Site	945,1018,2499, 98740
	<u>Contact</u>								<u>Permits</u>	
45-5-2712	PAD-05-19	AGD	56	309250	6263790	Open site	Valid	Artefact : -		98740
	<u>Contact</u>								<u>Permits</u>	
45-5-2713	PAD-05-18	AGD	56	308800	6264190	Open site	Valid	Artefact : -		98740
	<u>Contact</u>								<u>Permits</u>	
45-5-2774	Bella Vista 5	AGD	56	309945	6265025	Open site	Valid	Artefact : -		98740
	<u>Contact</u>								<u>Permits</u>	
45-5-2903	356 OWR	AGD	56	311200	6260350	Open site	Valid	Artefact : -		99516,102742
	<u>Contact</u>								<u>Permits</u>	
45-5-3288	BVFP3	GDA	56	310540	6264494	Open site	Valid	Artefact : 1		
	<u>Contact</u> Searle								<u>Permits</u>	
45-5-3289	BVFP1	GDA	56	310424	6264996	Open site	Valid	Artefact : 2		
	<u>Contact</u> Searle								<u>Permits</u>	
45-5-3290	BVFP2	GDA	56	310313	6264839	Open site	Valid	Artefact : 2		
	<u>Contact</u> Searle								<u>Permits</u>	
45-5-3291	BVFP4	GDA	56	310293	6264613	Open site	Valid	Artefact : 1		
	<u>Contact</u> Searle								<u>Permits</u>	
45-5-2970	Moxhams Road Bridge	AGD	56	313817	6259968	Closed site	Valid	Potential Archaeological Deposit (PAD) : 5		102742
	<u>Contact</u>								<u>Permits</u>	
45-5-2971	The Fernbanks	AGD	56	313771	6259863	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		102742
	<u>Contact</u>								<u>Permits</u>	
45-5-3081	OWR 8	AGD	56	309710	6264490	Open site	Valid	Artefact : 1		
	<u>Contact</u> T Russell								<u>Permits</u>	

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AHIMS Web Services (AWS)

Extensive search - Site list report

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Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-2805	Lake Parramatta Playground 1	AGD	56	315572	6259151	Open site	Valid	Artefact : -		102196
	Contact Searle	Recorders	Jim Wheeler					Permits	2525	
45-5-3192	PL-OS-1	AGD	56	309040	6263940	Open site	Valid	Artefact : 3		
	Contact T Russell	Recorders	Mrs.Robynne Mills					Permits		
45-5-3193	ML-OS-2	AGD	56	309170	6264000	Open site	Valid	Artefact : 8		
	Contact T Russell	Recorders	Mrs.Robynne Mills					Permits		
45-5-3194	ML-OS-1	AGD	56	309610	6264440	Open site	Valid	Artefact : 4		
	Contact T Russell	Recorders	Mrs.Robynne Mills					Permits		
45-5-3195	ML-OS-3	AGD	56	309460	6264320	Open site	Valid	Artefact : 3		
	Contact T Russell	Recorders	Mrs.Robynne Mills					Permits		
45-5-3196	PL-OS-2	AGD	56	309220	6264090	Open site	Valid	Artefact : 8		
	Contact T Russell	Recorders	Mrs.Robynne Mills					Permits		
45-5-3323	Western Sydney PAD4	GDA	56	310500	6260350	Open site	Valid	Potential Archaeological Deposit (PAD) : -		100554,10274 2
	Contact Searle	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-3336	Quarry Branch 1	GDA	56	314464	6260821	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	Jo McDonald Cultural Heritage Management					Permits		
45-5-3337	Quarry Branch 2	GDA	56	314448	6260803	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	Jo McDonald Cultural Heritage Management					Permits		
45-5-3338	Quarry Branch 3	AGD	56	314349	6260745	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	Jo McDonald Cultural Heritage Management					Permits		
45-5-3339	Quarry Branch 4	GDA	56	314305	6260783	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	Jo McDonald Cultural Heritage Management					Permits		
45-5-3340	Quarry Branch 5	GDA	56	314185	6260714	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	Jo McDonald Cultural Heritage Management					Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-3341	Quarry Branch 6	GDA	56	314002	6260763	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		102742
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3342	Quarry Branch	GDA	56	314082	6260683	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		102742
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3343	Quarry Branch 8	GDA	56	314162	6260659	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3344	Quarry Branch 9	GDA	56	314181	6260406	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3345	Quarry Branch 10	GDA	56	314101	6260345	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		102742
	<u>Contact</u> Searle	<u>Recorders</u>	J & M Cook Engineering Services <u>Permits</u>							
45-5-3346	Quarry Branch 11	GDA	56	314173	6260191	Open site	Valid	Water Hole : 1		
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3347	Quarry Branch 12	GDA	56	314188	6260156	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3348	Quarry Branch 13	GDA	56	313978	6260064	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		102742
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3349	Quarry Branch 14	GDA	56	313744	6259675	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : -		102742
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							
45-5-3350	Quarry Branch 15	GDA	56	314214	6260521	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u> Searle	<u>Recorders</u>	Jo McDonald Cultural Heritage Management <u>Permits</u>							

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref Number : F3-M2

Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-3351	GC01 and TC02	AGD	56	312241	6263096	Open site	Valid	Artefact : 3, Potential Archaeological Deposit (PAD) : -		
	Contact T Russell	Recorders Jo McDonald Cultural Heritage Management						Permits		
45-5-3352	TC03	AGD	56	311704	6262423	Closed site	Valid	Potential Archaeological Deposit (PAD) : -, Non-Human Bone and Organic Material : -, Shell : -		
	Contact T Russell	Recorders J & M Cook Engineering Services						Permits		
45-5-3353	TC04 and CR01	AGD	56	311912	6264308	Open site	Valid	Artefact : 2		
	Contact T Russell	Recorders Jo McDonald Cultural Heritage Management						Permits		
45-5-3552	TC (Toongabbie Creek)	GDA	56	311289	6260227	Open site	Valid	Modified Tree (Carved or Scarred) : -		99516,102742
	Contact	Recorders Michael Therin						Permits		
45-5-3686	Blacktown Ck 3	GDA	56	306900	6260200	Open site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-5-3687	Blacktown Ck 4	GDA	56	306750	6258650	Open site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-5-3688	Blactown Ck 5	GDA	56	306690	6258100	Open site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-5-3693	Model Farms Reserve	GDA	56	314200	6260400	Open site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-5-3694	Yarrabee Cave	GDA	56	314120	6260620	Closed site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-6-2931	Lake Parra R3	GDA	56	315820	6258820	Open site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-5-3695	Lake Parra R4	GDA	56	313700	6259050	Open site	Valid	Artefact : -		102742
	Contact	Recorders Michael Guider						Permits		
45-6-2932	Lake Parra R5	GDA	56	315700	6259050	Closed site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-6-2933	Belmore Park	GDA	56	315310	6258130	Open site	Valid	Artefact : -		
	Contact	Recorders Michael Guider						Permits		
45-5-3696	Valerie Avenue	GDA	56	311150	6262100	Open site	Valid	Artefact : -		102742
	Contact	Recorders Michael Guider						Permits		

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AHIMS Web Services (AWS)

Extensive search - Site list report

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Client Service ID : 118838

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-3703	Kings Langley 1	GDA	56	309840	6263990	Open site	Valid	Artefact : -		
	Contact	Recorders	Michael Guider					Permits		
45-5-3704	Kings Langely 2	GDA	56	309840	6263960	Open site	Valid	Burial : -		
	Contact	Recorders	Michael Guider					Permits		
45-5-3705	Kings Langley 3	GDA	56	310100	6263350	Open site	Valid	Artefact : -		
	Contact	Recorders	Michael Guider					Permits		
45-5-3706	Kings Langley 4	GDA	56	309850	6264000	Open site	Valid	Artefact : -		
	Contact	Recorders	Michael Guider					Permits		
45-5-3707	Kings Langley 5	GDA	56	309350	6263650	Open site	Valid	Artefact : -		
	Contact	Recorders	Michael Guider					Permits		
45-6-2946	Bidjigal Scarred Tree DCAC	GDA	56	315650	6262536	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	Recorders	ARC - Andrew Roberts Consulting					Permits		
45-6-2947	Bidjigal Shelter DCAC	GDA	56	315707	6262265	Open site	Valid	Artefact : 1		
	Contact	Recorders	ARC - Andrew Roberts Consulting					Permits		
45-6-2544	Darling Mills_Creek 8;DMC 8;	AGD	56	315245	6261962	Closed site	Valid	Artefact : -	Shelter with Deposit	2670
	Contact	Recorders	Mr.Rick Bullers,Ms.Tessa Corkill					Permits		
45-5-4106	Oakes Road PAD	GDA	56	312442	6260234	Open site	Valid	Artefact : 31, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Mr.Paul Irish,Ms.Tamika Goward					Permits	3486,3523	

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Appendix C

Archaeological scientific ratings

Appendix C Archaeological scientific ratings

Table 8 Ground surface visibility (GSV rating scheme)

GSV rating	% GSV
Very poor	0-10%
Poor	11-30%
Fair	31-50%
Good	51-70%
Very good	71-90%
Excellent	91-100%

Table 9 Ground integrity (GI) rating scheme

GI rating	Definition
Low	Area has been subject to significant disturbance through natural and/or anthropogenic processes (e.g., heavy earthworks).
Moderate	Area has been subject to moderate disturbance (e.g., native vegetation clearance) but retains a reasonable degree of integrity.
High	Area remains in a natural or near-natural state.

Table 10 Archaeological sensitivity rating scheme

Rating	Definition
Nil	Land with no potential for subsurface archaeological deposit(s) due to past ground disturbance(s).
Low	Subsurface archaeological deposit(s) may be present. Relative to areas of high sensitivity, lower artefact counts, densities and assemblage richness values expected. Integrity of deposit(s) will be dependent on the nature of localised land disturbances.
High	Subsurface archaeological deposit(s) likely to be present. Relative to areas of low sensitivity, higher artefact counts, densities and assemblage richness values expected. Integrity of deposit(s) will be dependent on the nature of localised land disturbances.

Table 11 Impact risk rating scheme

Impact risk	Definition
Low	The proposed activity is unlikely to disturb, destroy, damage or deface an Aboriginal object or objects.
Moderate	The proposed activity has reasonable potential to disturb, destroy, damage or deface an Aboriginal object or objects.
High	The proposed activity will - or is highly likely to - disturb, destroy, damage or deface an Aboriginal object or objects.



carbon
neutral



australian
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