

FINAL

September 2022

KURRI KURRI LATERAL PIPELINE PROJECT

Aboriginal Cultural Heritage Assessment Addendum

FINAL

Prepared by
Umwelt (Australia) Pty Limited
on behalf of
APA Group

Project Director: Paul Douglass
Project Manager: Marion O'Neil
Technical Director: Janice Wilson
Technical Manager: Alison Fenwick
Report No. 21450/R07
Date: September 2022



75 York Street Teralba NSW 2284





Acknowledgement of Country

Umwelt would like to acknowledge the traditional custodians of the country on which we work and pay respect to their cultural heritage, beliefs, and continuing relationship with the land. We pay our respect to the Elders – past, present, and future.

Disclaimer

This document has been prepared for the sole use of the authorised recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that for which it was supplied by Umwelt (Australia) Pty Ltd (Umwelt). No other party should rely on this document without the prior written consent of Umwelt.

Umwelt undertakes no duty, nor accepts any responsibility, to any third party who may rely upon or use this document. Umwelt assumes no liability to a third party for any inaccuracies in or omissions to that information. Where this document indicates that information has been provided by third parties, Umwelt has made no independent verification of this information except as expressly stated.

©Umwelt (Australia) Pty Ltd

Document Status

Rev No.	Revi	ewer	Approved for Issue		
	Name	Date	Name	Date	
V1	Jan Wilson	19/08/2022	Jan Wilson	19/08/2022	
V2	Ryan Desic	28/09/2022	Ryan Desic	28/09/2022	



3

34

55

Table of Contents

1.0	Intro	1					
	1.1	Backgr	ound	2			
2.0	Abor	Aboriginal Party Consultation					
	2.1	Aborig	ginal Party Participation in Survey	13			
	2.2	Outcor	mes of In-field Consultation	13			
	2.3	Consul	ltation Regarding the Draft Addendum	13			
3.0	Surv	ey Meth	nodology	14			
4.0	Resu	lts		15			
	4.1	Inform	nation Provided by Registered Aboriginal Parties	15			
	4.2	Descrip	ption of Survey Units	15			
	4.3	Previo	usly Recorded Archaeological Sites	40			
		4.3.1	KK10	40			
		4.3.2	KK11	40			
		4.3.3	KK12	40			
	4.4	Newly	Recorded Aboriginal Sites	46			
		4.4.1	Areas of Archaeological Potential	46			
	4.5	Discus	sion	49			
5.0	Signi	ficance	Assessment	50			
6.0	Impa	act Asses	ssment	51			
	6.1	Results	s of Project Footprint Variations	53			
	6.2	Impact	t to Aboriginal Cultural Values	54			
7.0	Man	agemen	t and Mitigation Strategies	61			
8.0	Reco	mmend	lations and Mitigation Methodologies	62			
9.0	Refe	rences		63			
Fig	ures))					

Figure 1.1A-F

Figure4.1A-F

Figure 6.1A-F

Updated Project Footprint

Location of Survey Units and survey tracks

Potential Archaeological Deposits (PADs) subject to impact



Photos

Photo 4.1	Unnamed tributary intersecting SU11. View approximately north	21
Photo 4.2	Overview of the gentle inclination slope within SU11, to an elevated crest. View	
	approximately north	21
Photo 4.3	Seldomly used access track within SU12, areas of exposure visible. View approxima	tely
	north	22
Photo 4.4	SU12 crest landform. View approximately west	22
Photo 4.5	SU13 juvenile vegetation, adjacent to Four Mile Creek. View approximately north-	east 23
Photo 4.6	Moderately steep inclination within SU13. View approximately north-east	23
Photo 4.7	Prior disturbance visible within SU14, view approximately north-east	24
Photo 4.8	Actively utilised access road within SU14, view approximately north	24
Photo 4.9	SU15 remnant mature vegetation, view approximately south-west	25
Photo 4.10	SU15 minor tributary with gently sloping landform on western bank. View approxir	nately
	north	25
Photo 4.11	Evident vegetation clearance within SU16, east of Buchanan Road	26
Photo 4.12	Gently sloping landform within SU16, view approximately north-east	26
Photo 4.13	SU17 adjacent to Buttai Creek and Buchanan Road, view approximately north	27
Photo 4.14	SU17 adjacent to Buttai Creek and flood plain, view approximately north-west	27
Photo 4.15	Vegetation remaining within SU18, view approximately north-east	28
Photo 4.16	Steep decline to unnamed water course, intersecting SU18. View approximately no	rth-
	east	28
Photo 4.17	Extensive grass growth and vegetation coverage within SU19, view approximately i	north-
	east	29
Photo 4.18	SU19 access track with small area of exposure, illustrating extent of vegetation gro	wth.
	View approximately south-east	29
Photo 4.19	SU20 elevated landform adjacent to Buttai Creek. Small area of exposure caused by	У
	contemporary site use. View approximately east	30
Photo 4.20	SU20 overview, illustrating existing access track and the gently sloping landform. V	iew
	approximately south	30
Photo 4.21	Overview of the SU20 area, showing the gently sloping landform. Buttai Creek in th	ıe
	background. View approximately south-east	31
Photo 4.22	SU21 declining landform, Main Road in the background. View approximately east	31
Photo 4.23	Overview of SU21 area, showing the gently sloping landform to Testers Hollow. Vie	ew.
	approximately south-east	32
Photo 4.24	Extent of disturbance within SU22 associated with the Southern Maitland Railway.	View
	approximately north-west	32
Photo 4.25	Area of exposure along existing access track within SU22. Note the steep embankm	nent
	either side of the railway line. View approximately east	33
Photo 4.26	AHIMS #37-6-3065 Hydro-AS22-14 red silcrete flake	42
Photo 4.27	AHIMS #37-6-3065 Hydro-AS22-14 yellow silcrete flake	43
Photo 4.28	Evidence of recent vehicle use through Hydro-AS22-14	44
Photo 4.29	Landscape overview of AHIMS #37-6-1958 KK10	44



Photo 4.30	Landscape south of access track, indicative location of AHIMS #37-6-1959 KK11	45
Photo 4.31	Landscape south of access track, indicative location of AHIMS #37-6-1960 KK12	45
Photo 4.32	KKLP PAD10 adjacent to unnamed tributary of Buttai Creek, as shown by dense	
	vegetation growth	47
Photo 4.33	KKLP PAD10 landform overview, highlighting the gently sloping decline to unnamed	
	tributary of Buttai Creek	48
Photo 4.34	View of the surrounding landscape from KKLP PAD10, view approximately north-west	48

Tables

Table 2.1	Summary of Additional RAP consultation for the KKLP Project	10
Table 2.2	Aboriginal Party Participation in Survey	13
Table 4.1	Survey Units within the modified Study Area	16
Table 4.2	Previously Recorded Archaeological Site Details	41
Table 6.1	Aboriginal sites at risk of impact	51

Appendices

Appendix 1 AHIMS Search Results

Appendix 2 Aboriginal Party Consultation



1.0 Introduction

Umwelt has been engaged by APA Group (APA) to prepare an Aboriginal Cultural Heritage Assessment (ACHA) as part of the Environmental Impact Statement (EIS) for the Kurri Kurri Lateral Pipeline (KKLP) Project.

The ACHA was prepared in accordance with the requirements of the Planning Secretary's Environmental Assessment Requirements (SEARs) for the Project, *National Parks and Wildlife Act 1974*, *National Parks and Wildlife Regulation 2019* (NPW Regulation), the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH, 2011), with all consultation undertaken in accordance with Clause 60 of the *NPW Regulation and the Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010a) (the consultation requirements). The ACHA incorporated required archaeological technical information in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010c) (the Code of Practice).

The draft ACHA Report (ACHAR) was made available to the registered Aboriginal Parties (RAPs) for review and feedback between January and February 2022. Responses received from RAPs were incorporated into the final ACHAR which was lodged with the NSW Department of Planning and Environment (DPE) in March 2022 as part of the EIS. The EIS was on public exhibition between April and May 2022. A submission was received from Heritage NSW in relation to the ACHAR, which has been addressed in the Submissions Report prepared separately by Umwelt.

Following the receipt of submissions during the EIS exhibition and ongoing consultation with affected landholders, several changes to the Project construction footprint were required. This resulted in 12 discrete new areas along the proposed construction footprint, or alternatives under consideration, that were not assessed or fully covered in the ACHA. This report assesses the impacts of these changes.

Additional surveys were conducted during June and August 2022 to cover these new areas. Three options for the transmission pipeline alignment adjacent to Buchanan Road were surveyed, prior to selection of the final alignment. The updated Project footprint is illustrated in **Figure 1.1A** to **1.1F**. Additional surveys were carried out with RAPs that previously completed an Expression of Interest for the Project.

This addendum report compares the currently proposed impact to Aboriginal heritage to those identified within the EIS assessment. This report should be read in conjunction with the previous investigations documented in the ACHAR and EIS and does not reproduce the background information or legislative context.

The draft of this addendum report was provided to the RAPs for review and comment on 23 August 2022, with a 28 day review period. It was asked that the RAPs provide information on the cultural significance of the area and of any sites located in the area, for inclusion in the final addendum report.

Responses were received by four of the representative groups, Didge Ngunawal Clan, Lower Hunter Aboriginal Incorporated and Kawul Pty Ltd (trading as Wonn1). Two parties (Lower Hunter Aboriginal Incorporated and Wonn 1) advised that they had no comments to make at this stage and agreed with the draft Addendum ACHA.



1.1 Background

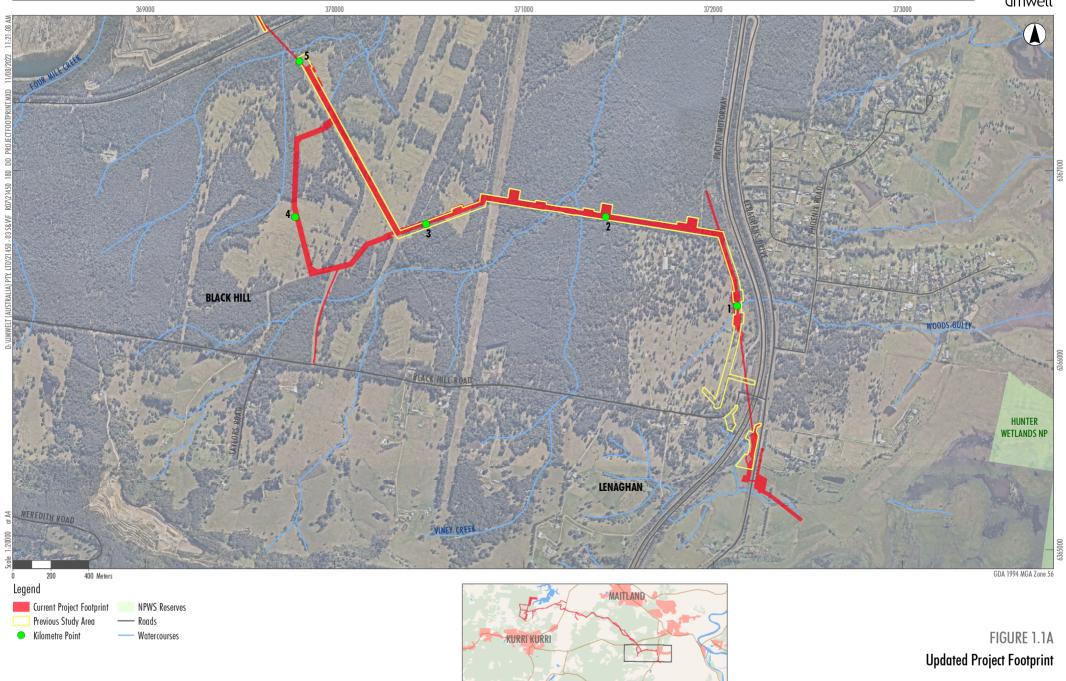
The environmental, cultural and legislative context for the Kurri Kurri Lateral Pipeline Project is documented in the Aboriginal Cultural Heritage Assessment (ACHA) report (Umwelt, 2022).

An updated search of the AHIMS register was completed on 3 June 2022. The AHIMS search area encompassed the entirety of the project footprint, however, varied from that originally undertaken (see **Section 4.3** of the ACHA). In total 162 Aboriginal sites were identified. The majority of sites (87%) are associated with stone artefacts (including artefact scatters, isolated finds, Potential Archaeological Deposit (PAD) and grinding grooves), with the next prevalent site type (8.6%) being Potential Archaeological Deposits (PAD). The search results are attached in **Appendix 1**.

The background information presented in the ACHAR remains relevant for understanding the potential for archaeological material to be present and the predictive model developed for the Project applies to the additional survey areas, specifically:

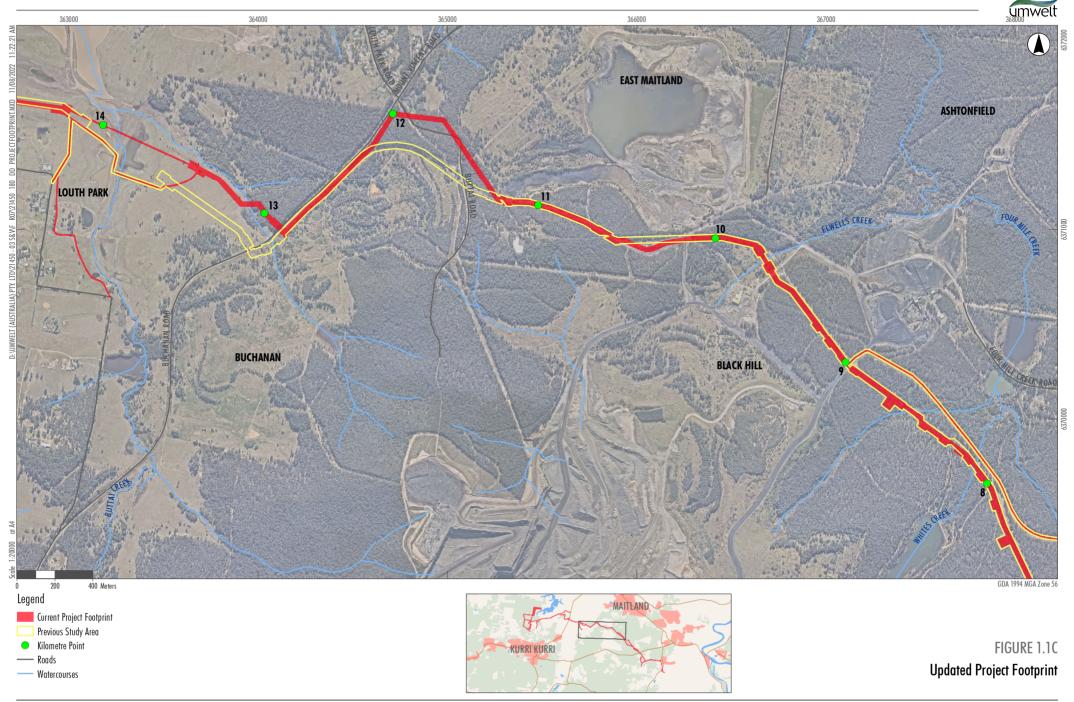
- Stone artefact scatters/isolated artefacts may be present throughout the survey area. These sites are considered most likely to occur in proximity to the key watercourses in the area, namely Woods Gully, Buttai Creek, Wallis Creek, Swamp Creek, Wentworth Swamp and, to a lesser extent, Black Waterholes Creek. These sites will be most common on elevated landforms and/or near level lower slopes with direct access to these key water resources. Based on the outcomes of previous archaeological excavations and oral history records, Hexham Swamp, the Wallis Creek floodplain and Wentworth Swamp were key areas by which Aboriginal people camped repeatedly and/or for longer duration. On this basis, the low inclination landforms within the current study area that border these watercourses have the potential to contain moderate to high densities of stone artefacts, either surface or subsurface, depending on the extent of disturbance. Site along other riparian corridors have the potential to contain low to moderate densities of artefacts. Stone artefacts are most likely to have been manufactured from silcrete, mudstone or tuff, with tuff expected to be most common for sites associated with Hexham Swamp and Wallis Creek. Artefact assemblages in sites bordering swamps/wetlands are likely to include evidence of manufacture and/or discard of backed artefacts, however this may vary depending on location. The integrity of sites of this type may have been impacted by a variety of factors including land clearance, erosion, and installation of existing infrastructure.
- Scarred trees may occur anywhere within the survey area where mature trees exceeding 150-200 years
 in age remain extant. Based on the level of historical land use across the study area, it is predicted that
 scarred trees will be rare.
- Based on the nature of geological units within the study area, it is possible that grinding groove sites
 may be present along creek lines where suitable sandstone outcrops. However, based on the
 distribution of sites of this type in the local area, this is considered unlikely.
- Burials may occur within the study area, particularly in alluvial deposits. However, based on the lack of evidence for burials in the local area, this is highly unlikely.

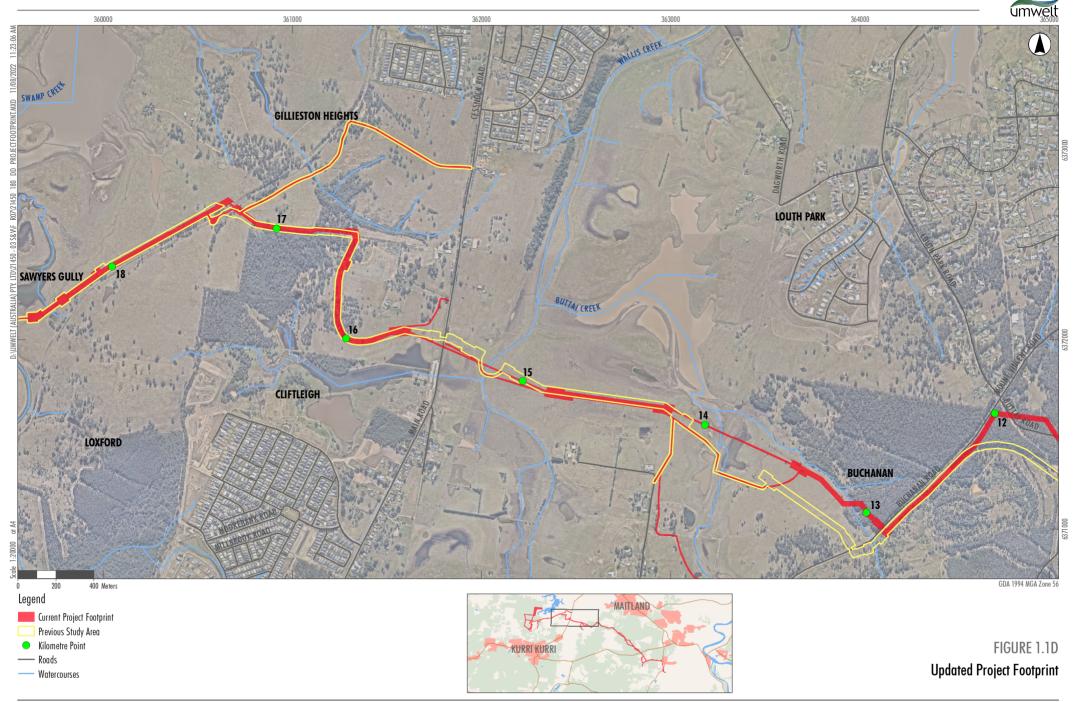


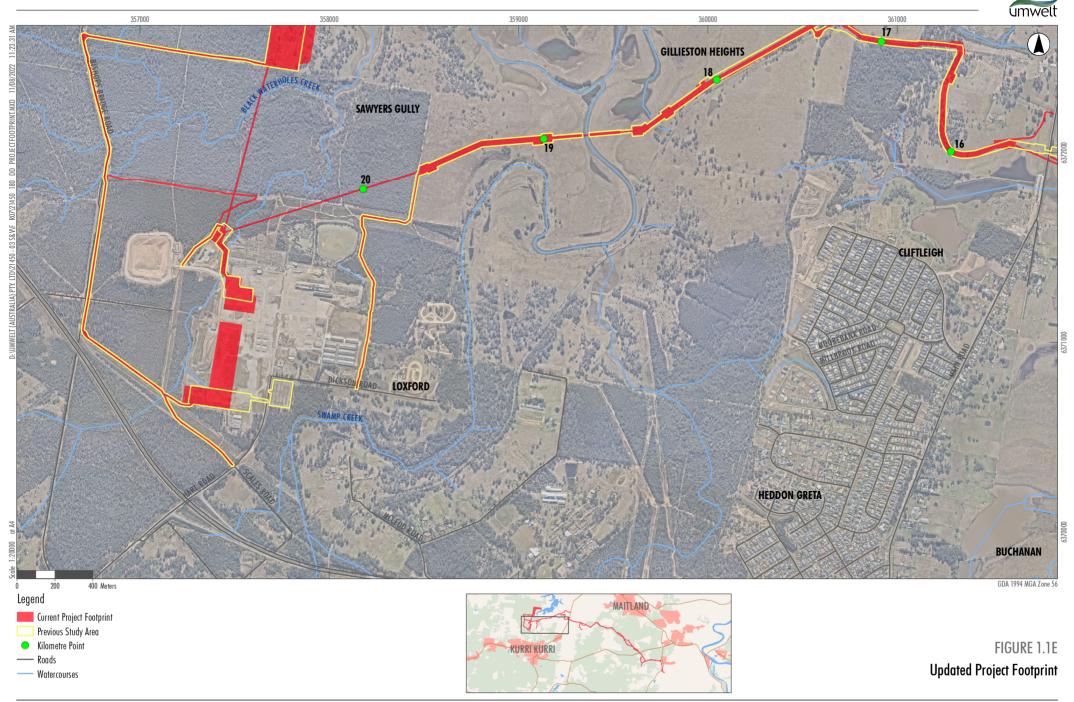




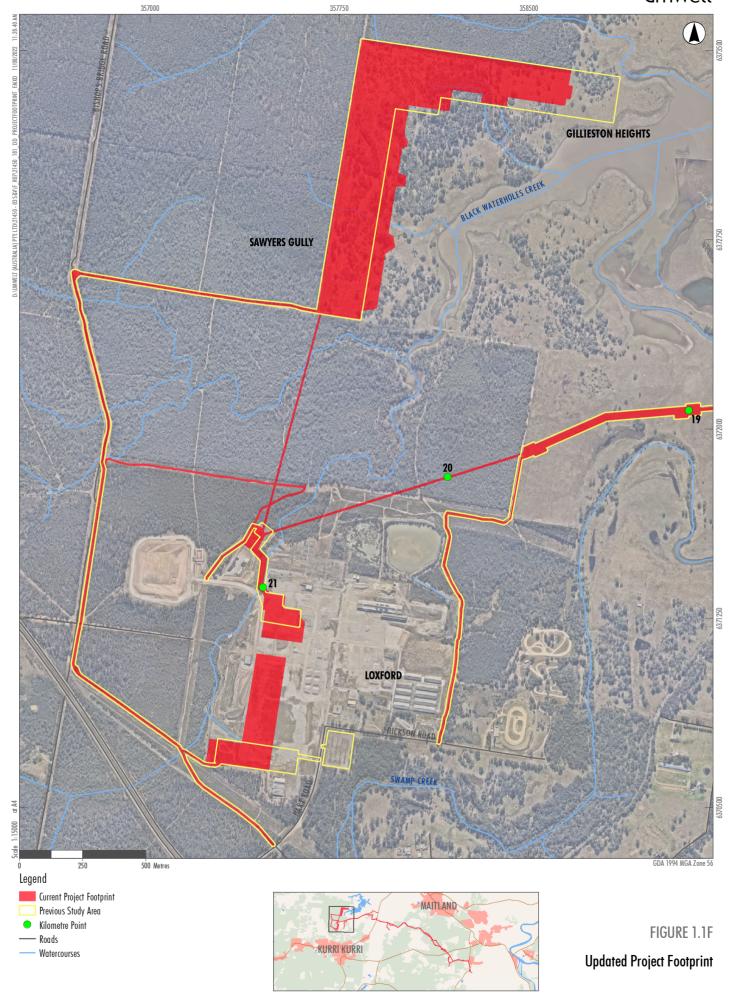














2.0 Aboriginal Party Consultation

As the survey is a continuation of the existing KKLP Project, the Registered Aboriginal Parties (RAPs) for the ACHA (refer to ACHA **Section2.1**) apply to this survey. RAPs who were engaged for the Project based on the Expression of Interest process undertaken for the Project (refer to ACHA **Table 2.1**) were contacted advising of the additional survey requirements and requesting participation. **Table 2.1** outlines the details of the additional consultation for the Project. Details of the consultation can be found in **Appendix 2**.



Table 2.1 Summary of Additional RAP consultation for the KKLP Project

Date	Consultation Type	Organisation	Response
23 May 2022	Email with details on additional	Culturally Aware	Response received confirming attendance for additional survey work.
	survey and request for representative for fieldwork. Follow up by email and phone as	Kawul Pty Ltd trading as Wonn1 Sites	Response received confirming attendance for additional survey work.
	required	Mindaribba LALC	Response received confirming attendance for additional survey work.
		Tocomwall Pty Ltd	Response received confirming attendance for additional survey work.
		Wonnarua Nation Aboriginal Corporation	Unable to provide representative for survey.
6-8 June 2022	In field consultation during survey	Culturally Aware	Refer to Section 4.1
		Kawul Pty Ltd trading as Wonn1 Sites	
		Mindaribba LALC	
		Tocomwall Pty Ltd	
28 July 2022	Email with details on additional	Culturally Aware	Response received confirming attendance for additional survey work.
	survey and request for representative for fieldwork. Follow up by email and phone as	Kawul Pty Ltd trading as Wonn1 Sites	Response received confirming attendance for additional survey work.
	required	Mindaribba LALC	Response received confirming attendance for additional survey work.
		Tocomwall Pty Ltd	Response received confirming attendance for additional survey work.



Date	Consultation Type	Organisation	Response
		Wonnarua Nation Aboriginal Corporation	No representative available for survey
21 and 28 July 2022	Email with details on additional	Culturally Aware	Response received confirming attendance for additional survey work.
	survey and request for representative for fieldwork. Follow up by email and phone as	Kawul Pty Ltd trading as Wonn1 Sites	Response received confirming attendance for additional survey work.
	required	Mindaribba LALC	Response received confirming attendance for additional survey work.
		Tocomwall Pty Ltd	
3 August 2022	In field consultation during survey	Kawul Pty Ltd trading as Wonn1 Sites	Refer to Section 4.1
		Culturally Aware	
23 August 2022	Addendum sent to all RAPs for review and comment	A1 Indigenous Services	No response received
	review and comment	Aboriginal Native Title Consultants	No response received
		Corroboree Aboriginal Corporation	No response received
		Culturally Aware	No response received
		Didge Ngunawal Clan	Response received 13/09/2022, no comments or concerned raised
		Jumbunna Traffic Management Group Pty Ltd	No response received



Date	Consultation Type	Organisation	Response
		Kawul Pty Ltd trading as Wonn1 Sites	Response received 25/08/2022, no comments or concerns were raised.
		Lower Hunter Aboriginal Incorporated	Response received 16/09/2022, supporting the draft Addendum report.
		Mayaroo	No response received
		Mindaribba LALC	No response received
		Nukara Indigenous Culture & Heritage	No response received
		Tocomwall Pty Ltd	No response received
		Ungooroo Aboriginal Corporation	No response received
		Widescope Indigenous Group	No response received
		Woka Aboriginal Corporation	No response received
		Wonnarua Nation Aboriginal Corporation	No response received



2.1 Aboriginal Party Participation in Survey

Additional survey of the study area was undertaken over two periods, between 6 and 8 June 2022 and 3 August 2022, with those Aboriginal party representatives listed below in **Table 2.2**.

Table 2.2 Aboriginal Party Participation in Survey

Date	Organisation	Name
6-8 June	Culturally Aware	Bobbie Smith
6-8 June	Kawul Pty Ltd trading as Wonn1 Sites	Arthur Fletcher
6-8 June	Mindaribba LALC	Les Draper
6-8 June	Tocomwall Pty Ltd	Mary Franks
3 August	Culturally Aware	Nura Smith
3 August	Kawul Pty Ltd trading as Wonn1 Sites	Arthur Fletcher

2.2 Outcomes of In-field Consultation

This section documents specific feedback received from Aboriginal party representatives during the survey. For clarity, this section has been divided in accordance with the period of fieldwork.

During the course of the survey undertaken during 6 to 8 June, a number of mature trees were noted within the storage pipeline construction footprint and on the transmission pipeline construction footprint within the Donaldson and Bloomfield mine areas (SU13 and SU24). The RAPs requested, if possible, to avoid clearing these trees if the Project design allows. The areas of archaeological potential (described in **Section 4.5**) were also discussed in the field and the RAPs agreed with the assessment of these areas.

Similarly, during the survey undertaken on 3 August, it was noted that the proposed Project design will intersect a minor tributary of Four Mile Creek located within the Donaldson mine area (SU18). The RAPs in attendance requested that impacts be mitigated where possible, in addition to recommending test excavation on both the northern and southern bank of the watercourse due to the elevation of the landform, on either bank (see **Section 8.0** for further details). Additionally, an area of PAD was identified upon an elevated crest south-west of SU17 (as described in **Section 4.4**). The RAPs requested, if possible, to conduct excavation in this area in order to sample the archaeological potential of the landform. It was noted and discussed that the extent of modification and prior land use may have impacted the landform.

2.3 Consultation Regarding the Draft Addendum

A copy of the draft ACHA Addendum was provided to all registered Aboriginal parties on 23 August 2022 with an invitation to review and comments on all aspects of the document. The RAPs were provided 28 days for review, and where required, additional contact was made with the registered parties to ensure that all opinions and concerns were addressed. Of note, a reminder email was sent out to all registered Aboriginal parties on 16 September 2022, to ensure that no comments or concerns would be overlooked.

Responses were received from three registered Aboriginal parties. Two parties, Kawul Pty Ltd (trading as Wonn1 Sites) and Didge Ngunawal Clan, confirmed that they had received and reviewed the report, however had no comments to provide. The remaining party (Lower Hunter Aboriginal Incorporated) conveyed their support for the information presented in the draft addendum and provided no further comments.



3.0 Survey Methodology

The additional surveys were undertaken using the same methodology that was used for the original KKLP Project survey and as presented in **Section 5.0** of the ACHA report.



4.0 Results

The additional surveys were conducted by the Aboriginal party representatives listed in **Section 2.1**(see **Table 2.1**) and Steph Howden (Umwelt Archaeologist) over three days between 6 to 8 June 2022, and Alison Fenwick (Umwelt Archaeologist) on 3 August 2022.

4.1 Information Provided by Registered Aboriginal Parties

As noted in **Section 2.2**, during the surveys RAPs noted a number of mature trees that remained within the survey area. It was requested that these trees be avoided, if the design allowed. APA has advised that within the storage pipeline construction footprint (SU13 and SU24) this will not be possible. RAPs also identified an area of PAD on the upper slope within SU16 described in **Table 4.1** below.

Similarly, as noted in **Section 2.2**, the RAPs noted the potential sensitivity of the elevated banks of a minor tributary of Four Mile Creek, located within the Donaldson Mine. Both the northern and southern banks of the water course consist of a gentle to moderately inclining slope, which levels to a largely flat plateau. Due to the elevated and flat nature of this landform, and its proximity to a water course, the RAPs expressed that this area may have been utilised by Aboriginal people prior to contemporary land use. As the northern bank of the water course could not be inspected due to safety concerns related to a water crossing, a full assessment of its potential could not be completed. The RAPs have requested that this area be highlighted as potentially sensitive.

Further, an area of PAD was identified upon the south-western boundary of SU17, as described in **Table 4.1** below. In field discussions with those RAPs present raised the question of the archaeological potential of the area. Specifically, the area being utilised as a meeting point by Aboriginal groups, due to the viewpoint provided by the landform of the surrounding landscape and the proximity of the area to a relatively significant water body, Buttai Creek and Wallis Creek.

4.2 Description of Survey Units

The survey units (SUs) within the additional survey areas are shown in **Figure 4.1A** to **4.1F** and described in **Table 4.1**. The survey units total approximately 38 hectares, with information on SU area by landform included in **Table 4.1**. In order to adequately illustrate the extent of surveys undertaken, all survey tracks are illustrated in **Figures 4.1A** to **4.1F**. Images of the survey units are provided in **Photo 4.1** to **Photo 4.25**. The survey unit numbers in **Table 4.1** continue from the survey units from the original survey as described in **Section 6.1.2** of the ACHA, beginning at SU11.

During the course of the June 6 to 8 surveys, a portion of SU11 and SU15 were not surveyed due to access restrictions and safety concerns. Both areas were assessed for potential based on photographs of the area (taken from approximately 150m from the SU), landform potential and known previous disturbance.

During the course of the 3 August survey, a portion of SU17 and SU18 could not be surveyed due to access restrictions and safety concerns resulting from recent severe rainfall and consequential vegetation growth.



Table 4.1 Survey Units within the modified Study Area

SU	Visibility %	Exposure %	Effective Coverage %	Sites	General Description	Arch potential
11	2	1	<1%	KKLP PAD8	SU11 is located adjacent to Lenaghans Drive on two agricultural properties, predominantly used for cattle. The area has previously been cleared with a single line tree windbreak planted, running approximately north-south through the survey area. An unnamed tributary runs along the southern portion of the survey area and drains into Hexham Swamp to the east. The landform on the northern side of the tributary has a gentle slope adjacent to the creek line then steepens to a moderate slope to the north. While there has been significant disturbance in the SU adjacent to Lenaghans Drive and as a result of agricultural practices, it is likely that there is some topsoil remaining in the elevated area adjacent to the creek.	Moderate
12	5	5	<1%	Nil	SU12 continues to the north of SU1 on the western side of the Pacific Motorway. The SU continues on the crest of the landform. The area has been previously disturbed by freeway construction with the area rehabilitated. However, a portion of the SU exhibits skeletal A2 soils within exposures associated with disused access tracks.	Nil to Low
13	0	0	0	Nil	SU13 is a widening of a previous survey area on Donaldson Coal mining area. The SU comprises moderately steep slopes adjacent to the deeply incised Four Mile Creek. The area has been partially disturbed as a result of mining including rehabilitated areas that were previously cleared, access tracks and the administrative building carpark.	Nil to Low



SU	Visibility %	Exposure %	Effective Coverage %	Sites	General Description	Arch potential
14	5	10	0.5%	Nil	SU14 is located to the east of Buchanan Road at the entrance to Ashtonfield Coal Mine. The SU crosses sleep and moderately steep midslope of a spur that has been significantly modified by mining activities to the north and south of the SU. The mine access road crosses the SU three times along with other graded access tracks.	Nil to Low
15	0	0	0	Nil	SU15 runs along the upper slope of a spur on the eastern side of Buttai Creek. The landform is undulating with a minor drainage line crossing the SU. The majority of the SU had not been previously cleared and mature trees were inspected for cultural scarring though none was noted. The final approximately 265 metres of the survey unit was not surveyed due to safety concerns; however, the area was significantly disturbed as a result of agricultural practices and historical mining activities. This SU is no longer within the Project design.	Nil to Low
16	5	5	<1%	KKLP PAD9	SU16 is located to the south of SU15 on both sides of Buchanan Rd on the upper slope of a spur adjacent to Buttai Creek. On the eastern side of Buchanan Road the area has been previously cleared and the area partially rehabilitated. The SU then crosses Buchanan Rd into an area of remnant vegetation. Mature trees were inspected for cultural scars; however, no scarred trees were located. The western end of the SU was previously cleared as a result of past agricultural practices and mining. The upper slope was identified by the RAPs as being PAD. This SU is no longer within the Project design.	Moderate



SU	Visibility %	Exposure %	Effective Coverage %	Sites	General Description	Arch potential
17	0	0	0	KKLP PAD10	SU17 is located east of SU20, to the northwest of Buchanan Road. An unnamed ephemeral watercourse transects the SU, running southeast to northwest adjacent to the area. A small section of floodplain is located at the point at which the SU crosses the watercourse. The SU extends northwest from Buchanan Rd into an area of largely young tree growth, likely the result of revegetation efforts. This vegetated area could not be inspected due to restricted accessibility. Visibility across the SU was low to nil due to extensive grass growth. The SU continues over a gentle incline to the upper slopes of a spur, extending across a largely cleared field. The upper slope was identified by the RAPs as being PAD. The field had experienced significant disturbance through contemporary agricultural practices.	Moderate
18	5	0	<1%	Nil	SU18 is located west of the main access track within Donaldson Mine, within an area of revegetation. The landform is predominately flat, descending to a gentle to moderate incline to an unnamed minor tributary of Four Mile Creek. This watercourse crosses the SU and showed evidence of modification related to prior infrastructure works and mining activities. The northern portion of the SU could not be inspected due to safety concerns related to a water crossing. The southern portion of the SU was moderately vegetated, with few mature trees noted. Mature trees were inspected for cultural scars, however, no scarred trees were identified. The elevated crest on both the northern and southern side of the watercourse were identified by the RAPs as potential areas of sensitivity.	Low to moderate



SU	Visibility %	Exposure %	Effective Coverage %	Sites	General Description	Arch potential
19	0	0	0	Nil	SU19 is located southeast of SU18, on the southern side of John Renshaw Drive. The SU comprised a relatively flat area, however, due to extensive grass growth, provided no visibility. The area has been cleared of all vegetation, and a dirt access track is situated adjacent to the western boundary of the SU. It is understood that the SU has been significantly disturbed as a result of prior land use.	Nil to low
20	10	5	0.5%	Nil	SU20 is located west of SU17 and is east of Main Road. The SU follows an existing dirt access track and runs adjacent to two water holes or dams, as well as Buttai Creek. The general area showed evidence of recent disturbance related to severe rainfall and flooding, with the southern portion of the SU being situated on a gentle to moderate slope leading to a floodplain. The northern portion of the SU inclines to the top of a spur. Minimal vegetation remains, and no mature trees were present.	Nil to low
21	5	0	<1%	Nil	SU21 is located northwest of SU20, immediately west of Main Road and to the north of Testers Hollow. The SU has been entirely cleared of vegetation and the landform gently declines to Testers Hollow. The SU has been significantly disturbed by contemporary agricultural practices.	Nil to low



SU	Visibility %	Exposure %	Effective Coverage %	Sites	General Description	Arch potential
22	5	5	<1%	Nil	SU22 is located northwest of SU21 and intersects a portion of the Southern Maitland Railway line. The northwest portion of the SU could not be assessed due to safety concerns. The south- eastern portion of the SU consisted of a flat grassy field, with minimal vegetation. A steep easement and fence divided the field from the railway line, showing evidence of significant disturbance associated with historic railway use and contemporary maintenance practices. An access track ran northeast to southwest adjacent to the railway track, with introduced gravels and ballast.	Low to nil
23	90	100	90%	KK12 (not relocated), KK11 (not relocated), KK10 (not relocated), Hydro-AS22- 14	SU23 is an access track that runs east west within an existing transmission line easement. The track runs across a low-lying spur between two tributaries of Black Waterholes Creek. Three low density scatters were previously recorded within the easement. A secondary track runs approximately south/southwest from the easement into the former Kurri Kurri Aluminium Smelter infrastructure area. The track runs on the lower slope of the spur adjacent to a tributary of Black Waterholes Creek to the east. A previously recorded Aboriginal heritage site was located on the track.	Low to Moderate
24	0	0	0	KKLP PAD11, KKLP PAD12	SU24 crosses the slower slopes of two spurs and a drainage line and dam adjacent (running perpendicular) to Black Waterholes Creek. Elevated areas either side of the drainage line were identified as PAD. The SU then heads up a steep incline and turns adjacent to another minor drainage line that runs into Black Waterholes Creek.	Low to Moderate





Photo 4.1 Unnamed tributary intersecting SU11. View approximately north



Photo 4.2 Overview of the gentle inclination slope within SU11, to an elevated crest. View approximately north





Photo 4.3 Seldomly used access track within SU12, areas of exposure visible. View approximately north



SU12 crest landform. View approximately west Photo 4.4





Photo 4.5 SU13 juvenile vegetation, adjacent to Four Mile Creek. View approximately north-east



Photo 4.6 Moderately steep inclination within SU13. View approximately north-east





Photo 4.7 Prior disturbance visible within SU14, view approximately north-east



Actively utilised access road within SU14, view approximately north Photo 4.8





Photo 4.9 SU15 remnant mature vegetation, view approximately south-west



Photo 4.10 SU15 minor tributary with gently sloping landform on western bank. View approximately north





Photo 4.11 Evident vegetation clearance within SU16, east of Buchanan Road



Photo 4.12 Gently sloping landform within SU16, view approximately north-east





SU17 adjacent to Buttai Creek and Buchanan Road, view approximately north **Photo 4.13**



SU17 adjacent to Buttai Creek and flood plain, view approximately north-west Photo 4.14





Photo 4.15 Vegetation remaining within SU18, view approximately north-east



Steep decline to unnamed water course, intersecting SU18. View approximately north-Photo 4.16 east





Photo 4.17 Extensive grass growth and vegetation coverage within SU19, view approximately northeast



Photo 4.18 SU19 access track with small area of exposure, illustrating extent of vegetation growth. View approximately south-east





Photo 4.19 SU20 elevated landform adjacent to Buttai Creek. Small area of exposure caused by contemporary site use. View approximately east



Photo 4.20 SU20 overview, illustrating existing access track and the gently sloping landform. View approximately south





Photo 4.21 Overview of the SU20 area, showing the gently sloping landform. Buttai Creek in the background. View approximately south-east



Photo 4.22 SU21 declining landform, Main Road in the background. View approximately east





Photo 4.23 Overview of SU21 area, showing the gently sloping landform to Testers Hollow. View approximately south-east



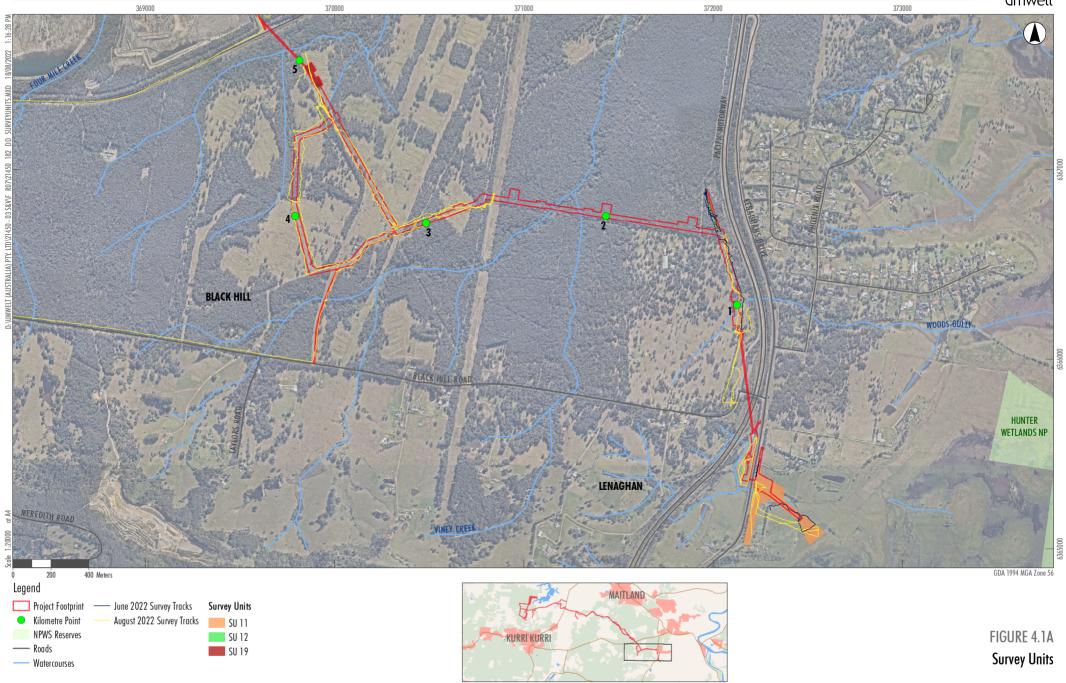
Photo 4.24 Extent of disturbance within SU22 associated with the Southern Maitland Railway. View approximately north-west





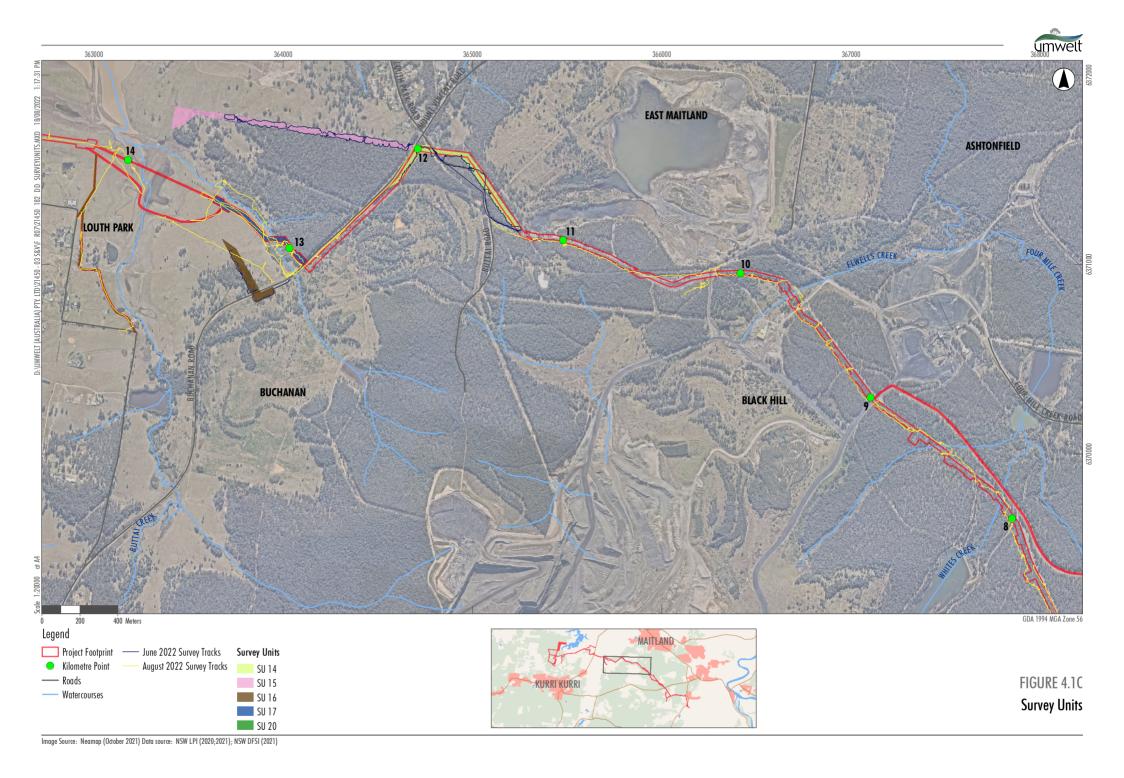
Area of exposure along existing access track within SU22. Note the steep embankment Photo 4.25 either side of the railway line. View approximately east

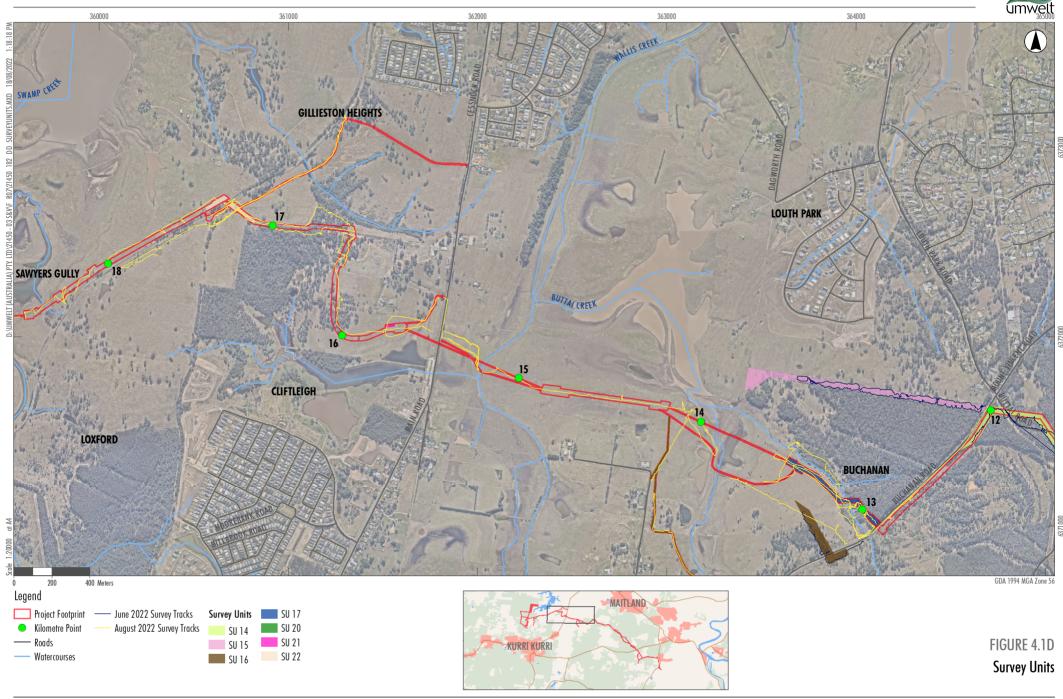


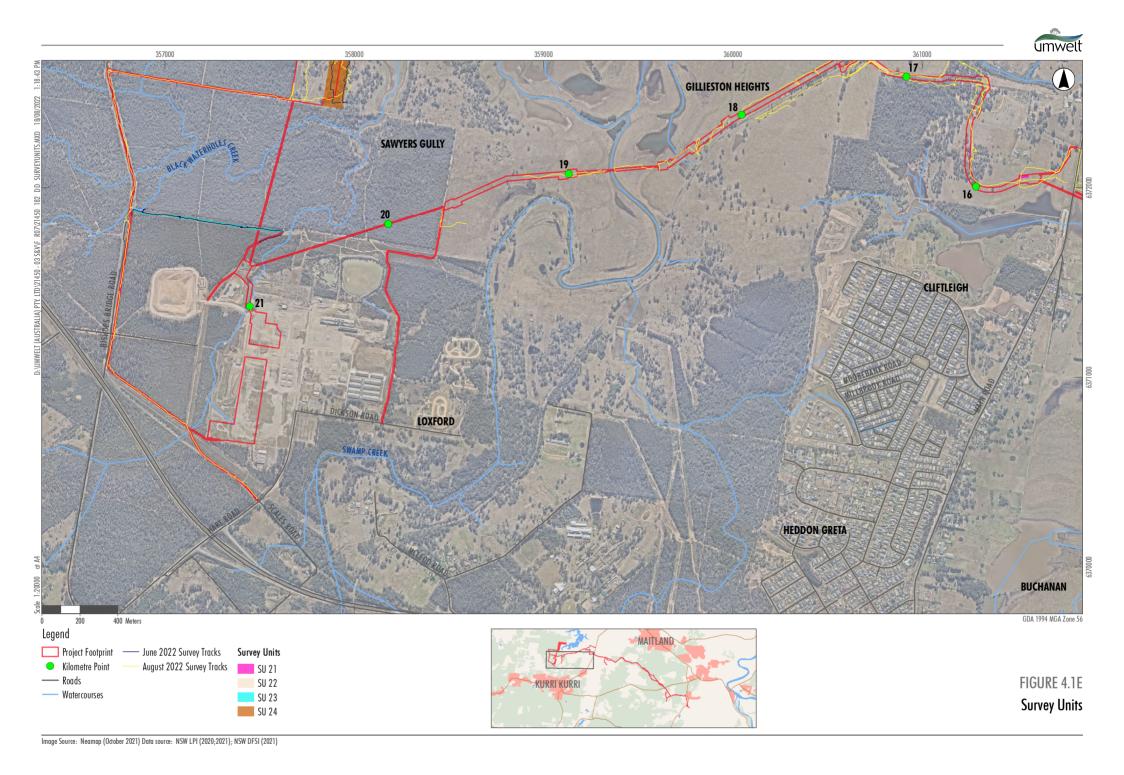




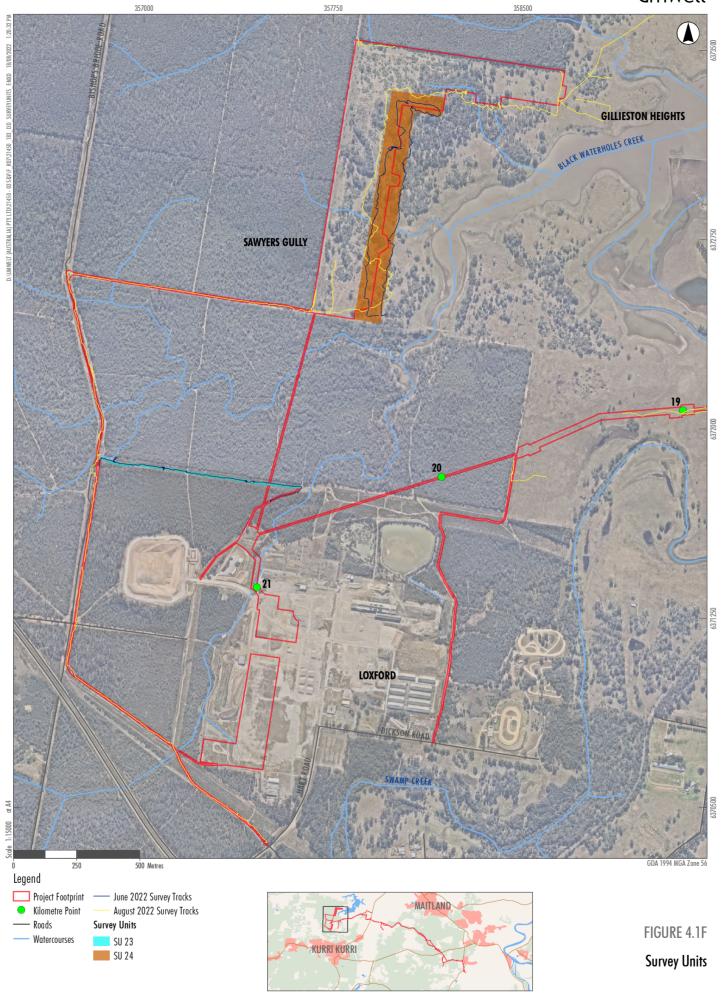














4.3 Previously Recorded Archaeological Sites

During the survey, efforts were made to re-identify previously recorded sites located within SU23. These sites were not within the construction footprint during the initial investigation of the KKLP Project, and such are not discussed in the ACHA report. It is noted that Hydro PAD1 (AHIMS #37-6-3872) is located approximately 130m south of SU23 and was not surveyed during the course of this assessment. Hydro PAD1 is no longer registered as an Aboriginal site, as further investigations (AECOM 2021) have determined that the natural soil profiles have been removed.

The photographs within the associated site card for each site was used to confirm the location of each previously recorded site.

4.3.1 KK10

AHIMS site #37-6-1958 was originally identified by AMBS in 2009 and registered as KK10, and is subject to AHIP C003203. AMBS (2009) inspected this area and assessed it as being demonstrative of Aboriginal occupation in the area, however, not individually representative of specific cultural significance to the Aboriginal community. This assessment is based on the observed landscape, being such that the artefact scatter was identified on a crest between two unnamed tributaries of Swamp Creek, approximately 190 m from the closest fresh water source. Six artefacts were identified including three flakes, two broken flakes and a retouched flake (a flake used as core was identified which is likely related to the Redbank reduction strategy). No additional exploitable resources were observed at this time and given the proximity of the Aboriginal site to related deposits, it was concluded that this site, in an individual context, contained limited archaeological potential. The proximity of the Aboriginal site to an established and highly disturbed powerline easement (SU23) likely contributed to this assessment.

4.3.2 KK11

AHIMS site #37-6-1959 was originally identified by AMBS in 2009 and registered as KK11, and is subject to AHIP C003203. AMBS (2009) inspected this area and assessed it as being demonstrative of Aboriginal occupation in the area, however, not individually representative of specific cultural significance to the Aboriginal community. This scatter is located on a crest between two unnamed tributaries of Swamp Creek, approximately 230 m west of KK10. Three artefacts were identified including two flakes and one broken flake. Similarly to KK10, the general area had been subject to extensive disturbance in relation to the ongoing land use associated with the powerline easement (SU23).

4.3.3 KK12

AHIMS site #37-6-1960 was originally identified by AMBS in 2009 and registered as KK12, and is subject to AHIP C003203. AMBS (2009) inspected this area and assessed it as being demonstrative of Aboriginal occupation in the area, however, not individually representative of specific cultural significance to the Aboriginal community. One artefact was identified in an erosion scour associated with slope drainage. Although the artefact was identified approximately 0.5 m below ground surface, it is likely that it has eroded from the surrounding sediment, rather than in-situ. The artefact identified was a silicified tuff flake and exhibited surface weathering.

An overview of the reidentification efforts undertaken during the June survey are discussed in **Table 4.2** below.



Table 4.2 Previously Recorded Archaeological Site Details

AHIMS No./Site Name	Discussion				
37-6-3065 Hydro-AS22-14	Artefacts were located along the existing track. There were approximately 20 red and red/yellow silcrete flakes and flaked pieces. There are likely more artefacts in the undisturbed area adjacent to the track. Refer to Photo 4.26 and Photo 4.27 .				
	The track has been blocked off at the northern end, but not the southern end. There was evidence of vehicle movement through the site. Refer to Photo 4.28 . This site will be impacted by the Project works.				
	Presumed extant (AECOM 2014).				
37-6-1958 KK10	The site is located on an access track within a power line easement that runs approximately east-west across the former smelter site. In 2014, AECOM located two of the original six artefacts. During the current inspection there were no artefacts found in this location. Refer to Photo 4.29 . This site will be impacted by the Project works.				
	Presumed extant (AECOM 2014).				
37-6-1959 KK11	The site is located on an access track within a power line easement that runs approximately east-west across the former smelter site. In 2014, AECOM were unable to locate artefacts at the site location. During the current inspection, no artefacts were found in this location. Refer to Photo 4.30 . This site will be impacted by the Project works.				
	Presumed extant (AECOM 2014).				
37-6-1960 KK12	The site is located adjacent to a natural drainage line within a power line easement that runs approximately east-west across the former smelter site. In 2014, AECOM were unable to locate artefacts at the site location. During the current inspection, no artefacts were found in this location. Refer to Photo 4.31 . This site will be impacted by the Project works. Presumed extant (AECOM 2014).				





Photo 4.26 AHIMS #37-6-3065 Hydro-AS22-14 red silcrete flake





Photo 4.27 AHIMS #37-6-3065 Hydro-AS22-14 yellow silcrete flake





Photo 4.28 Evidence of recent vehicle use through Hydro-AS22-14



Photo 4.29 Landscape overview of AHIMS #37-6-1958 KK10





Photo 4.30 Landscape south of access track, indicative location of AHIMS #37-6-1959 KK11



Photo 4.31 Landscape south of access track, indicative location of AHIMS #37-6-1960 KK12



4.4 Newly Recorded Aboriginal Sites

There were no newly recorded Aboriginal sites found during the additional survey for the KKLP Project. However, a number of areas of archaeological potential were recorded and are described below.

4.4.1 Areas of Archaeological Potential

During the course of the June and August field surveys, four areas of archaeological potential were identified in proximity to the watercourses (see **Figure 6.1A** to **6.1F**). The areas of archaeological potential on the updated alignment are discussed below.

- SU11 An area of PAD (KKLP PAD08) was identified on an elevated landform adjacent to a minor drainage line that flows into Hexham Swamp. The PAD is in an area that was not able to be surveyed on foot due to access safety restrictions and as such was identified based on the landform type and proximity to a major resource area (i.e. the swamp). The area has previously been cleared and subject to cattle grazing. It is likely that some of the topsoil has been disturbed as a result of prior land-use. However, intact A horizon may still exist. It was assessed by the RAPs that test excavation should be undertaken in the area to determine if archaeological material was present and its nature and extent.
- SU16 An area of potential was identified by the RAPs on the upper slope of a spur adjacent to Buttai Creek. The area has previously been cleared and subject to cattle grazing. It is likely that some of the topsoil has been disturbed as a result of prior land-use. However, intact A horizon may still exist. The area is outside of the Project construction footprint.
- SU17 An area of PAD (KKLP PAD10) was identified to the south-west of a small unnamed tributary of Buttai Creek, to the north of SU16. The landform upon which the PAD was identified consisted of a gently inclining slope, terminating at a small crest (Photo 4.32). Due to limited visibility across the survey area, an assessment of the extent of prior disturbance could not be undertaken, however, in the context of the wider landscape it is likely that the area has been subject to extensive disturbance in relation to the historic and contemporary agricultural land use (Photo 4.33). The location provides an elevated overview of the surrounding landscape and would have represented an elevated area in proximity to a perennial water course (Buttai Creek) (Photo 4.34), suitable for occupation or as a camping location. The Project construction footprint will require disturbance to the area, with the north-eastern and eastern extent of the PAD encompassed by the transmission pipeline alignment (see Figure 4.1C). See Section 8.0 for recommended mitigation measures.
- SU18 An area of low to moderate archaeological potential was identified along the northern and southern banks of an unnamed ephemeral creek line transecting SU18. Generally, the area can be described as a moderately inclined slope terminating at a crest above the creek line. Due to extensive vegetation growth along the banks of the creek line, and due to safety concerns, the creek bank was not inspected. Similarly, due to safety concerns regarding the water levels of the creek line, the northern bank and sloping landform was only inspected from a distance. Discussions with Arthur Fletcher in the field raised concerns regarding the potential significance of the area due to its elevated nature and proximity to a water course. It was noted that the general area showed evidence of prior disturbance relating to historic land use and timber felling. Minimal mature growth remains, and although revegetation has taken place, the vast majority of vegetation was juvenile. This would suggest that the wider area has been impacted, potentially in a subsurface context during clearance activities. The RAPs requested that, where possible, impacts to the creek line be minimised. The RAPs further



discussed the preference of undertaking trench excavations along the crestline in order to achieve an exploratory sample of the landform and where this is not possible, that works in proximity to the creek line be monitored by a suitable Aboriginal representative.



Photo 4.32 KKLP PAD10 adjacent to unnamed tributary of Buttai Creek, as shown by dense vegetation growth





Photo 4.33 KKLP PAD10 landform overview, highlighting the gently sloping decline to unnamed tributary of Buttai Creek



Photo 4.34 View of the surrounding landscape from KKLP PAD10, view approximately north-west



4.5 Discussion

The results of the additional survey work carried out in June and August 2022 remained consistent with the expectations set out through the environment and archaeological context of the wider Project area (see Section 3.0 and 4.0 of the ACHA report). Areas of archaeological potential were identified on elevated, low to moderate inclination landforms bordering, or in proximity to, key watercourses in the landscape. In relation to the areas of low to moderate archaeological potential, it is recognised that the archaeological potential of these landforms cannot be assessed comprehensively due to limited visibility and could be clarified by the completion of test excavations under the provisions of the Code of Practice. It is understood that at present, the design footprint of the study area has largely been finalised, however may yet be subject to slight variation. Although it is highly likely that those areas identified as at risk of impact (see Table 4.1) will be disturbed during the construction phase of the Project, until the Project design has undergone final approval, it is not possible to determine a defined excavation footprint within which impacts are certain to occur. As such, the identification of areas requiring test excavation cannot yet be identified with absolute certainty, and at this time, to undertake test excavations may risk impacting archaeological deposits that may not be subject to impacts associated with the Project.

At this time, the KKLP Project will required disturbance of the entirety of SU23 and will impact those sites previously identified within the existing powerline easement, and associated access track. As such, these sites will be subject to those management recommendations outlined in **Section 10.2** of the ACHA.



5.0 Significance Assessment

The Burra Charter: the Australia ICOMOS Charter for Places of Cultural Significance (Australia ICOMOS 2013) (the Burra Charter) defines cultural significance as the sum of the qualities or values that a place embodies. The Burra Charter identifies the values – aesthetic, historic, archaeological, social, or cultural and spiritual – that contribute to cultural significance.

Social or cultural value refers to the spiritual, traditional, historical and contemporary associations and attachments of a place (OEH 2011:8). It is noted that a consensus as to the cultural value of an object or place is not always possible as people experience places and events differently.

Spiritual value refers to the intangible values embodied in a place, which give it importance in the spiritual identity. Archaeological value refers to the potential physical remains and the ability of those remains to provide an understanding about an aspect of the past.

Aesthetic value refers to the sensory and perceptual experience of a place. It may consider form, scale, texture and material of the fabric or landscape and may also include smell and sounds associated with the place (OEH 2011:9).

Historic value encompasses all aspects of history and as such is often underlying other values. A place may have historic value because it has influenced, or been influenced by, an historic event, phase, movement or activity, person or group of people.

No new Aboriginal cultural heritage sites were located during the additional field surveys and the previously recorded sites have not been reassessed for significance. As outlined in **Section 7.4** of the ACHA, the identified Aboriginal sites are identified as having low value for rarity, representativeness, educational potential and integrity. Artefact scatters and isolated artefacts are a common site type in the local area and well represented in the archaeological record. These sites are located on private land holdings and are inaccessible to the general public, thereby limiting their educational potential. All surface artefacts have been subject to disturbance and are unlikely to retain integrity. These sites are therefore assessed as having low archaeological potential.

Although two areas possessing low to moderate archaeological potential were identified during the course of the August survey, it is inherently difficult to assess the significance of areas of archaeological potential and any such assessment can only be based on the nature of the evidence that an area may contain (as stated in **Section 7.4** of the ACHA report). As such, the areas identified as containing low to moderate archaeological potential would be assigned a provisional assessment of low to moderate archaeological significance.



6.0 Impact Assessment

As outlined in **Section 8.0** of the ACHA report, all ground disturbance activities associated with the Project will be located within the bounds of the area assessed, and the recognised buffer applied to this area.

No newly recorded Aboriginal artefact sites were identified during the course of the additional field surveys. However, the newly identified KKLP PAD8, KKLP PAD 10 site and the previously recorded Hydro-AS22-14 (37-6-3065) are located within the proposed impact footprint, unless subject to further variation. As illustrated in **Figure 6.1A** to **6.1F**, a total of 12 identified PADs will be impacted by the current Project footprint, inclusive of the newly identified KKLP PAD 08 and KKLP PAD 10.

Should the impact footprint of the Project not change, these PADs and site will be impacted and will require mitigation (refer to **Section 7.0**). It is noted that the area identified as KKLP PAD 09 falls outside the updated alignment and will not be impacted by the Project.

The impact assessment for identified Aboriginal sites is provided in **Table 6.1,** providing an overview of the Aboriginal sites identified during the recent June/August field surveys and those sites previously recorded. Note that only those Aboriginal sites at risk of impact, within the current Project footprint and the recognised buffer applied, are provided.

Table 6.1 Aboriginal sites at risk of impact

AHIMS ID	Site Name	Site Type	Impact Assessment					
June/August field survey								
37-6-1960	KK12	Artefact	Site area identified during survey; no artefactual material found. Site located on proposed access track and will be impacted					
37-6-1959	KK11	Artefact	Site area identified during survey; no artefactual material found. Site located on proposed access track and will be impacted					
37-6-1958	KK10	Artefact	Site area identified during survey; no artefactual material found. Site located on proposed access track and will be impacted					
37-6-3065	Hydro AS22 14	Artefact	Site area identified during survey with artefactual material identified. Highly disturbed. Site located on proposed access track and will be impacted					
Not registered	KKLP PAD 11	Potential Archaeological Deposit (PAD)	Site located on elevated area either side of the drainage line. Will be partially impacted					



AHIMS ID	Site Name	Site Type	Impact Assessment						
Not registered	KKLP PAD 12	Potential Archaeological Deposit (PAD)	Site located on elevated area either side of the drainage line. Will be partially impacted						
Not registered	KKLP PAD 10	Potential Archaeological Deposit (PAD)	Site located on upper crest near tributary of Buttai Creek. Site is located within the impact footprint						
Not registered	KKLP PAD 08	Potential Archaeological Deposit (PAD)	Site located on upper slope/crest near minor tributary. Site is partially located within the impact footprint						
Previously identified sites									
37-6-3054	Hydro AS11 14	Artefact scatter	Site not identified during survey but may remain extant. Site located within impact footprint for proposed access track						
Not registered	Hydro IA09 14	Isolated Artefact	Site not identified during survey but may remain extant. Site located within impact footprint for storage bottle workspace						
37-6-3063	Hydro AS20 14	Artefact scatter	Site not identified during survey but may remain extant. Site located within impact footprint for proposed access track						
37-6-1957	кко9	Isolated Artefact	Site not inspected but may remain extant. Site located within impact footprint for proposed access track						
Not registered	Hydro IA24 14	Isolated Artefact	Not inspected as part of current survey. Assumed to remain extant. Site located within impact footprint for proposed access track						
Not registered	Hydro IA25 14	Isolated Artefact	Not inspected as part of current survey. Assumed to remain extant. Site located within impact footprint for proposed access track						
Not registered	KKLP PAD 07	Potential Archaeological Deposit (PAD)	Site located on gently incline lower slope to the west of Swamp Creek. Located within impact footprint.						
Not registered	KKLP PAD 06	Potential Archaeological Deposit (PAD)	Site located on a low elevation spur on the eastern edge of Swamp Creek/Wentworth Swamp. Located within impact footprint						



AHIMS ID	Site Name	Site Type	Impact Assessment
Not registered	KKLP PAD 05	Potential Archaeological Deposit (PAD)	Site located on a low elevation spur on the eastern edge of Swamp Creek/Wentworth Swamp. Located within impact footprint
Not registered	KKLP PAD 04	Potential Archaeological Deposit (PAD)	Site located on an elevated section of lower slope to the north of Testers Hollow. Located within impact footprint.
38-4-1997	TH PAD 002	Potential Archaeological Deposit (PAD)	Site located on upper slope from Testers Hollow. Located within impact footprint
Not registered	KKLP PAD 02	Potential Archaeological Deposit (PAD)	Site located on mid to lower slope between Wallis and Buttai Creek. Located within impact footprint
38-4-1008	A21/A	Artefact scatter	Site remains extant 30m from original recorded coordinate. Part of site may extend into for proposed transmission pipeline
38-4-0959	A20/A	Artefact scatter	Site remains extant 20m from original recorded coordinate. Part of site may extend into impact footprint for proposed transmission pipeline
Not registered	KKLP PAD 01	Potential Archaeological Deposit (PAD)	Extension of Woods Gully site (#38-4-0410). Located within impact footprint

6.1 Results of Project Footprint Variations

Due to variations to the impact footprint of the Project, the following previously identified Aboriginal sites are no longer considered at risk of disturbance in relation to the proposed works. Where possible, APA have endeavoured to avoid areas identified as possessing archaeological potential or identified Aboriginal sites.

- Hydro-AS29-14 (#37-6-3071)
- Ironbark 1 (#38-4-0338)
- ISF3/ISF4 (#38-4-0376)
- TH-PAD-001 (#38-4-1997)
- Woods Gully (#38-4-0410)
- Northern Swamp Tributaries 1 (#37-6-1653 (alt))
- Northern Swamp Tributaries 2 (#37-6-1652)
- KKLP IA1

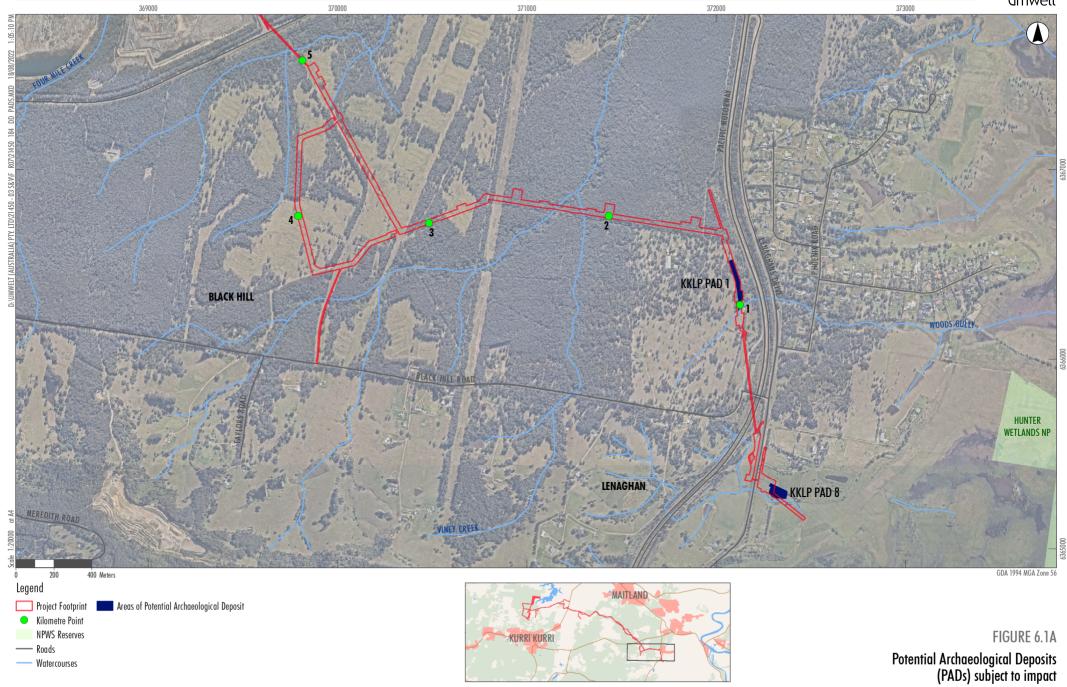


- KKLP IA2
- KKLP IA3
- KKLP IA4
- KKLP IA5
- KKLP IA6
- KKLP IA7
- KKLP AS1
- KKLP AS2

6.2 Impact to Aboriginal Cultural Values

The registered Aboriginal parties were invited to provide comment on the potential impact to Aboriginal cultural values (outside of the impacts discussed above) in their review of the draft report. No comments were received regarding this aspect of the report.







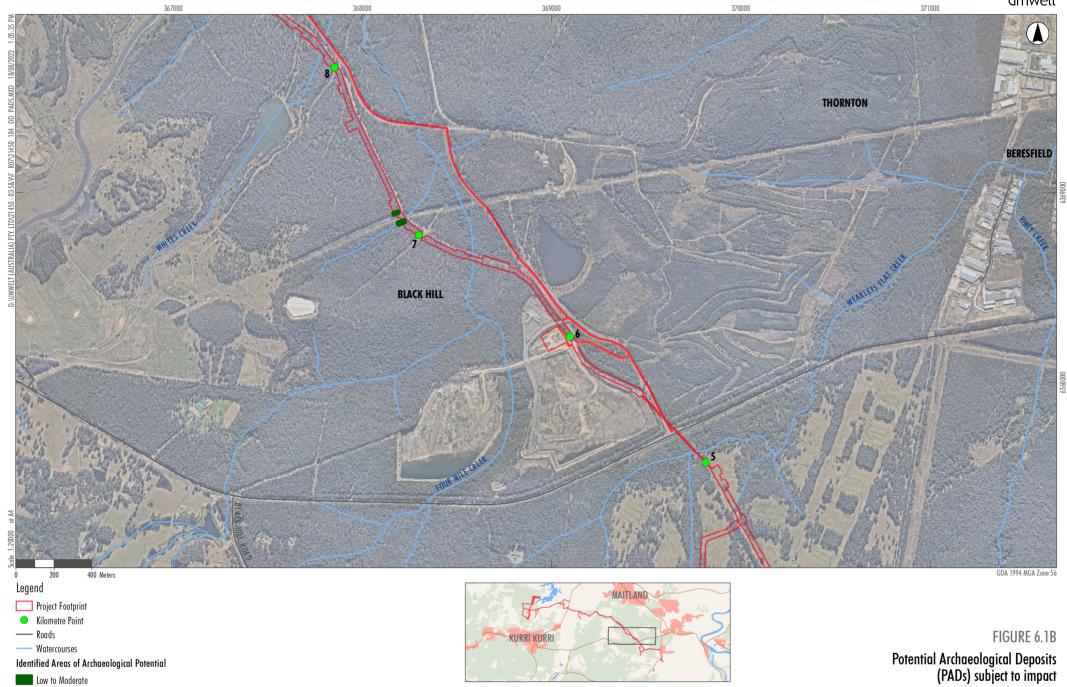
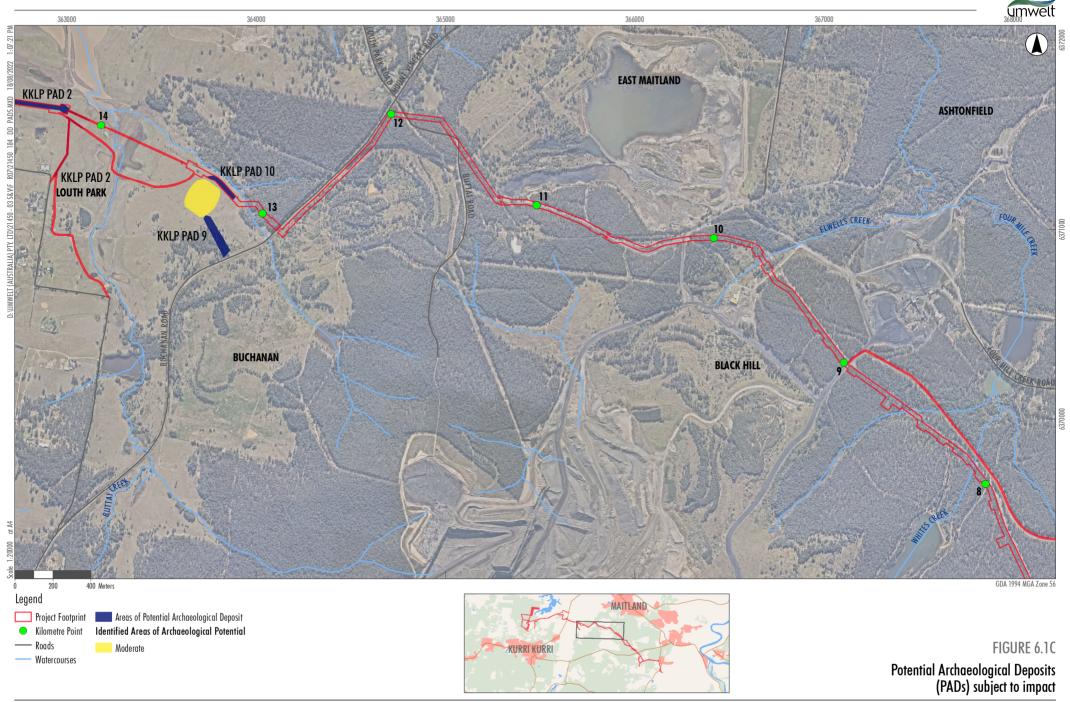
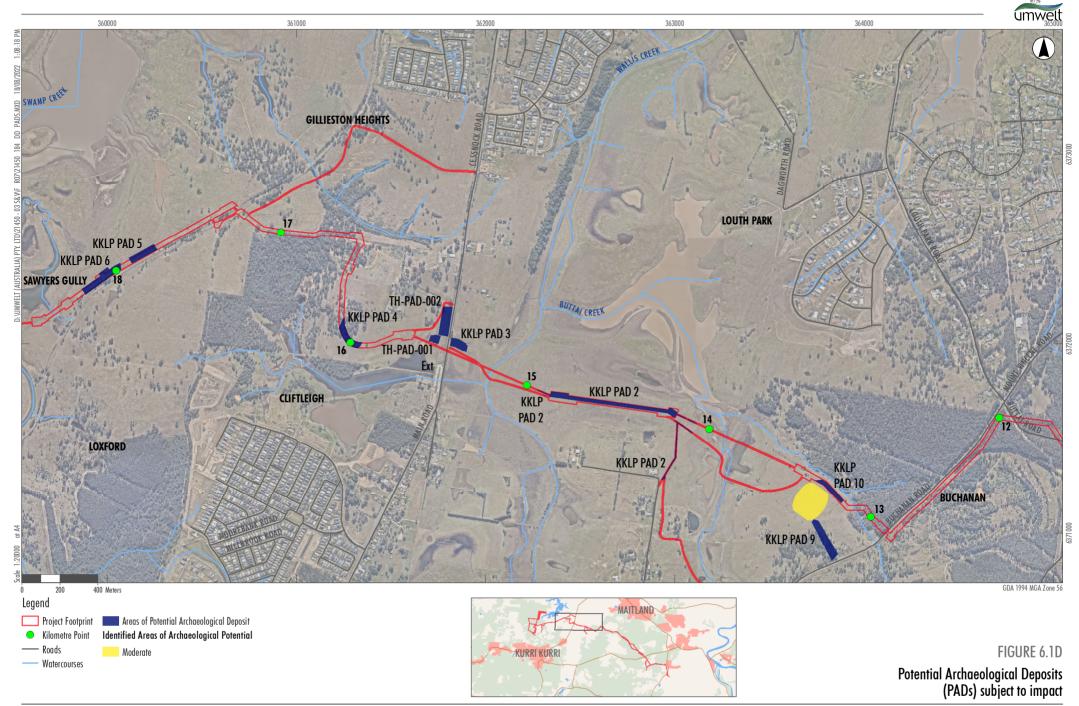
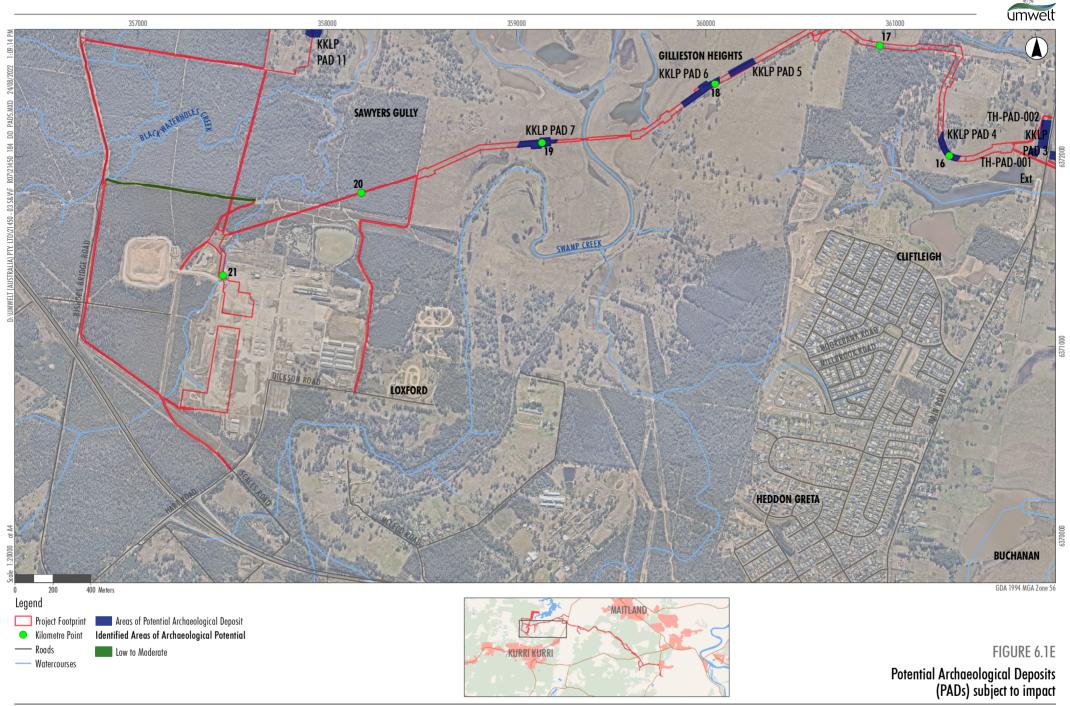


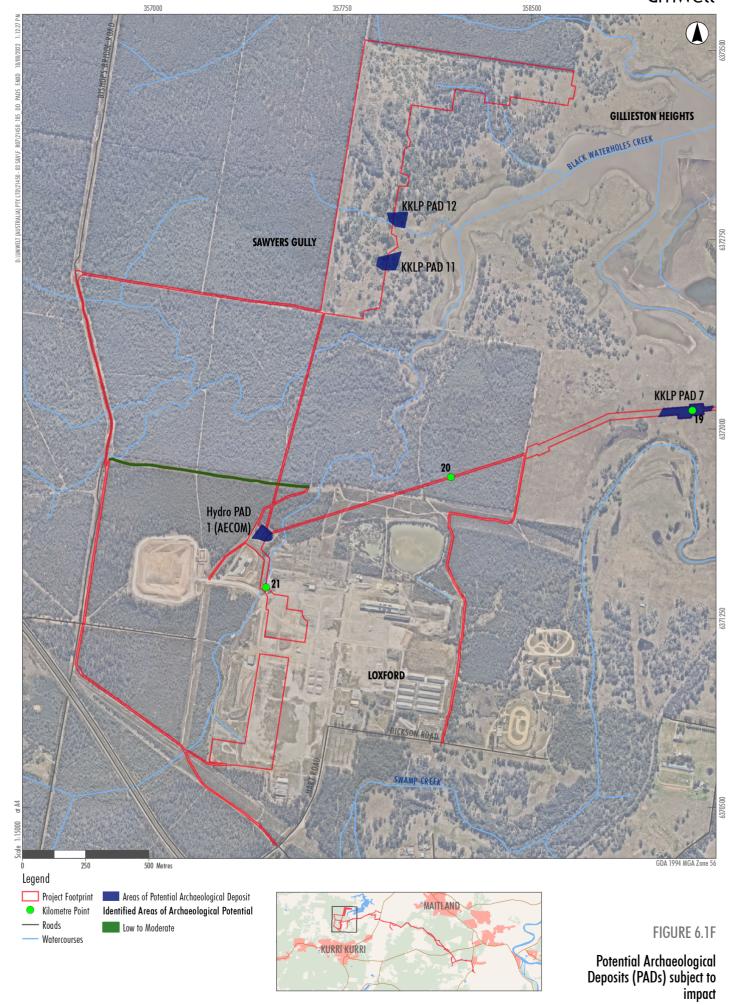
Image Source: Neamap (October 2021) Data source: NSW LPI (2020;2021); NSW DFSI (2021)













7.0 Management and Mitigation Strategies

The management and mitigation strategies developed for the KKLP, and reported in **Section 10.0** of the ACHA report, are applicable for the sites and areas of potential located during the additional survey. Strategy 2 (Mitigation of Predicted Impacts) is appropriate for the additional survey areas.

Based on current designs, partial or complete impact will not occur at any newly recorded sites, however, will occur at three identified areas of low to moderate or moderate archaeological potential (KKLP PAD8, KKLP PAD10 and SU18) and a previously recorded archaeological site (Hydro-AS22-14).

In relation to the identified artefact scatter and isolated artefact sites, the level of significance of these sites is such that partial or complete impacts can be mitigated by the community collection of artefacts. If track widening occurs at the location of Hydro-AS22-14, the works should be monitored by the RAPs and an archaeologist to collect any additional artefacts that are uncovered. In relation to the areas of PAD, impacts can be mitigated by the completion of excavation works and additional community collection (where warranted) within the impact footprint. These are appropriate from an archaeological perspective as they allow for the collection and interpretation of a representative sample of the assemblage from each site/area and may inform further understanding (in the case of excavations within the areas of PAD) of how Aboriginal people accessed resources, manufactured stone artefacts and travelled through the local area.



8.0 Recommendations and Mitigation Methodologies

The recommendations for the additional areas are consistent with those recommended for the KKLP Project (**Section 10.0** of ACHA report).

The mitigation methodologies presented in **Section 11.0** of the ACHA report also apply to the additional three areas of low to moderate and moderate archaeological potential identified in SU11, SU17 and SU18 and the previously recorded archaeological site in SU23 (Hydro-AS22-14), as outlined above **Section 4.5**.

In summary, the proposed management strategy outlined avoiding impacts where possible, however where impacts cannot be avoided, community collection of identified artefacts is recommended. Where impacts are proposed to occur within the twelve identified areas of PAD, prior to the commencement of construction works an updated inspection of the PADs will be undertaken by an appropriately qualified archaeologist in order to clearly demarcate the impact area and extent of excavation required. See **Section 11.2** of the ACHA for further details.

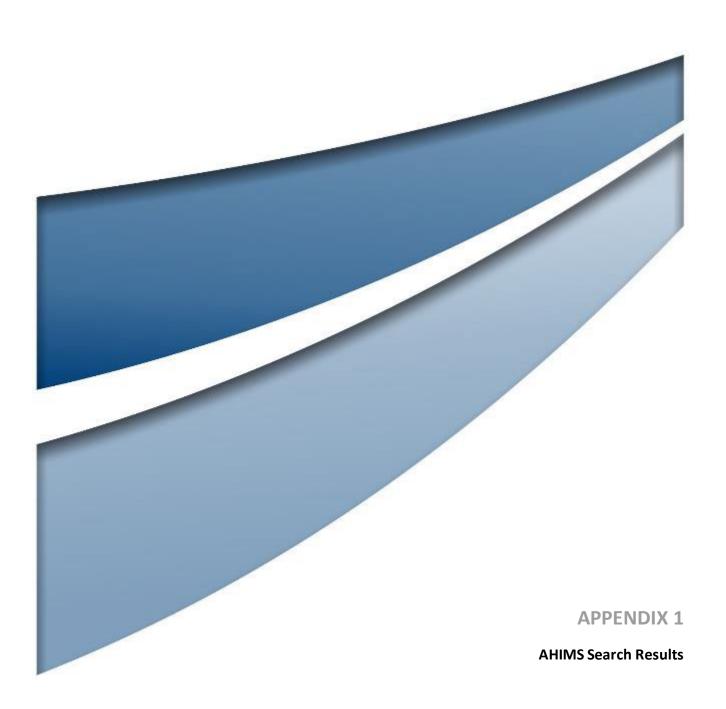
No additional recommendations were provided by the registered Aboriginal parties.



9.0 References

AECOM. 2021. Aboriginal Cultural Heritage Assessment Report Addendum - Hydro Aluminium Kurri Kurri Smelter

Umwelt (Australia) Pty Ltd. 2022. Kurri Kurri Lateral Pipeline Project – Aboriginal Cultural Heritage Assessment. Report prepared for APA





AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number: 21450

Client Service ID: 688247

		<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatur</u>	<u>es</u>	<u>SiteTypes</u>	<u>Reports</u>
38-4-1744	DIOCESE 3	GDA	56	370202	6366294	Open site	Valid	Artefact : -			
	Contact	Recorders	Mr.C	Mr.Corey O'Driscoll					<u>Permits</u>		
38-4-0341	Black Hill Quarry 1;	AGD	56	369240	6364730	Open site	Valid	Artefact : -		Isolated Find	2746
	<u>Contact</u>	Recorders	Ms.Ji	ll Ruig					<u>Permits</u>		
38-4-0670	FMC8 Donaldson Mine	AGD	56	367600	6366850	Open site	Valid	Modified T (Carved or 1			98344
	Contact	Recorders		Effenberger					<u>Permits</u>		
38-4-0981	F1/A	AGD		368760	6367030	Open site	Valid	Artefact : -, Groove : -			
	Contact	Recorders		dward Clark					<u>Permits</u>		
38-4-0473	Site 2;Beresfield;	AGD		372650	6367770	Open site	Valid	Artefact : -		Isolated Find	4211,102222,1 02568
00 4 4000	Contact	Recorders		eter Kuskie	6064400	0 "	TT 1: 1	D 1	<u>Permits</u>		
38-4-1829	AMD244/A	GDA	56	367952	6364488	Open site	Valid	Potential Archaeolog Deposit (P.			
	Contact	Recorders	Soutl	n East Archa	eology,Ms.Frai	nces Wiig			<u>Permits</u>		
38-4-1791	SMP4/83/A	GDA	56	368106	6365782	Open site	Valid	Artefact : 1			
	Contact	Recorders			eology,Mr.Jaso	n Barr			<u>Permits</u>		
38-4-0980	F1/B	AGD	56	368230	6366600	Open site	Valid	Artefact : -			
	Contact	Recorders	Mr.E	dward Clark	e				<u>Permits</u>		
38-4-0668	FMC6 Donaldson Mine	AGD	56	368400	6366100	Open site	Valid	Artefact : 5			98344
	Contact	Recorders		Effenberger					<u>Permits</u>		
38-4-0472	Site 1;Beresfield;	AGD		372380	6367130	Open site	Valid	Artefact : -		Isolated Find	4211,102222,1 02568
20 4 1022	Contact DDC MV MD1	Recorders		eter Kuskie	6266007	Onon site	Valid	Shell : -	<u>Permits</u>		
38-4-1823	RPS MY MD1	GDA		369143	6366997	Open site	vanu	Sileil : -	D		
20 / 1200	Contact CTGM2 BL	Recorders				nilton,Mr.Ben Slack	Dogtrough	Artofoat	<u>Permits</u>		102000
38-4-1288		GDA		370364	6368087	Open site	Destroyed	Artefact : -		2054	103089
20 / 17/1	Contact	Recorders		•	, ,	CBD,Doctor.Diana Ne	0 , ,	•	<u>Permits</u>	3374	
38-4-1741	AVC5/A	GDA		370457	6366402	Open site	Valid	Artefact : -			
38-4-1289	Contact CTGM3 AT3	Recorders GDA		orey O'Drisc 370646	oll 6368123	Onen site	Partially	Artefact : -	<u>Permits</u>		103089
30-4-1209						Open site	Destroyed			0054 4400	103009
20.4.0604	Contact DIACK HILL 7 (DUZ)	Recorders				CBD,Doctor.Diana Ne				3374,4400	00227 102222
38-4-0604	BLACK HILL 7 (BH7)	AGD		372740	6367410	Open site	Valid	Artefact : -			98227,102222, 102568
	Contact	<u>Recorders</u>	Mr.P	eter Kuskie					<u>Permits</u>		



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688247

<u>Si</u>teID SiteTypes SiteName **Datum** Zone Easting Northing Context Site Status ** SiteFeatures Reports 38-4-0139 Four Mile Creek 1: AGD 56 368130 6367020 Open site Valid Artefact : -Open Camp Site 580,1221 **Permits** Contact Recorders Helen Brayshaw 38-4-0979 F1/C AGD 56 368270 6366880 Open site Valid Artefact: -Recorders Mr.Edward Clarke **Permits** Contact 38-4-0684 ERM site 1-3 AGD 56 368360 6367205 Open site Destroyed Artefact: -Contact Recorders ERM - Thornton **Permits** 1695,1696 38-4-1742 AVC13/A GDA 56 370524 6366621 Open site Valid Artefact: -**Permits** 4400 Contact Recorders Mr.Jason Barr 38-4-1290 CTGM4 MC GDA 56 370764 6368013 Valid Artefact: 1 103089 Open site Contact Recorders ERM Australia Pty Ltd-Sydney CBD,Doctor.Diana Neuweger **Permits** 4400 4642.100898.1 38-4-0410 Woods Gully AGD 56 372200 6366100 Open site Valid Artefact: -Open Camp Site 02222.102568. 102646 Contact Recorders Sue Effenberger **Permits** 1083 38-4-0646 L2 Lenaghans Drive 167 Artefact: 1 102222.10256 AGD 56 372906 6366025 Open site Valid 8 Contact Recorders Rex Silcox **Permits** 1456 38-4-1505 AMA2/C GDA 56 368640 6366511 Open site Valid Artefact: 1 **Permits** Contact Recorders South East Archaeology 38-4-0669 FMC7 Donaldson Mine AGD 56 367600 Valid Artefact: 3 98344 6366500 Open site Contact Recorders Sue Effenberger **Permits** 38-4-0552 South Beresfield Freeway Industrial Estate AGD 56 371575 6368060 Valid Potential 97572,102222 Open site Archaeological Deposit (PAD): -Contact Recorders **Janice Wilson Permits** 102222.10256 38-4-0375 Black Hill 1, BH1 AGD 56 372900 6367200 Open site Destroyed Artefact: -Open Camp Site Recorders **Permits** 658,745,819,831,1062,1074 Contact **Gary Dunnett** 38-4-0425 Black Hill 3 BH3 AGD 56 373100 6365820 Valid Artefact: -Open Camp Site 102568 Open site Contact Recorders Ms.Alison Nightingale **Permits** 983 38-4-1828 AMD203/A **GDA** 56 368172 6364928 Valid Potential Open site Archaeological Deposit (PAD): 1 **Permits** Contact Recorders South East Archaeology, Mr. Corey O'Driscoll 38-4-1503 AMA2/A GDA 56 368590 6366390 Valid Artefact: 6 Open site **Permits** Contact Recorders South East Archaeology 38-4-1834 Black Hill Power Artefact 1 **GDA** 56 372538 6367984 Open site Valid Artefact: 1 Contact Recorders Jacobs Group (Australia) Ptv Ltd - Newcastle, Mr. Andv Roberts **Permits** 38-4-1506 AMB1/A **GDA** 56 369242 6364779 Valid Grinding Groove: 2 Open site

Report generated by AHIMS Web Service on 03/06/2022 for Steph Howden for the following area at Lat, Long From: -32.8522, 151.5863 - Lat, Long To: -32.8161, 151.6481. Number of Aboriginal sites and Aboriginal objects found is 48



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688247

SiteID SiteName Datum Zone **Easting** Northing Context Site Status ** SiteFeatures SiteTypes Reports Contact Recorders South East Archaeology **Permits** 38-4-0339 Ironbark 2: AGD 56 369190 6367890 Open site Valid Artefact: -Isolated Find 2681 Contact Recorders Ms.Jill Ruig **Permits** 1902 38-4-1504 AMA2/B **GDA** 56 368703 6366603 Open site Valid Artefact: 3 Contact Recorders South East Archaeology **Permits** 38-4-0987 Valid Artefact: -. Grinding A22/A AGD 56 368730 6367650 Open site Groove: -Contact T Russell Recorders Mr.Edward Clarke **Permits** Aboriginal Resource 38-4-0958 A20/C AGD 56 368730 6367910 Open site Valid and Gathering: 1 Contact S Scanlon Recorders Mr.Edward Clarke **Permits** 38-4-1009 AGD 56 368810 6366880 Open site Valid Artefact: 2 F2/A Contact T Russell Recorders South East Archaeology **Permits** 38-4-1688 CTGM PAD1 artefacts GDA 56 370698 6368094 Open site Valid Artefact : -Contact Recorders Mr.John Simpson **Permits** 4400 Donaldson Monitoring Site 3 (DMS3) 38-4-0620 AGD 56 369090 6367962 Open site Valid Artefact: 1 100960 Contact Recorders Umwelt (Australia) Pty Limited - Individual users **Permits** 1902 38-4-0985 AGD 56 367720 Valid Artefact: -, Grinding Abel 1 6364240 Open site Groove: -Contact Recorders Mr.Peter Kuskie **Permits** 38-4-1809 Hunter River AS2 with PAD Valid Artefact: 1, Potential **GDA** 56 368904 6368061 Open site Archaeological Deposit (PAD): 1 **Contact** Recorders Mrs.Mary-Jean Sutton, Virtus Heritage Pty Ltd - Pottsville **Permits** 4421 38-4-1743 DIOCESE 1 **GDA** 56 370732 Valid Artefact: -6366463 Open site Contact Recorders Mr.Corey O'Driscoll **Permits** GDA Valid Artefact: 3 38-4-1337 Black Hill 2 56 371914 6366664 Open site Contact Recorders Doctor.Tim Owen.ERM Australia Ptv Ltd- Svdnev CBD **Permits** 100898,10222 AGD 6365250 Valid Artefact: -38-4-0376 ISF3/ISF4; 56 372050 Open site Open Camp Site 2,102568,1026 46 Contact Recorders Sue Effenberger **Permits** 1057,1083 38-4-0685 ERM site 5-6 AGD 56 369148 6367385 Open site Destroyed Artefact: -Contact Recorders ERM - Thornton **Permits** 1695.1696 38-4-0686 ERM site 4 AGD 56 369275 6367572 Artefact: -Open site Destroyed Contact Recorders ERM - Thornton **Permits** 1695,1696 Beresfiled WP-AS2 artefacts GDA 56 371048 Artefact: -38-4-1687 6368217 Open site Valid Contact Recorders Mr.John Simpson **Permits** 4400 38-4-0140 Four Mile Creek 2; AGD 56 367820 6366880 Open site Valid Artefact: -Open Camp Site 580,1221

Report generated by AHIMS Web Service on 03/06/2022 for Steph Howden for the following area at Lat, Long From : -32.8522, 151.5863 - Lat, Long To : -32.8161, 151.6481. Number of Aboriginal sites and Aboriginal objects found is 48



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688247

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
	<u>Contact</u>	Recorders	Heler	n Brayshaw				<u>Permits</u>		
38-4-1336	Black Hill 1	GDA	56	372098	6368010	Open site	Valid	Artefact : 1		
	Contact	Recorders	Docto	or.Tim Owen	ERM Australi	a Pty Ltd- Sydney CBI	D	<u>Permits</u>		

** Site Status

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified



Extensive search - Site list report

Your Ref/PO Number : 21450

Client Service ID: 688250

GOVERNMENT											
<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeature</u>	<u>s</u>	<u>SiteTypes</u>	<u>Reports</u>
8-4-1151	Louth Park 1(LP1)	GDA	56	364435	6371717	Open site	Destroyed	Artefact: 5			101348
	Contact	Recorders	MCH	I - McCardle	Cultural Herita	ge Pty Ltd			Permits		
38-4-1633	Bloomfield 17	GDA	56	364694	6368939	Open site	Valid	Artefact : -			
	Contact	Recorders	Sout	th East Archa	eology				Permits		
38-4-1051	Bloomfield 2	GDA	56	365140	6369510	Open site	Destroyed	Artefact : 1			
	Contact	Recorders	Mr.I	eter Kuskie,	South East Arc	naeology			Permits Permits		
38-4-1008	A21/A	AGD	56	368510	6368460	Open site	Valid	Artefact: 3			
	<u>Contact</u> T Russell	Recorders	Sout	th East Archa	eology				Permits		
38-4-1136	HLA Risk Assessment Isolated Find	AGD	56	368563	6369052	Open site	Valid	Artefact : 1			
	Contact	Recorders	<u>AEC</u>	OM Australia	Pty Ltd - Sydn	ey			Permits Permits	2809,3011	
38-4-0984	A17/A	AGD	56	368090	6369580	Open site	Valid	Artefact : -, (Grinding		
	Combach III II	Danaud						Groove : -	Dait-		
38-4-1048	Contact T Russell Bloomfield 20	Recorders GDA		Edward Clark 364780	e 6368530	Open site	Destroyed	Artefact : 4	<u>Permits</u>		
30-4-1040						Open site	Destroyed		D		
38-4-1050	Contact Bloomfield 16	Recorders GDA	_	eter Kuskie, 364750	South East Arcl 6369020	Open site	Destroyed	Artefact : 1	<u>Permits</u>		
30-4-1030							Destroyeu		Da		
38-4-1047	Contact Bloomfield 22	Recorders GDA		364820	South East Arcl 6368380	Open site	Destroyed	Artefact : 2	<u>Permits</u>		
30-4-1047						•	Destroyeu		Danmita		
38-4-1012	Contact A7/A	Recorders AGD		eter Kuskie,: 366730	South East Arcl 6370500	Open site	Valid	Artefact : 1	<u>Permits</u>		102388
30-4-1012	<u>'</u>					Open site	vanu		Danmita		102300
38-4-0338	Contact T Russell Ironbark 1;	AGD		th East Archa 367590	6369690	Open site	Valid	Artefact : -	<u>Permits</u>	Isolated Find	2681,102388
30-4-0330					0307070	open site	vanu		Downita	isolated i iliu	2001,102300
38-4-0959	Contact A20/A	Recorders AGD		ill Ruig 368570	6368450	Open site	Valid	Artefact : 1	Permits Permits		
30 1 0737	Contact S Scanlon	Recorders		Edward Clark		open site	vana		Permits		
38-4-0665	FMC3 Donaldson Mine	AGD		368300	6368900	Open site	Valid	Artefact : 5,			98344
50 1 0005	THOS DOMINGS IN THE	Hab	50	500500	0500700	open site	vana	Groove: 1	aa		30011
	Contact	Recorders	Sue	Effenberger					Permits Permits		
38-4-1049	Bloomfield 18	GDA	56	364580	6368530	Open site	Destroyed	Artefact: 18			
	Contact	Recorders	Mr.I	eter Kuskie,	South East Arc	naeology			Permits		
38-4-1010	A17/C	AGD	56	367920	6369120	Open site	Valid	Artefact : -			
	<u>Contact</u> T Russell	Recorders	Sout	th East Archa	eology				Permits Permits		
38-4-0339	Ironbark 2;	AGD	56	369190	6367890	Open site	Valid	Artefact : -		Isolated Find	2681
	Contact	Recorders	Ms.J	ill Ruig					Permits	1902	
38-4-1152	Louth Park 2 (LP2)	GDA	56	364435	6371717	Open site	Destroyed	Artefact : 1			101348
	Contact	Recorders	MCI	I - McCardle	Cultural Herita	ge Pty Ltd,MCH -	McCardle Cultural He	ritage Pty Lt	Permits		
38-4-0640	Donaldson Monitoring Site 4 (DMS4)	AGD	56	368649	6368181	Open site	Valid	Artefact: 1			100960



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688250

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatures</u>	<u>SiteTypes</u>	Reports
	Contact	Recorders	Umw	velt (Australia	a) Pty Limited	- Individual users		<u>Permits</u>		
38-4-0672	ISF3 Donaldson Mine	AGD	56	368700	6368625	Open site	Valid	Artefact : 1		98344
	Contact	<u>Recorders</u>	Umw	velt (Australia	a) Pty Limited	- Individual users		<u>Permits</u>		
38-4-0958	A20/C	AGD	56	368730	6367910	Open site	Valid	Aboriginal Resource and Gathering : 1		
	<u>Contact</u> S Scanlon	Recorders	Mr.E	dward Clarke	e			<u>Permits</u>		
38-4-0620	Donaldson Monitoring Site 3 (DMS3)	AGD	56	369090	6367962	Open site	Valid	Artefact : 1		100960
	Contact	<u>Recorders</u>	Umw	velt (Australia	a) Pty Limited	- Individual users		Permits	1902	
38-4-1014	A17/B	AGD	56	367690	6369200	Open site	Valid	Artefact : 2		102388
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.E	dward Clarke	9			<u>Permits</u>		
38-4-1809	Hunter River AS2 with PAD	GDA	56	368904	6368061	Open site	Valid	Artefact : 1, Potential		
								Archaeological		
	Contact	Recorders	Mrs I	Mary-Iean Su	tton Virtus He	ritage Pty Ltd - Potts	zville	Deposit (PAD) : 1 Permits	4421	
38-4-1011	A15/1	AGD		367770	6369590	Open site	Valid	Artefact : 10	1121	102388
	Contact T Russell	Recorders		h East Archae				Permits		
38-4-0666	FMC4 Donaldson Mine	AGD		368250	6368650	Open site	Valid	Artefact : 2		98344
	Contact	Recorders	Sue E	Effenberger				Permits Permits	2809,3011	
38-4-0667	FMC5 Donaldson Mine	AGD	56	368500	6368700	Open site	Valid	Artefact: 3		98344
	Contact	Recorders	Sue E	Effenberger				<u>Permits</u>		
38-4-1060	Bloomfield 19	GDA	56	364630	6368460	Open site	Destroyed	Artefact : 15		
	Contact	Recorders	Mr.P	eter Kuskie,S	outh East Arc	naeology		<u>Permits</u>		
38-4-0687	ERM site 7	AGD	56	366500	6367650	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	Recorders	ERM	- Thornton				<u>Permits</u>	1695,1696	

** Site Status

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified



Extensive search - Site list report

Your Ref/PO Number : 21450

Client Service ID: 688254

GOVERNMENT											
SiteID	<u>SiteName</u>	<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatur</u>	res	<u>SiteTypes</u>	<u>Reports</u>
8-4-1151	Louth Park 1(LP1)	GDA	56	364435	6371717	Open site	Destroyed	Artefact : 5	5		101348
	Contact	Recorder	s MCI	H - McCardle	Cultural Herita	ge Pty Ltd			Permits		
38-4-1142	Louth Park PAD 1	GDA		364665	6373290	Open site	Valid	Potential Archaeolog Deposit (P.	AD) : -	2426.2254	
10.4.4066	Contact	Recorders				Diana Neuweger	77 1: 1	A . C .		3136,3251	00050
38-4-1066	Waterforde A3	GDA		364711	6372835	Open site	Valid	Artefact : -			98052
00.4.0550	Contact	Recorder		Wheeler	(050050	0 "	77.31.3	D l	<u>Permits</u>		100000
38-4-0558	Waterforde Stage 4 PAD	AGD	56	364900	6372850	Open site	Valid	Potential Archaeolog Deposit (P.	_		102388
	<u>Contact</u>	Recorder	<u>s</u> Ms.)	ill Ruig					Permits	1295	
37-6-2007	KR04	GDA	56	357367	6370539	Open site	Valid	Artefact : -			
	Contact	Recorder	<u>s</u> Aus	tralian Museı	um Consulting	(AM Consulting),Mr	s.Tessa Boer-Mah		<u>Permits</u>	3201	
37-6-2006	KR03	GDA	56	357491	6370454	Open site	Valid	Artefact : -			
	Contact	Recorder	<u>s</u> Aus	tralian Museı	ım Consulting	(AM Consulting),Mr	s.Tessa Boer-Mah		Permits	3201	
37-6-3058	Hydro-AS15-14	GDA	56	357565	6372127	Open site	Valid	Artefact : -			
	Contact	Recorder	<u>s</u> And	rew McLaren	1				Permits		
38-4-1713	Hydro-AS04-14	GDA	56	360085	6373261	Open site	Valid	Artefact : -			
	Contact	Recorder	s And	rew McLaren	1				Permits		
38-4-2122	GH21-PAD-4	GDA	56	361870	6371974	Open site	Valid	Potential Archaeolog Deposit (P.			
	Contact	Recorder	<u>s</u> Nicl	ne Environme	ent and Heritag	ge,Niche Environme	nt and Heritage,Nic	he Environm	Permits		
37-6-1962	KK14	GDA	56	356727	6372857	Open site	Valid	Artefact : 1	L		102231
	Contact	Recorder	<u>s</u> Aus	tralian Museı	ım Consulting	(AM Consulting),Mr	s.Tessa Boer-Mah		Permits	3203	
37-6-1964	KK16	GDA	56	356790	6373144	Open site	Valid	Artefact : -			102231
	<u>Contact</u>	Recorder	<u>s</u> Aus	tralian Museı	ım Consulting	(AM Consulting),Mr	s.Tessa Boer-Mah		Permits		
37-6-3055	Hydro-AS12-14	GDA	56	357175	6372186	Open site	Valid	Artefact : -			
	Contact	Recorder	<u>s</u> And	rew McLaren	1				Permits		
37-6-3969	Hydro-IA35-15	GDA	56	357209	6371474	Open site	Valid	Artefact : -			
	Contact	Recorder	s AEC	OM Australia	Ptv Ltd - Svdr	ey,Doctor.Andrew l	Peter Mclaren		Permits		
37-6-3068	Hydro-AS26-14	GDA	56	357247	6371141	Open site	Valid	Artefact : -			
	Contact	Recorders	s McI	achlan Thorp	ne Partners				<u>Permits</u>		
37-6-3054	Hydro-AS11-14	GDA		357628	6372468	Open site	Valid	Artefact : -			
	Contact	Recorder		rew McLaren		-			<u>Permits</u>		
37-6-3056	Hydro-AS13-14	GDA	_	357378	6372130	Open site	Valid	Artefact : -			
	•										



Extensive search - Site list report

Your Ref/PO Number : 21450

Client Service ID: 688254

GOVERNMENT											
<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatur</u>	es	<u>SiteTypes</u>	<u>Reports</u>
37-6-3059	Hydro-AS16-14	GDA	56	357531	6372061	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					Permits		
37-6-1652	Northern Swamp Tributaries 2	AGD	56	356637	6372207	Open site	Valid	Artefact : 2			100062,10223 1
	<u>Contact</u> Searle	Recorders	Ms.T	udur Llwyd l	Davies				<u>Permits</u>	2520,2660,3151,3203	
37-6-1361	Swamp Creek RTA 9	AGD	56	357005	6370549	Open site	Valid	Artefact: 7			
	Contact	Recorders	Umv	velt (Australi	a) Pty Limited	- Individual users,Le	ila McAdam		Permits	2102	
37-6-3069	Hydro-AS27-14	GDA	56	357148	6370939	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					Permits		
37-6-3064	Hydro-AS21-14	GDA	56	357637	6371864	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					Permits		
37-6-3051	Hydro-AS08-14	GDA	56	358265	6372585	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					<u>Permits</u>		
38-4-0871	Waterforde 1	GDA	56	364591	6373235	Open site	Valid	Artefact: 1	1		98052,10238
	<u>Contact</u> T Russell	Recorders	j Jim V	Wheeler					Permits		
38-4-1067	Waterforde A7	GDA	56	364751	6373035	Open site	Valid	Artefact : -			98052
	Contact	Recorders	Jim V	Wheeler					<u>Permits</u>		
37-6-3065	Hydro-AS22-14	GDA	56	357458	6371685	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					Permits		
38-4-2015	TH-IF-001	GDA	56	361866	6371651	Open site	Valid	Artefact: 1			
	Contact	Recorders	Kaya	ındel Archae	ological Servic	es,Miss.Meg Walker			<u>Permits</u>		
38-4-2121	GH21-PAD-3	GDA	56	362163	6372283	Open site	Valid	Potential Archaeolog Deposit (PA			
	Contact	Recorders	Nich	e Environme	nt and Heritag	ge,Niche Environmen	t and Heritage,Nic	he Environm	Permits		
37-6-1961	KK13	GDA	56	356713	6372765	Open site	Valid	Artefact: 1			102231
	Contact	Recorders	Aust	ralian Museu	m Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		<u>Permits</u>	3203	
38-4-0627	Waterforde 4/PAD1/01-02	AGD	56	364904	6373132	Open site	Valid	Artefact : 1			98151,10238
	Contact	Recorders	MCH	- McCardle (Cultural Herita	ge Pty Ltd			Permits	1390,1410,2120	
37-6-3057	Hydro-AS14-14	GDA	56	357432	6372247	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					<u>Permits</u>		
38-4-1712	Hydro-AS03-14	GDA	56	360138	6373383	Open site	Valid	Artefact : -			
	Contact	Recorders	Andı	ew McLaren					Permits		
38-4-1839	PAD GH1	GDA	56	361758	6373304	Open site	Not a Site	Potential Archaeolog Deposit (PA			
	<u>Contact</u>	Recorders	RPS	Australia Eas	t Pty Ltd - Har	nilton,RPS Australia l	East Pty Ltd - Ham	ilton,Mr.Ben	Permits	4066	
38-4-2117	GH21-IF-2	GDA	56	362258	6372387	Open site	Valid	Artefact : -			



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688254

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	Easting	Northing	·	Site Status **	<u>SiteFeatur</u>	<u>es</u>	<u>SiteTypes</u>	<u>Reports</u>
	Contact	Recorders				e,Mr.Riley Finnerty			<u>Permits</u>		
38-4-1726	Waterforde Est Stock Pile	GDA	56	364232	6373189	Open site	Valid	Artefact : -			
	Contact	Recorders	Ms.V	iki Gordon					Permits	3887	
38-4-1715	Hydro-AS06-14	GDA	56	359994	6373142	Open site	Valid	Artefact : -			
	Contact	Recorders	Andr	ew McLaren					Permits		
37-6-1959	KK11	GDA	56	357079	6371849	Open site	Valid	Artefact: 1			102231
	Contact	Recorders	Aust	ralian Museu	m Consulting ((AM Consulting),Mrs.	.Tessa Boer-Mah		Permits	3203	
37-6-3061	Hydro-AS18-14	GDA	56	358062	6372025	Open site	Valid	Artefact : -			
	Contact	Recorders	Andr	ew McLaren					Permits		
37-6-3053	Hydro-AS10-14	GDA	56	358096	6372326	Open site	Valid	Artefact : -			
	Contact	Recorders	Andr	ew McLaren					<u>Permits</u>		
37-6-3063	Hydro-AS20-14	GDA	56	358459	6371828	Open site	Valid	Artefact : -			
	Contact	Recorders	Andr	ew McLaren					Permits		
38-4-1068	Waterforde A10	GDA	56	364731	6373185	Open site	Valid	Artefact : -			98052
	Contact	Recorders	Iim V	Vheeler					Permits		
37-6-3050	Hydro-AS07-14	GDA	56	359003	6372353	Open site	Valid	Artefact : -			
	Contact	Recorders	Andr	ew McLaren					Permits		
38-4-1714	Hydro-AS05-14	GDA		360256	6373012	Open site	Valid	Artefact : -			
	Contact	Recorders	Andr	ew McLaren					<u>Permits</u>		
38-4-2116	GH21-IF-1	GDA	56	362407	6372909	Open site	Valid	Artefact : -			
	Contact	Recorders	Nich	e Environme	nt and Heritag	e,Mr.Riley Finnerty			Permits		
38-4-1153	Louth Park PAD1 (LP PAD1)	GDA		363550	6372330	Open site	Destroyed	Potential			101348,10223
								Archaeolog	ical		1
								Deposit (PA	-		
	Contact	Recorders				ge Pty Ltd,RPS Austra			<u>Permits</u>	4587	
37-6-1363	PAD11 Black Waterholes Creek	AGD	56	356091	6371356	Open site	Valid	Potential	. 1		102231
								Archaeolog Deposit (PA			
	Contact	Recorders	Ilmw	elt (Australi:	a) Ptv Limited	- Individual users,Le	ila McAdam	Deposit (F	Permits	2096	
37-6-1343	Black Waterholes Creek RTA 3 IF	AGD		356293	6371108	Open site	Valid	Artefact : 1			102231
	Contact	Recorders				- Individual users,Le			<u>Permits</u>	2102	
37-6-1963	KK15	GDA		356790	6373144	Open site	Valid	Artefact : 1	1 01 1111113	L10L	102231
	Contact	Recorders				(AM Consulting),Mrs.			<u>Permits</u>		
37-6-1960	KK12	GDA		356887	6371887	Open site	Valid	Artefact : 1	1 CI IIIICS		102231
37 0 1700						•		In telact. I	Dormite	2202	102201
	Contact	Recorders	Aust	ranan Museu	m Consulting ((AM Consulting),Mrs.	. ressa Boer-Mah		<u>Permits</u>	3203	



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688254

SiteID	<u>SiteName</u>	<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatures</u>		<u>SiteTypes</u>	Reports
45-3-3387	KK04 (Wyong)	GDA	56	357942	6371717	Open site	Valid	Artefact : 103, Potential Archaeological Deposit (PAD) :	-		
	Contact	Recorders	Aust	ralian Museu	ım Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah	<u>Per</u>	<u>mits</u>	3151,3203	
38-4-0629	Waterforde 4/PAD1/12	AGD	56	365156	6373033	Open site	Valid	Artefact : 1			98151,102388
	Contact	Recorders	MCH	- McCardle (Cultural Herita	ge Pty Ltd		<u>Per</u>	mits	1390,1410,2120	
38-4-1152	Louth Park 2 (LP2)	GDA	56	364435	6371717	Open site	Destroyed	Artefact : 1			101348
	Contact	Recorders	MCF	- McCardle (Cultural Herita	ge Pty Ltd,MCH - Mc0	Cardle Cultural He	ritage Pty Lto Per	mits		
38-4-1143	Louth Park I A1	GDA	56	364562	6373094	Open site	Valid	Artefact : 1			
	Contact	Recorders	Doct	or.Diana Neu	ıweger			<u>Per</u>	mits	3136,3251	
38-4-0628	Waterforde 4/PAD1/13	AGD	56	365044	6373071	Open site	Valid	Artefact : 1			98151,102388
	Contact	Recorders	MCF	- McCardle (Cultural Herita	ge Pty Ltd		<u>Per</u>	mits	1390,1410,2120	
37-6-1360	Swamp Creek RTA 8 IF	AGD	56	357269	6370282	Open site	Valid	Artefact : 1			
	Contact	Recorders	Umv	velt (Australi	a) Pty Limited	- Individual users,Le	ila McAdam	<u>Per</u>	mits	2102	
38-4-1722	Watreforde estate 10/1	GDA	56	364234	6373332	Open site	Valid	Artefact : -			
	Contact	Recorders	Ms.F	enny Mccard	lle			<u>Per</u>	mits	3824,3887	
37-6-1953	KK03	GDA	56	359355	6370790	Open site	Valid	Artefact : 10			
	Contact	Recorders	Aust	ralian Museu	ım Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah	<u>Per</u>	mits	3203	
37-6-1956	KK08	GDA	56	359497	6370657	Open site	Destroyed	Artefact : 1			103000,10300 1
	Contact	Recorders			ım Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		<u>mits</u>	3203,3640	
37-6-1644	Swamp Creek Catchment 5	AGD	56	356949	6370574	Open site	Valid	Artefact : 2			100062
	<u>Contact</u> Searle	Recorders	Ms.7	udur Llwyd I	Davies			<u>Per</u>	mits	2520,2660	
37-6-2008	KR05	GDA	56	357171	6370683	Open site	Valid	Artefact : -			
	Contact	Recorders	Aust	ralian Museu	ım Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		<u>mits</u>	3201	
37-6-3062	Hydro-AS19-14	GDA	56	357827	6371996	Open site	Valid	Artefact : -			
	Contact	Recorders	And	rew McLaren	l			<u>Per</u>	mits		
38-4-0632	Waterforde 4/PAD1/18	AGD	56	365045	6373141	Open site	Valid	Artefact : 1			98151,102388
	Contact	Recorders	MCF	- McCardle (Cultural Herita	ge Pty Ltd		<u>Per</u>	<u>mits</u>	1390,1410,2120	
37-6-3872	Hydro PAD 1	GDA	56	357445	6371592	Open site	Not a Site	Potential Archaeological Deposit (PAD) :	-		104816
	<u>Contact</u>	Recorders			, ,	ey,Doctor.Andrew Pe			mits		
38-4-1997	TH-PAD-002	GDA		361760	6372040	Open site	Valid	Potential Archaeological Deposit (PAD) :		4500	
	Contact	Recorders	Kaya	indel Archae	otogical Servic	es,Miss.Meg Walker		<u>Per</u>	<u>mits</u>	4580	



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688254

<u>Si</u>teID SiteName **Datum** Zone Easting Northing Context Site Status ** SiteFeatures SiteTypes Reports 38-4-2119 GH21-IF-4 GDA 56 361821 6372048 Open site Valid Artefact : -**Permits** Contact Recorders Niche Environment and Heritage, Mr. Riley Finnerty 38-4-2118 GH21-IF-3 GDA 56 362167 6372472 Open site Valid Artefact: -, Potential Archaeological Deposit (PAD): -Contact Recorders Niche Environment and Heritage, Niche Environment and Heritage, Niche Environm 38-4-2120 GH21-PAD-1 **GDA** 56 362378 6372942 Open site Valid Potential Archaeological Deposit (PAD): -Contact Niche Environment and Heritage, Niche Environment and Heritage, Niche Environm 38-4-1155 Louth Park PAD3 (LP PAD3) GDA 56 363800 6372400 Open site Potential 101348,10223 Destroyed Archaeological 1 Deposit (PAD): -Contact Recorders MCH - McCardle Cultural Heritage Pty Ltd **Permits** 38-4-1735 LP3 GDA 56 363979 6372660 Valid Modified Tree Open site (Carved or Scarred): Contact Recorders Ms.Viki Gordon **Permits** 37-6-3067 Hydro-AS25-14 GDA 56 356555 6371753 Open site Valid Artefact: -Recorders **Permits** Contact Andrew McLaren Northern Swamp Tributaries 4 56 356724 Valid Artefact: 29 100062,10223 37-6-1650 AGD 6371757 Open site Contact Searle Recorders Ms. Tudur Llwyd Davies **Permits** 2520.2660.3151.3203 37-6-3070 Hydro-AS28-14 GDA 56 357219 6370703 Open site Valid Artefact: -Contact Recorders Andrew McLaren **Permits** 37-6-3052 Hydro-AS09-14 GDA 56 358412 6372339 Open site Valid Artefact: -**Contact** Recorders Andrew McLaren **Permits** 38-4-0870 Waterforde 2 GDA 56 364629 6373432 Artefact: 2 98052,102388 Open site Valid Recorders Contact T Russell Jim Wheeler **Permits** 3136,3251 37-6-1958 Artefact: 3 102231 KK10 **GDA** 56 357407 6371800 Open site Valid Contact Recorders Australian Museum Consulting (AM Consulting), Mrs. Tessa Boer-Mah **Permits** 3203 38-4-0898 Cliftleigh 1 AGD 56 361284 6371336 Open site Valid Artefact: 1 102231.10238 8 **Permits** Contact T Russell Recorders Ms.Penny Mccardle 38-4-1998 TH-AS-001 **GDA** 56 361660 6371648 Open site Valid Artefact: 1. Potential Archaeological Deposit (PAD): 1 Contact Recorders Kayandel Archaeological Services, Miss. Meg Walker **Permits** 4580 GDA 56 359541 37-6-3073 Hydro-AS31-14 6371256 Open site Valid Artefact: -**Permits** Contact Recorders Andrew McLaren

Report generated by AHIMS Web Service on 03/06/2022 for Steph Howden for the following area at Datum : GDA, Zone : 56, Eastings : 356119.0 - 365352.0, Northings : 6370418.0 - 6373542.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 86



Extensive search - Site list report

Your Ref/PO Number: 21450 Client Service ID: 688254

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	Zone	Easting	Northing	<u>Context</u>	Site Status **	<u>SiteFeatur</u>	<u>es</u>	<u>SiteTypes</u>	<u>Reports</u>
37-6-2009	KR06	GDA	56	356187	6371481	Open site	Valid	Artefact : -			102231
	Contact	Recorders	Aust	ralian Museu	m Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		<u>Permits</u>	3201	
37-6-1325	Swamp Creek RTA 10 IF (SWC RTA 10IF)	AGD	56	356447	6370271	Open site	Valid	Artefact: 1			
	Contact	Recorders	Umv	velt (Australia	a) Pty Limited	- Individual users,Le	eila McAdam		Permits	2102	
37-6-1356	Swamp Creek RTA 4	AGD	56	356557	6370688	Open site	Valid	Artefact : 4			
	Contact	Recorders	Umv	velt (Australia	a) Pty Limited	- Individual users,Le	eila McAdam		<u>Permits</u>	2102	
37-6-1955	KK07	GDA	56	356742	6372396	Open site	Valid	Artefact: 2			102231
	Contact	Recorders	Aust	ralian Museu	m Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		Permits	3151,3203	
37-6-3060	Hydro-AS17-14	GDA	56	357897	6372119	Open site	Valid	Artefact : -			
	Contact	Recorders	And	rew McLaren					<u>Permits</u>		
37-6-3071	Hydro-AS29-14	GDA	56	358225	6371002	Open site	Valid	Artefact : -			
	Contact	Recorders	And	rew McLaren					Permits		
37-6-1957	KK09	GDA	56	358372	6371638	Open site	Valid	Artefact: 1			102231
	Contact	Recorders	Aust	ralian Museu	m Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		<u>Permits</u>	3203	
37-6-3072	Hydro-AS30-14	GDA	56	358420	6371046	Open site	Valid	Artefact : -			
	Contact	Recorders	And	rew McLaren					Permits		
37-6-1954	KK05	GDA	56	358577	6371627	Open site	Valid	Artefact: 1	7		102231
	Contact	Recorders	Aust	ralian Museu	m Consulting	(AM Consulting),Mrs	.Tessa Boer-Mah		<u>Permits</u>	3203	

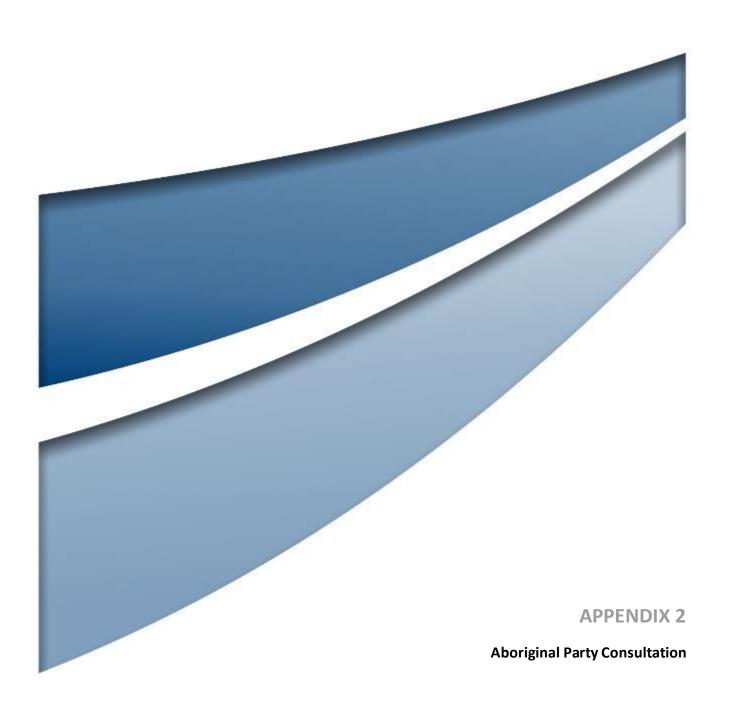
** Site Status

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified



Stephanie Howden

From: Stephanie Howden

Sent: Thursday, 21 July 2022 9:13 AM
Cc: Alison Fenwick; Tim Adams

Subject: Kurri Kurri Lateral Pipeline additional survey (our ref: 21450)

Hi All

Hope you are well. APA has had to make another change to the alignment on Ashtonfield's land (the previous areas were not feasible due to other studies that were done). This means there is another small area to be surveyed. Are you all free on Wed 3 August? It will probably only be an hr or two but APA has asked to engage you for the whole day just in case there are some other changes that happen between now and then (though they think this is unlikely).

I am on leave at the moment and will be working up in the Northern Territory when the survey will happen, so Alison Fenwick from Umwelt is going to do the survey with you. The area is right near the creek (on an elevated area) so it is likely that there will be PAD in the area that will need testing in the future.

We haven't go the time organised yet, but Alison will be in touch early on the week of the survey to confirm with you. I have cc'd Alison into this email so you have her details

Cheers Steph

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Stephanie Howden

From: Stephanie Howden

Sent: Monday, 30 May 2022 1:27 PM **To:** admin@mindaribbalalc.org

Subject: FW: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hello

As discussed, here is the email that I sent to Tara re heritage survey work

Cheers Steph

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Stephanie Howden

Sent: Monday, 23 May 2022 7:04 PM

Subject: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hello All

Thank you for your work to date on the Kurri Kurri Lateral Pipeline project. Following our fieldwork survey and ACHA reporting, APA have advised Umwelt of a few minor changes to the alignment based on the various technical environmental reports for the project. Some of these areas were not subject to survey during our initial fieldwork and have not been adequately covered by the previous surveys (circled in red on Figures below). As a result, APA have requested that we undertake a heritage survey for these areas.

It is estimated that the fieldwork will be completed over 2-3 days. As your organisation was one of the original RAPs to express interest in fieldwork, we request one representative from your organisation participate in the additional fieldwork. I will be in touch to discuss the details of the survey; however, we would like to complete the fieldwork between Monday to Wednesday 6-8 June, 2022. As with the previous fieldwork, Umwelt will be engaging your organisation directly on APA's behalf.

If this is suitable, can you please provide me with the name of your representative and confirm your daily rate.

I will be in touch soon to discuss and let you know if any other information is required (such as updated insurance information). However, please do not hesitate to contact me on 0456196274 should you require clarification or further information.

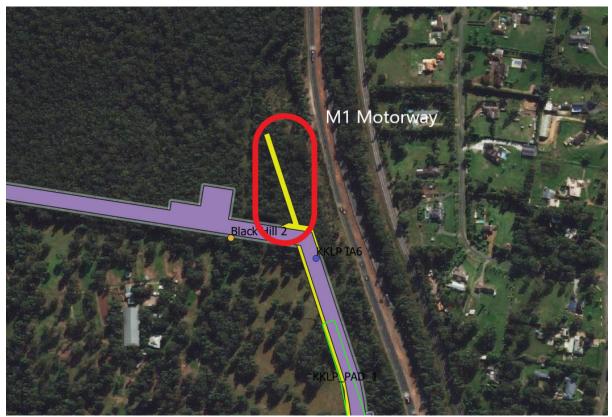


Figure 1 – Additional area adjacent to the M1 Motorway easement

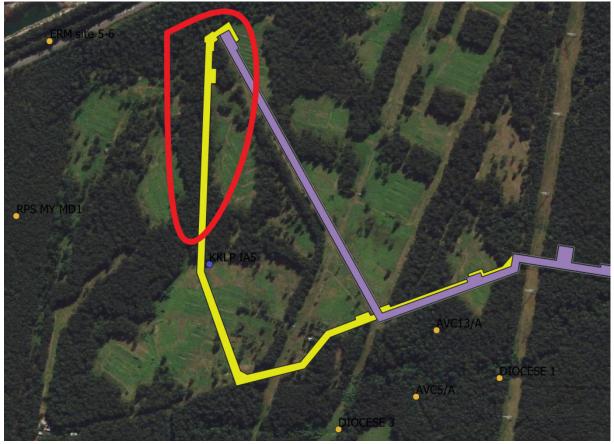


Figure 2 – Area on Catholic diocese land south of John Renshaw Drive

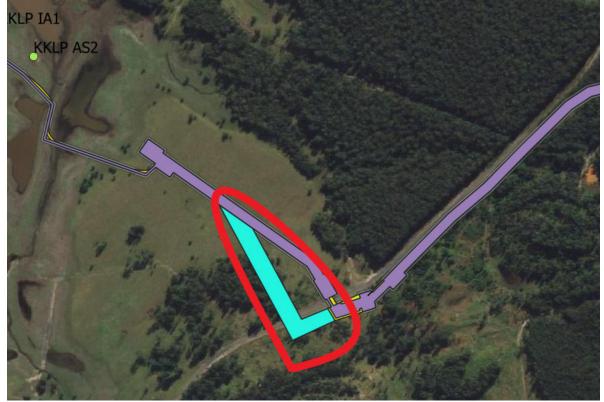


Figure 3 – Area on Able Mine site off Buchanan Road

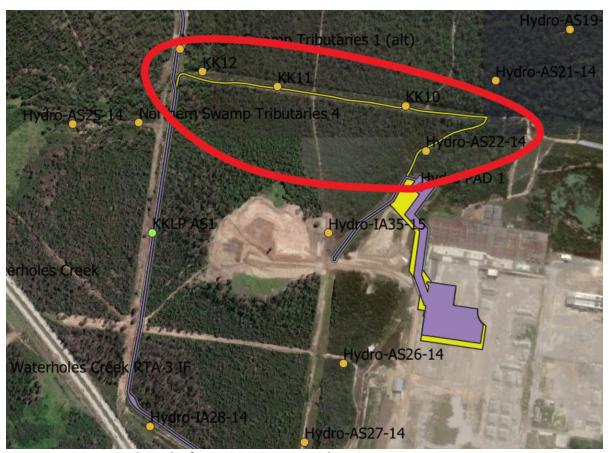


Figure 4 – Access track on the former Kurri Kurri Smelter site.

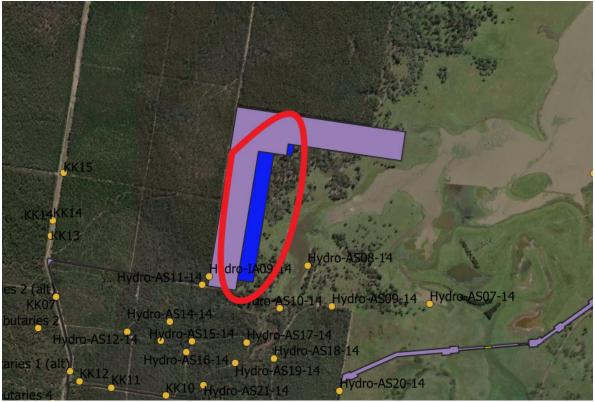


Figure 5 – Area adjacent to Swamp Creek to the north of the former Kurri Kurri Smelter site.

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Stephanie Howden

From: Stephanie Howden

Sent: Monday, 30 May 2022 1:23 PM **To:** Danny Franks; Sarah Franks

Subject: FW: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hi Danny

Just following up on my email and phone message. Just wondering if you would have someone available to survey next week for the KKLP Project (see more info in my email below). It would be good if Mary could come again and that way we don't have to worry about inductions (since she already completed them). If Mary isn't available just let me know and I can send through the induction link.

Cheers Steph

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Stephanie Howden

Sent: Monday, 23 May 2022 7:04 PM

Subject: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hello All

Thank you for your work to date on the Kurri Kurri Lateral Pipeline project. Following our fieldwork survey and ACHA reporting, APA have advised Umwelt of a few minor changes to the alignment based on the various technical environmental reports for the project. Some of these areas were not subject to survey during our initial fieldwork and have not been adequately covered by the previous surveys (circled in red on Figures below). As a result, APA have requested that we undertake a heritage survey for these areas.

It is estimated that the fieldwork will be completed over 2-3 days. As your organisation was one of the original RAPs to express interest in fieldwork, we request one representative from your organisation participate in the additional fieldwork. I will be in touch to discuss the details of the survey; however, we would like to complete the fieldwork between Monday to Wednesday 6-8 June, 2022. As with the previous fieldwork, Umwelt will be engaging your organisation directly on APA's behalf.

If this is suitable, can you please provide me with the name of your representative and confirm your daily rate.

I will be in touch soon to discuss and let you know if any other information is required (such as updated insurance information). However, please do not hesitate to contact me on 0456196274 should you require clarification or further information.

Cheers Steph

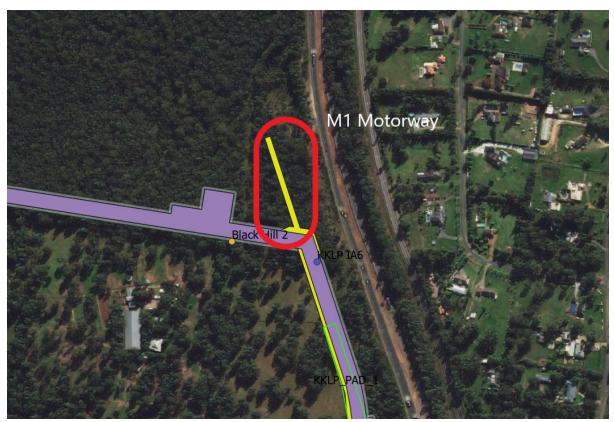


Figure 1 – Additional area adjacent to the M1 Motorway easement

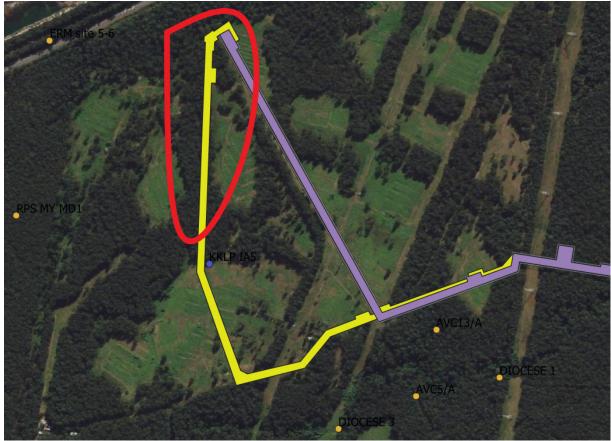


Figure 2 – Area on Catholic diocese land south of John Renshaw Drive

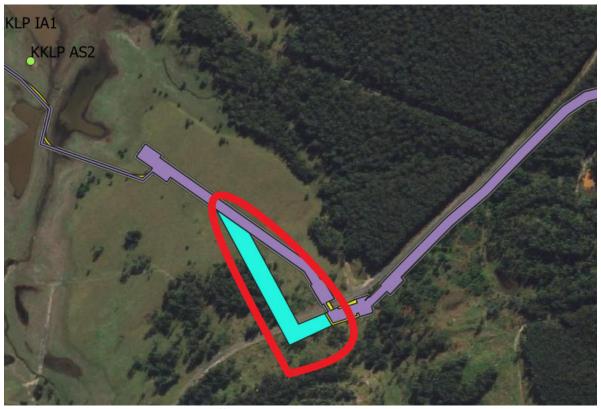


Figure 3 – Area on Able Mine site off Buchanan Road

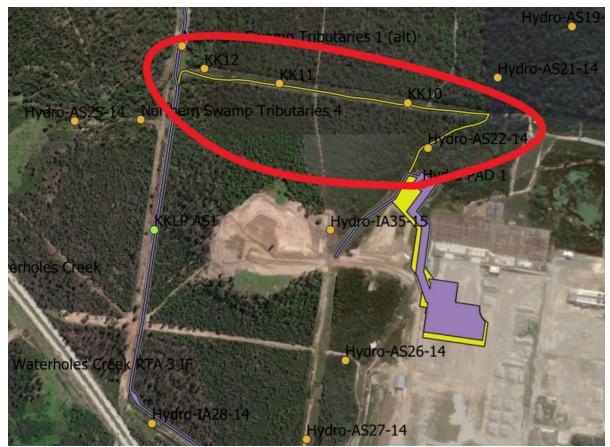


Figure 4 – Access track on the former Kurri Kurri Smelter site.

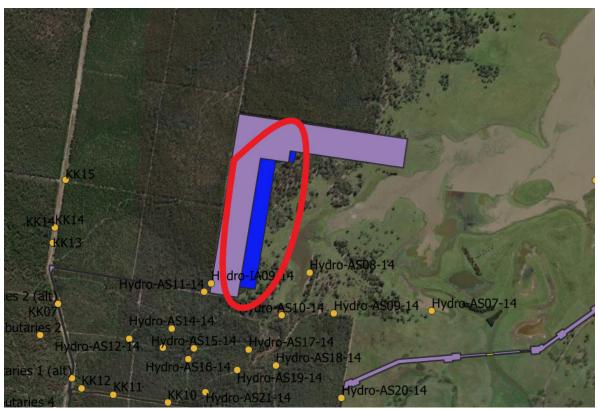


Figure 5 – Area adjacent to Swamp Creek to the north of the former Kurri Kurri Smelter site.

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Stephanie Howden

From: Stephanie Howden

Sent: Friday, 27 May 2022 2:38 PM

To: Tracey Skene

Subject: RE: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hey Trace

Definitely not too late. I think Tara previously worked on the project and so will have done the induction. I will send through the induction details shortly. We will just need 1 rep per day but if you want to share the work around that is all good they will just need to complete the induction. Here is the link:

https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.apa.com.au%2Fsuppliers-and-contractors%2Fworking-with-apa%2Finduction--

training%2F&data=04%7C01%7Cmoneil%40umwelt.com.au%7C135f6468c237481fec0208d98d22a65d%7Ca9c58fe7 caf64aa59d23a76f8ab33d91%7C0%7C0%7C637696002401079124%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wL jAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Weo2pcW0Yzp%2BVIAJ%2FvKMMM NBvnSSVjfGu8fob54SySA%3D&reserved=0

Try using the first link (SkillPASS) – let me know if you have any issues

Cheers Steph

Stephanie Howden

Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Tracey Skene <tracey@marrung-pa.com.au>

Sent: Thursday, 26 May 2022 7:23 AM

To: Stephanie Howden <showden@umwelt.com.au>

Subject: Re: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hey Stephanie

Just seen this hope I haven't missed the boat i have site workers for additional works my site workers are bobby smith

nura smith and tara roberts and myself if i'm available

Kind regards

Tracey Skene
7 Crawford Place, Millfield NSW 2325
Mobile 0474106537
On Man, May 22, 2022 at 7:04 BM Stanbania Haydan cahaydan Qumyyalt sam aya yarata.
On Mon, May 23, 2022 at 7:04 PM Stephanie Howden < <u>showden@umwelt.com.au</u> > wrote:
Hello All
The almost form and the date on the Komi Komi Lateral Direline against Fellowing and field and account and
Thank you for your work to date on the Kurri Kurri Lateral Pipeline project. Following our fieldwork survey and
ACHA reporting, APA have advised Umwelt of a few minor changes to the alignment based on the various technical
environmental reports for the project. Some of these areas were not subject to survey during our initial fieldwork
and have not been adequately covered by the previous surveys (circled in red on Figures below). As a result, APA
have requested that we undertake a heritage survey for these areas.
It is estimated that the fieldwork will be completed over 2-3 days. As your organisation was one of the original
RAPs to express interest in fieldwork, we request one representative from your organisation participate in the
additional fieldwork. I will be in touch to discuss the details of the survey; however, we would like to complete the
fieldwork between Monday to Wednesday 6-8 June, 2022. As with the previous fieldwork, Umwelt will be
engaging your organisation directly on APA's behalf.
If this is suitable, can you please provide me with the name of your representative and confirm your daily rate.
I will be in touch soon to discuss and let you know if any other information is required (such as updated insurance
information). However, please do not hesitate to contact me on 0456196274 should you require clarification or
further information.
Tartier information.
Cheers
Criccis
Steph
occp

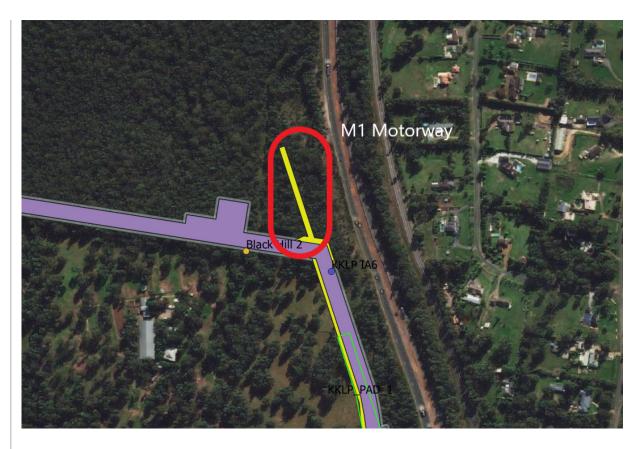


Figure 1 – Additional area adjacent to the M1 Motorway easement

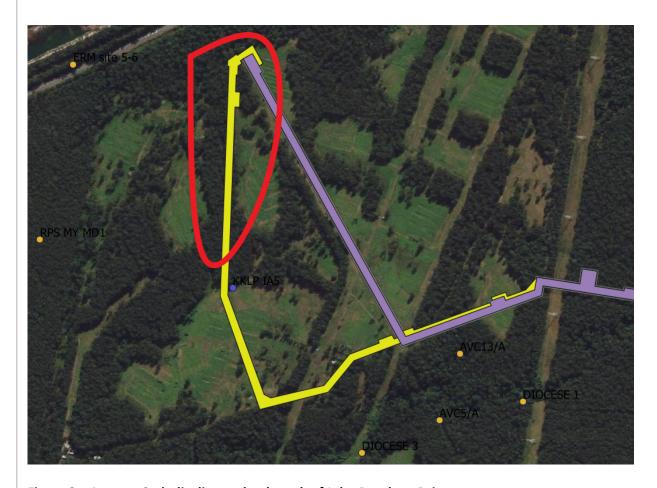


Figure 2 – Area on Catholic diocese land south of John Renshaw Drive



Figure 3 – Area on Able Mine site off Buchanan Road

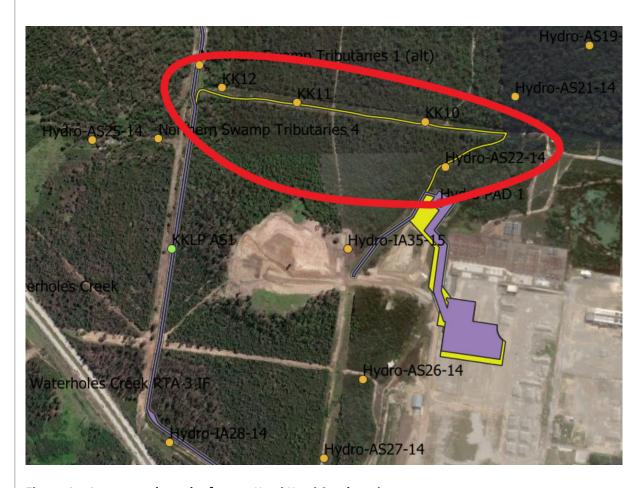


Figure 4 – Access track on the former Kurri Kurri Smelter site.

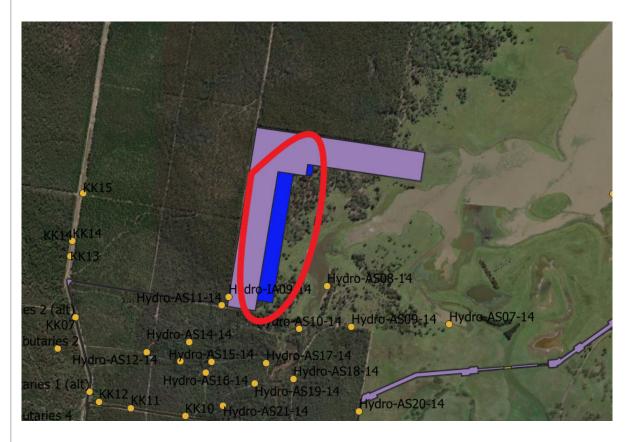


Figure 5 – Area adjacent to Swamp Creek to the north of the former Kurri Kurri Smelter site.

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267

Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Stephanie Howden

From: Stephanie Howden

Sent: Monday, 23 May 2022 6:34 PM

Subject: Additional Cultural Heritage Survey, Kurri Kurri Lateral Pipeline Project (21450)

Hello All

Thank you for your work to date on the Kurri Kurri Lateral Pipeline project. Following our fieldwork survey and ACHA reporting, APA have advised Umwelt of a few minor changes to the alignment based on the various technical environmental reports for the project. Some of these areas were not subject to survey during our initial fieldwork and have not been adequately covered by the previous surveys (circled in red on Figures below). As a result, APA have requested that we undertake a heritage survey for these areas.

It is estimated that the fieldwork will be completed over 2-3 days. As your organisation was one of the original RAPs to express interest in fieldwork, we request one representative from your organisation participate in the additional fieldwork. I will be in touch to discuss the details of the survey; however, we would like to complete the fieldwork between Monday to Wednesday 6-8 June, 2022. As with the previous fieldwork, Umwelt will be engaging your organisation directly on APA's behalf.

If this is suitable, can you please provide me with the name of your representative and confirm your daily rate.

I will be in touch soon to discuss and let you know if any other information is required (such as updated insurance information). However, please do not hesitate to contact me on 0456196274 should you require clarification or further information.

Cheers Steph

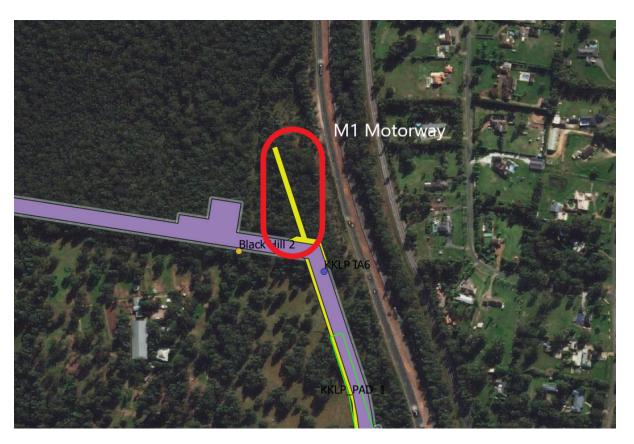


Figure 1 – Additional area adjacent to the M1 Motorway easement

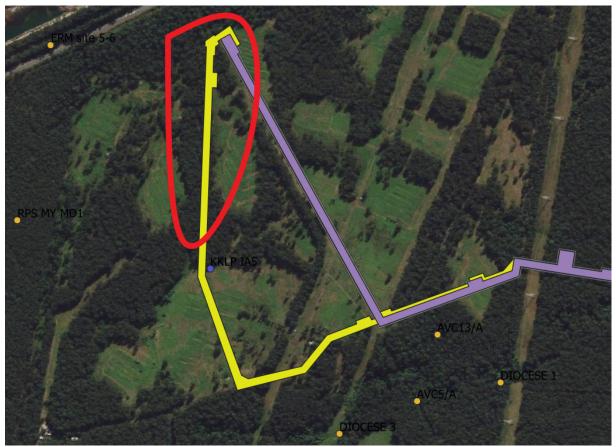


Figure 2 – Area on Catholic diocese land south of John Renshaw Drive

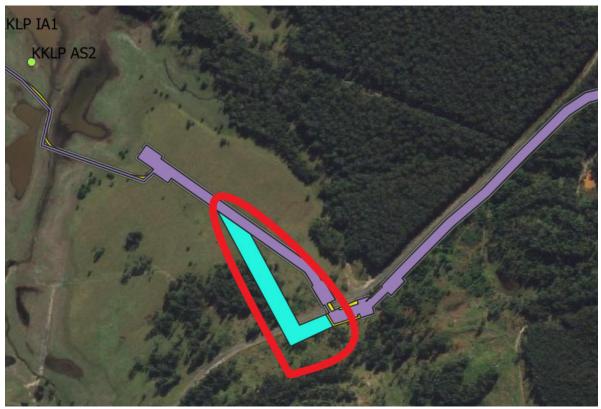


Figure 3 – Area on Able Mine site off Buchanan Road

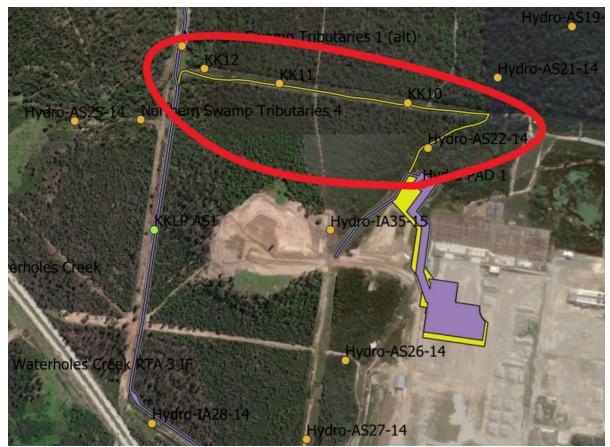


Figure 4 – Access track on the former Kurri Kurri Smelter site.

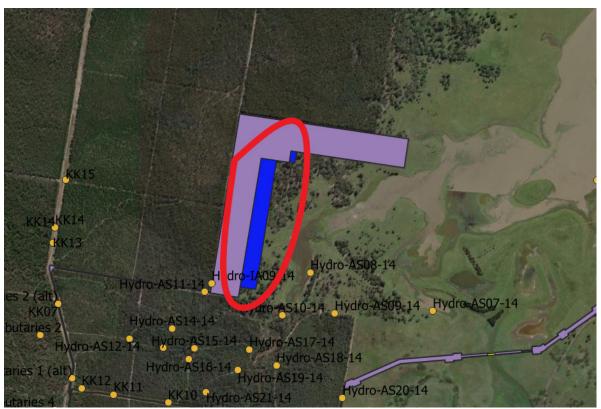


Figure 5 – Area adjacent to Swamp Creek to the north of the former Kurri Kurri Smelter site.

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Alison Fenwick

From: Alison Fenwick

Sent: Thursday, 28 July 2022 3:46 PM

Cc: Tim Adams; Stephanie Howden; Hatfield, Tom

Subject: 21450 - Additional KKLP Survey

Hi all,

Following on from Steph's email last Thursday (21st), APA have confirmed that we will have a full day of survey on Wednesday 3rd August (likely a 3-4pm finish). We will be accessing multiple properties, with a start point still to be decided upon. It is highly likely that we will have an 8am start in a location off Buchanan Road, however I will confirm in the next few days.

Can I please have confirmation of your availability for Wednesday (or unavailability), and that you have no concerns to raise prior to heading out?

Feel free to give me a call to discuss.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Alison Fenwick

From: Alison Fenwick

Sent: Monday, 1 August 2022 2:15 PM

To: Arthur Fletcher

Subject: RE: 21450 - Additional KKLP Survey

Hey Arthur,

I have a meeting with APA today and will be able to provide that information shortly.

Can I just check that you have gone through the site inductions during the previous rounds of survey?

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Arthur Fletcher < wonn1sites@gmail.com>

Sent: Friday, 29 July 2022 3:05 PM

To: Alison Fenwick <afenwick@umwelt.com.au> Subject: Re: 21450 - Additional KKLP Survey

Ala Alison. Please send meeting place and mud map ASAP. Nginuwa Arthur-Kauwul and Lynne.

On Thu, 28 Jul 2022 at 3:45 pm, Alison Fenwick <afenwick@umwelt.com.au> wrote:

Hi all,

Following on from Steph's email last Thursday (21st), APA have confirmed that we will have a full day of survey on Wednesday 3rd August (likely a 3-4pm finish). We will be accessing multiple properties, with a start point still to be decided upon. It is highly likely that we will have an 8am start in a location off Buchanan Road, however I will confirm in the next few days.

Can I please have confirmation of your availability for Wednesday (or unavailability), and that you have no concerns t raise prior to heading out?
Feel free to give me a call to discuss.
Thanks,
Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267

Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Alison Fenwick

From: Alison Fenwick

Sent: Monday, 1 August 2022 4:02 PM

To: Sarah Franks
Cc: Mary Franks

Subject: RE: 21450 - Additional KKLP Survey

Hi Sarah,

Just checking in on whether you will have anyone available for the fieldwork on Wednesday?

I'm still yet to confirm a meeting place, but it will be an 8am start and will be a full day.

Feel free to give me a call to discuss.

Thanks, Alison

Alison Fenwick

Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Sarah Franks <sarah@tocomwall.com.au>

Sent: Friday, 29 July 2022 11:27 AM

To: Mary Franks <mary@tocomwall.com.au>; Alison Fenwick <afenwick@umwelt.com.au>

Subject: FW: 21450 - Additional KKLP Survey

Importance: High

Hi Mary,

Can you please confirm with Alison that you are available for this work?

Regards,

Sarah Franks

Accounts & Administration

Tocomwall Pty Ltd

Po box 145 Miranda NSW 1490 Dharawal Country

m: 0419 653865

sarah@tocomwall.com.au www.tocomwall.com.au







The information contained in this e-mail message and any attached files may be confidential and may contain copyright material of Tocomwall Pty Ltd or third parties. Any unauthorised use, disclosure or copying of this e-mail and/or its attachments is prohibited. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of the message and attachments. Before opening or using attachments, please check them for viruses or defects. Our liability is limited to resupplying the e-mail and attached files. Content and views expressed in this e-mail may be those of the sender, and are not necessarily endorsed by Tocomwall Pty Ltd.

From: Alison Fenwick afenwick@umwelt.com.au>

Date: Friday, 29 July 2022 at 10:27 am

To: Sarah Franks < sarah@tocomwall.com.au > Subject: RE: 21450 - Additional KKLP Survey

Morning Sarah,

The surveys will take place in the area between Kurri Kurri and Thornton, I believe in the general area to what was previously surveyed in June.

Most of our access will be off of Buchanan Road, if that helps narrow it down for you.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes
Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Sarah Franks < sarah@tocomwall.com.au >

Sent: Friday, 29 July 2022 9:50 AM

To: Alison Fenwick afenwick@umwelt.com.au Subject: Re: 21450 - Additional KKLP Survey

Hi Alison,

What suburb is this in please? I just need to work out which filed officer is closest.

Regards,

Sarah Franks Accounts & Administration

Tocomwall Pty Ltd Po box 145 Miranda NSW 1490 Dharawal Country

m: 0419 653865

sarah@tocomwall.com.au www.tocomwall.com.au







The information contained in this e-mail message and any attached files may be confidential and may contain copyright material of Tocomwall Pty Ltd or third parties. Any unauthorised use, disclosure or copying of this e-mail and/or its attachments is prohibited. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of the message and attachments. Before opening or using attachments, please check them for viruses or defects. Our liability is limited to resupplying the e-mail and attached files. Content and views expressed in this e-mail may be those of the sender, and are not necessarily endorsed by Tocomwall Pty Ltd.

From: Alison Fenwick <afenwick@umwelt.com.au>

Date: Thursday, 28 July 2022 at 3:46 pm

To:

Cc: Tim Adams < tadams@umwelt.com.au >, Stephanie Howden < showden@umwelt.com.au >, Hatfield, Tom

<<u>Tom.Hatfield@apa.com.au</u>>

Subject: 21450 - Additional KKLP Survey

Hi all,

Following on from Steph's email last Thursday (21st), APA have confirmed that we will have a full day of survey on Wednesday 3rd August (likely a 3-4pm finish). We will be accessing multiple properties, with a start point still to be

decided upon. It is highly likely that we will have an 8am start in a location off Buchanan Road, however I will confirm in the next few days.

Can I please have confirmation of your availability for Wednesday (or unavailability), and that you have no concerns to raise prior to heading out?

Feel free to give me a call to discuss.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From: Alison Fenwick

Sent: Friday, 29 July 2022 10:27 AM

To: 'Sarah Franks'

Subject: RE: 21450 - Additional KKLP Survey

Morning Sarah,

The surveys will take place in the area between Kurri Kurri and Thornton, I believe in the general area to what was previously surveyed in June.

Most of our access will be off of Buchanan Road, if that helps narrow it down for you.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Sarah Franks <sarah@tocomwall.com.au>

Sent: Friday, 29 July 2022 9:50 AM

To: Alison Fenwick <afenwick@umwelt.com.au> **Subject:** Re: 21450 - Additional KKLP Survey

Hi Alison,

What suburb is this in please? I just need to work out which filed officer is closest.

Regards,

Sarah Franks

Accounts & Administration

Tocomwall Pty Ltd Po box 145 Miranda NSW 1490 Dharawal Country m: 0419 653865

<u>sarah@tocomwall.com.au</u> <u>www.tocomwall.com.au</u>







The information contained in this e-mail message and any attached files may be confidential and may contain copyright material of Tocomwall Pty Ltd or third parties. Any unauthorised use, disclosure or copying of this e-mail and/or its attachments is prohibited. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of the message and attachments. Before opening or using attachments, please check them for viruses or defects. Our liability is limited to resupplying the e-mail and attached files. Content and views expressed in this e-mail may be those of the sender, and are not necessarily endorsed by Tocomwall Pty Ltd.

From: Alison Fenwick afenwick@umwelt.com.au>

Date: Thursday, 28 July 2022 at 3:46 pm

To:

Cc: Tim Adams <tadams@umwelt.com.au>, Stephanie Howden <showden@umwelt.com.au>, Hatfield, Tom

<Tom.Hatfield@apa.com.au>

Subject: 21450 - Additional KKLP Survey

Hi all,

Following on from Steph's email last Thursday (21st), APA have confirmed that we will have a full day of survey on Wednesday 3rd August (likely a 3-4pm finish). We will be accessing multiple properties, with a start point still to be decided upon. It is highly likely that we will have an 8am start in a location off Buchanan Road, however I will confirm in the next few days.

Can I please have confirmation of your availability for Wednesday (or unavailability), and that you have no concerns to raise prior to heading out?

Feel free to give me a call to discuss.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes
Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From: Alison Fenwick

Sent: Thursday, 28 July 2022 4:20 PM

To: Tracey Skene

Subject: RE: 21450 - Additional KKLP Survey

Hi Tracey,

Fantastic news. I'll let you know as soon as I have the confirmed details for the start time/location.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

From: Tracey Skene <tracey@marrung-pa.com.au>

Sent: Thursday, 28 July 2022 4:16 PM

To: Alison Fenwick <afenwick@umwelt.com.au> **Subject:** Re: 21450 - Additional KKLP Survey

Hi Alison either myself or Fieldworker will be available

Tracey

On Thu, 28 Jul 2022 at 3:46 pm, Alison Fenwick afenwick@umwelt.com.au wrote:

Hi all,

Following on from Steph's email last Thursday (21st), APA have confirmed that we will have a full day of survey on Wednesday 3rd August (likely a 3-4pm finish). We will be accessing multiple properties, with a start point still to be decided upon. It is highly likely that we will have an 8am start in a location off Buchanan Road, however I will confirm in the next few days.

Can I please have confirmation of your availability for Wednesday (or unavailability), and that you have no concerns to raise prior to heading out?
Feel free to give me a call to discuss.
Thanks,
Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267

Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

__

Kind regards Tracey Skene 7 Crawford Place, Millfield NSW 2325 Mobile 0474106537



From: Stephanie Howden

Sent: Thursday, 21 July 2022 9:43 AM **Cc:** Alison Fenwick; Tim Adams

Subject: Kurri Kurri Lateral Pipeline additional survey (our ref: 21450)

Hi All

Hope you are well. APA has had to make another change to the alignment on Ashtonfield's land (the previous areas were not feasible due to other studies that were done). This means there is another small area to be surveyed. Are you all free on Wed 3 August? It will probably only be an hr or two but APA has asked to engage you for the whole day just in case there are some other changes that happen between now and then (though they think this is unlikely).

I am on leave at the moment and will be working up in the Northern Territory when the survey will happen, so Alison Fenwick from Umwelt is going to do the survey with you. The area is right near the creek (on an elevated area) so it is likely that there will be PAD in the area that will need testing in the future.

We haven't go the time organised yet, but Alison will be in touch early on the week of the survey to confirm with you. I have cc'd Alison into this email so you have her details

Cheers Steph

Stephanie Howden Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0456 196 274

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From: Alison Fenwick

Sent: Wednesday, 24 August 2022 3:39 PM

Cc: Marion O'Neil; Stephanie Howden; Tom Hatfield

Subject: 21450 - Kurri Kurri Lateral Pipeline ACHA Addendum Draft

Attachments: 21450_ACHA_Addendum_V1.pdf

Good-Afternoon,

As a Registered Aboriginal Party, we invited you to review the Draft Aboriginal Cultural Heritage Assessment – Addendum, prepared for the proposed Kurri Kurri Lateral Pipeline (KKLP), NSW.

Please note that this report has been prepared in response to variations to the Project footprint and should be viewed with consideration to the Aboriginal Cultural Heritage Assessment (ACHA) of the KKLP Project, also prepared by Umwelt (2022). Furthermore, please note that Appendix 2 – Consultation will be completed prior to finalisation of this report, however, is not available at this time.

We ask that you please review the report and respond with any comments or suggestions, and that comments be provided by no later than close of business on **Wednesday 21st September 2022**.

If you require the word version of the report, or if you have any queries relating to this Project, please do not hesitate to get in contact.

Kind regards, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From: Alison Fenwick

Sent: Tuesday, 13 September 2022 11:01 AM

To: Alison Fenwick

Cc: Tom Hatfield; Stephanie Howden; Paul Douglass; Lachlan Sweeney **Subject:** 21450 - Reminder - Kurri Kurri Lateral Pipeline ACHA Addendum Draft

Attachments: 21450_ACHA_Addendum_V1.pdf

Good-morning,

This is a reminder that the consultation period for the Kurri Kurri Lateral Pipeline ACHA Addendum Draft report closes on **21**st **September 2022** (next Wednesday).

We ask that you please review the report and respond with any comments or suggestions, and that comments be provided by no later than close of business.

Thank you to those who have already submitted a response. Should you have anything further to discuss, please don't hesitate to get in contact.

Kind regards, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From: Sent: To: Subject:	lilly carroll <didgengunawalclan@yahoo.com.au> Tuesday, 13 September 2022 11:09 AM Alison Fenwick Re: 21450 - Reminder - Kurri Kurri Lateral Pipeline ACHA Addendum Draft</didgengunawalclan@yahoo.com.au>
Can't comment because	I wasn't part of the survey
Sent from Yahoo Mail fo	<u>or iPhone</u>
On Tuesday, Septembe	r 13, 2022, 11:01 am, Alison Fenwick <afenwick@umwelt.com.au> wrote:</afenwick@umwelt.com.au>
Good-morning,	
	er that the consultation period for the Kurri Kurri Lateral Pipeline ACHA Addendum Draft 21 st September 2022 (next Wednesday).
	please review the report and respond with any comments or suggestions, and that rovided by no later than close of business.
-	ose who have already submitted a response. Should you have anything further to don't hesitate to get in contact.
Kind regards,	
Alison	
Alison Fenwick Archaeologist	
Umwelt (Austra Phone: 1300 79	alia) Pty Limited 3 267
Mobile: 0412 35	0 780
www.umwelt.com	m.au

Inspired People | Dedicated Team | Quality Outcomes

Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From: Sent: To: Subject:	Lower Hunter Aboriginal Incorporated <lowerhunterai@gmail.com> Friday, 16 September 2022 10:25 AM Alison Fenwick Re: 21450 - Reminder - Kurri Kurri Lateral Pipeline ACHA Addendum Draft</lowerhunterai@gmail.com>
HI Alison On behalf of LHAI, I have receiv further comments to add.	ved and support the Kurri Kurri Lateral Pipeline ACHA Addendum Draft report and no
On Tue, Sep 13, 2022 at 11:01	AM Alison Fenwick < <u>afenwick@umwelt.com.au</u> > wrote:
Good-morning,	
This is a reminder that the cor on 21 st September 2022 (next	nsultation period for the Kurri Kurri Lateral Pipeline ACHA Addendum Draft report closes : Wednesday).
We ask that you please review provided by no later than clos	v the report and respond with any comments or suggestions, and that comments be se of business.
Thank you to those who have hesitate to get in contact.	already submitted a response. Should you have anything further to discuss, please don't
Kind regards,	
Alison	
Alison Fenwick Archaeologist	
Umwelt (Australia) Pty Limit Phone: 1300 793 267	ed
Mobile: 0412 350 780	
www.umwelt.com.au	
Inspired People Dedicated Newcastle Perth Canbern	Team Quality Outcomes ra Sydney Brisbane Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

Please consider the environment before printing this email

--

Thank You David Ahoy Sites Manager LHAI Mobile 0431764850

Lower Hunter Aboriginal Incorporated

5 Killara Drive

Cardiff South NSW 2285 ABN: 8192 4628 138

Email: lowerhunterai@gmail.com



This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed.

If you have received this email in error please notify the sender immediately.

From: Sarah Franks <sarah@tocomwall.com.au>

Sent: Friday, 29 July 2022 9:50 AM

To: Alison Fenwick

Subject: Re: 21450 - Additional KKLP Survey

Hi Alison,

What suburb is this in please? I just need to work out which filed officer is closest.

Regards,

Sarah Franks Accounts & Administration

Tocomwall Pty Ltd Po box 145 Miranda NSW 1490 Dharawal Country

m: 0419 653865

<u>sarah@tocomwall.com.au</u> www.tocomwall.com.au







The information contained in this e-mail message and any attached files may be confidential and may contain copyright material of Tocomwall Pty Ltd or third parties. Any unauthorised use, disclosure or copying of this e-mail and/or its attachments is prohibited. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of the message and attachments. Before opening or using attachments, please check them for viruses or defects. Our liability is limited to resupplying the e-mail and attached files. Content and views expressed in this e-mail may be those of the sender, and are not necessarily endorsed by Tocomwall Pty Ltd.

From: Alison Fenwick <afenwick@umwelt.com.au>

Date: Thursday, 28 July 2022 at 3:46 pm

To:

Cc: Tim Adams <tadams@umwelt.com.au>, Stephanie Howden <showden@umwelt.com.au>, Hatfield, Tom

<Tom.Hatfield@apa.com.au>

Subject: 21450 - Additional KKLP Survey

Hi all,

Following on from Steph's email last Thursday (21st), APA have confirmed that we will have a full day of survey on Wednesday 3rd August (likely a 3-4pm finish). We will be accessing multiple properties, with a start point still to be decided upon. It is highly likely that we will have an 8am start in a location off Buchanan Road, however I will confirm in the next few days.

Can I please have confirmation of your availability for Wednesday (or unavailability), and that you have no concerns to raise prior to heading out?

Feel free to give me a call to discuss.

Thanks, Alison

Alison Fenwick Archaeologist

Umwelt (Australia) Pty Limited

Phone: 1300 793 267 Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes
Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

From:	Arthur Fletcher <wonn1sites@gmail.com></wonn1sites@gmail.com>
Sent:	Thursday, 25 August 2022 3:57 PM
To:	Alison Fenwick
Cc:	Marion O'Neil; Stephanie Howden; Tom Hatfield
Subject:	Re: 21450 - Kurri Kurri Lateral Pipeline ACHA Addendum Draft
Received, thank you.	
On Wed, 24 Aug 2022, 3	3:39 pm Alison Fenwick, < <u>afenwick@umwelt.com.au</u> > wrote:
Good-Afternoon,	
	ginal Party, we invited you to review the Draft Aboriginal Cultural Heritage Assessment – for the proposed Kurri Kurri Lateral Pipeline (KKLP), NSW.
with consideration to t Umwelt (2022). Furthe	eport has been prepared in response to variations to the Project footprint and should be viewed the Aboriginal Cultural Heritage Assessment (ACHA) of the KKLP Project, also prepared by ermore, please note that Appendix 2 – Consultation will be completed prior to finalisation of this t available at this time.
	e review the report and respond with any comments or suggestions, and that comments be nan close of business on Wednesday 21st September 2022 .
If you require the word to get in contact.	d version of the report, or if you have any queries relating to this Project, please do not hesitate
Kind regards,	
Alison	
Alison Fenwick	
Archaeologist	
Umwelt (Australia) Pt Phone: 1300 793 267	y Limited

Mobile: 0412 350 780

www.umwelt.com.au

Inspired People | Dedicated Team | Quality Outcomes Newcastle | Perth | Canberra | Sydney | Brisbane | Melbourne

Please Note:

This email and any files transmitted with it are confidential and are for the use of the intended recipient only. If you have received this email in error, please notify us immediately and delete all copies of this email and attachments. We maintain regular virus checks; however, before opening or using any attachments, check them for viruses and defects. Contents which do not relate to the formal business of Umwelt (Australia) Pty Limited are not endorsed by the company.

