

## APPENDICES

## APPENDIX 1 - CONSULTATION LOG AND ABORIGINAL PARTY COMMENTS

<b>Consultation Log</b>				
<b>Date Sent</b>	<b>From</b>	<b>To</b>	<b>Type</b>	<b>Content</b>
29/06/2010	DPB	Hunter-Central Rivers Catchment Management Authority	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
29/06/2010	DPB	National Native Title Tribunal	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
29/06/2010	DPB	NTSCORP	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
29/06/2010	DPB	Singleton Council	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
29/06/2010	DPB	Wanaruah Local Aboriginal Land Council	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
29/06/2010	DPB	DECCW - Coffs Harbour branch	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
29/06/2010	DPB	Office of the Registrar, Aboriginal Land Rights Act	Post	Request for names and contact details of relevant Aboriginal people and groups who may have an interest in the project
1/07/2010	Kashana Cohen-McMeekin, NN	DPB	Post	Results of Native Title search over project area
5/07/2010	Suzie Worth, Wanaruah LALC	Naomi L'Oste-Brown, KMH	Fax	Provision of list of Aboriginal people who may have an interest in the project; also registering an interest for the LALC
7/07/2010	DPB	Annie Hickey, Gidawaa Walang Cultural Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Arthur Fletcher, Wonn1 Consulting	Post	Invitation to register an interest in the project
7/07/2010	DPB	Barbara Foot/Reginald Eveleigh, Wanaruah Custodians	Post	Invitation to register an interest in the project

Date Sent	From	To	Type	Content
7/07/2010	DPB	Barry Anderson, Lower Wonnarua Tribal Consultancy Pty. Ltd.	Post	Invitation to register an interest in the project
7/07/2010	DPB	Barry McTaggard, Yarrawalk	Post	Invitation to register an interest in the project
7/07/2010	DPB	Brian and David Horton, Muswellbrook Cultural Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Christine Archibald, Hunter Valley Cultural Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Clifford Matthews, Mingga Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Darryl Matthews, Upper Hunter Heritage Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	David French, Hunter Valley Cultural & Natural Resources	Post	Invitation to register an interest in the project
7/07/2010	DPB	Des Hickey, Wattaka Wonnarua Cultural Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	George and Donna Sampson, Cacatua Culture Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Jean Hands, EllieLewis Aboriginal Corporation	Post	Invitation to register an interest in the project
7/07/2010	DPB	John and Margaret Matthews, Aboriginal Native Title Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Joseph and Gordon Griffiths, Wonnarua Cultural Heritage	Post	Invitation to register an interest in the project
7/07/2010	DPB	Justin Matthews, Carrawonga	Post	Invitation to register an interest in the project
7/07/2010	DPB	Kathleen Steward-Kinchela, Yinarr Cultural Services	Post	Invitation to register an interest in the project
7/07/2010	DPB	Larry Van Vliet, Valley Culture	Post	Invitation to register an interest in the project
7/07/2010	DPB	Laurie Perry and Sandra Miller, Wonnarua Nation Aboriginal Corporation	Post	Invitation to register an interest in the project
7/07/2010	DPB	Lea-Ann Ball (Miller), Lower Hunter Wonnarua Council	Post	Invitation to register an interest in the project
7/07/2010	DPB	Lloyd Matthews, Bullen Bullen Heritage Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Luke and Pansy Hickey, Hunter Valley Cultural Surveying	Post	Invitation to register an interest in the project
7/07/2010	DPB	Mark Hickey, Kayaway Manager Kayaway Eco Cultural & Heritage Services	Post	Invitation to register an interest in the project
7/07/2010	DPB	Rene Molineaux, St Clair Singleton Aboriginal Corporation	Post	Invitation to register an interest in the project

Date Sent	From	To	Type	Content
7/07/2010	DPB	Rhoda Perry and Tom Miller, Wonnarua Elders Council	Post	Invitation to register an interest in the project
7/07/2010	DPB	Rhonda Griffith, Hunter Valley Aboriginal Corporation	Post	Invitation to register an interest in the project
7/07/2010	DPB	Rick Coles, Hunter Traditional Owners	Post	Invitation to register an interest in the project
7/07/2010	DPB	Rodney Matthews and Michelle Stair, Giwiirr Consultants	Post	Invitation to register an interest in the project
7/07/2010	DPB	Scott Franks, Yarrowalk	Post	Invitation to register an interest in the project
7/07/2010	DPB	Taasha Layer, Ungooroo Aboriginal Corporation	Post	Invitation to register an interest in the project
7/07/2010	DPB	Tracey Skene, Culturally Aware	Post	Invitation to register an interest in the project
7/07/2010	DPB	Rhonda Ward, Ungooroo Cultural & Community Services Inc	Post	Invitation to register an interest in the project
7/07/2010	DPB	Victor Perry, Upper Hunter Wonnarua Council Inc	Post	Invitation to register an interest in the project
8/07/2010	Monica Collins, DECCW - Coffs	Naomi L'Oste-Brown, KMH	Post	Details of Aboriginal groups who may have an interest in the project
8/07/2010	Des Hickey, Wattaka Wonnarua	DPB	Fax	Registration of interest
9/07/2010	Mark Hickey, Kayaway Eco Cult	DPB	Email	Registration of interest
11/07/2010	Donna Sampson, Cacatua Cultu	Naomi L'Oste-Brown, KMH	Post	Registration of interest
12/07/2010	Ann Hickey, Gidawaa Walang	DPB	Post	Registration of interest
12/07/2010	Tracey Skene, Wonnarua Perso	DPB	Email	Registration of interest
12/07/2010	Rhonda Ward, Ungooroo Cultur	DPB	Fax	Registration of interest
12/07/2010	Rhonda Ward	DPB, Biosis Research	Phone	Rhonda rang as a curtesy call to let DPB know that she intends to send a registration letter to Biosis Research in the next day or so.
13/07/2010	DPB	Tracey White, Black Creek Aboriginal Corporation	Post	Invitation to register an interest in the project
13/07/2010	DPB	Cheryl Moodie & Justin Matthews, Carrawonta Consultants	Post	Invitation to register an interest in the project
13/07/2010	DPB	Tara and Rick Owners, Hunter Traditional Owners	Post	Invitation to register an interest in the project
13/07/2010	DPB	Luke Hickey, Hunter Valley Cultural Surveying	Post	Invitation to register an interest in the project
13/07/2010	DPB	David French, Hunter Valley Cultural & Natural Resources	Post	Invitation to register an interest in the project
13/07/2010	DPB	Lea-Ann Ball/Tommy Miller, Lower Hunter Wonnarua Council Inc	Post	Invitation to register an interest in the project

Date Sent	From	To	Type	Content
13/07/2010	DPB	Rick Griffiths, Mindaribba Local Aboriginal land Council	Post	Invitation to register an interest in the project
13/07/2010	DPB	Rhoda Perry, Upper Hunter Wonnarua Council Inc	Post	Invitation to register an interest in the project
13/07/2010	DPB	Kathleen Steward, Yinarr Cultural Services	Post	Invitation to register an interest in the project
13/07/2010	NTSCORP	Margaret Matthews	Post	Forwarding letter inviting groups to register an interest in the project
13/07/2010	Taasha Layer, Ungooroo Aborig	DPB	Email	Registration of interest
20/07/2010	John and Margaret Matthews, A	Naomi L'Oste-Brown, KMH	Fax	Registration of interest
20/07/2010	Thomas Miller, Lower Hunter Wonnarua Council Incorporated			Registration of interest
20/07/2010	Barry McTaggart, Yarrawalk	DPB	Fax	Registration of interest
21/07/2010	DPB	Donna Sampson, Cacatua Culture Consultants	Fax	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Justin Matthews, Carrawonga	Fax	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Des Hickey, Wattaka Wonnarua CCS	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Anne Hickey, Gidawaa Walang Cultural Heritage Consultancy	Fax	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Mark Hickey, Kayaway Manager Kayaway Eco Cultural & Heritage Services	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	Fax	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Taasha Layer, Manager, Ungooroo Aboriginal Corporation (UAC)	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Tracey Skene	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Rhonda Ward, Ungooroo Cultural & Community Services Inc	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Suzie Worth, WLALC	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes

Date Sent	From	To	Type	Content
21/07/2010	DPB	Barry McTaggart, Yarrawalk Enterprises	Email	Acknowledgement of registration of interest and request for nominated spokesperson and privacy wishes
21/07/2010	DPB	Suzie Worth, WLALC	Email	List of registered stakeholders and their contact details
22/07/2010	Ann Hickey, Gidawaa Walang	DPB	Fax	Confirmation of nominated spokesperson and privacy wishes
22/07/2010	Rhonda Ward, Ungooroo Cultural	DPB	Email	Confirmation of nominated spokesperson and privacy wishes
23/07/2010	Laurie Perry, Wonnarua Nation	DPB	Email	Registration of interest
29/07/2010	Kathleen Stewart Kinchella, Yinarr	DPB	Fax	Registration of interest
29/07/2010	DPB	Laurie Perry, Chairperson / Director, Wonnarua Nation Aboriginal Corp	email	Sent methodology
29/07/2010	DPB	Des Hickey, Manager, Wattaka Wonnarua CCS	email	Sent methodology
29/07/2010	DPB	Barry McTaggart, General Manager, Hunter and Northern Region	Post	Sent methodology
29/07/2010	DPB	Suzie Worth, Cultural Heritage Officer	Post	Sent methodology
29/07/2010	DPB	Taasha Layer, Manager, Ungooroo Aboriginal Corporation (UAC)	Post	Sent methodology
29/07/2010	DPB	Rhonda Ward Ungooroo Cultural and Community Services Incorporated	Post	Sent methodology
29/07/2010	DPB	Tracey Skene	Post	Sent methodology
29/07/2010	DPB	Thomas Miller Lower Hunter Wonnarua Council Incorporated	Post	Sent methodology
29/07/2010	DPB	Mark Hickey, Kayaway Manager Kayaway Eco Cultural & Heritage Services	Post	Sent methodology
29/07/2010	DPB	Anne Hickey, Project Officer Gidawaa Walang Cultural Heritage Consultancy	Post	Sent methodology
29/07/2010	DPB	Justin Matthews Carrawonga Consultants	Post	Sent methodology
29/07/2010	DPB	Donna Sampson, Administration Cacatua Culture Consultants	Post	Sent methodology
3/08/2010	Kathleen Stewart Kinchella, Yinarr	DPB	Email	Confirmation of nominated spokesperson and privacy wishes
3/08/2010	DPB	Kathleen Stewart-Kinchella, Yinarr Cultural Services	post	Sent methodology
3/08/2010	Des Hickey	DPB, Biosis Research	email	Des agrees with the methodology
9/08/2010	Rhonda Ward	DPB, Biosis Research	Phone	Doesn't have a problem with what's going on
9/08/2010	Rhonda Griffith	DPB, Biosis Research	Phone	They can do it - Paulette Ryan will be attending on 2

Date Sent	From	To	Type	Content
10/08/2010	DPB, Biosis Research	Rhonda Griffith	Phone	Called to speak to Rhonda but missed her - 02 6543 1180
12/08/2010	DPB, Biosis Research	Rhonda Griffith	Phone	Called to speak to Rhonda but missed her - 02 6543 1180
12/08/2010	DPB, Biosis Research	Cheryl Matthews	Phone	Informed by person that she was not available. Left my details with the person.
16/08/2010	DPB	DECCW - Coffs Harbour branch	Email	List of registered stakeholders and their contact details
17/08/2010	DPB, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	Phone	Asked if he is available to partake in a field survey on week 30th August, possibly week after. He reckons he is and can provide a medical.
17/08/2010	DPB, Biosis Research	Alan Paget, Ungooroo Aboriginal Corporation	Phone	Asked Alan Paget, Ungooroo Aboriginal Corporation if he is available to partake in a field survey on week 30th August, possibly week after. He reckons he is and can provide a medical.
17/08/2010	DPB, Biosis Research	Barry Mctaggart, Yarrowalk,	Phone	Asked Barry Mctaggart, Yarrowalk, if he is available to partake in a field survey on week 30th August, possibly week after. He reckons he is and can provide a medical.
17/08/2010	DPB, Biosis Research	Anne Hickey, Gidiwa Walang	Phone	Asked Anne Hickey, Gidiwa, if she is available to partake in a field survey on week 30th August, possibly week after. She reckons she is and can provide a medical.
18/08/2010	DPB, Biosis Research	Tony Chalker, Mine Inducter Integra	Phone	Rang about type of medical required - no answer
18/08/2010	DPB, Biosis Research	Pegasus inductions	Phone	Range about type of medical required. Need further details about the components of commercial drivers medical - Tamly from Pegasus mentioned that mentioned that a full medical is required including drug and alcohol, eyes, ears and felxibility is required
24/08/2010	DPB, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	email	Formal invite for survey and induction information
24/08/2010	DPB, Biosis Research	Alan Paget, Ungooroo Aboriginal Corporation	email	Formal invite for survey and induction information

24/08/2010	DPB, Biosis Research	Barry McTaggart, Yarrowalk,	email	Formal invite for survey and induction information
24/08/2010	DPB, Biosis Research	Anne Hickey, Gidiwa Walang	email	Formal invite for survey and induction information
24/08/2010	DPB, Biosis Research	Suzie Worth, WLALC	email	Formal invite for survey and induction information
25/08/2010	DPB, Biosis Research	Barry McTaggart, Yarrowalk,	phone	rang about survey. He is getting on it. Thinks the time frame may be difficult
25/08/2010	DPB, Biosis Research	Anne Hickey, Gidiwaa Walang	phone	Rang about survey she seemed ok with the dates.
25/08/2010	DPB, Biosis Research	Suzie Worth, WLALC	email	No answer
25/08/2010	DPB, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	phone	No answer
25/08/2010	DPB, Biosis Research	Ungooroo Aboriginal Corporation	phone	spoke to Alan Paget about the survey and sent him an e-mail as taasha is on holiday sent to ungooroo@bigpond.com
25/08/2010	DPB, Biosis Research	Suzie Worth, WLALC	phone	No answer
25/08/2010	DPB, Biosis Research	Tracey Skene	phone	No answer - I rang to reply to her email if she would be involved in the field survey
26/08/2010	DPB, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	phone	No answer
26/08/2010	DPB, Biosis Research	Suzie Worth	phone	No longer nominated spoesperson
26/08/2010	DPB, Biosis Research	Noel Downs	phone	They can do it - Paulette Ryan will be attending on 2
30/08/2010	DPB, Biosis Research	Noel Downs	phone	spoke about field survey. Spoke about Wayne who has a RISI card, and he already has the medical certificate.
30/08/2010	DPB, Biosis Research	Wayne French	phone	spoke about field survey. RISI card he already has the medical certificate. Wayne's number os 0409 126 258
30/08/2010	DPB, Biosis Research	Thomas Miller	phone	spoke about field survey. He is keen to attend, I told him about the ankle high boots. He is trying to organise his medical.
30/08/2010	DPB, Biosis Research	Alan Paget	phone	spoke about boots and possiblity of Friday survey. He's fine with that.
1/09/2010	DPB, Biosis Research	Lauren Pegasis	phone	rang about risi training req for medical - they don't know and will find out and call me back
23/11/2010	PBK	Laurie Perry, Chairperson / Director, Wonnarua Nation Aboriginal Corg	Post	Sent report
23/11/2010	PBK	Des Hickey, Manager, Wattaka Wonnarua CCS	Post	Sent report
23/11/2010	PBK	Barry McTaggart, General Manager, Hunter and Northern Region	Post	Sent report
23/11/2010	PBK	Suzie Worth, Cultural Heritage Officer	Post	Sent report
23/11/2010	PBK	Taasha Layer, Manager, Ungooroo Aboriginal Corporation (UAC)	Post	Sent report

Date Sent	From	To	Type	Content
23/11/2010	PBK	Rhonda Ward Ungooroo Cultural and Community Services Incorporated	Post	Sent report
23/11/2010	PBK	Tracey Skene	Post	Sent report
23/11/2010	PBK	Thomas Miller Lower Hunter Wonnarua Council Incorporated	Post	Sent report
23/11/2010	PBK	Mark Hickey, Kayaway Manager Kayaway Eco Cultural & Heritage Services	Post	Sent report
23/11/2010	PBK	Anne Hickey, Project Officer Gidawaa Walang Cultural Heritage Consultancy	Post	Sent report
23/11/2010	PBK	Justin Matthews Carrawonga Consultants	Post	Sent report
23/11/2010	PBK	Donna Sampson, Administration Cacatua Culture Consultants	Post	Sent report
23/11/2010	PBK	Kathleen Steward-Kinchela, Yinarr Cultural Services	post	Sent report
29/11/2010	PBK	Mark Hickey, Kayaway Manager Kayaway Eco Cultural & Heritage Services	Post	Re-sent report as Mark had changed address
29/11/2010	GWCHC - Anne Hickey	Pamela Kottaras	letter	In support of the assessment recommendations
16/12/2010	JML, Biosis Research	Des Hickey, Manager, Wattaka Wonnarua CCS	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Mark Hickey, Kayaway Manager Kayaway Eco Cultural & Heritage Services	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Suzie Worth, WLALC	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	phone	rang to advise of closing date for comments but no answer and no message facility

Date Sent	From	To	Type	Content
16/12/2010	JML, Biosis Research	Barry McTaggart, Yarrowalk,	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Taasha Layer, Manager, Ungooroo Aboriginal Corporation (UAC)	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Laurie Perry, Chairperson / Director, Wonnarua Nation Aboriginal Corporation	email	email advising of closing date for comments on report and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Tracey Skene	phone	left message advising of closing date for comments and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Donna Sampson, Administration Cacatua Culture Consultants	phone	Spoke to Donna regarding comments; advised that she would send through before the closing date
16/12/2010	JML, Biosis Research	Rhonda Ward Ungooroo Cultural and Community Services Incorporated	phone	left message advising of closing date for comments and that comments would be accepted verbally or in writing
16/12/2010	JML, Biosis Research	Justin Matthews Carrawonga Consultants	phone	left message advising of closing date for comments and that comments would be accepted verbally or in writing
20/12/2010	Cacatua CC - Donna Sampson	Pamela Kottaras	phone	Happy with the assessment recommendations; believes that every effort will be made to protect Aboriginal cultural heritage
2/03/2011 - 12:22 pm	SJG, Biosis Research	Barry McTaggart, Yarrowalk	phone	Spoke to Barry regarding Aboriginal Cultural Heritage Assessment - report sent in November was not received. Barry confirmed postal address for re-sending the report

Date Sent	From	To	Type	Content
2/03/2011	SJG, Biosis Research	Des Hickey, Manager, Wattaka Wonnarua CCS	email	Email requesting confirmation of postal address for re-sending the report
2/03/2011	Des Hickey, Wattaka Wonnarua	SJG, Biosis Research	email	Email advising report sent in November was not received and confirming postal address for re-sending the report
2/03/2011 - 12:25 pm	SJG, Biosis Research	Justin Matthews, Carrawonga	phone	left message requesting confirmation of postal address for re-sending the report
2/03/2011 - 12:27 pm	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	phone	No answer
2/03/2011 - 12:33 pm	SJG, Biosis Research	Laurie Perry, Chairperson / Director, Wonnarua Nation Aboriginal Corporation	phone	Spoke to Laurie regarding Aboriginal Cultural Heritage Assessment - report sent in November was not received. Laurie confirmed postal address for re-sending the report
2/03/2011 - 12:35 pm	SJG, Biosis Research	Mark Hickey, Kayaway Manager, Kayaway Eco Cultural & Heritage Services	phone	No answer
2/03/2011 - 12:38 pm	SJG, Biosis Research	Ungooroo Aboriginal Corporation	phone	Spoke to Jess who confirmed postal address for re-sending the report
2/03/2011 - 12:40 pm	SJG, Biosis Research	Tracey Skene, Wonnarua Person and Traditional Owner	phone	left message requesting confirmation of postal address for re-sending the report
2/03/2011 - 12:43 pm	SJG, Biosis Research	Rhonda Ward, Ungooroo Cultural & Community Services Inc	phone	Spoke to Rhonda regarding Aboriginal Cultural Heritage Assessment - report sent in November was not received. Rhonda confirmed postal address for re-sending the report
2/03/2011 - 12:47 pm	SJG, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	phone	No answer
2/03/2011 - 12:49 pm	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	phone	No answer
2/03/2011	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	email	Email requesting confirmation of postal address for re-sending the report
2/03/2011 - 2:31 pm	SJG, Biosis Research	Justin Matthews, Carrawonga	phone	Spoke to Justin regarding Aboriginal Cultural Heritage Assessment - report sent in November was not received. Justin confirmed postal address for re-sending the report
2/03/2011 - 2:40 pm	SJG, Biosis Research	Mark Hickey, Kayaway Manager, Kayaway Eco Cultural & Heritage Services	phone	Spoke to Mark and he confirmed postal address for re-sending the report
2/03/2011 - 2:54 pm	Tracey Skene, Wonnarua Person	SJG, Biosis Research	phone	Tracey confirmed postal address for re-sending the report
2/03/2011 - 2:59 pm	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	phone	No answer

<b>Date Sent</b>	<b>From</b>	<b>To</b>	<b>Type</b>	<b>Content</b>
2/03/2011 - 3:01 pm	SJG, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	phone	No answer
2/03/2011 - 3:03 pm	SJG, Biosis Research	Lea-Ann Ball, Lower Hunter Wonnarua Council Incorporated	phone	Lea-Ann confirmed postal address for re-sending the report
3/03/2011 - 11:18 am	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	phone	No answer
3/03/2011 - 12:00 pm	Kathleen Steward-Kinchela, Yinarr Cultural Services	SJG, Biosis Research	phone	Kathy confirmed postal address for re-sending the report (did not receive report that was sent in November)
3/03/2011	SJG, Biosis Research	Barry McTaggart, Yarrowalk	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Des Hickey, Manager, Wattaka Wonnarua CCS	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Justin Matthews, Carrawonga	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Laurie Perry, Chairperson / Director, Wonnarua Nation Aboriginal Corporation	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Mark Hickey, Kayaway Manager, Kayaway Eco Cultural & Heritage Services	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Taasha Layer, Manager, Ungoороо Aboriginal Corporation (UAC)	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Tracey Skene, Wonnarua Person and Traditional Owner	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Rhonda Ward, Ungoороо Cultural & Community Services Inc	post	Sent report for comment
3/03/2011	SJG, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	post	Sent report for comment
7/03/2011 - 4:31 pm	Kathleen Steward-Kinchela, Yinarr Cultural Services	SJG, Biosis Research	phone	Kathy confirmed receipt of report and asked about process of selection of RAPs for participation in the survey
8/03/2011 - 12:19 pm	SJG, Biosis Research	Barry McTaggart, Yarrowalk	phone	Left msg for Barry to confirm receipt of report and a reminder that comments are due by 18 March 2011
8/03/2011 - 12:22 pm	SJG, Biosis Research	Justin Matthews, Carrawonga	phone	Left msg for Justin to confirm receipt of report and a reminder that comments are due by 18 March 2011
8/03/2011 - 12:25 pm	SJG, Biosis Research	Kathleen Steward-Kinchela, Yinarr Cultural Services	phone	Spoke to Kathy re: process of selection of RAPs for participation in the survey; reminded Kathy that comments on report are due by 18 March 2011
8/03/2011 - 12:29 pm	SJG, Biosis Research	Laurie Perry, Chairperson / Director, Wonnarua Nation Aboriginal Corporation	phone	Laurie confirmed receipt of report and I reminded him that comments are due by 18 March 2011
8/03/2011 - 12:34 pm	SJG, Biosis Research	Mark Hickey, Kayaway Manager, Kayaway Eco Cultural & Heritage Services	phone	No answer
8/03/2011 - 12:36 pm	SJG, Biosis Research	Ungoороо Aboriginal Corporation	phone	Spoke to Jess who will check post and advise SJG if report has not arrived

<b>Date Sent</b>	<b>From</b>	<b>To</b>	<b>Type</b>	<b>Content</b>
8/03/2011 - 12:40 pm	SJG, Biosis Research	Tracey Skene, Wonnarua Person and Traditional Owner	phone	Left msg for Tracey to confirm receipt of report and a reminder that comments are due by 18 March 2011
8/03/2011 - 12:43 pm	SJG, Biosis Research	Rhonda Ward, Ungooroo Cultural & Community Services Inc	phone	Left msg for Rhonda to confirm receipt of report and a reminder that comments are due by 18 March 2011
8/03/2011 - 12:46 pm	SJG, Biosis Research	Thomas Miller, Lower Hunter Wonnarua Council Incorporated	phone	No answer
8/03/2011 - 12:47 pm	SJG, Biosis Research	Lea-Ann Ball, Lower Hunter Wonnarua Council Incorporated	phone	Spoke to Lea-Ann who will check post and advise SJG if report has not arrived; reminded Lea-Ann that comments are due by 18 March 2011
8/03/2011	SJG, Biosis Research	Des Hickey, Manager, Wattaka Wonnarua CCS	email	Email requesting confirmation of receipt of report and a reminder that comments are due by 18 March 2011
8/03/2011 - 1:08 pm	Tracey Skene, Wonnarua Person	SJG, Biosis Research	phone	Tracey confirmed report has been received
9/03/2011	Des Hickey, Manager, Wattaka	SJG, Biosis Research	email	Email confirming receipt of report

# Gidawaa Walang

*Wiradjuri Meaning ~ Goanna Turning the Stone*

**Cultural Heritage Consultancy**

*...To keep our Culture...*

29<sup>th</sup> November 2010

Pamela Kottaras  
Team Leader  
Biosis Research Pty Ltd  
18-20 Mandible Street  
Alexandria,  
NSW 2015

Dear Pamela,

**Re: Nundah Bank Third Track Cultural Heritage Assessment**

Gidawaa Walang Cultural Heritage Consultancy believes all cultural heritage sites found in the area are important, we also support there should be continued consultation with the registered Aboriginal stakeholders and a Development of a Conservation Heritage Management Sub Plan.

We also support the recommendations listed below that were included in the report for KMH Environmental October 2010 :-

Conservation opportunities through avoidance,

Aboriginal Cultural Heritage sites  
Zone of moderate (Archaeological) sensitivity  
Zone of low (Archaeological) sensitivity  
Additional areas  
Ongoing management  
Unanticipated Aboriginal sites

We support the strategies that Biosis have put into place for the above project.

Yours sincerely



Ann Hickey  
Project Officer

**76 Lang Street  
Kurri Kurri  
NSW 2327**



**Phone: 4937 1094  
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25 January 2011

Ms P Kottaras  
Team Leader  
Biosis Research  
18-20 Mandible Street,  
ALEXANDRIA NSW 2015  
(Sent by fax: 9690 2577)

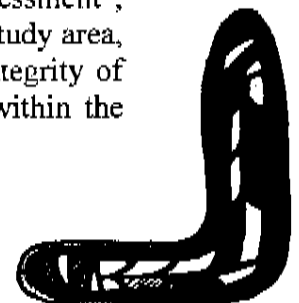
Dear Pamela

**RE: NUNDAH BANK THIRD TRACK CULTURAL HERITAGE  
ASSESSMENT**

Thank you for the report dated October 2010. As noted, Sarah Hall (Cultural Heritage Fieldworker) of Wanaruah LALC participated in the surveys undertaken for this project. I have reviewed the report and comment as follows. I am sure you have been made aware of the 'cultural' sensitivity of the study area and therefore the Wanaruah LALC support the recommendations put forward by the traditional stakeholders in the protection and conservation of the sites.

*This letter from the Wanaruah LALC does not express the views of any other Aboriginal stakeholder group or groups (whether their representatives are members of the LALC or not) who have chosen to speak in their own right. The comments provided are considered appropriate under Clause No. 42(4) (a) and (b) of the Aboriginal Land Rights Act (1983) (and its amendments) in relation to the role of the LALC in the protection and the promotion of awareness in the community of culture and heritage for Aboriginal people within its boundary.*

Biosis Research has named this report an "Aboriginal Cultural Heritage Assessment", but it only appears to consider the archaeological (scientific) aspects of the study area, not the cultural landscape and the importance of preserving the cultural integrity of sites within their environment. There is no way that any of these sites within the



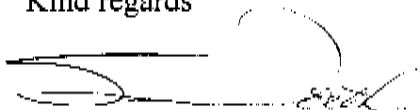
'Project Area' will not, in one way or another, be impacted regardless of whether they area temporarily fenced or not.

The Wanaruah LALC therefore would ask that you and the proponent consider the following recommendations:

- That artefact salvage in accordance with a DECCW s90 AHIP is appropriate for all sites identified and recorded within the 'Project Area' marked on Figures 9a to 9e. This also includes those sites which are marked on the boarder of the 'Project Area' corridors. Railway construction is extremely detrimental to artefact sites and just placing fences around them will not protect the sites from heavy machinery etc.
- Those sites identified with 'Site Extent' should be further tested and salvaged in accordance with a DECCW s90 AHIP if you believe that there is subsurface material, particularly if the extent of an artefact scatter is over a wide area.
- Those sites identified and recorded outside the 'Project Area' corridors are to be temporarily fenced with relevant signage so that they will be protected during the rail line construction and truck and vehicle movements etc. nearby (eg. >5m outside and beyond the corridor edge).
- It is up to the traditional stakeholders to decide for the long term, what is to happen to the artefacts salvaged from the sites within the 'Project Area' corridor.
- Legislation awareness, as part of the contractor induction process will need to be provided prior to work commencing. Should any subsurface artefacts be located or disturbed during work activities, the Wanaruah LALC in consultation with the other traditional stakeholders and DECCW are to be notified immediately. Work must stop in that area until management action strategies are discussed and implemented before commencement of work.

We look forward to continuing the consultation process with Biosis Research and should you wish to discuss any of the above issues, please do not hesitate to contact Noel Downs (CEO) on 02 6543 1288 or myself on 0457 707 565.

Kind regards



Suzie Worth  
Indigenous Archaeologist  
For Wanaruah Local Aboriginal Land Council

## APPENDIX 2 - EFFECTIVE SURVEY COVERAGE – LANDFORM SUMMARY

<b>Landform type</b>	<b>Approximate Landform area (m<sup>2</sup>)</b>	<b>Approximate Area Effectively surveyed (m<sup>2</sup>)</b>	<b>Approximate Area Effectively surveyed (%)</b>	<b>Aboriginal cultural heritage sites</b>
Crest	38602.482	110.6585862	0.286661843	<ul style="list-style-type: none"> <li>• TTAR01 (site card pending)</li> <li>• NBTT07 (site card pending)</li> </ul>
Ridge	12908.928	1.2908928	0.01	
Slope	591857.082	9413.119252	1.590437884	<ul style="list-style-type: none"> <li>• TTAR02 (site card pending)</li> <li>• TTAR03 (site card pending)</li> <li>• TTAR04 (site card pending)</li> <li>• RCLE01 (site card pending)</li> <li>• NBTT04 (site card pending)</li> <li>• NBTT05 (site card pending)</li> <li>• NBTT06 (site card pending)</li> <li>• NBTT07 (site card pending)</li> <li>• NBTT09 (site card pending)</li> <li>• NBTT10 (site card pending)</li> </ul>
Depression	62002.698	492.9019362	0.794968529	<ul style="list-style-type: none"> <li>• RCLE02 (site card pending)</li> <li>• RCLE03 (site card pending)</li> <li>• NBTT05 (site card pending)</li> </ul>
Flat	50923.416	925.818993	1.818061445	<ul style="list-style-type: none"> <li>• SC01 (site card pending)</li> <li>• NBTT04 (site card pending)</li> <li>• NBTT08 (site card pending)</li> </ul>
Modified	332091.438	836.8073646	0.251981012	<ul style="list-style-type: none"> <li>• NBTT01 (site card pending)</li> <li>• NBTT02 (site card pending)</li> <li>• NBTT03 (site card pending)</li> </ul>

## APPENDIX 3 - EFFECTIVE SURVEY COVERAGE - PER LANDFORM

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP1-WP2	Flat valley floor	234	0.01	0.01	0.0234	0.01	
WP2-WP3	Depression	10265.52	0.01	0.01	1.026552	0.01	
WP61-WP127 and WP149	Very gently inclined simple slope	6063.24	0.3	0.3	545.6916	9	
WP127 and WP149-WP150	Very gently inclined flat	8649.9	0.1	0.1	86.499	1	
WP151-WP150	Gently inclined simple slope	5305.908	0.05	0.05	13.26477	0.25	
WP152-WP151	Very gently inclined flat	4331.082	0.3	0.3	389.79738	9	SC01 (site card pending)
WP128-WP129	Gently inclined lower slope	3216.594	0.05	0.05	8.041485	0.25	
WP129-WP130	Moderately inclined upper slope	8929.5	0.05	0.05	22.32375	0.25	
WP130-WP131	Very gently inclined crest	10152.6	0.05	0.05	25.3815	0.25	TTAR01 (site card pending)

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP131- WP132	Gently inclined simple slope	8372.58	0.15	0.15	188.38305	2.25	TTAR02 (site card pending)
WP133- WP132	Depression	3519.834	0.3	0.3	316.78506	9	
WP134- WP133	Gently inclined simple slope	15987.78	0.1	0.1	159.8778	1	TTAR03 (site card pending)
WP134- WP135- WP136	Crest	4779.744	0.01	0.01	0.4779744	0.01	
WP135- WP137	Very gently inclined ridge	7194.36	0.01	0.01	0.719436	0.01	
WP135- WP137	Very gently inclined ridge	5714.568	0.01	0.01	0.5714568	0.01	
WP138- WP139	Crest on ridge	5399.142	0.01	0.01	0.5399142	0.01	
WP-139- WP140	Moderately inclined upper slope	14112	0.01	0.01	1.4112	0.01	
WP140- WP141	Modified	2734.962	0.25	0.25	170.935125	6.25	
WP141- WP142	Gently inclined lower slope	7034.88	0.01	0.01	0.703488	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP136-WP143	Moderately inclined upper slope	11462.04	0.05	0.05	28.6551	0.25	TTAR04 (site card pending)
WP143-WP144	Gently inclined midslope	5470.212	0.01	0.01	0.5470212	0.01	
WP145-WP146	Very gently inclined lower slope	7502.52	0.01	0.01	0.750252	0.01	
WP145-WP146	Modified	1533.66	0.05	0.05	3.83415	0.25	
WP146-WP147	Gently inclined simple slope	2858.364	0.01	0.01	0.2858364	0.01	
WP147-WP148	Very gently inclined crest	3408.174	0.01	0.01	0.3408174	0.01	
WP148-WP50	Gently inclined simple slope	5102.634	0.05	0.05	12.756585	0.25	
WP117-WP118	Gently inclined lower slope	20644.2	0.4	0.4	3303.072	16	
WP118-WP119	Gently inclined lower slope	7148.58	0.4	0.4	1143.7728	16	
WP119-WP120	Gently inclined lower slope	2127.144	0.05	0.05	5.31786	0.25	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP120-WP121	Depression	1395.696	0.1	0.1	13.95696	1	
WP121-WP122	Gently inclined lower slope	13196.64	0.1	0.1	131.9664	1	RCLE01 (site card pending)
WP122-WP123	Depression	5296.2	0.05	0.05	13.2405	0.25	RCLE02 (site card pending)
WP123-WP124	Gently inclined lower slope	5448.198	0.05	0.05	13.620495	0.25	
WP124-WP125	Very gently inclined lower slope	2917.548	0.05	0.05	7.29387	0.25	
WP125-WP126	Gently inclined depression	2757.33	0.05	0.05	6.893325	0.25	RCLE03 (site card pending)
WP126-WP127 and WP149	Very gently inclined simple slope	4726.668	0.1	0.1	47.26668	1	
WP6-WP7	Modified, level	16968.06	0.05	0.05	42.42015	0.25	
WP8-WP9	Modified, level	21819.42	0.05	0.05	54.54855	0.25	
WP9-WP10	Modified, level	11592.84	0.01	0.01	1.159284	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP10-WP11	Modified, level	10996.62	0.05	0.05	27.49155	0.25	
WP11-WP12	Modified, very gently inclined	5814.888	0.01	0.01	0.5814888	0.01	
WP12-WP13	Modified, level	11174.64	0.01	0.01	1.117464	0.01	
WP13-WP14	Modified level	14511.66	0.1	0.1	145.1166	1	NBTT01 (site card pending)
WP14-WP15	Modified, level	21407.22	0.1	0.1	214.0722	1	
WP15-WP16	Modified, very gently inclined	20209.5	0.05	0.05	50.52375	0.25	
WP16-WP17	Modified, very gently inclined	3179.412	0.01	0.01	0.3179412	0.01	
WP17-WP18	Modified, gently inclined simple slope	3214.836	0.01	0.01	0.3214836	0.01	
WP18-WP19	Modified, very gently inclined depression	6982.68	0.01	0.01	0.698268	0.01	
WP19-WP20	Modified, very gently inclined lower slope	15196.02	0.05	0.05	37.99005	0.25	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP20-WP21	Modified, very gently inclined lower slope	2931.816	0.01	0.01	0.2931816	0.01	
WP21-WP22	Modified, very gently inclined lower slope	9060.84	0.05	0.05	22.6521	0.25	
WP22-WP23	Modified, very gently inclined lower slope	10802.46	0.05	0.05	27.00615	0.25	NBTT02 (site card pending)
WP23-WP24	Modified, very gently inclined lower slope	8971.62	0.05	0.05	22.42905	0.25	NBTT03 (site card pending)
WP24-WP25	Modified, very gently inclined lower slope	3240.48	0.01	0.01	0.324048	0.01	
WP25-WP26	Modified, very gently inclined flat	6693.18	0.01	0.01	0.669318	0.01	
WP26-WP27	Modified, very gently inclined lower slope	7349.04	0.01	0.01	0.734904	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP27- WP28- WP29	Very gently inclined flat	5814.438	0.25	0.25	363.402375	6.25	NBTT04 (site card pending)
WP29- WP30	Gently inclined simple slope	6563.22	0.01	0.01	0.656322	0.01	
WP30- WP31	Very gently inclined open depression	3849.654	0.05	0.05	9.624135	0.25	
WP31- WP32	Gently inclined simple slope	16318.98	0.05	0.05	40.79745	0.25	
WP32- WP33	Very gently inclined crest	4397.97	0.05	0.05	10.994925	0.25	
WP33- WP34	Gently inclined simple slope	5194.536	0.1	0.1	51.94536	1	
WP34- WP35	Gently inclined simple slope	8221.44	0.1	0.1	82.2144	1	
WP36- WP37	Modified	5023.764	0.01	0.01	0.5023764	0.01	
WP37- WP38	Depression	1790.868	0.01	0.01	0.1790868	0.01	
WP38- WP39	Moderately inclined simple slope	5139.978	0.01	0.01	0.5139978	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP39-WP40	Very gently inclined simple slope	3362.112	0.01	0.01	0.3362112	0.01	
WP40-WP41	Gently inclined simple slope	7525.14	0.05	0.05	18.81285	0.25	
WP41-WP42	Gently inclined simple slope	3156.252	0.01	0.01	0.3156252	0.01	
WP42-WP43	Flat	964.086	0.1	0.1	9.64086	1	
WP43-WP44	Moderately inclined simple slope	6044.82	0.05	0.05	15.11205	0.25	NBTT05 (site card pending)
WP44-WP45	Open depression	1241.478	0.05	0.05	3.103695	0.25	NBTT05 (site card pending)
WP45-WP46	Moderately inclined simple slope	2738.922	0.3	0.3	246.50298	9	
WP46-WP47	Moderately inclined mid slope	9621.36	0.1	0.1	96.2136	1	NBTT06 (site card pending)
WP47-WP48	Moderately inclined midslope	11619.72	0.05	0.05	29.0493	0.25	NBTT06 (site card pending)

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP48-WP49	Depression	5750.796	0.05	0.05	14.37699	0.25	
WP49-WP50	Moderately inclined simple slope	20182.86	0.05	0.05	50.45715	0.25	NBTT07 (site card pending)
WP50-WP51	Moderately inclined simple slope	6808.08	0.05	0.05	17.0202	0.25	
WP51-WP52	Very gently inclined depression	1978.374	0.2	0.2	79.13496	4	
WP52-WP53	Gently inclined simple slope	7147.68	0.05	0.05	17.8692	0.25	
WP53-WP54	Flat	1749.42	0.05	0.05	4.37355	0.25	
WP54-WP55	Moderately inclined simple slope	8849.58	0.05	0.05	22.12395	0.25	
WP55-WP56	Moderately inclined simple slope	14158.62	0.05	0.05	35.39655	0.25	
WP56-WP57	Gently inclined depression	2143.608	0.05	0.05	5.35902	0.25	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP57-WP58	Gently inclined simple slope	11590.2	0.01	0.01	1.15902	0.01	
WP58-WP59	Modified – very gently inclined	28448.82	0.01	0.01	2.844882	0.01	
WP59-WP60	Modified	82233	0.01	0.01	8.2233	0.01	
WP61-WP62	Gently inclined simple slope	8366.64	0.05	0.05	20.9166	0.25	
WP62-WP63	Gently inclined lower slope	16156.5	0.05	0.05	40.39125	0.25	
WP63-WP64	Very gently inclined mid slope	7435.14	0.01	0.01	0.743514	0.01	
WP64-WP65	Moderately inclined upper slope	2658.036	0.01	0.01	0.2658036	0.01	
WP65-WP66	Gently inclined crest	3204.552	0.01	0.01	0.3204552	0.01	
WP66-WP67	Gently inclined upper slope	4766.004	0.01	0.01	0.4766004	0.01	
WP67-WP68	Very gently inclined lower slope	6638.7	0.01	0.01	0.66387	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP68-WP69	Depression	2015.736	0.01	0.01	0.2015736	0.01	
WP69-WP70	Gently inclined lower slope	7063.32	0.05	0.05	17.6583	0.25	
WP70-WP71	Depression	2650.866	0.01	0.01	0.2650866	0.01	
WP71-WP72	Gently inclined upper slope	10465.92	0.05	0.05	26.1648	0.25	
WP72-WP73	Crest	4230.162	0.1	0.1	42.30162	1	
WP73-WP74	Gently inclined upper slope	3714.936	0.1	0.1	37.14936	1	NBTT10 (site card pending)
WP74-WP75	Moderately inclined lower slope	4681.848	0.05	0.05	11.70462	0.25	
WP75-WP76	Depression	2539.95	0.05	0.05	6.349875	0.25	
WP76-WP77	Moderately inclined simple slope	11542.38	0.05	0.05	28.85595	0.25	
WP77-WP78	Crest	3030.138	0.1	0.1	30.30138	1	NBTT07 (site card pending)

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP78-WP79	Moderately inclined simple slope	12244.56	0.1	0.1	122.4456	1	NBTT07 (site card pending)
WP79-WP80	Depression	3644.082	0.01	0.01	0.3644082	0.01	
WP80-WP81	Gently inclined lower slope	11987.82	0.01	0.01	1.198782	0.01	
WP81-WP82	Gently inclined lower slope	3718.728	0.01	0.01	0.3718728	0.01	
WP82-WP83	Gently inclined depression	4031.37	0.05	0.05	10.078425	0.25	
WP83-WP84	Moderately inclined simple slope	6747.84	0.05	0.05	16.8696	0.25	
WP84-WP85	Very gently inclined flat	1116	0.01	0.01	0.1116	0.01	
WP85-WP86	Gently inclined lower slope	16702.74	0.05	0.05	41.75685	0.25	
WP86-WP87	Gently inclined lower slope	3648.336	0.05	0.05	9.12084	0.25	
WP87-WP88	Moderately inclined depression	3273.6	0.05	0.05	8.184	0.25	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP88-WP89	Gently inclined lower slope	3238.032	0.15	0.15	72.85572	2.25	
WP90-WP91	Gently inclined lower slope	2793.546	0.1	0.1	27.93546	1	
WP91-WP92	Gently inclined depression	1413.546	0.05	0.05	3.533865	0.25	
WP92-WP93-WP94	Very gently inclined lower slope	7895.94	0.1	0.1	78.9594	1	
WP94-WP95	Gently inclined lower slope	5949.78	0.01	0.01	0.594978	0.01	
WP95-WP96	Very gently inclined flat	6281.28	0.01	0.01	0.628128	0.01	NBTT08 (site card pending)
WP96-WP97	Moderately inclined simple slope	10880.1	0.01	0.01	1.08801	0.01	
WP97-WP98	Gently inclined lower slope	6158.1	0.01	0.01	0.61581	0.01	NBTT09 (site card pending)
WP98-WP99	Depression	2444.19	0.01	0.01	0.244419	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP99-WP100	Gently inclined lower slope	7428.9	0.01	0.01	0.74289	0.01	
WP100-WP101	Gently inclined lower slope	4388.508	0.1	0.1	43.88508	1	NBTT04 (site card pending)
WP101-WP102-WP103-WP104	Very gently inclined slope	10317.72	0.05	0.05	25.7943	0.25	
WP104-WP105-WP106	Gently inclined lower slope	14897.22	0.1	0.1	148.9722	1	
WP106-WP107	Very gently inclined lower slope	8960.1	0.3	0.3	806.409	9	
WP107-WP108	Moderately inclined lower slope	6682.32	0.1	0.1	66.8232	1	
WP108-WP109	Moderately inclined lower slope	5992.836	0.01	0.01	0.5992836	0.01	
WP109-WP110	Very gently inclined lower slope	15681.24	0.01	0.01	1.568124	0.01	

Landform points (Figures 6a, b, c, d and e and 7a, b, c, d and e)	Landform element	Approximate area	Approximate exposure area (%)	Approximate visibility (%)	Approximate effective survey coverage area (m <sup>2</sup> )	Effective survey coverage area (%)	Aboriginal cultural heritage sites
WP110-WP111	Very gently inclined lower slope	6102.96	0.4	0.4	976.4736	16	
WP111-WP112	Gently inclined lower slope	1777.836	0.4	0.4	284.45376	16	
WP112-WP113	Very gently inclined flat	2251.29	0.1	0.1	22.5129	1	
WP113-WP114	Gently inclined lower slope	1715.106	0.05	0.05	4.287765	0.25	
WP114-WP115	Gently inclined lower slope	10845.54	0.1	0.1	108.4554	1	
WP115-WP116	Very gently inclined lower slope	9741.12	0.05	0.05	24.3528	0.25	
WP4-WP5	Valley floor, flat	19531.92	0.05	0.05	48.8298	0.25	

## APPENDIX 4 - INFORMATION RECORDED DURING THE SURVEY SUMMARISED BY LANDFORM


**Site Compound (downside)**


Waypoint (WP)	WP61-WP127 and WP149
Landform	Very gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, power poles, grassed vehicle track, contour bank
Visibility	30
Exposures	30
Aboriginal sites	None


Photo(s) 2588, 2589, 2590



View south

Waypoint (WP)	WP127 and WP149-WP150
Landform	Very gently inclined flat
Disturbances	Vegetation clearance, contour bank, power poles
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2592	
	
View south	

Waypoint (WP)	WP151-WP150
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, power poles, grassed vehicle track
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2597	
	
View north	

Waypoint (WP)	WP152-WP151
Landform	Very gently inclined flat
Disturbances	Vegetation clearance, power poles, grassed vehicle track
Visibility	30
Exposures	30
Aboriginal sites	SC01 (site card pending)
Photo(s) 2593	
	
View north	


**Rixs Creek Lane Extension**


Waypoint (WP)	WP119-WP120
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance
Visibility	5
Exposures	5
Aboriginal sites	None

Photo(s) 2323





View east


Waypoint (WP)	WP120-WP121
Landform	Depression
Disturbances	Vegetation clearance, channel flow
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2324	
	
View east	

Waypoint (WP)	WP121-WP122
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, unsealed vehicle track
Visibility	10
Exposures	10
Aboriginal sites	RCLE01 (site card pending)
Photo(s) 2325	
	
View east	

Waypoint (WP)	WP122-WP123
Landform	Depression
Disturbances	Vegetation clearance, channel flow
Visibility	5
Exposures	5
Aboriginal sites	RCLE02 (site card pending)
Photo(s) 2328	
	
View east	

Waypoint (WP)	WP123-WP124
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2338, 2334	
	
View east	

Waypoint (WP)	WP124-WP125
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2339, 2340	
	
View east	

Waypoint (WP)	WP125-WP126
Landform	Gently inclined depression
Disturbances	Vegetation clearance, channel flow
Visibility	5
Exposures	5
Aboriginal sites	RCLE03 (site card pending)
Photo(s) 2341, 2342	
	
View east	

Waypoint (WP)	WP126-WP127&WP149
Landform	Very gently inclined simple slope
Disturbances	Vegetation clearance, railway construction
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2343	
	
View east	

Third Track (Upside)

Waypoint (WP)	W6-W7
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) (2537)	



View south

**Primary Compound Site (Revised)**

Waypoint (WP)	WP8-WP9
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	5
Exposures	5
Aboriginal sites	None

Photo(s) 2344



View southeast


Waypoint (WP)	WP9-WP10
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2345, 2346, 2347	
	
View southeast	

Waypoint (WP)	W10-W11
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	5
Exposures	5
Aboriginal sites	None

Photo(s) 2348, 2349, 2350, 2351, 2352





View south


Waypoint (WP)	WP11-WP12
Landform	Modified, very gently inclined
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2353, 2354	
	
View south	


Waypoint (WP)	WP12-WP13
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2355, 2356, 2357	
	
View south	


Waypoint (WP)	WP13-WP14
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2358	
	
View southeast	


Waypoint (WP)	WP14-WP15
Landform	Modified, level
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2363	
	
View east	


Waypoint (WP)	WP15-WP16
Landform	Modified, very gently inclined
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area, dam immediately east of Project Area
Visibility	5 (1 general, 15 dam wall)
Exposures	5 (1 general, 15 dam wall)
Aboriginal sites	None
Photo(s) 2377	
	
View southeast	

Waypoint (WP)	WP16-WP17
Landform	Modified, very gently inclined
Disturbances	Vegetation clearance, railway construction, access track, mining rehabilitation area, dam immediately east of Project Area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2378	
	
View south	

Waypoint (WP)	WP17-WP18
Landform	Modified, gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, swampy area immediately east of Project Area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2379	
	
View north	

Waypoint (WP)	WP18-WP19
Landform	Modified, very gently inclined depression
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, swampy area immediately east of Project Area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2380	
	
View south	

Waypoint (WP)	WP19-WP20
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2381, 2382, 2382	
	
View south	


Waypoint (WP)	WP20-WP21
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel, ants nest
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2384	
	
View south	


Waypoint (WP)	WP21-WP22
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
Visibility	5 (1 general, 15 artificial channel wall)
Exposures	5 (1 general, 15 artificial channel wall)
Aboriginal sites	None


Photo(s) 2394





View south


Waypoint (WP)	WP22-WP23
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
Visibility	5
Exposures	5
Aboriginal sites	NBTT02 (site card pending)
Photo(s) 2396, 2397, 2398	
	
View south	

Waypoint (WP)	WP23-WP24
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
Visibility	5
Exposures	5
Aboriginal sites	NBTT03 (site card pending)
Photo(s) 2399, 2400, 2401	
	
View south	


Waypoint (WP)	WP24-WP25
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
Visibility	1 (general, 20 artificial channel banks)
Exposures	1 (general, 20 artificial channel banks)
Aboriginal sites	None
Photo(s) 2402	
	
View south	


Waypoint (WP)	WP25-WP26
Landform	Modified, very gently inclined flat
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel, ants nest
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2403	
	
View south	


Waypoint (WP)	WP26-WP27
Landform	Modified, very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2385	
	
View south	

Waypoint (WP)	WP27 - WP28 – WP29
Landform	Very gently inclined flat
Disturbances	Railway construction, access road construction, rabbit activity
Visibility	25 (5 general, 50 along fence line)
Exposures	25 (5 general, 50 along fence line)
Aboriginal sites	NBTT04 (site card pending)
Photo(s) 2424, 2425	
	
View south	


Waypoint (WP)	WP29-WP30
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2426	
	
View northwest	


Waypoint (WP)	WP30-WP31
Landform	Very gently inclined open depression
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2427	
	
View southeast	


Waypoint (WP)	WP31-WP32
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2428	
	
View southeast	


Waypoint (WP)	WP32-WP33
Landform	Very gently inclined crest
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2429	
	
View southeast	


Waypoint (WP)	WP33-WP34
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road constructions
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2430	
	
View west	


Waypoint (WP)	WP34-WP35
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road constructions
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2432	
	
View west	


Waypoint (WP)	WP36-WP37
Landform	Modified
Disturbances	Vegetation clearance, railway construction, access road constructions, large part of the area has been previously excavated (cause unknown)
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2433, 2435, 2436	
	
View southeast of previous excavation (cause unknown)	


Waypoint (WP)	WP37-WP38
Landform	Depression
Disturbances	Vegetation clearance, railway construction, access road constructions, channel flow
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2437	
	
View southeast	


Waypoint (WP)	WP38-WP39
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road constructions
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2438	
	
View southeast	


Waypoint (WP)	WP39-WP40
Landform	Very gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road constructions
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2471	
	
View southeast	


Waypoint (WP)	WP40-WP41
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road constructions
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2472	
	
View southeast	

Waypoint (WP)	WP41-WP42
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road constructions
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2473	
	
View southeast	

Waypoint (WP)	WP42-WP43
Landform	Flat
Disturbances	Vegetation clearance, railway construction, access road construction, bridge
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2474	
	
View southeast	


Waypoint (WP)	WP43-WP44
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction, machine cut near fence line
Visibility	5
Exposures	5
Aboriginal sites	NBTT05 (site card pending)
Photo(s) 2475	
	
View southeast	

Waypoint (WP)	WP44-WP45
Landform	Depression
Disturbances	Vegetation clearance, railway and building construction, access road construction, channel flow
Visibility	5
Exposures	5
Aboriginal sites	NBTT05 (site card pending)
Photo(s) 2486	
	
View southeast	


Waypoint (WP)	WP45-WP46
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	30
Exposures	30
Aboriginal sites	None
Photo(s) 2487, 2491	
	
View southeast	


Waypoint (WP)	WP46-WP47
Landform	Moderately inclined mid slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	10
Exposures	10
Aboriginal sites	NBTT06 (site card pending)
Photo(s)	2488




Waypoint (WP)	WP47-WP48
Landform	Moderately inclined mid slope
Disturbances	Vegetation construction, railway and dam (two) construction, access road construction, grassed vehicle tracks along fence line
Visibility	5
Exposures	5 (particularly on dams walls)
Aboriginal sites	NBTT06 (site card pending)
Photo(s) 2492	
	
View southeast	


Waypoint (WP)	WP48-WP49
Landform	Depression
Disturbances	Vegetation clearance, railway construction, access road construction, channel flow
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2498	
	
View southeast	


Waypoint (WP)	WP49-WP50
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction, grassed vehicle tracks along fence line, gully
Visibility	5 (general); 40 (grassed vehicle tracks along fence line)
Exposures	5 (general); 40 (grassed vehicle tracks along fence line)
Aboriginal sites	NBTT07 (site card pending)
Photo(s) 2506,2507	
	
View south	

Waypoint (WP)	WP50-WP51
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction, grassed vehicle tracks along fence line
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2516	
	
View south	


Waypoint (WP)	WP51-WP52
Landform	Very gently inclined depression
Disturbances	Vegetation clearance, railway construction, access road construction, grassed vehicle tracks along fence line, channel flow
Visibility	20
Exposures	20
Aboriginal sites	None
Photo(s) 2517	
	
View south	


Waypoint (WP)	WP52-WP53
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction, grassed vehicle tracks along fence line
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2556	
	
View south	


Waypoint (WP)	WP53-WP54
Landform	Flat
Disturbances	Vegetation clearance, railway construction, access road construction, grassed vehicle tracks along fence line
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2557	
	
View south	

Waypoint (WP)	WP54-WP55
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction, grassed vehicle tracks along fence line, power pole
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2558	
	
View south	

Waypoint (WP)	WP55-WP56
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2519	
	
View south	

Waypoint (WP)	WP56-WP57
Landform	Gently inclined depression
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2560	
	
View south	


Waypoint (WP)	WP57-WP58
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2561	
	
View south	


Waypoint (WP)	WP58-WP59
Landform	Modified – very gently inclined
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s): 2563,2564	
	
View south	


Waypoint (WP)	WP59-WP60
Landform	Modified
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	1 (surveyed from vehicle)
Exposures	1 (surveyed from vehicle)
Aboriginal sites	None
Photo(s) 2566	
	
View south	


Third Track (Downside)


Waypoint (WP)	WP61-WP62
Landform	Gently inclined simple slope
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2566	
	
View north	


Waypoint (WP)	WP62-WP63
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, access track
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2567	
	
View north	


Waypoint (WP)	WP63-WP64
Landform	Very gently inclined mid slope
Disturbances	Vegetation clearance, railway construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2570	
	
View north	


Waypoint (WP)	WP64-WP65
Landform	Moderate inclined upper slope
Disturbances	Vegetation clearance, railway construction, animal track along fence line
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2571	
	
View north	


Waypoint (WP)	WP65-WP66
Landform	Gently inclined crest
Disturbances	Vegetation clearance, railway construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2572	
	
View north	


Waypoint (WP)	WP66-WP67
Landform	Gently inclined upper slope
Disturbances	Vegetation clearance, railway construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2573	
	
View north	


Waypoint (WP)	WP67-WP68
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, ants nest
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2574	
	
View north	


Waypoint (WP)	WP68-WP69
Landform	Depression
Disturbances	Vegetation clearance, railway construction, channel flow
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2575, 2576, 2577	
	
View north	


Waypoint (WP)	WP69-WP70
Landform	Gently inclined lower slopes
Disturbances	Vegetation clearance, railway construction, ants nest
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2578	
	
View north	

Waypoint (WP)	WP70-WP71
Landform	Depression
Disturbances	Vegetation clearance, railway construction, channel flow
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2579	
	
View north	


Waypoint (WP)	WP71-WP72
Landform	Gently inclined upper slope
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2580	
	
View north	


Waypoint (WP)	WP72-WP73
Landform	Crest
Disturbances	Vegetation clearance, railway construction, ants nest
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2581	
	
View north	

Waypoint (WP)	WP73-WP74
Landform	Gently inclined upper slope
Disturbances	Vegetation clearance, railway construction, ants nest
Visibility	10
Exposures	10
Aboriginal sites	NBTT10 (site card pending)
Photo(s) 2587	
	
View north	


Waypoint (WP)	WP74-WP75
Landform	Moderately inclined lower slope
Disturbances	Vegetation clearance, railway construction, grassed vehicle track
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2519	
	
View north	


Waypoint (WP)	WP75-WP76
Landform	Depression
Disturbances	Vegetation clearance, railway construction, grassed vehicle track
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2520	
	
View north	


Waypoint (WP)	WP76-WP77
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, grassed vehicle track
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2524	
	
View north	


Waypoint (WP)	WP77-WP78
Landform	Crest
Disturbances	Vegetation clearance, railway construction, grassed vehicle track
Visibility	10
Exposures	10
Aboriginal sites	NBTT07 (site card pending)
Photo(s) 2525, 2526	
	
View northeast	


Waypoint (WP)	WP78-WP79
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, grassed vehicle track
Visibility	10
Exposures	10
Aboriginal sites	NBTT07 (site card pending)
Photo(s) 2531	
	
View southeast	


Waypoint (WP)	WP79-WP80
Landform	Depression
Disturbances	Railway construction, channel flow
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2499	
	
View northwest	

Waypoint (WP)	WP80-WP81
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2500	
	
View northwest	


Waypoint (WP)	WP81-WP82
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2501	
	
View northwest	


Waypoint (WP)	WP82-WP83
Landform	Gently inclined depression
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2502	
	
View northwest	


Waypoint (WP)	WP83-WP84
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2503	
	
View northwest	

Waypoint (WP)	WP84-WP85
Landform	Very gently inclined flat
Disturbances	Vegetation clearance, railway construction, access road construction
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2504	
	
View northwest	


Waypoint (WP)	WP85-WP86
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, ants nest
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2505	
	
View northwest	


Waypoint (WP)	WP86-WP87-
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2543	
	
View southeast	

Waypoint (WP)	WP87-WP88
Landform	Moderately inclined depression
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2542	
	
View west	

Waypoint (WP)	WP90-WP89-WP88
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction
Visibility	15
Exposures	15
Aboriginal sites	None
Photo(s) 2541	
	
View west	

Waypoint (WP)	WP90-WP91
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, ants nest
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2439	
	
View west	

Waypoint (WP)	WP91-WP92
Landform	Gently inclined depression
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2440	
	
View west	


Waypoint (WP)	WP92-WP93-WP94
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance, railway and dam construction
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2441	
	
View west	

Waypoint (WP)	WP94-WP95
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway and dam construction, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None

Photo(s) 2442, 2443, 2444, 2445



View west


Waypoint (WP)	WP95-WP96
Landform	Very gently inclined flat
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area, animal track
Visibility	5
Exposures	5
Aboriginal sites	NBTT08 (site card pending)
Photo(s) 2446	
	
View northwest	


Waypoint (WP)	WP96-WP97
Landform	Moderately inclined simple slope
Disturbances	Vegetation clearance, railway construction, ants nest, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None


Photo(s) 2451, 2452




View north west


Waypoint (WP)	WP97-WP98
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	NBTT09 (site card pending)
Photo(s) 2453	
	
View northwest	


Waypoint (WP)	WP98-WP99
Landform	Depression
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2460	
	
View northwest	


Waypoint (WP)	WP99-WP100
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2461, 2462	
	
View northwest	


Waypoint (WP)	WP100-WP101
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	NBTT04 (site card pending)
Photo(s) 2463	
	
View northwest	


Waypoint (WP)	WP101-WP102-WP103-WP104
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance railway and dam construction, plantings, mining rehabilitation area
Visibility	5- 1 (general), 15 (dam wall)
Exposures	5- 1 (general), 15 (dam wall)
Aboriginal sites	None
Photo(s) 2409	
	
View north	

Waypoint (WP)	WP104-WP105-WP106
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2410-2414	
	
View north	

Waypoint (WP)	WP106-WP107
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	30
Exposures	30
Aboriginal sites	None
Photo(s) 2415, 2416	
	
View north	

Waypoint (WP)	WP107-WP108
Landform	Moderately inclined lower slope
Disturbances	Vegetation clearance, railway construction mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2417	
	
View north	

Waypoint (WP)	WP108-WP109
Landform	Moderately inclined lower slope
Disturbances	Vegetation clearance, railway construction mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2418, 2419	
	
View north	

Waypoint (WP)	WP109-WP110
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, tree plantings, gully, mining rehabilitation area
Visibility	1
Exposures	1
Aboriginal sites	None
Photo(s) 2385	
	
View north	

Waypoint (WP)	WP110-WP111
Landform	Very gently inclined lower slopes
Disturbances	Vegetation clearance, railway construction, tree plantings, mining rehabilitation area
Visibility	40 - 1 (general), 80 (tree plantings)
Exposures	40 -1 (general), 80 (tree plantings)
Aboriginal sites	None

Photo(s) 2386




View north


Waypoint (WP)	WP111-WP112
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, tree plantings, mining rehabilitation area
Visibility	40 - 1 (general), 80 (tree plantings)
Exposures	40 1 (general), 80 (tree plantings)
Aboriginal sites	None


Photo(s) 2388





View north

Waypoint (WP)	WP112-WP113
Landform	Very gently inclined flat
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	10
Exposures	10
Aboriginal sites	None
Photo(s) 2389	
	
View north	

Waypoint (WP)	WP113-WP114
Landform	Gentle inclined lower slope
Disturbances	Vegetation clearance, railway construction, tree plantings, mining rehabilitation area
Visibility	5 - 1 (general), 30 (tree plantings)
Exposures	5- 1 (general), 30 (tree plantings)
Aboriginal sites	None
Photo(s) 2390	
	
View north	

Waypoint (WP)	WP114-WP115
Landform	Gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, tree plantings, mining rehabilitation area
Visibility	10 - 1 (general), 40 (tree plantings)
Exposures	10 - 1 (general), 40 (tree plantings)
Aboriginal sites	None
Photo(s) 2391, 2392	
	
View south	

Waypoint (WP)	WP115-WP116
Landform	Very gently inclined lower slope
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) 2393	
	
View north	

Waypoint (WP)	WP4-WP5
Landform	Valley floor, flat
Disturbances	Vegetation clearance, railway construction
Visibility	5
Exposures	5
Aboriginal sites	None
Photo(s) (2535)	
	
View northwest	

**APPENDIX 5 –PREVIOUSLY UNDOCUMENTED ABORIGINAL CULTURAL  
HERITAGE SITES IDENTIFIED DURING THE FIELD SURVEY**

**Rixs Creek Lane Extension**

*Within Project Area*

Name	<b>RCLE01</b>
Type	Open site – isolated artefact
Waypoints (WP)	WP121-WP122
Map coordinates	326,275.39795262E, 6,399,759.2785999N
Landform	Gently inclined lower slope
Contents	Silcrete artefact embedded in a vehicle track
Exposure upon which site contents identified	Unsealed vehicle track
Visibility	10 (WP121-WP122)
Disturbances	Vegetation clearance, unsealed vehicle track

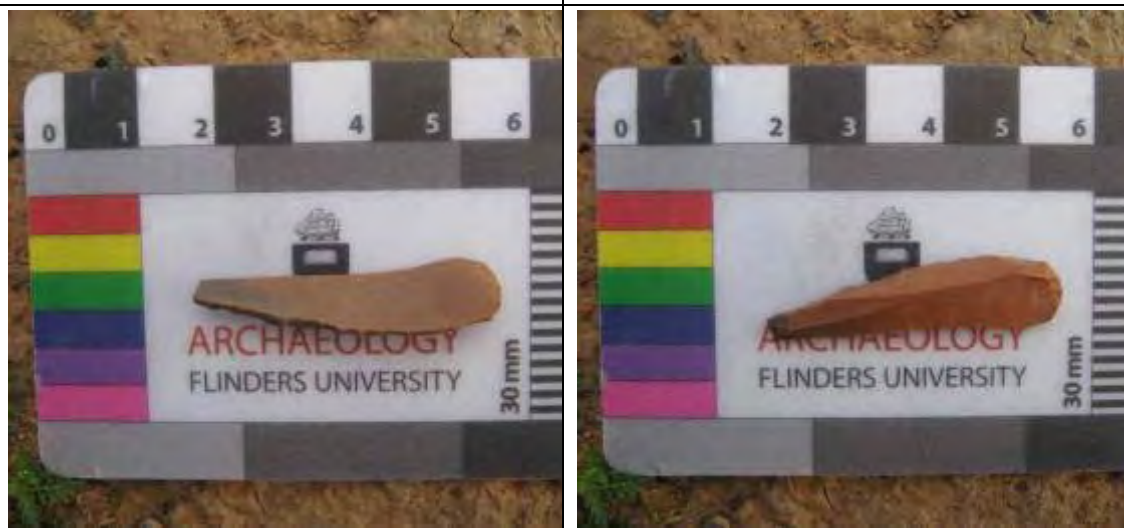


Photo(s) 2326. Pinkish white silcrete (exposed part of the artefact is approximately 20 mm maximum dimension)



Photo(s) 2327. Location of artefact. View east

Name	<b>RCLE03</b>
Type	Open site – isolated artefact
Waypoints (WP)	WP125-WP126
Map coordinates	326,373.31735363E, 6,399,748.980696N
Landform	Gently inclined depression
Contents	Mudstone artefact
Exposure upon which site contents identified	Erosional exposure
Visibility	5 (WP125-WP126)
Disturbances	Vegetation clearance, channel flow



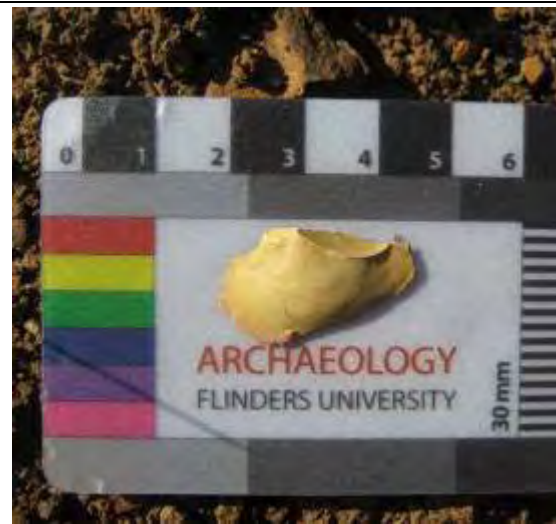
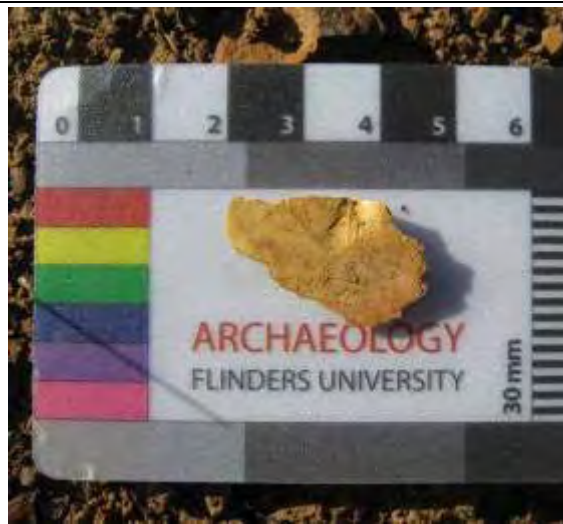
Photo(s) 2335 and 2336. Red mudstone, Bondi Point formal tool type (approximately 38.3 mm percussion length x 8.5mm width at mid point x 3.4 mm thickness)



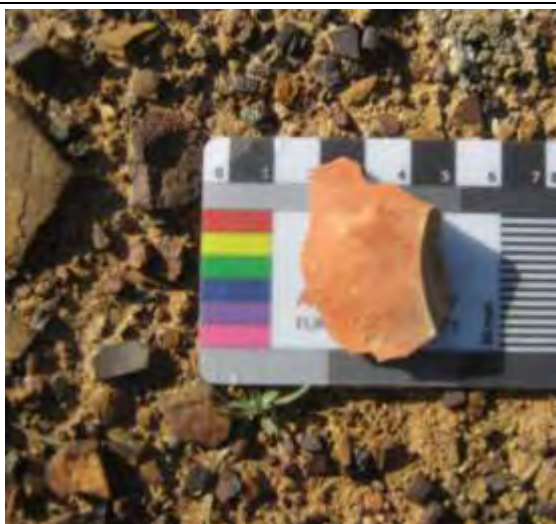
Photo(s) 2337. Location of artefact. View northwest

Outside Project Area

Name	<b>RCLE02</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP122-WP123
Map coordinates	<u>Artefact 1</u> 326,355.80318035E, 6,399,751.2902259N <u>Artefact 2</u> 326,373.31735363E, 6,399,750.9402971N
Landform	Depression
Contents	Mudstone artefacts
Exposure upon which site contents identified	Dam wall and banks
Visibility	5 (WP122-WP123)
Disturbances	Vegetation clearance, dam construction and flow



Photo(s) 2333 and 2332. Artefact 1, yellow mudstone flake (approximately 26 mm percussion length x 14 mm width at mid point x 3.6 mm thickness)



Photo(s) 2330 and 2331. Artefact 2, red mudstone flake (approximately 37.9 mm percussion length x 29 mm width at mid point x 9.6 mm thickness)



Photo(s) 2329. Location of artefacts 1 and 2. View east

**Third Track**

*Within Project Area*

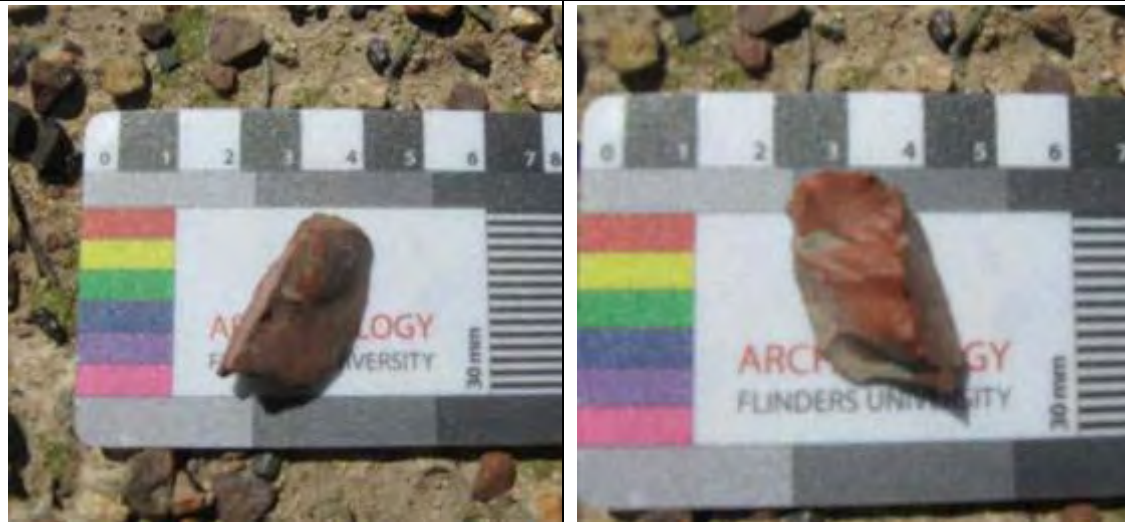
Name	<b>NBTT01</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP13-WP14
Map coordinates	<u>Artefact 1, 2, 3, 4 and 5:</u> 324,467.08429849E, 6,404,873.1976764N <u>Artefact 6:</u> 324,485.95079024E, 6,404,821.8881203N
Landform	Modified, level
Contents	Mudstone and silcrete artefacts
Exposure upon which site contents identified	Erosional exposure adjacent railway cutting and access track
Visibility	10 (WP13-WP14)
Disturbances	Vegetation clearance, railway construction, access track construction, vehicle movement



Photo(s) 2366 and 2367. Artefact 1, red mudstone flake (approximately 29.3 percussion length x 17.4 mm width at mid point x 9.1 mm thickness)



Photo(s) 2368 and 2369. Artefacts 2 and 3, red mudstone flake (approximately 12 mm percussion length x 11 width at mid point x 2.5 mm thickness) and red mudstone artefact (approximately 21.7 mm maximum dimension)

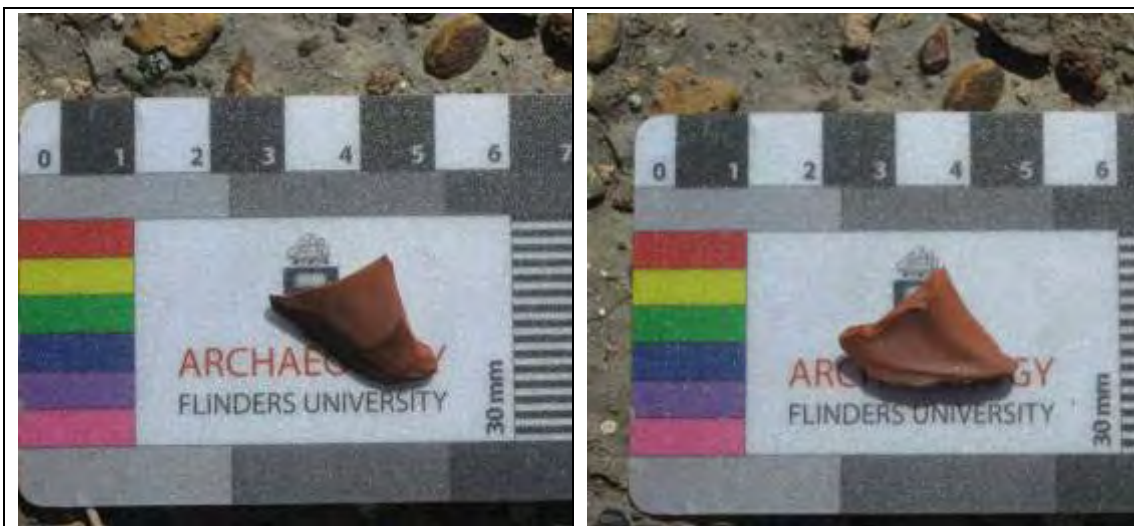


Photo(s) 2370 and 2371. Artefact 4, red mudstone artefact (approximately 24.1 mm percussion length x 18.5 width at mid point x 11 mm thickness)



Photo(s) 2372. Artefact 5, silcrete artefact (approximately 11.9 mm maximum dimension)



Photo(s) 2373. Location of artefacts 1, 2, 3, 4 and 5. View northwest.





Photo(s) 2374 and 2375. Artefact 6, red mudstone



Photo(s) 2376. Location of Artefact 6. View northwest

Name	<b>NBTT02</b>
Type	Open site – isolated artefact
Waypoints (WP)	WP22-WP23
Map coordinates	325,045.00254183E, 6,403,327.0024N
Landform	Very gently inclined lower slope
Contents	Mudstone artefact
Exposure upon which site contents identified	Erosional exposure on artificial channel wall
Visibility	5 (WP22-WP23)
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
	
<p>Photo(s) 0093 and 0094. Core (approximately 50 mm maximum dimension)</p>	
	
<p>Photo(s) 0092. Location of artefact. View northwest</p>	

Name	<b>NBTT03</b>
Type	Open site – isolated artefact
Waypoints (WP)	WP23-WP24
Map coordinates	325,024.81671499 6E,403,184.4314199N
Landform	Very gently inclined lower slope
Contents	Mudstone artefact
Exposure upon which site contents identified	Erosional exposure on artificial channel wall
Visibility	5 (WP23-WP24)
Disturbances	Vegetation clearance, railway construction, access road construction, past mining area, artificial channel
	
Photo(s) 2539. Mudstone artefact.	Photo(s) 2540. Location of artefact. View south

Name	<b>NBTT04</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP27-28-29 and WP100-WP101
Map coordinates	<u>Artefact 1 and 2:</u> 325,072.213828 6,402,591.9120255 <u>Artefact 3:</u> 325,038.3151621 6,402,609.6084235 <u>Artefact 4</u> 325,008.85276043 6,402,836.2722867
Landform	Gently inclined lower slope (WP97-WP98) and very gently inclined flat (WP27-28-29)
Contents	Mudstone artefacts
Exposure upon which site contents identified	Erosional exposures (artefacts 1, 2, and 3) and erosional exposure along fence line (artefact 4)
Visibility	25 (WP27-28-29), 10 (WP100-WP101)
Disturbances	Railway construction, access road construction (WP27-28-29), 10 (WP100-WP101), rabbit activity (WP27-28-29), mining rehabilitation area (WP100-WP101)



Photo(s) 2455 and 2456. Yellow silcrete artefact (approximately 23.8 mm maximum dimension) and red silcrete artefact (approximately 18.1 mm maximum dimension)



Photo(s) 2454. Location of artefacts 1 and 2. View north



Photo(s) 2457 and 2458. Artefact 3, pale red mudstone artefact (approximately 27.1 mm maximum dimension)



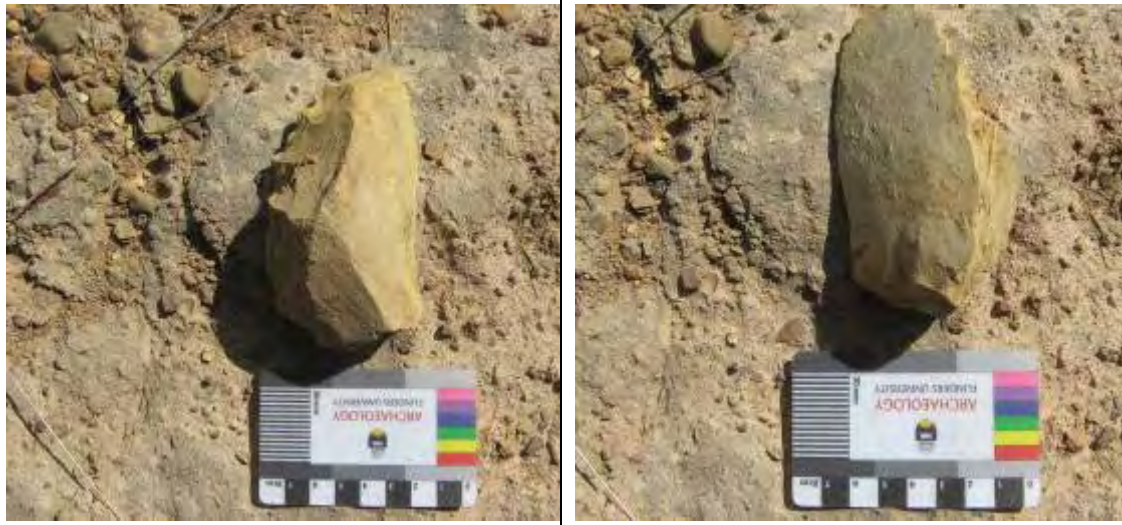
Photo(s) 2459. Location of Artefact 3. View northwest



Photo(s) 2406 and 2407. Artefact 4, orange mudstone flake (approximately 42.5 mm maximum dimension x 29 mm width at mid point x 7.8 mm thickness) with possible retouch on distal

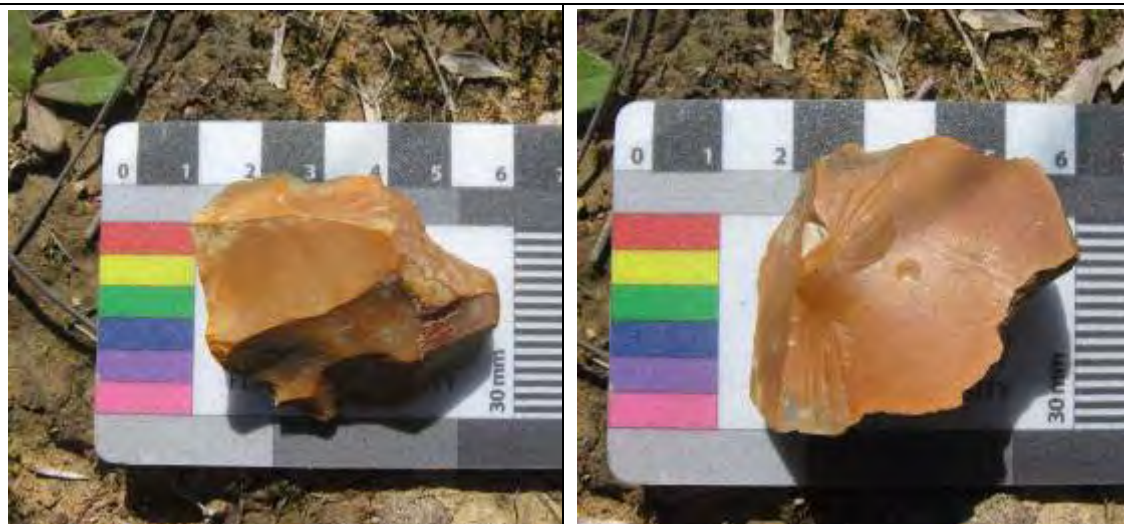


Photo(s) 2408. Location of Artefact 4. View south

Name	<b>NBTT05</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP43-WP44 and WP44-WP45
Map coordinates	<u>Artefact 1:</u> 326,111.20670099E, 6,402,028.796646N <u>Artefact 2:</u> 326,151.10834154E, 6,402,013.6297332N
Landform	Moderately inclined simple slope (WP43-WP44) and depression (WP44-WP45)
Contents	Mudstone and silcrete artefacts
Exposure upon which site contents identified	Machine cut near fence line (Artefact 1) and erosional exposure (Artefact 2)
Visibility	5 (WP43-WP44 and WP44-WP45)
Disturbances	Vegetation clearance, railway and access road construction (WP43-WP44 and WP44-WP45), machine cut near fence line WP43-WP44, channel flow and building construction (WP44-WP45)
	
<p>Photo(s) 2476 2477 2480, 2481 and 2482. Artefact 1, Unifacial core flake with at least 14 negative flake scars (approximately 104.2 mm percussion length x 62 mm width at mid point)</p>	



Photo(s) 2479. Location of Artefact 1. View southeast



Photo(s) 2483 and 2484. Artefact 2, orange mudstone flake and tool – nosed scraper with uniface retouch (approximately 45.7 mm maximum dimension)



Photo(s) 2485. Location of Artefact 2. View southwest.

Name	<b>NBTT06</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP46-WP47 and WP47-WP48
Map coordinates	<u>Artefact 1 and 2:</u> 326,272.751036E, 6,401,927.4772693N <u>Artefact 3:</u> 326,312.91654416E, 6,401,886.2256659N
Landform	Moderately inclined mid slope
Contents	Mudstone artefacts
Exposure upon which site contents identified	Erosional exposure (Artefacts 1 and 2) and dam wall (Artefact 3)
Visibility	10 (WP46-WP47), 5 (WP47-WP48)
Disturbances	Vegetation construction, railway and access road construction road (WP46-WP47 and WP47-WP48), dam (two) construction and grassed vehicle tracks along fence line (WP47-WP48)



Photo(s) 2489 and 2490. Artefact 1, one pale yellowish white mudstone flake (approximately 55.6 mm maximum dimension) and Artefact 2, yellowish brown mudstone flake (approximately 23.6 mm maximum length)



Photo(s) 2488. Location of Artefacts 1 and 2. View southeast



Photo(s) 2493 and 2495. Artefact 3, orange mudstone distal flake (approximately 27.3 mm maximum dimension)



Photo(s) 2496. Location of Artefact 3. View south

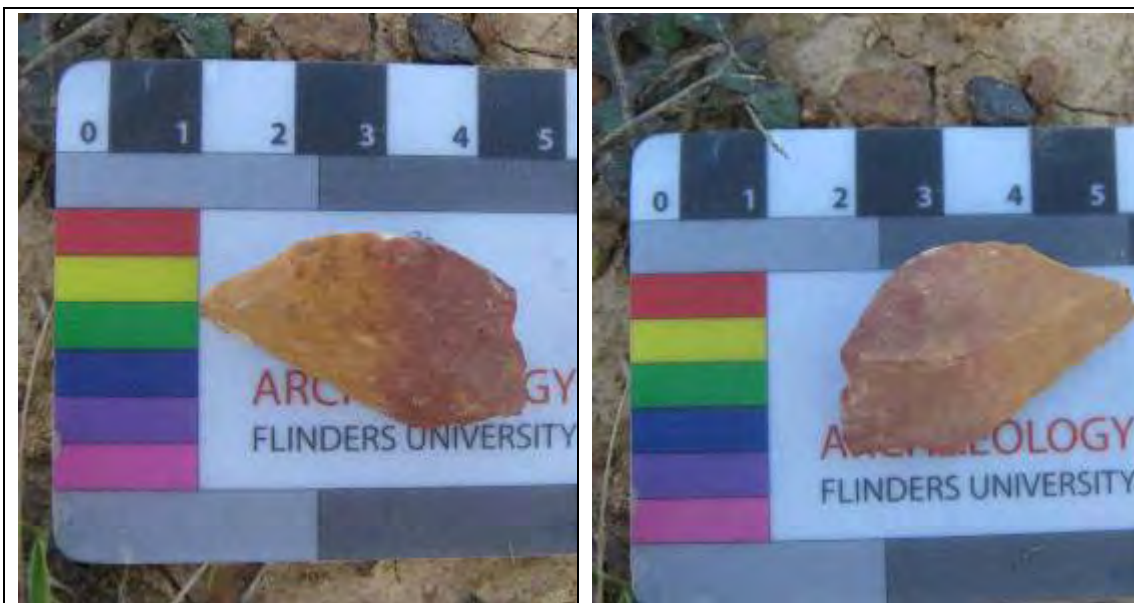
Name	<b>NBTT07</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP49-WP50, WP77-WP78-WP79
Map coordinates	<p><u>Artefact 1:</u> 326,504.26136105E, 6,401,532.1877293N</p> <p><u>Artefact 2:</u> 326,553.4148389E, 6,401,552.0036959N</p> <p><u>Artefact 3 and 4:</u> 326,549.82789663E, 6,401,532.1877293N</p> <p><u>Artefact 4:</u> 326,462.32299696 6,401,481.3080857</p> <p><u>Artefact 5:</u> 326,457.95269949 6,401,498.7845285</p> <p><u>Artefact 6:</u> 326,455.88299257 6,401,509.3523774</p> <p><u>Artefact 7:</u> 326,453.35151837 6,401,526.2389402</p> <p><u>Artefact 8 and 9:</u> 326,441.83207389 6,401,555.1730507</p> <p><u>Approximately 14 additional artefacts between:</u> 326,415.32168448E, 6,401,582.3975093N 326,403.01063894E, 6,401,655.9825313N</p>
Landform	Moderately inclined simple slope (WP49-WP50), crest (WP77-WP78) and moderately inclined simple slope (WP78-WP79)
Contents	Mudstone artefacts
Exposure upon which site contents identified	Erosional exposure (Artefact 1), gully (Artefacts 2, 3 and 4) and erosional exposures and grassed vehicle track (Artefacts 5 to 9 and additional 14 artefacts)
Visibility	5 (WP49-WP50) and 10 (WP77-WP78 and WP78-WP79)
Disturbances	Vegetation clearance, railway and access road construction, grassed vehicle tracks along fence line, gully



Photo(s) 2509 and 2510. Artefact 1, pinkish white chert (approximately 21.1 mm maximum dimension)



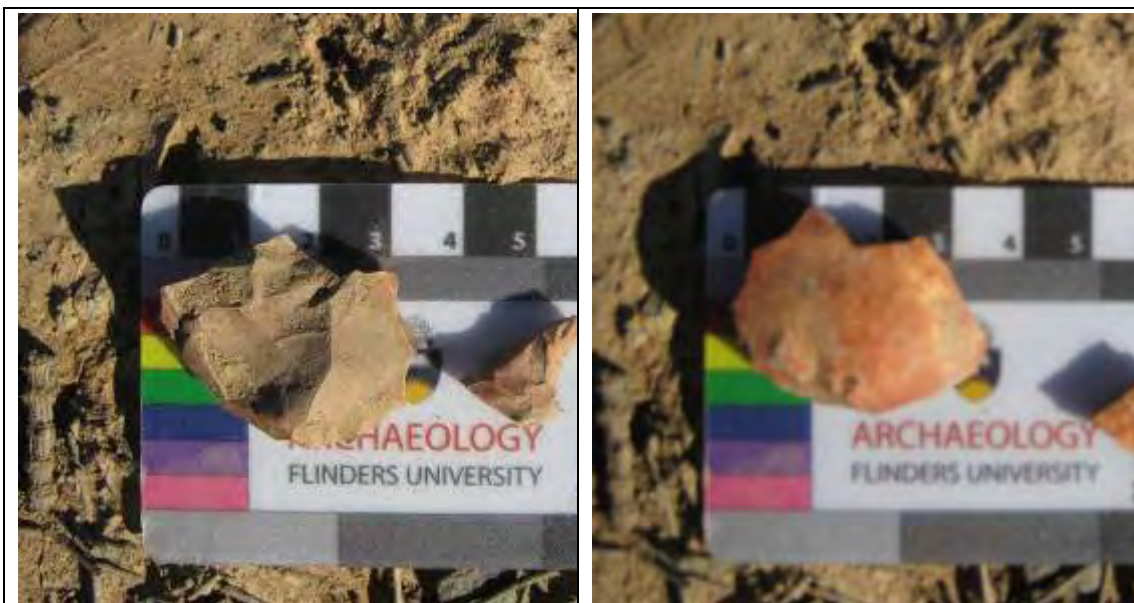
Photo(s) 2508. Location of Artefact 1. View southwest



Photo(s) 2512 and 2513. Artefact 2, red and yellow mudstone (approximately maximum dimension 34.4 mm)



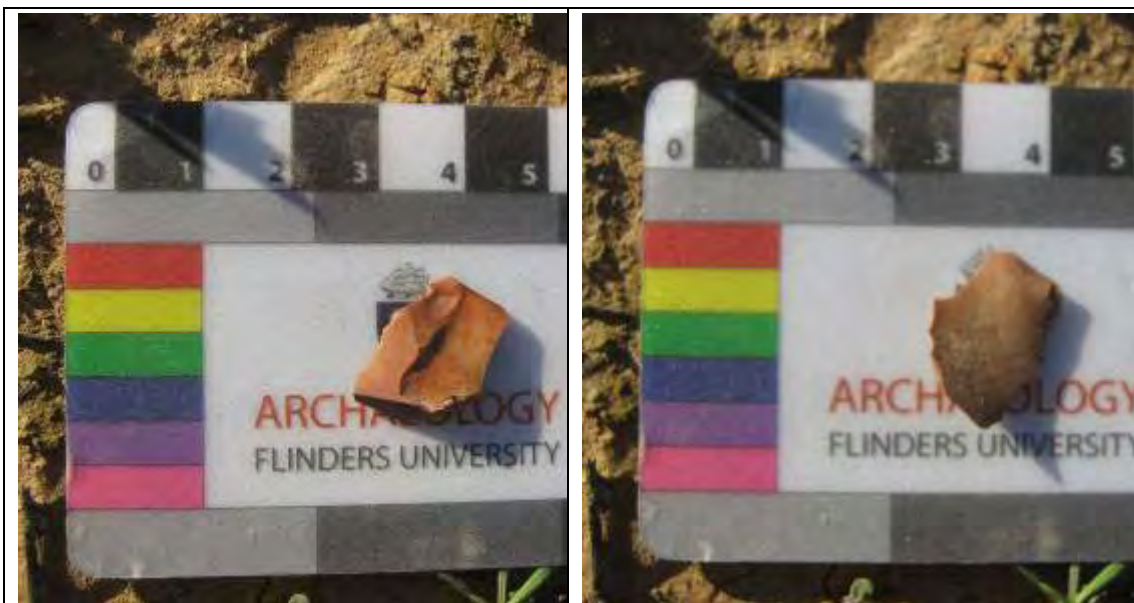
Photo(s) 2511. Location of Artefact 2. View southwest



Photo(s) 2514 and 2515. Artefacts 3 and 4. Two mudstone flakes (approximately 33 mm maximum dimension and 16.6 mm maximum dimension)



Photo(s) 2527 and 2528. Artefact 5, mudstone core (approximately 78.9 mm maximum dimension)



Photo(s) 2529 and 2530. Artefact 6, red mudstone flake (approximately 17.4 mm maximal dimension)



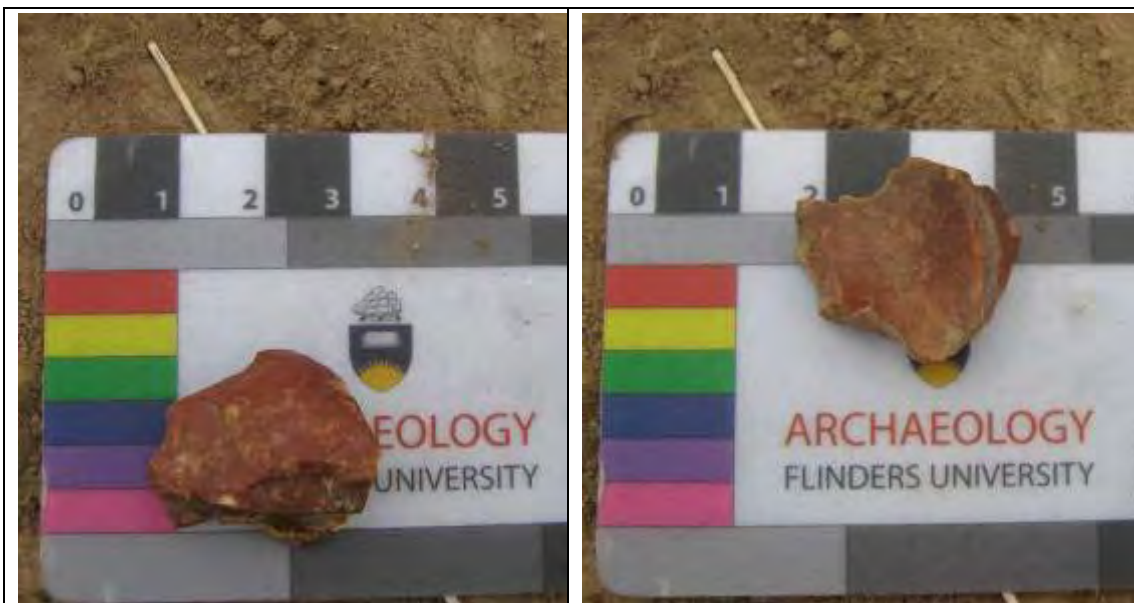
Photo(s) 2531. Location of artefacts 5 and 6. View south.



Photo(s) 2546 and 2547. Artefact 7, silcrete angular fragment (approximately 32.7 mm maximum dimension)



Photo(s) 2548. Location of artefact 3. View north.



Photo(s) 2549 and 2550. Artefact 8, red silcrete



Photo(s) 2551. Location of Artefact 4. View north.



Photo(s) 2552 and 2553. Artefact 9 and 10, silcrete (approximately 20.6 mm maximum dimension) and mudstone flake (approximately 16.4 mm maximum dimension)



Photo(s) 2554. Location of artefacts 9 and 10. View north.

Further approximate 14 mudstone artefacts, including a microlith blade, between 326,403.01063894E, 6,401,655.9825313N and 326,403.01063894E 6,401,655.9825313N

Name	<b>NBTT08</b>
Type	Open site – isolated artefact
Waypoints (WP)	WP95-WP96
Map coordinates	325,274.3194717E, 6,402,393.3724377N
Landform	Very gently inclined flat
Contents	Silcrete artefacts
Exposure upon which site contents identified	Animal track
Visibility	5 (WP95-WP96)
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area, animal track



Photo(s) 2447. Silcrete unifacial core with 10 flake scars (approximately 68.6 mm maximum dimension) and core flake conjoin (21 mm maximum dimension)



Photo(s) 2448. Location of artefacts 1 and 2. View northwest

Name	<b>NBTT09</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP97-98
Map coordinates	<u>Artefact 1 and 2</u> 325,072.213828E 6,402,591.9120255N <u>Artefact 3:</u> 325,038.3151621E 6,402,609.6084235N
Landform	Gently inclined lower slope
Contents	Mudstone and silcrete artefacts
Exposure upon which site contents identified	Erosional exposures
Visibility	10 (WP97-98)
Disturbances	Vegetation clearance, railway construction, mining rehabilitation area (WP100-101)



Photo(s) 2466 and 2467. Artefacts 1 and 2, yellow silcrete tool - bondi point type (approximately 22.6 mm maximum dimension) and red mudstone angular fragment (approximately 12.6 mm maximum dimension)



Photo(s) 2463. Location of artefacts 1 and 2. View northeast.



Photo(s) 2468 and 2469. Artefact 3, red silcrete (approximately 60 mm maximum dimension)



Photo(s) 2470. Location of Artefact 3. View north

Name	<b>NBTT10</b>
Type	Open site – artefact scatter
Waypoints (WP)	WP73-74
Map coordinates	<u>Artefact 1</u> 326,545.38338656 6E,401,097.9561159N <u>Artefact 2:</u> 326,550.26492638 6E,401,107.0142722N
Landform	Gently inclined upper slope
Contents	Mudstone artefacts
Exposure upon which site contents identified	Erosional exposures
Visibility	10
Disturbances	Vegetation clearance, railway construction, ants nest



Photo(s) 2582 and 2583. Artefact 1, orange mudstone artefact (20.6 mm maximum dimension)



Photo(s) 2584. Location of Artefact 1. View northwest

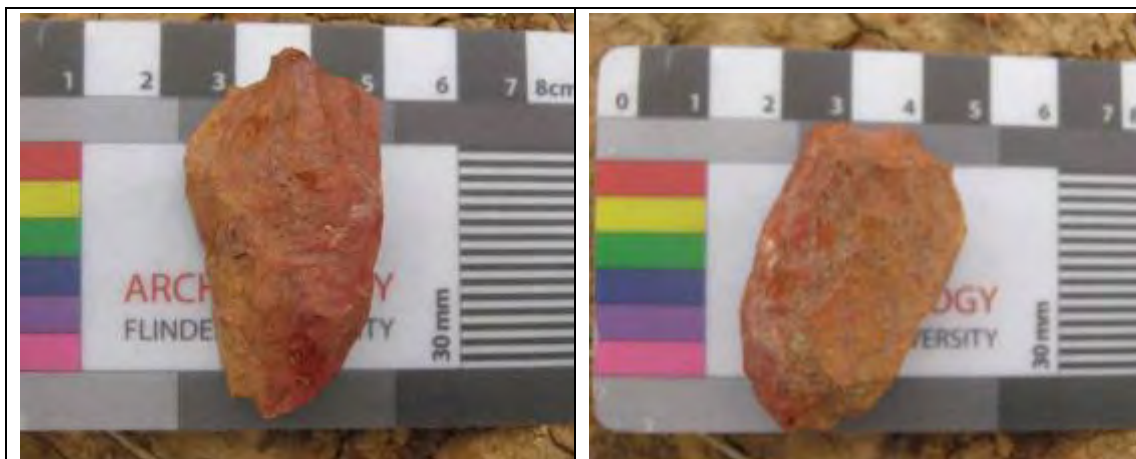


Photo(s) 2585 and 2586. Artefact 2, orange mudstone flake (37.9 mm maximum dimension)



Photo(s) 2587. Location of Artefact 2. View northwest

Name	<b>SC01</b>
Type	Open site – isolated artefact
Waypoints (WP)	WP151-152
Map coordinates	326,575.94248552E, 6,399,517.7777567N
Landform	Very gently inclined flat
Contents	Silcrete artefact
Exposure upon which site contents identified	Erosional exposure
Visibility	30
Disturbances	Vegetation clearance, power poles, grassed vehicle track (WP151-152)



Photo(s) 2594 and 2595. Red silcrete artefact (43.2 maximum dimension)



Photo(s) 2596. Location of artefact

## APPENDIX 6 – SURVEY LIMITATIONS

The effectiveness of the survey identifying cultural material is affected by ground surface visibility, distance visibility and areas of exposures.

### **Ground Surface Visibility**

Ground surface visibility (GSV), which is often referred to as just 'visibility' in archaeological reports, is the amount of bare ground visible in the context of a survey. The GSV of any given area is usually expressed as a percentage estimate. Generally, vegetation cover is the primary factor that negatively affects GSV; however, modern cultural material can also significantly negatively affect GSV especially in an urban context, for example roads. Areas of Exposure

Areas of exposure refer to areas at which previously buried cultural materials may have been exposed as surface expressions by either natural or cultural processes. For instance, sheet erosion is a common cause of exposure as are animal or human activities that have disturbed the ground. Exposure differs from GSV in that it refers areas in which previously buried cultural material may have been exposed, whereas GSV simply refers to the amount of bare ground visible. For example a previously buried stone artefact might be exposed as a surface expression as the result of sheet wash but obscured from the naked eye by long grass cover.

### **Distance Visibility**

Distance visibility (DV) refers to the extent to which larger potential cultural features, such as rock shelters or scarred trees, or areas of interest, such as areas of exposure, are visible from a distance. Increased DV provides a broader perspective of the landscape and, unless every Study Area is extensively covered by foot, increases the likelihood of identifying distant archaeological features or potential areas of archaeological interest from a point.

### **Disturbances**

Disturbances can include animal or human activities or natural geomorphic processes. Disturbances can expose previously buried cultural material as surface expressions; however, they can also compromise the integrity of Aboriginal sites or destroy them completely. Cultural material can also be exposed by having been removed from their original location as the result of disturbances.

## APPENDIX 6 – LEGISLATION INFORMATION

## COMMONWEALTH LEGISLATION

### ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

In January 2004 the Commonwealth *Australian Heritage Commission Act 1975* was repealed and in its place amendments to the EPBC Act were made. The amendments were contained in three new pieces of Commonwealth Heritage Legislation. The three new Acts are the:

1. Environment and Heritage Legislation Amendment Act (No. 1) 2003 which:
  - (a) amends the Environment Protection and Biodiversity Conservation Act 1999 to include 'national heritage' as a new matter of National Environmental Significance and protects listed places to the fullest extent under the Constitution
  - (b) establishes the National Heritage List
  - (c) establishes the Commonwealth Heritage List
2. Australian Heritage Council Act 2003 which establishes a new heritage advisory body to the Minister for the Environment and Heritage, the Australian Heritage Council, and retains the Register of the National Estate.
3. Australian Heritage Council (Consequential and Transitional Provisions) Act 2003 which repeals the Australian Heritage Commission Act, amends various Acts as a consequence of this repeal and allows for the transition to the new heritage system.

Any place that has been nominated and assessed as having cultural heritage significance at a national level can be added to the National Heritage List.

Under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) an action requires approval from the Federal Environment Minister if the action will, or is likely to, have a significant impact on a matter of national environmental significance. Matters of national environmental significance relating to cultural heritage are:

- World Heritage Places, and
- National Heritage Places.

An action includes a project, development, undertaking, activity, or series of activities.

Actions that are likely to have a significant impact on the environment of Commonwealth land (even if taken outside Commonwealth land), and actions taken by the Commonwealth that are likely to have a significant impact on the environment anywhere in the world, may also require approval under the EPBC Act.

## NATIVE TITLE ACT 1993

The Commonwealth Native Title Act establishes the principles and mechanisms for the preservation of Native Title for Aboriginal people.

Under Subdivision P of the Act, *Right to negotiate*, native title claimants can negotiate about some proposed developments over land and waters (known as 'Future Acts') if they have the right to negotiate. Claimants gain the right to negotiate if their native title claimant application satisfies the registration test conditions.

The right to negotiate applies over some proposed developments or activities that may affect native title. These are known as future acts under the Native Title Act 1993. Native title claimants only have the right to negotiate over certain types of future acts, such as mining. Activities such as exploration and prospecting on the land do not usually attract the right to negotiate.

The right to negotiate is not a right to stop projects going ahead — it is a right to have a say about how the development takes place. In some situations, the right to negotiate does not apply. In these circumstances, claimants may have the right to be notified, to be consulted, to object and to be heard by an independent umpire.

The right to negotiate is triggered when a government issues a notice to say that it intends to allow certain things to happen on land, such as granting a mining lease. This notice is called a 'section 29 notice'.

People who claim to hold native title in the area, but have not yet made a native title claimant application, have three months from the date given in the section 29 notice to file a claim if they want to have a say about the proposed development. To get the right to negotiate, the claim must be registered within a month after that.

If the right to negotiate applies, the government, the developer and the registered native title parties must negotiate 'in good faith' about the effect of the proposed development on the registered native title rights and interests of the claimants.

The parties can ask the National Native Title Tribunal to mediate during the negotiations.

If the negotiations do not result in an agreement the parties can ask the Tribunal (no sooner than six months after the notification date) to decide whether or not the future act should go ahead, or on what conditions it should go ahead.

The National Native Title Tribunal administers the future act processes under the Commonwealth legislation. The Tribunal's role includes mediating between parties, conducting inquiries and making decisions (called 'future act determinations') where parties can't reach agreements.

When the Tribunal receives a future act determination application, it must conduct an inquiry (an arbitration) in order to determine whether the future act can be done and if so whether any conditions should be imposed.

A member of the Tribunal (or a panel of three members) will be appointed to conduct the inquiry, and will initially hold a preliminary conference and set directions for the parties to provide submissions and evidence. Members who have mediated a particular matter are not usually appointed as inquiry members. Inquiry members conduct hearings, receive submissions and evidence from the parties and take into account matters set out in section 39 of the Native Title Act such as:

- the effect of the future act on the enjoyment by the native title party of their registered native title rights and interests; their way of life, culture and traditions; the development of their social, cultural and economic structures; their freedom of access to the land and freedom to conduct ceremonies and other cultural activities; and the effect of the future act on any area or site of particular (special) significance to the native title party;
- the interests, proposals, opinions or wishes of the native title party;
- the economic or other significance of the future act;
- the public interest; and
- the presence of any existing non-native title rights and interests and use of the land by other persons (for instance, pastoralists).

## **ABORIGINAL AND TORRES STRAIT ISLANDER HERITAGE PROTECTION ACT 1984**

The Commonwealth *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* provides protection for Aboriginal cultural property. Whereas the State Act provides legal protection for all the physical evidence of past Aboriginal occupation, the Commonwealth Act deals with Aboriginal cultural property in a wider sense. Such cultural property includes any places, objects and folklore that 'are of particular significance to Aboriginals in accordance with Aboriginal tradition'. There is no cut-off date and the Act may apply to contemporary Aboriginal cultural property as well as ancient sites.

## **PROTECTION OF MOVABLE CULTURAL HERITAGE ACT 1986**

Australia's movable cultural heritage is protected at both Commonwealth and State levels. This web site only provides information on the Commonwealth laws.

In 1970 the United Nations Educational, Scientific and Cultural Organisation (UNESCO) adopted the UNESCO Convention on the Means of Prohibiting the Illicit Import, Export and Transfer of Ownership of Cultural Property. Australia ratified the convention by passing the *Protection of Movable Cultural Heritage Act 1986* (the Act), giving the 1970 Convention force in Australian law.

The Act regulates the export of Australia's significant cultural heritage objects. It is not intended to restrict normal and legitimate trade in cultural property and does not affect an individual's right to own or sell within Australia.

It implements a system of export permits for certain heritage objects defined by the Act as 'Australian protected objects'. Australian protected objects are objects which form part of the movable cultural heritage of Australia and which meet the criteria established under the National Cultural Heritage Control List. The Control List is located in the Regulations to the Act, and divides Australian protected objects into two classes:

- Class A objects which may not be exported
- Class B objects which may be exported if granted a permit under the Act.

A person wishing to export a Class B object is required to apply for a permit in writing. Applications are processed in accordance with the legislative process established under section 10 of the Act.

Certificates of Exemption, granted under section 12 of the Act, allow Australian protected objects that are currently overseas to be imported into Australia and subsequently re-exported. This includes Class A objects.

The Act also includes provisions that allow Australia to respond to an official request by a foreign government to return movable cultural heritage objects that have been illegally exported from their country of origin.

The *Protection of Movable Cultural Heritage Act 1986* is administered by the Minister for the Environment and Heritage. This responsibility was transferred from the Minister for Communication, Information Technology and the Arts in November 2001.

The Movable Cultural Heritage Unit in the Department of the Environment and Heritage provides the Secretariat to the National Cultural Heritage Committee

## STATE LEGISLATION

### NATIONAL PARKS AND WILDLIFE ACT 1974

The National Parks and Wildlife Act 1974 (NPW Act), administered by the Department of Environment, Climate Change and Water NSW (DECCW), is the primary legislation for the protection of *some* aspects of Aboriginal cultural heritage in New South Wales.

One of the objects of the NPW Act is:

*'the conservation of objects, places or features (including biological diversity) of cultural value within the landscape, including but not limited to (i) places, objects and features of significance to Aboriginal people ...'* (s.2A(1)(b)).

Specifically, s.85 of the NPW Act states that the Director-General (DG) is responsible for the protection of Aboriginal objects and Aboriginal places in NSW, particularly those on land reserved under the Act. Part 6 of the NPW Act provides specific protection for Aboriginal objects and declared Aboriginal places by establishing offences of harm.

Section 86 of the NPW Act identifies that it is an offence to knowingly harm or desecrate an Aboriginal object or Aboriginal places. This section of the Act clearly describes penalties should an offence occur. There are a number of defences and exemptions to the offence of harming an Aboriginal object or Aboriginal place. These defences are defined under s.87 of the Act. These include:

1. the harm is carried out under an Aboriginal Heritage Impact Permit (AHIP). AHIPs are required for impacts to Aboriginal objects and places, issued under s.90 of the NPW Act;
2. reasonable due diligence has been exercised to determine whether the proposed activity would harm an Aboriginal object or Aboriginal place;
3. reasonable due diligence has been exercised in accordance with a code of practice adopted or prescribed by the regulations (a code of practice might include the DECCW 2010 or NSW Minerals Council 2010 Codes of Practice); and,
4. the proposed activity is specified in the regulations as a low impact activity (as defined under s.80B of the regulations);

Aboriginal places (areas of cultural significance to the Aboriginal Community declared by the Minister) are protected under Section 84 of the Act.

Section 90 of the Act outlines the process and requirements for obtaining an AHIP from DECCW. Specifically,

*An Aboriginal heritage impact permit may be issued in relation to a specified Aboriginal*

*object, Aboriginal place, land, activity or person or specified types or classes of Aboriginal objects, Aboriginal places, land, activities or persons. (P6.D2 (s.90 (3))).*

Section 89A of the Act requires the mandatory reporting of the discovery of Aboriginal objects. Identified Aboriginal objects and sites are registered with the NSW Department of Environment, Climate Change and Water (DECCW) on the Aboriginal Heritage Information Management System (AHIMS). DECCW administers *the National Parks and Wildlife Act 1974*.

## **ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

The *NSW Environmental Planning and Assessment Act* will have relevance for all development projects because it requires that environmental impacts are considered in land-use planning and decision making. The definition of ‘environment impacts’ includes impacts on the cultural heritage of the Project Area. The Act has three relevant parts: Part III, which governs the preparation of planning instruments; Part IV, which relates to development where consent is required under an environmental planning instrument (EPI); and Part V, which relates to activity where development consent is not required but some other government approval assessments are needed.

Under the Act, local government authorities and The Department of Infrastructure, Planning and Natural Resources (formerly Planning NSW) prepare local and regional environmental planning instruments (LEPs and REPs) to give statutory force to planning controls. These may incorporate specific provisions for conserving and managing archaeological sites.

Integrated Development Assessment (IDA) was introduced under the *Environmental Planning and Assessment Act* so that all matters affecting a development application would be considered by the consent authority in an integrated way.

Integrated Development is one which requires development consent as well as one or more approvals from different government agencies. Such agencies may include NSW DEC or the NSW Heritage Council. If a development is likely to impact a heritage item, the consent authority must refer it, to NSW DEC (for Indigenous objects) or the NSW Heritage Council (for sites listed on the State Heritage Register) prior to approval determination.

### ***The Local Government Act 1993***

Under the State Local Government Act, councils can prepare local approvals policies that set out specific matters for consideration in relation to applications to demolish, build or undertake works. Archaeological sites could be considerations under such policies.

## APPENDIX 7 – CONSULTATION REGISTER

### **Registered Stakeholders**

*Aboriginal Native Title Consultants*

John and Margaret Matthews

*Cacatua Culture Consultants*

Donna Sampson

*Culturally Aware*

Tracey Skene

*Carrawonga Consultants*

Justin Matthews

*Gidawaa Walang Cultural Heritage Consultancy*

Anne Hickey

*Kayaway Eco Cultural & Heritage Services*

Mark Hickey

*Lower Hunter Wonnarua Council Incorporated*

Thomas Miller

*Ungooroo Aboriginal Corporation*

Taasha Layer

*Ungooroo Cultural and Community Services Incorporated*

Rhonda Ward

*Wanaruah Local Aboriginal Land Council*

Suzie Worth

*Wattaka Wonnarua Cultural Consultants*

Des Hickey

*Wonnarua Nation Aboriginal Corporation*

Laurie Perry

*Yarrawalk Enterprises*

Barry McTaggart

*Yinarr Cultural Services*

Kathleen Steward-Kinchela