



MEMO

Clough & Associates Ltd	
To:	Hopper Developments Ltd
From:	██████████, Clough & Associates
CC:	
Date:	24/04/2025
Re:	Hobbs Bay Marina Fast Track Memo
Comments:	<p>Nine archaeological sites have been recorded in the development area and there is potential for additional unrecorded sites to be present.</p> <p>An archaeological assessment should be prepared to determine the effects of the proposed development on archaeological values. It is considered likely that one site will be impacted, and a further five sites may potentially be impacted.</p> <p>The effects on the five sites that may potentially be impacted will most likely be minor at most. Effects on site R11/1530 would likely be minor to moderate.</p> <p>An Authority will be required to modify or disturb any recorded or unrecorded archaeological sites. The information recorded through this process is an appropriate mitigation measure.</p>

Introduction

Hopper Development Limited is applying for a marina development to be referred to the Fast-Track Approvals Act 2024 approvals process. Section 13 sets out the requirements for a referral application. These include “a description of the anticipated and known adverse effects of the project on the environment”. No additional information is required in relation to the archaeological activity.

Hopper Development Limited will require resource consents and an archaeological authority for the project, along with approval of a person to undertake an archaeological activity.

This Memorandum provides advice regarding any heritage constraints relating to a proposed development of a marina at Hobbs Bay, Whangaparāoa, Auckland, to support the application for referral.

Methodology

Although this Memorandum is provided to support the referral application, it is noted that Schedule 5 Approvals relating to Resource Management Act 1991 and Schedule 8 (Approvals relating to Heritage New Zealand Pouhere Taonga Act 2014 (HNZPT Act)) will be relevant to the archaeological requirements for the project’s substantive application, if the project is referred to



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the Fast-Track. The information requirements for a substantive application for an authority under the Act are the same as in the HNZPT Act (assessment of archaeological effects, Māori and other relevant values, statement on Māori consultation, effects on identified values, and other details (clause 2)). As well, the archaeologist approved to undertake archaeological investigation must meet the same criteria as under the HNZPT Act (clause 7).

The New Zealand Archaeological Association's (NZAA) site record database (ArchSite), Auckland Council's Cultural Heritage Inventory (CHI), Auckland Unitary Plan Operative in Part (AUP (OP)) schedules and the Heritage New Zealand Pouhere Taonga (Heritage NZ) New Zealand Heritage List/Rārangi Kōrero were searched to determine whether any archaeological sites had been recorded on or in the immediate vicinity of the project area.

This memo has drawn on the historical and archaeological background research from the Archaeological Assessment Report prepared for the subdivision of 3-5 Daisy Burrell Drive, Whangaparāoa (Apfel, Roth and Farley 2023), which is in immediate proximity to the proposed marina. The subdivision earthworks are underway, with an archaeological Authority (2023/568) granted for the project and activated.

Historical Background

Māori Settlement

Bickler and Farley (2014) have synthesised the pre- and post-European contact histories of the wider Hibiscus Coast area. This in turn draws upon earlier work by Turton (1877), Murdoch (1991 and 1996), Grover (1996), Mosen et al. (2000), Campbell and Clough (2003), Judge and Clough (2005) and Bickler et al. (2007 and 2008). The Māori history is shown to be complex, reflecting both the mobile nature of Māori settlement and political changes through time. The Whangaparāoa peninsula was clearly an important node in the migrations, conquests, and trading networks of several Māori groups.

Early Māori settlement across the area was focussed primarily along the coastal margins. This allowed access to the rich fishing grounds (particularly well known for shark fishing), coastal forest and fertile soils. The archaeological record currently indicates that settlement on the banks of navigable streams/rivers (including the Ōrewa River) tended to comprise short-term encampments rather than permanent or semi-permanent settlements.

Early European Settlement

The Peninsula was sold off as part of the Mahurangi Purchase in 1841. Crown agents initially negotiated sale of the block solely with the Marutūahu confederation. The western boundary of the block was poorly defined, and was only properly surveyed in 1845. As a result, the Crown had to renegotiate the sale of the block piece by piece with various iwi and hapū as claims arose through the 1840s and 1850s.



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After the completion of the Mahurangi Purchase by the government in 1853-54, land in the Wade district (the anglicised version of Te Weiti) was put up for auction. Crown Grants were made to settlers who sought land within marketing distance of Auckland.

An early map indicates that by 1860 the project area was part of a property that had passed into the ownership of Ranulph Dacre, who had previously operated trading schooners in the Pacific. The map indicates that the land was wooded with 'tea tree' at that time (Figure 1). It is considered unlikely that Ranulph ever lived on the property. However, the house within the 3-5 Daisy Burrell Drive property, now known as Hobbs Homestead, was built for his son Charles Craven Dacre. Charles took up the land in 1870, but abandoned his efforts at farming in 1876. The land was later sold, along with the rest of the eastern half of the Whangaparāoa peninsula, to Robert Shakespear in a series of transactions in the early 1880s.

In 1883 Shakespear moved his family into Dacre's old house. The family moved to Little Barrier Island in 1897 and the landholdings at Whangaparāoa were worked by employees or tenants, with Thomas Buddle acting as administrator.

Everard John Hobbs purchased 753 acres of the Shakespear's Whangaparāoa land, including Dacre house shortly after his marriage, in 1906. Hobbs had been an employee of the Shakespear family from at least the 1880s, and ran both dairy cows and sheep on the property.

Archaeological and other Historic Heritage Sites

The archaeological sites in the area are located along the coastline around Hobbs Bay. These are the result of archaeological surveys and investigations relating, in particular, to the residential development of Hobbs Bay. The recorded sites relate to both the Māori occupation of the area and early European settlement. The concentration of archaeological remains across the wider area reflects the importance of Whangaparāoa in providing easy access to marine resources and arable alluvial flats – all elements favoured by both Māori and early European settlers.

There are nine archaeological sites recorded on the NZAA ArchSite Database in the near vicinity of the proposed marina (Figure 2 and Figure 3). These are R11/100 (Pā), R11/128 (midden), R11/1528 (Hobbs Homestead), R11/1529 (midden), R11/1530 (midden), R11/1531 (midden), R11/1532 (midden), R11/1533 (midden), and R11/1534 (midden). Details are provided below and site record forms are appended.

R11/100 (CHI 6792, AUP ID 403). This is a scheduled pā site, situated on a headland overlooking Hobbs Bay. The site is situated within what will become three legal titles: Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade), and proposed Lots 209 and 211. Lot 209 is proposed to be a further Local Purpose Reserve (Esplanade), while Lot 211 is to be vested as an Historic Reserve. Should any works encroach upon the cliff the site may be impacted.

R11/128 (CHI: 8757) This midden deposit is partially situated within Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade) and partially within one of the residential allotments under development. The CHI grid coordinate places the site within the CMA; however this is not accurate. Should any works encroach upon the cliff the site may be impacted.



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R11/1528 (CHI: 3030, AUP ID 619). Hobbs Homestead, a scheduled historic structure, is situated within the ongoing subdivision, well away from any works that may be associated with the development of the marina.

R11/1529. This midden is situated within a number of the allotments of the residential development, and well away from any works that may be associated with the development of the marina.

R11/1530. This midden is situated within a number of the allotments of the residential development. Elements of this site are considered highly likely to extend into Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade). This site extends into the area to be utilised for an access road for the marina, and therefore the site is likely to be impacted by the proposed development.

R11/1531. This midden deposit is situated in Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade). This site will be in close proximity to works proposed to be undertaken to allow for the formation of the beach.

R11/1532. This midden has grid coordinates that place the site within the CMA. However, the site is actually situated on the cliff edge and extends into Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade). Works that may impact upon the cliff, including tree removal may affect this site.

R11/1533. This midden site is partially situated within Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade) and partially within proposed Lots for a Local Purpose Accessway. The site is situated at the top of the cliff, and is unlikely to be impacted, unless works are required that would modify the cliff.

R11/1534. This midden is partially situated within Lot 1 DP 112758, being the Local Purpose Reserve (Esplanade) and partially within a number of the allotments of the residential development. The site is situated at the top of the cliff, and is unlikely to be impacted, unless works are required that would modify the cliff.

It should be noted that other so far unidentified subsurface sites associated with Māori settlement are also likely to be present.

Assessment of Effects

The detailed design is not currently available and so exact earthworks are not yet known. This information will be provided as part of the substantive application. However, based on the information available to date it is possible to provide a summary of the likely effects.

Of the nine archaeological sites recorded in the near vicinity of the proposed marina it is considered likely that three of the sites will not be impact or are very unlikely to be impacted (R11/100, R11/1528, and R11/1529). A further five sites may possibly be impacted (R11/128, R11/1531, R11/1532, R11/1533 and R11/1534), depending on works required that may require modification of the coastal cliffs, or the vegetation thereon. One site will certainly be impacted, being R11/1530, which is situated around the coastal edge in the vicinity of the proposed access road.



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The effects on the five sites that may potentially be impacted will most likely be minor at most. Effects on site R11/1530 would likely be minor to moderate and result in the removal of a portion of the site. The level of effects on individual sites at this stage is a matter of opinion, and will require an archaeological assessment once details of the proposal are further developed.

Effects on the sites can be appropriately mitigated through archaeological investigation and recording of the sites under an Authority under the HNZPT Act.

Archaeological Site	Impact Potential	Likely Impact
R10/100	Nil	N/A
R10/128	Low	Works removing vegetation or otherwise modifying cliffs
R10/1528	Nil	N/A
R10/1529	Nil	N/A
R10/1530	Will be impacted	Access road, other filling or landscaping works
R10/1531	Low	Works removing vegetation
R10/1532	Moderate	Works removing vegetation or constructing coastal pathway or modifying cliffs
R10/1533	Low	Works removing vegetation or otherwise modifying cliffs
R10/1534	Low	Works removing vegetation or otherwise modifying cliffs

Findings and Statutory Requirements

The background research and archaeological records confirm that nine recorded archaeological sites are present in the vicinity of the proposed marina development at Hobbs Bay. At least one of these sites (R11/1530, midden) is likely to be directly impacted by the project, while others (R11/1532, midden) may also be affected. Also, the presence of additional unidentified archaeological sites associated with Māori settlement along the coastal edge, particularly shell midden, is considered likely, especially in the vicinity of the streams. An Authority would also be required to modify or destroy any currently unrecorded sites.

All bar one of the sites relates to Māori settlement, and therefore have cultural values in addition to the archaeological values. Such values are for mana whenua to determine. An ongoing relationship and consultation have been maintained with Ngāti Manuhiri. A CIA have been prepared by them regarding the project, which identifies cultural values relevant to the sites, along with potential risks and recommendations for the management of those risks.

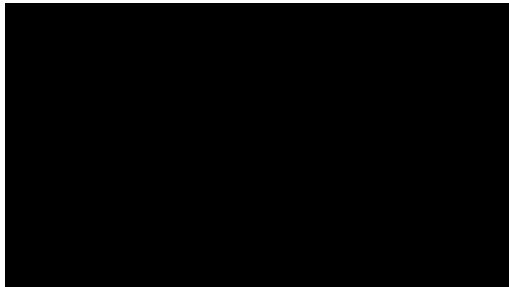


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An archaeological assessment will be required to determine the effects of the proposed development on archaeological values. Eight of the nine recorded archaeological sites are associated with Māori settlement and occupation and tangata whenua should be engaged to determine the cultural values of the development site. As well, since archaeological survey cannot always detect sites of traditional significance to Māori, such as wāhi tapu, the tangata whenua should be consulted regarding the possible existence of such sites within the development area.

A 19th century European homestead is located on the adjacent property and the 19th century use of the property most likely consisted of tree felling, farming and possibly gum digging. Based on the nature of the recorded archaeological sites and the history of the property it is possible that similar sites are present in the vicinity of the proposed area of works. Any impacts to sites that cannot be avoided should be appropriately managed through archaeological investigation under an Authority issued by Heritage NZ to provide information on the history of the local area.

Yours sincerely



Director



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References

- Apfel, A., K. Roth and G. Farley. 2023. 3-5 Daisy Burrell Drive, Hobbs Bay, Whangaparaoa: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Limited.
- Bickler, S.H., and G. Farley. 2014. 152-180 Pinecrest Drive, Gulf Harbour, Whangaparaoa: Archaeological Assessment. Clough & Associates report prepared for Top Harbour Ltd.
- Bickler, S.H., D. Harlow, R. Clough and J. Low. 2007. Weiti Station Archaeological Assessment of the Southern Block. Clough & Associates/Architage report prepared for Williams Capital Ltd.
- Bickler, S.H., K. Phillips, M. Plowman, G. Farley, A. Dodd, B. Baquié and R. Clough. 2008. R10/80 Whangaparaoa Peninsula Final Excavation Report. Clough & Associates Monograph Series No. 4. Report prepared for Gulf Harbour Corporation Ltd
- Campbell, M. and R. Clough. 2003. Orewa Pipeline and Pedestrian Bridges: Archaeological Assessment. Clough & Associates report prepared for Rodney District Council and Opus International Ltd.
- Grover, R. 1996. *The Story of Silverdale...Alias The Wade 1839-1853*. Grover, Auckland.
- Judge, C. and S. Phear. November 2022. Proposed Subdivision at 250-256 West Hoe Heights, Ōrewa, Auckland: Archaeological Assessment. Clough & Associates report prepared for Shildon Ltd.
- Judge, C. and R. Clough. 2005. Bankside Road and Leigh Road Properties, Silverdale (Part Lot 1 DP 170959 And Lot 4 DP 168591): Initial Archaeological Assessment. Clough & Associates report prepared for Wood and Partners Consultants Ltd.
- Mosen, J., S. Best, B. Druskovich and M. Felgate. 2000. Results on An Archaeological Excavation at Site R10/782, Maygrove, Orewa. Bioresearches report prepared for Hopper Developments Ltd.
- Murdoch, G. 1991. Shakespear Regional Park Management Plan, Auckland Regional Council, Regional Parks Department.
- Murdoch, G. 1996. Early Māori Occupation of Te Weiti. In J. Litchfield (ed.), *From the Wade to Silverdale: A Local History of the District and its School*. Auckland: Institute Press Limited.
- Turton, H. 1877-78. *Māori Deeds of Land Purchases in the North Island of New Zealand*. Government Printers.



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Figure 1. SO 892A dated 1859, showing a close-up of the area where the project area is located. Landowners' names are pencilled in. To the north is a large area of swamp land, while the area around the project area is described as wooded in tea tree. Source: Quickmap



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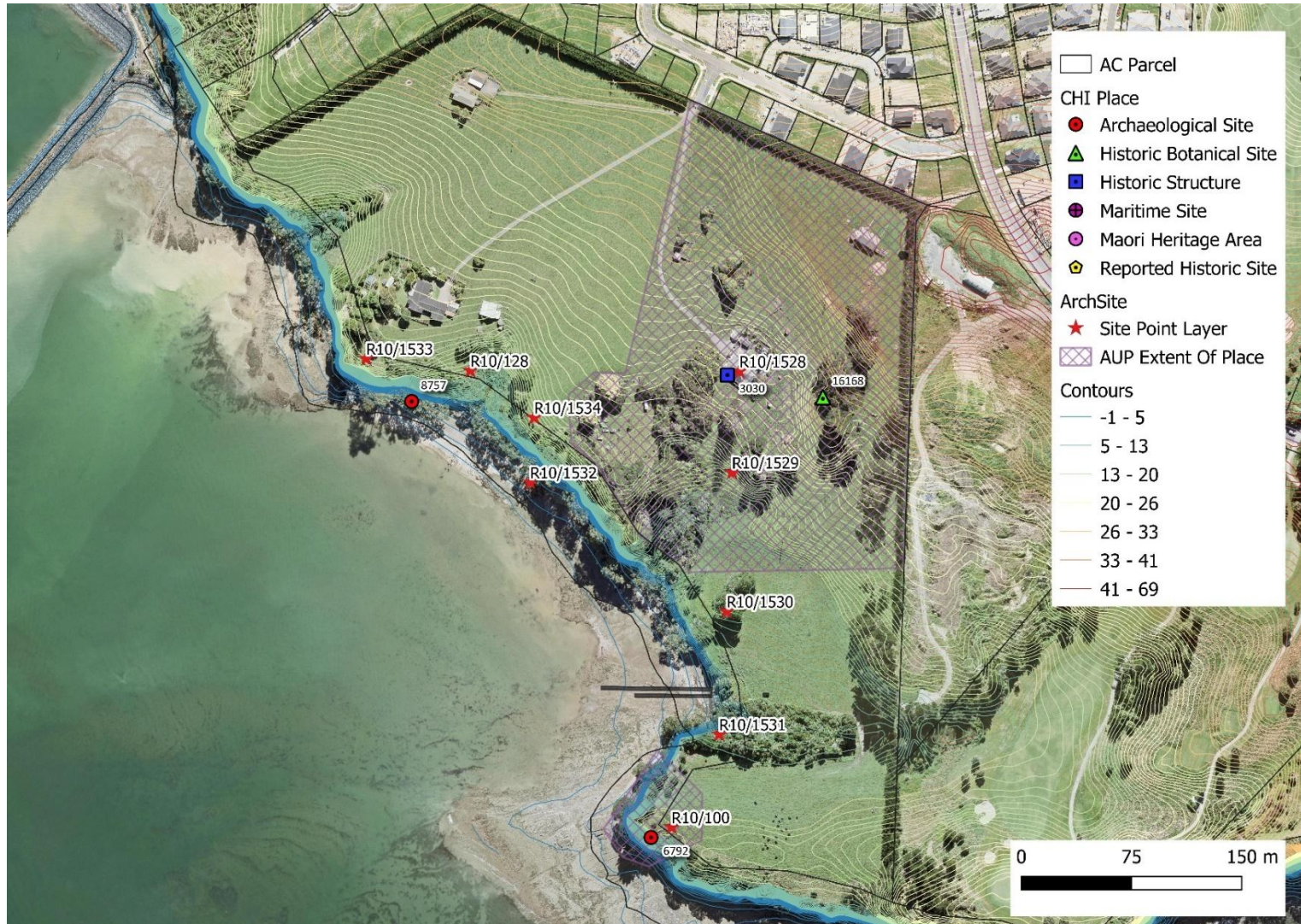


Figure 2. Map showing the archaeological and historic heritage sites recorded in the near vicinity of the proposed marina (site locations sourced from NZAA ArchSite and Auckland Council CHI)



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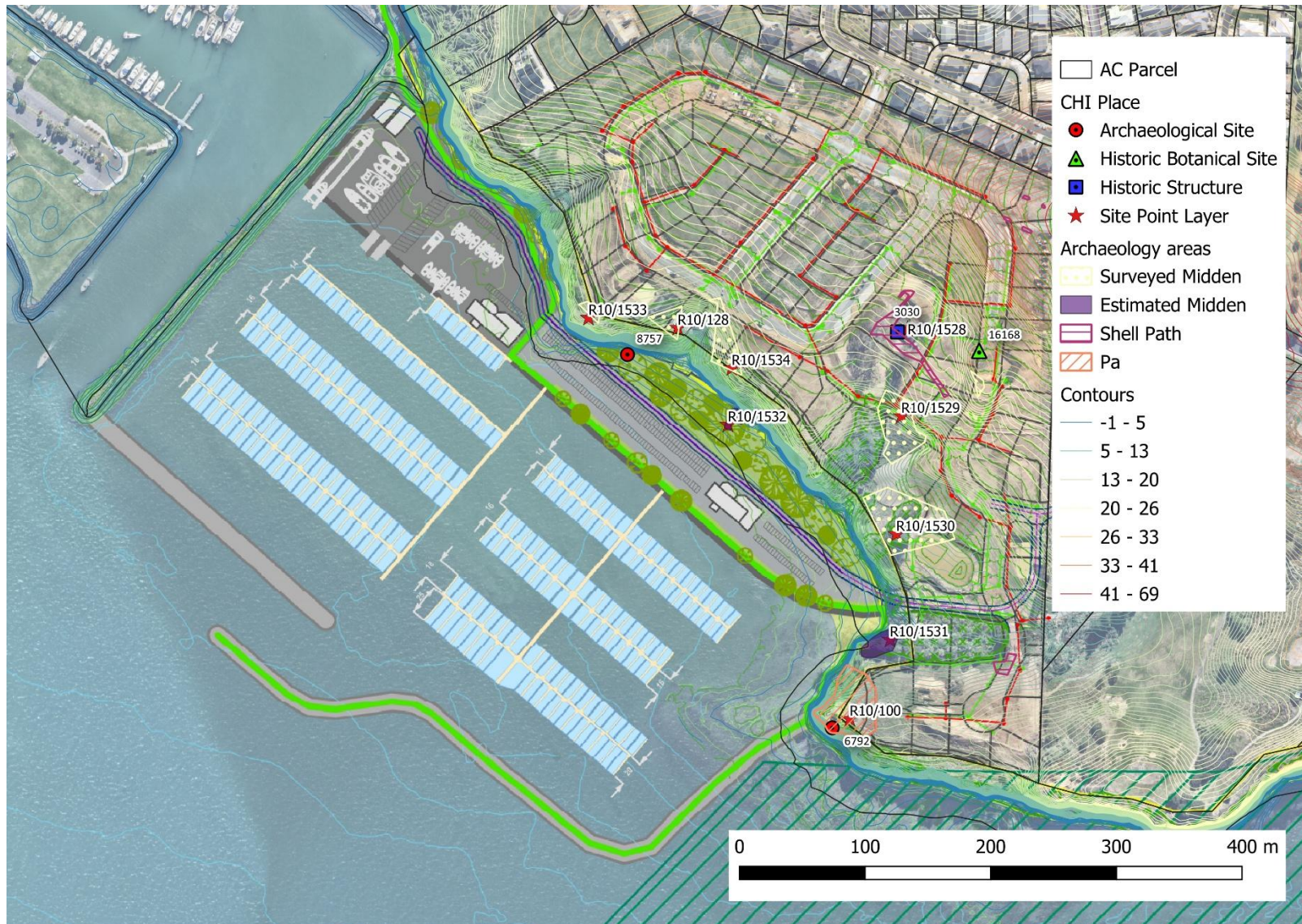



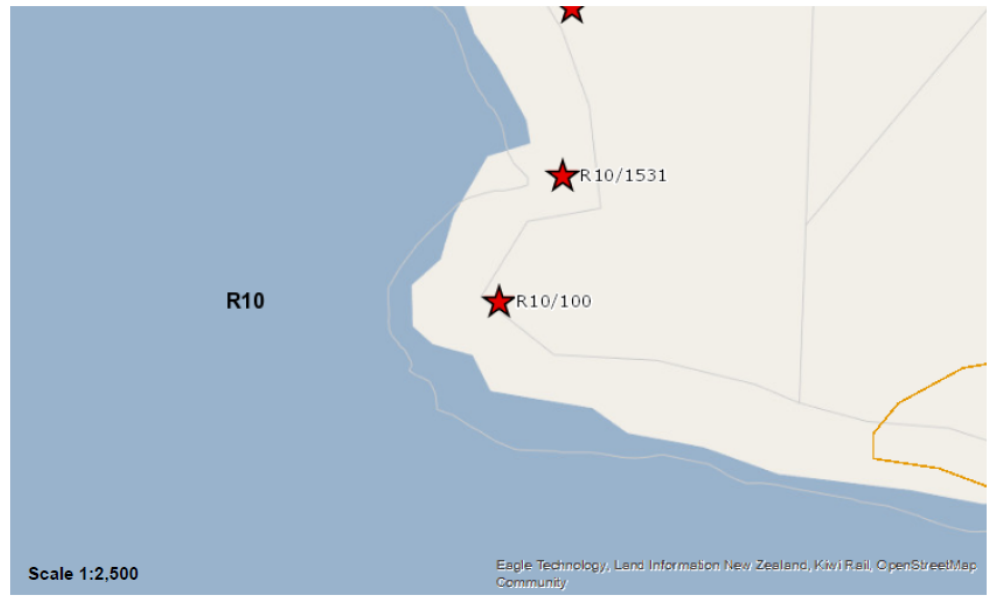
Figure 3. Map showing the location of archaeological and historic heritage sites in relation to the proposed marina development



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Appendix A: Site Record Forms

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

 <p>ARCHSITE archaeological site recording scheme</p> <p>Site Record Form</p>	<p>NZAA SITE NUMBER: R10/100</p> <p>SITE TYPE: Pa</p> <p>SITE NAME(s):</p> <p>DATE RECORDED:</p>
<p>SITE COORDINATES (NZTM) Easting: 1760390 Northing: 5944816 Source: Handheld GPS</p>	
<p>IMPERIAL SITE NUMBER: N38/103 METRIC SITE NUMBER: R10/100</p>	
	
<p>Finding aids to the location of the site</p> <p>The pa is located on the southeastern headland of Hobb's Bay and west of Rakauahanga Point.</p>	
<p>Brief description</p> <p>Ring ditch pa with cliff faces on the northern and western flanks. Features include banks, scarping, terrace and midden.</p>	
<p>Recorded features</p> <p>Bank (earth), Ditch - ring, Midden, Scarp, Terrace</p>	
<p>Other sites associated with this site</p>	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/100
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760390 / N5944816)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd. Probing and test-pitting was done on the east side of the hill to determine the extent of the site and identify unrecorded features. The previously recorded area on the west side was not probed or test-pitted.</p> <p>Upon reaching the foot of the hill/ridge, a significant amount of crushed shell could be seen amongst a heavily trampled path on the northeast side of the pa. A test pit was placed adjacent to it, which revealed there to be a shell deposit here. The contents included rock, charcoal, pipi, cockle and what appeared to be fragments of red brick. Probing the immediate area revealed the extent of the deposit to be approximately 6.5m long and 6m wide. The test pit revealed this deposit in a scatter from the surface up to 23cm below the surface. It is thought that this deposit is a 19th or 20th century deposit of shell laid on the farm track. Adjacent to this deposit and approximately a quarter-way up the hill there is a level platform that extends east-west across the northeast portion of the hill which could potentially have been used as a living surface. Upon investigating the entirety of the ridge, it became apparent that a large number of amorphous features exist. A total of 20 features were identified, photographed and georeferenced. It is important to note that many of these are likely the result of vegetation removal, i.e. tree throws. However, some may be archaeological. Five test pits were placed across the top of the ridge, a fair distance away from the currently recorded location of the pa site. This was done in order to determine changes in the stratigraphy.</p> <p>The initial site drawing implies that the extent of the site does not exceed the ditch feature. An animal burrow located at NZTM coordinates 1760440 5944811 $\pm 3m$, approximately halfway across the ridge, has brought up a large amount of charcoal to the surface. The animal possibly disturbed the remains of a tree thrown or fire scoop or similar feature. Combined with the stratigraphic profiles obtained from the ridge, this implies that the extent of the pa may extend eastwards.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Updated 24/01/2018 (other), submitted by emmabrooks Grid reference (E1760390 / N5944816)</p> <p>Missing 1999 site update record form uploaded.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>The site remains to be in fair condition as previously described. However, the occasional animal burrow has brought subsurface material to the surface.</p> <p>The site is in fair condition although ditch and bank defences are quite shallow. Midden is eroding from along the top of cliff scarps of pa. There is also some exposed midden in the paddock to the NE.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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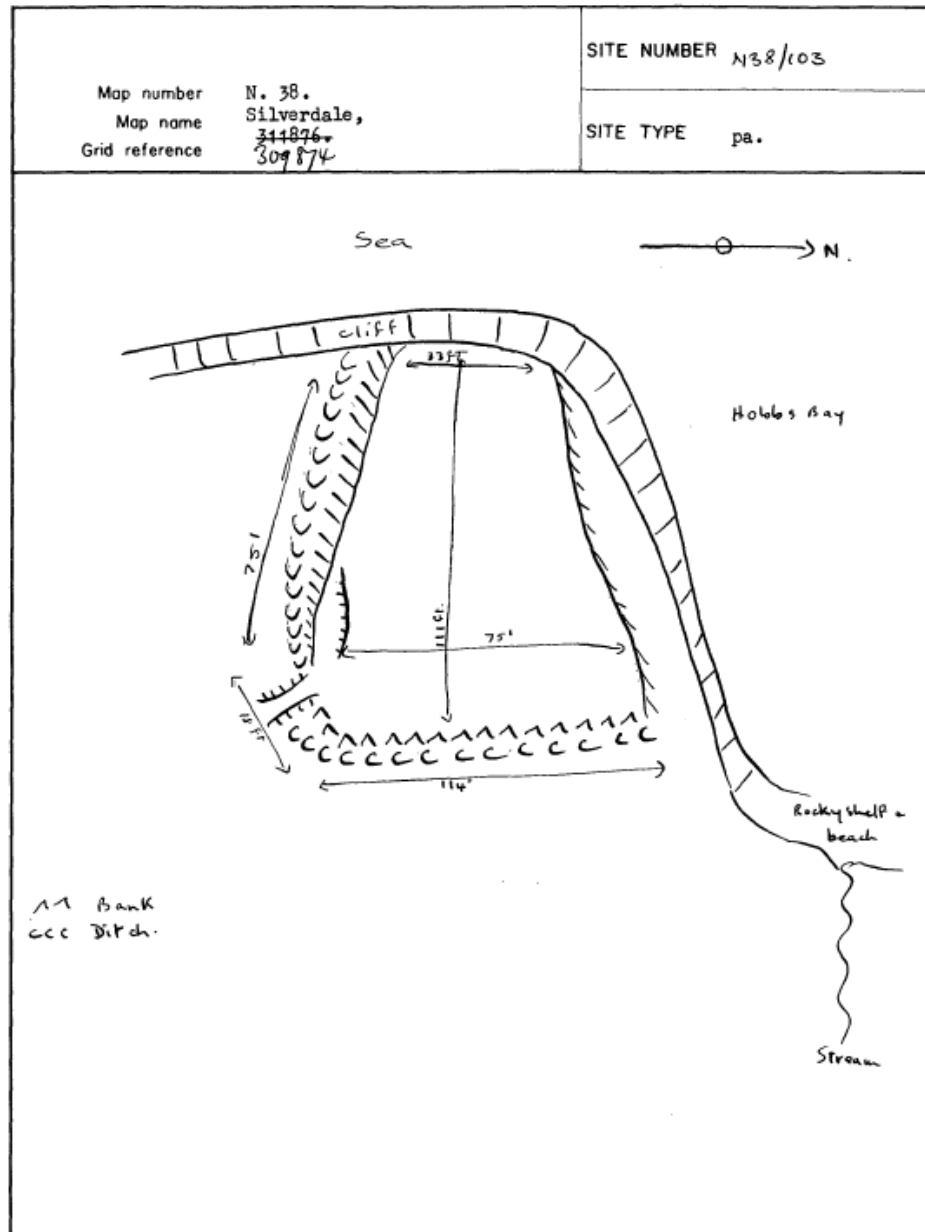
SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/100
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Supporting documentation held in ArchSite

SITE REFERENCE FORM		AD AX AE BB AA GI SITE NUMBER N38/103
Map number	N.38.	
Map name	Silverdale.	
Grid reference	344876 309874	SITE TYPE pa. E 230900 N 687400
1. Aids to relocation of site On the south end of the east side of Hobbs Hobbs Bay, Whangaparaoa, west of Rakauanga Point.		
2. State of site; possibility of damage or destruction On the Hobbs property, in grass, some scrub and second growth.		
3. Owner	Hobbs, Address Whangaparaoa	Tenant Managed on farm. Address O.K. Attitude
4. Name of site Source of name		
5. Date recorded	14/1/64.	Details of investigation; methods and equipment used walked over and paced site.
6. Aerial photograph numbers		Site shows: clearly/bodily/not at all
7. Reported by	A. Leahy.	Filekeeper M. W. Spring-Rie
Date		Date 8/4/64

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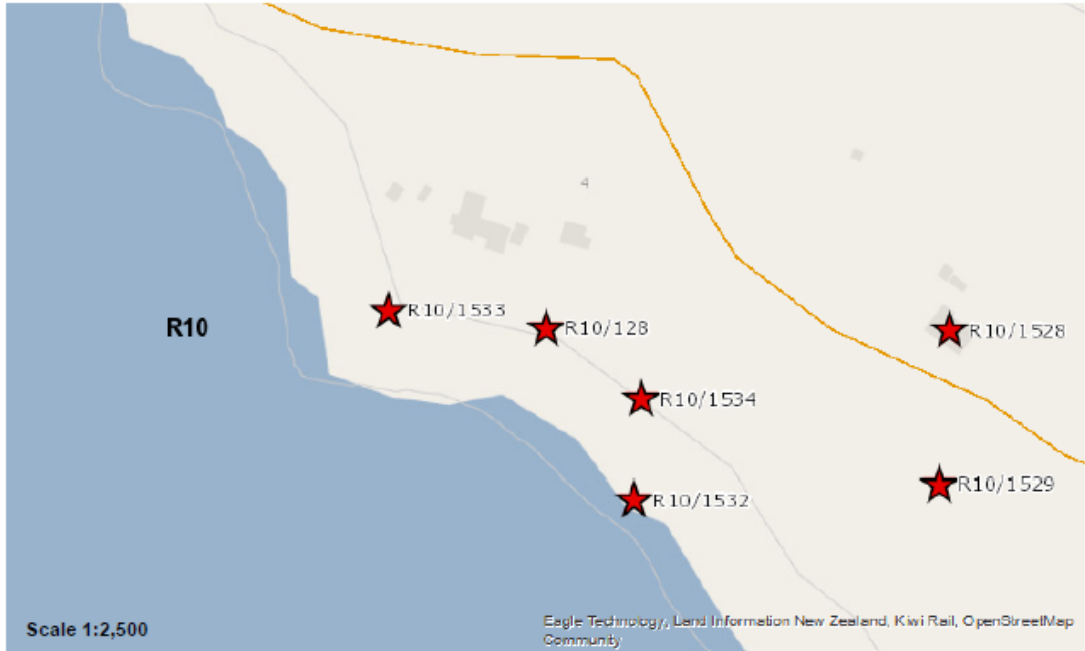
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NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION SITE RECORD FORM (METRIC) Metric map number sheet R10 Metric map name Whangaparaoa NZMS 260 map edition 1993		NZAA METRIC SITE NUMBER R10/100 UPDATE DATE VISITED 12/5/99 SITE TYPE Pa SITE NAME: MAORI OTHER	
Grid Reference Easting 2 6 7 0 8 0 Northing 6 5 0 6 5 0		<div style="display: flex; justify-content: space-around;"> <div style="width: 150px; border-bottom: 1px solid black; position: relative;"> 2 6 7 0 8 0 </div> <div style="width: 150px; border-bottom: 1px solid black; position: relative;"> 6 5 0 6 5 0 </div> </div>	
1. Aids to relocation of site (attach sketch map). Hobbs Bay, Whangaparaoa. On the low headland at the southern end of small bay east of Gulf harbour mariner (refer to attached location map).			
2. State of site and possible future damage In pasture, in good condition with some continuing erosion and stock damage. Some infilling of ditch.			
3. Description of site (Supply full details: history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here) Ring ditch (30m x 2m x 1.5m deep) cuts off small area of the low headland, transverse terrace lies above the beach inside defences. Stock traffic and erosion appears to have resulted in a partial infilling of the ditch. In pasture ca 100m behind site and outside of ditch are two terraces, 20m x 15m and 15m x 15m, separated by a 1.5m high scarp. Midden (cockle and pipi in a black, greasy soil) can be seen scattered in cattle tracks below terraces adjacent to small watercourse that is draining out of artificial pond on golf course.			
4. Owner Current - J.N. Hobbs Ltd Address C/- PO Box 111, Auckland		Tenant/manager Address	
5. Nature of information (hearsay, brief or extended visit) Survey Photographs (reference numbers and where held) Aerial photographs (reference numbers and clarity of site)			
6. Reported by Don Prince Address c/- Clough & Associates 209 Carter Rd, Oratia.		Filekeeper Date	
7. New Zealand Historic Places Trust (for office use) <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px;"></div> <div> Type of site <div style="border: 1px solid black; width: 40px; height: 40px; margin-top: 10px;"></div> Local environment <div style="border: 1px solid black; width: 40px; height: 40px; margin-top: 10px;"></div> Land classification </div> </div> </div> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 5px;"></div> <div> Present condition and future danger of destruction <div style="border: 1px solid black; width: 40px; height: 40px; margin-top: 10px;"></div> Local body </div> </div> </div> </div>			



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 <p>Site Record Form</p>	<p>NZAA SITE NUMBER: R10/128</p> <p>SITE TYPE: Midden/Oven</p> <p>SITE NAME(s):</p> <p>DATE RECORDED:</p>
<p>SITE COORDINATES (NZTM) Easting: 1760253 Northing: 5945127 Source: Handheld GPS</p>	
<p>IMPERIAL SITE NUMBER: N38/131 METRIC SITE NUMBER: R10/128</p>	
	
<p>Finding aids to the location of the site The site is located on the eastern side of Hobb's Bay, c.300m to the northwest of the ring ditch pa site R10/100.</p>	
<p>Brief description The site consists of a natural (enhanced) terrace with a fragmented midden eroding down the gap in the cliffs. Originally recorded as an old Maori camping area with middens and hangi stones.</p>	
<p>Recorded features Midden, Ovenstones, Terrace</p>	
<p>Other sites associated with this site</p>	



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NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD HISTORY	NZAA SITE NUMBER: R10/128
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760253 / N5945127)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd. Probing was done to determine the extent and density of the shell.</p> <p>The site is located to the southeast of the domestic house located on the southwest side of the property, adjacent to the stream. As this is a recorded site, no test pits were placed here. However, the extent of the shell midden was determined through probing. The extent of the midden is approximately 15m long down the slope and 15m wide across the slope at its widest point. Probing the slopes shows there to be several dense deposits followed by areas that are sparse. Probing revealed that the midden continues westwards along the cliff adjacent to the fence as a thin scatter and may be connected to midden site R10/1533.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>A small portion of the shell midden is visible from the surface and subject to erosion. The majority of the midden is below the surface.</p> <p>According to landowners other middens are also in the area. The exposure that was seen was quite fragmentary and sparse and the grass cover was fairly stable. There are likely to be more significant subsurface deposits in this area.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/128
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Supporting documentation held in ArchSite


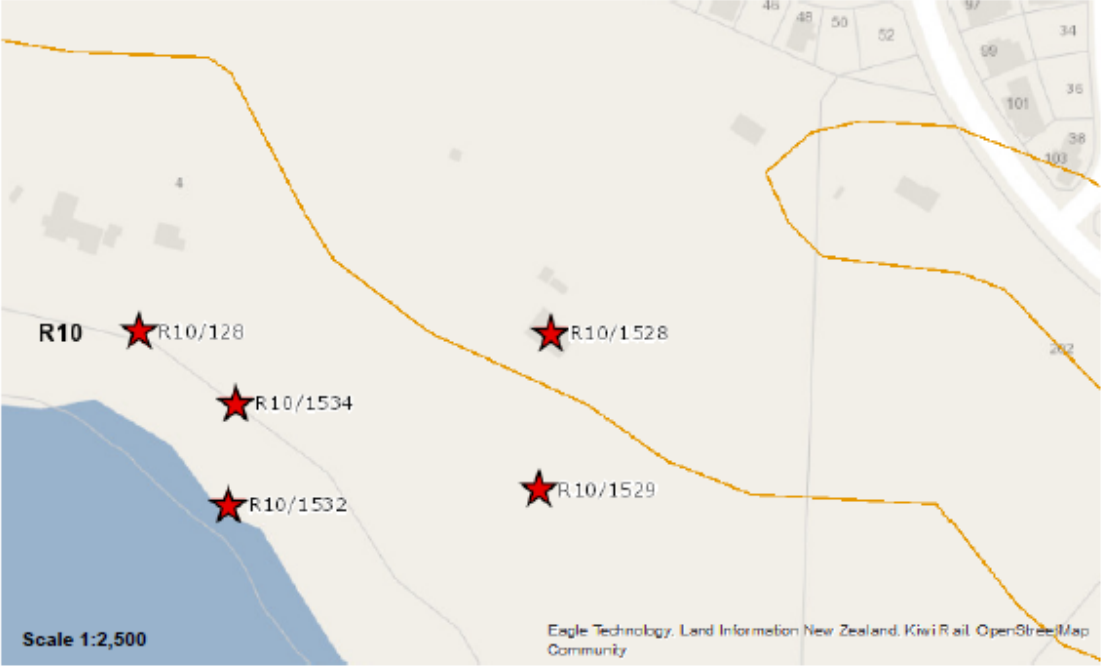
AV AX AC BB AA GI

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION SITE RECORD FORM Map number <i>N38</i> Map name <i>Silverdale</i> Map edition <i>3rd, 1965</i> Grid Reference <i>308877</i>		SITE NUMBER <i>N38/131</i> SITE NAME: MAORI OTHER SITE TYPE <i>Midden/hangi area.</i>
1. Aids to relocation of site <i>E 230800 N687700</i> On the beach side and to east of the old farm house. Most of the site is under the grove of pine trees.		
2. State of site; possibility of damage or destruction In grass and trees. Reasonably safe as not in area proposed for immediate development.		
3. Description of site (NOTE: This section is to be completed ONLY if no separate Site Description Form is to be prepared.) Not visited due to lack of time. Mr Hobbs (farmer) said it was the "old Maori camping area". Reported much midden and hanga stones. He seemed to think this was the biggest camping site on his farm - and this in spite of his knowledge of the extensive site (N38/87) on other side of the farmhouse area.		
4. Owner <i>Mr J. Hobbs</i> Tenant/Manager Address <i>Whangaparaoa</i> Address Attitude <i>Very interested and co-operative.</i> Attitude		
5. Methods and equipment used Photographs taken: <i>Yes/No</i> (Describe on Photograph Record Form) Date recorded		
6. Aerial photograph or mosaic No. Site shows: Clearly/badly/not at all		
7. Reported by <i>J.R. McKinlay</i> Filekeeper <i>jm</i> Address <i>NZHT</i> Date <i>1.10.73</i> Date <i>8/10/73</i>		



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 <p>Site Record Form</p>	<p>NZAA SITE NUMBER: R10/1528</p> <p>SITE TYPE: Historic - domestic</p> <p>SITE NAME(s): Hobbs Homestead</p> <p>DATE RECORDED:</p>
<p>SITE COORDINATES (NZTM) Easting: 1760436 Northing: 5945126 Source: On Screen</p>	
<p>IMPERIAL SITE NUMBER: METRIC SITE NUMBER: R10/1528</p>	
	
<p>Finding aids to the location of the site Located on property 5 Daisy Burrell Drive, central east side of property. Accessed via gravel driveway.</p>	
<p>Brief description</p>	
<p>Recorded features Foot path, Building - homestead</p>	
<p>Other sites associated with this site</p>	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1528
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760436 / N5945126)</p> <p>The building was briefly inspected from the outside during a field visit. The homestead is fairly large containing two detached sheds on its north/northwest side. The building has a hipped roof with timber cladding. The cladding consists of horizontally placed overlapping timber planks finished with a white paint. The north side of the building contains two porch areas. The west side of the building contains two oriel style windows that protrude from the building, one of which is half-hexagonal in shape and the other square. Both of these oriel windows contain decorative, coloured and textured glass panels. The south side of the building contains a long veranda with decorative finials lining its roof. The chimney is brick-lined. Probing revealed the existence of what is most likely a shell path around the north, east and south sides of the homestead. This shell is visible on the surface on the northeast side of the homestead, adjacent to the sheds.</p> <p>The following is taken from Apfel, Roth and Farley 2021:</p> <p>The historic building on property 5 Daisy Burrell Drive is now known as Hobbs Homestead, and was built for Charles Craven Dacre. Charles was born in Sydney in 1848 and moved to Auckland with the family in 1859. In 1865 he was sent to England, where he intended on training as an officer in the army, but soon transferred to the Royal Agricultural College to learn the management skills necessary for a gentleman farmer. He returned to New Zealand in 1870 on the Inflexible, taking up his father's Whangaparaoa land where he intended to run sheep. In 1876 Charles abandoned the farm and moved to Auckland, where he went into business as a grain merchant. The land and house then appear to have sat empty for several years, until the eastern half of the Whangaparaoa peninsula, including the homestead, was acquired in a series of early 1880s purchases by Robert Shakespeare.</p> <p>Robert Henry Anson Shakespeare, from a family of colonial army officers, had arrived in New Zealand in the 1870s. The Shakespeares came upon the Whangaparaoa block in 1880. Robert described the land in a letter to his grandfather as having "an abundance of fish and wild pigs, and splendid flats of alluvial soil." He purchased the land from Dacre in several large blocks, from 1880 to 1882, eventually coming to own the whole eastern half of the peninsula. He, his wife Blanche, and their first children moved to the block in 1883, where they lived in Dacre's old house. The family moved to Little Barrier Island in 1897 and the landholdings at Whangaparaoa were worked by employees or tenants, with Thomas Buddle acting as administrator.</p> <p>Everard John Hobbs was an employee of the Shakespeare family from at least the 1880s. Hobbs was working as a gumdigger in the Silverdale area in 1884, before being taken on as a farm employee by Robert Shakespeare by 1886. Everard purchased 753 acres of the Shakespeare's Whangaparaoa land between Okoromai and including the Dacre house shortly after his marriage, in 1906. Everard ran stock on the farm, both dairy cows and sheep. His wife, Daisy Hobbs, passed away in 1923, and Everard does not seem to have remarried. Their son John stayed on the farm, marrying Ruth Florence Williams in 1929. Everard Hobbs passed away in 1947, and the property passed to his son John Norman and a solicitor as executors on his death. Some of the northern part of the block was taken for roading in the 1950s, but it remained a sizeable block of over 700 acres, supplemented for the family by grazing leases elsewhere.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760436 / N5945126)</p> <p>The building was briefly inspected from the outside during a field visit. The homestead is fairly large containing two detached sheds on its north/northwest side. The building has a hipped roof with timber cladding. The cladding consists of horizontally placed overlapping timber planks finished with a white paint. The north side of the building contains two porch areas. The west side of the building contains two oriel style windows that protrude from the building, one of which is half-hexagonal in shape and the other square. Both of these oriel windows contain decorative, coloured and textured glass panels. The south side of the building contains a long veranda with decorative finials lining its roof. The chimney is brick-lined. Probing revealed the existence of what is most likely a shell path around the north, east and south sides of the homestead. This shell is visible on the surface on the northeast side of the homestead, adjacent to the sheds.</p> <p>The following is taken from Apfel, Roth and Farley 2021:</p> <p>The historic building on property 5 Daisy Burrell Drive is now known as Hobbs Homestead, and was built for Charles Craven Dacre. Charles was born in Sydney in 1848 and moved to Auckland with the family in 1859. In 1865 he was sent to England, where</p>	



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he intended on training as an officer in the army, but soon transferred to the Royal Agricultural College to learn the management skills necessary for a gentleman farmer. He returned to New Zealand in 1870 on the *Inflexible*, taking up his father's Whangaparaoa land where he intended to run sheep. In 1876 Charles abandoned the farm and moved to Auckland, where he went into business as a grain merchant. The land and house then appear to have sat empty for several years, until the eastern half of the Whangaparaoa peninsula, including the homestead, was acquired in a series of early 1880s purchases by Robert Shakespear.

Robert Henry Anson Shakespear, from a family of colonial army officers, had arrived in New Zealand in the 1870s. The Shakespears came upon the Whangaparaoa block in 1880. Robert described the land in a letter to his grandfather as having "an abundance of fish and wild pigs, and splendid flats of alluvial soil." He purchased the land from Dacre in several large blocks, from 1880 to 1882, eventually coming to own the whole eastern half of the peninsula. He, his wife Blanche, and their first children moved to the block in 1883, where they lived in Dacre's old house. The family moved to Little Barrier Island in 1897 and the landholdings at Whangaparaoa were worked by employees or tenants, with Thomas Buddle acting as administrator.

Everard John Hobbs was an employee of the Shakespear family from at least the 1880s. Hobbs was working as a gumdigger in the Silverdale area in 1884, before being taken on as a farm employee by Robert Shakespear by 1886. Everard purchased 753 acres of the Shakespear's Whangaparaoa land between Okoromai and including the Dacre house shortly after his marriage, in 1906. Everard ran stock on the farm, both dairy cows and sheep. His wife, Daisy Hobbs, passed away in 1923, and Everard does not seem to have remarried. Their son John stayed on the farm, marrying Ruth Florence Williams in 1929. Everard Hobbs passed away in 1947, and the property passed to his son John Norman and a solicitor as executors on his death. Some of the northern part of the block was taken for roading in the 1950s, but it remained a sizeable block of over 700 acres, supplemented for the family by grazing leases elsewhere.

More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.

Condition of the site

Updated 13/12/2021 (Field visit), submitted by aaronapfel, visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin

The building has been lived in continuously, renovated and kept-up. Livestock are active on the property but do not appear to be causing any significant damage to the homestead or its surrounds.

Statement of condition

Current land use:

Threats:



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SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1528
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Supporting documentation held in ArchSite

South side of Hobbs Homestead showing veranda and oriel style windows. Facing northeast





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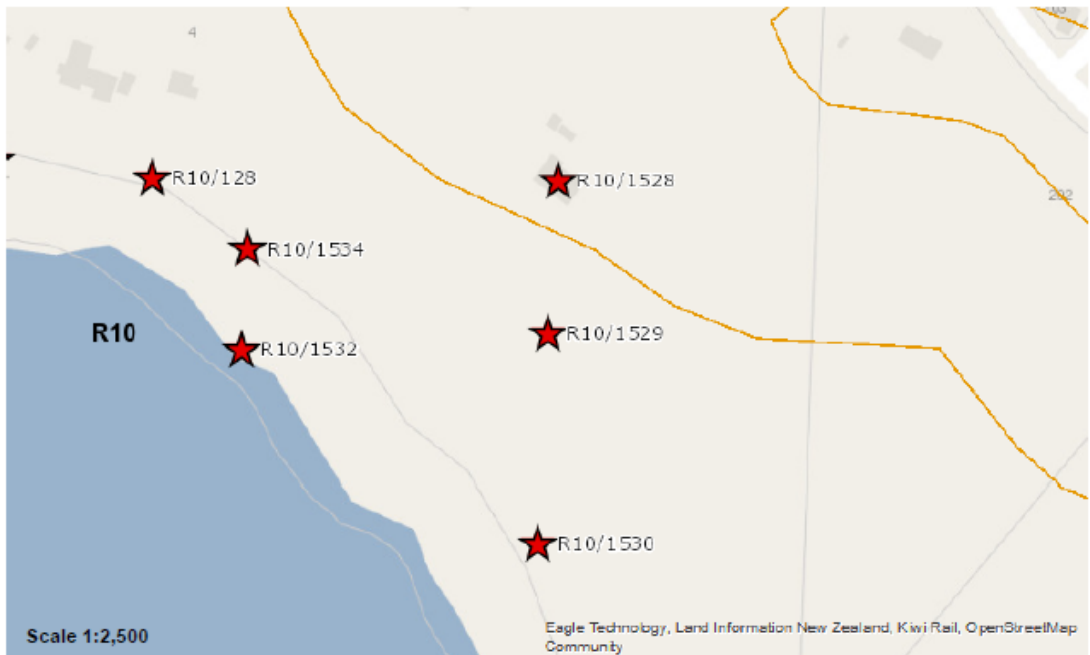
North side of Hobbs Homestead. Facing southeast





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 <p>ARCHSITE archaeological site recording scheme</p> <p>Site Record Form</p>	<p>NZAA SITE NUMBER: R10/1529</p> <p>SITE TYPE: Midden/Oven</p> <p>SITE NAME(s):</p> <p>DATE RECORDED:</p>
<p>SITE COORDINATES (NZTM) Easting: 1760431 Northing: 5945057 Source: Handheld GPS</p>	
<p>IMPERIAL SITE NUMBER: METRIC SITE NUMBER: R10/1529</p>	
 <p>Scale 1:2,500</p> <p>Eagle Technology, Land Information New Zealand, Kiwi Rail, OpenStreetMap Community</p>	
<p>Finding aids to the location of the site Located on the central east side of property 5 Daisy Burrell Drive. Approximately 50m south of 19th century homestead.</p>	
<p>Brief description</p>	
<p>Recorded features Midden, Pit</p>	
<p>Other sites associated with this site</p>	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1529
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron. Roth, Kirstin Grid reference (E1760431 / N5945057)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd. Probing and test-pitting was done to determine the extent and density of the shell.</p> <p>Three distinct areas containing exposed and buried shell deposits were discovered surrounding a relatively large area consisting of two adjacent hills. The shell continues to exist westwards towards the cliff.</p> <p>The first shell area is located on the southwest side of the west hill and is approximately 29m in length across the entirety of the west slope, and continues approximately 25m down the slope up to the fence and beyond towards the densely vegetated cliff. The deposit exists from the surface up to 30-35cm deep at its deepest. Probing indicates this shell to be most dense across the slope. The shell appears to taper out and continue south around the hill and southwest into a wetland area as scatters. A small pit exists at the base of the hill where the midden is not particularly dense. This pit is approximately 2m long and 2m wide.</p> <p>The second shell area exists on the south/southeast side of the west hill and is relatively small in comparison to the first, being approximately 6m by 5m in extent. This midden does not appear to contain any dense deposits and is more of a shell scatter.</p> <p>The third shell area exists on the eastern hill and is similar in size and density to the shell on the western hill. This deposit is approximately 25m in length across the entirety of the west slope and continues approximately 15m down the slope towards the shell/gravel path leading from the historic house. Probing indicates this shell to be most dense across the slope.</p> <p>Upon visual inspection of the eroded material; the shell midden contained a wide variety of material/species including fire cracked rock, charcoal, pipi, cockle, whelk, cooys turban, operculum and other gastropods.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron. Roth, Kirstin</p> <p>A significant portion of the shell midden is visible from the surface and subject to erosion.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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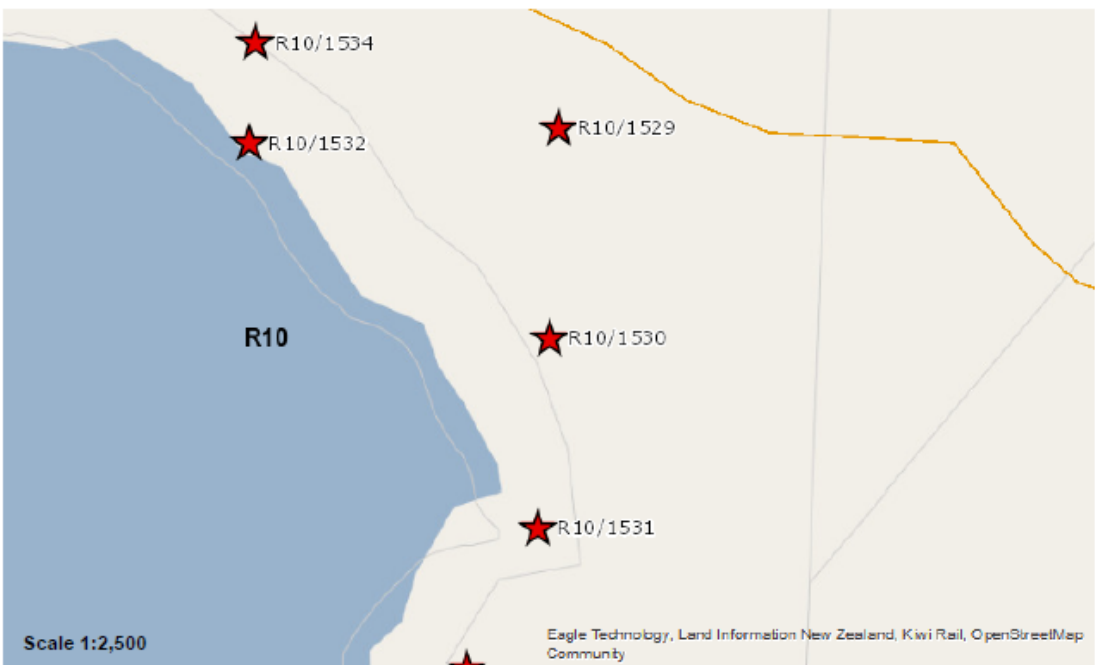
SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1529
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Supporting documentation held in ArchSite



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 ARCHSITE archaeological site recording scheme		Site Record Form	
		NZAA SITE NUMBER: R10/1530	
		SITE TYPE: Midden/Oven	
		SITE NAME(s):	
		DATE RECORDED:	
SITE COORDINATES (NZTM) Easting: 1760427 Northing: 5944963 Source: Handheld GPS			
IMPERIAL SITE NUMBER:		METRIC SITE NUMBER: R10/1530	
			
Finding aids to the location of the site Located on the southeast side of property 5 Daisy Burrell Drive. Approximately 150m south of 19th century homestead and 70m north of the stream.			
Brief description			
Recorded features Midden			
Other sites associated with this site			



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1530
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760427 / N5944963)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd. Probing and test-pitting was done to determine the extent and density of the shell.</p> <p>Upon visual inspection of the area, a large patch of exposed soil and shell midden could be seen on the surface. This midden contained pipi, cockle, gastropods, fire cracked rock and charcoal. The disturbance is due to animal burrows, as there were several amongst the large patch of exposed soil and midden. The shell midden is substantially large as its scatter extended to a length and width of approximately 40m, continuing in length westwards beyond the fence and towards the cliff. The shell exists at a depth of approximately 10cm below the surface and is approximately 10cm dense at its densest area.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>A large portion of the shell midden is visible from the surface and subject to erosion. Animal burrows have caused significant damage to the deposit.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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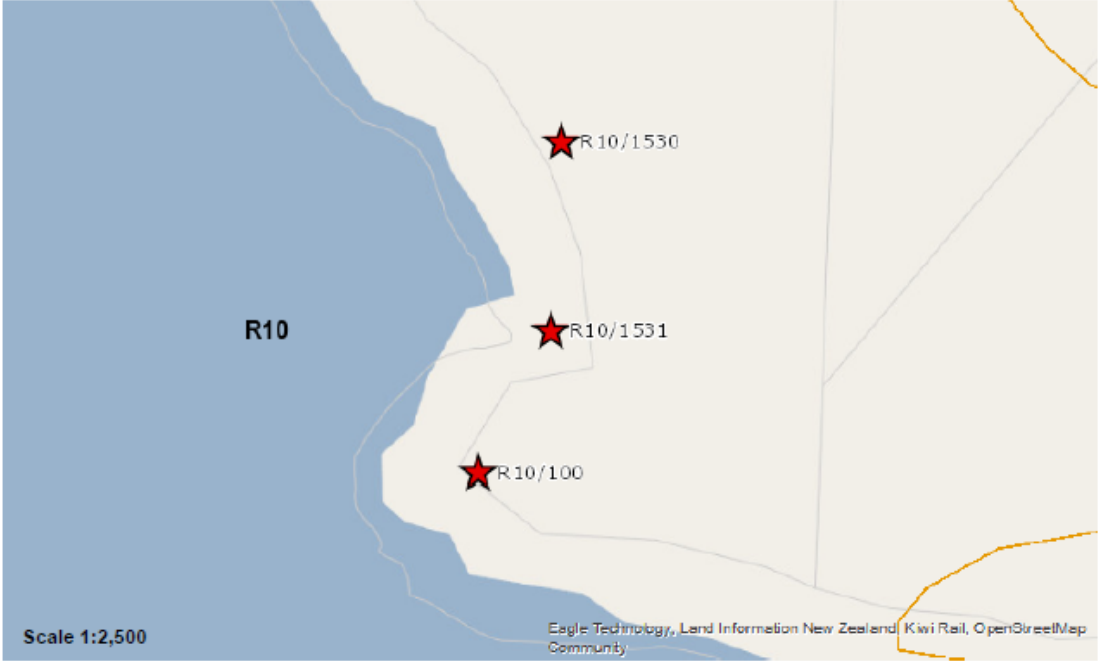
SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1530
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Supporting documentation held in ArchSite



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 Site Record Form	NZAA SITE NUMBER: R10/1531 SITE TYPE: Midden/Oven SITE NAME(s): DATE RECORDED:
SITE COORDINATES (NZTM) Easting: 1760422 Northing: 5944879 Source: Handheld GPS	
IMPERIAL SITE NUMBER: METRIC SITE NUMBER: R10/1531	
 <p>Scale 1:2,500</p> <p>Eagle Technology, Land Information New Zealand, Kiwi Rail, OpenStreetMap Community</p>	
Finding aids to the location of the site Located on the southeast side of property 5 Daisy Burrell Drive, adjacent to the southern stream and coast.	
Brief description	
Recorded features Midden	
Other sites associated with this site	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1531
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760422 / N5944879)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd.</p> <p>This midden area can be found adjacent to the boat launch rails, and consists of exposed shell, mostly cockle, and small amount of charcoal and fire cracked rock. Unfortunately, due to the dense vegetation, this area could not be probed or test pitted. Thus, the extent of this midden could not be determined. It is clear that coastal erosion has had a significant impact on this shell midden.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>A large portion of the shell midden is visible from the surface and subject to coastal erosion.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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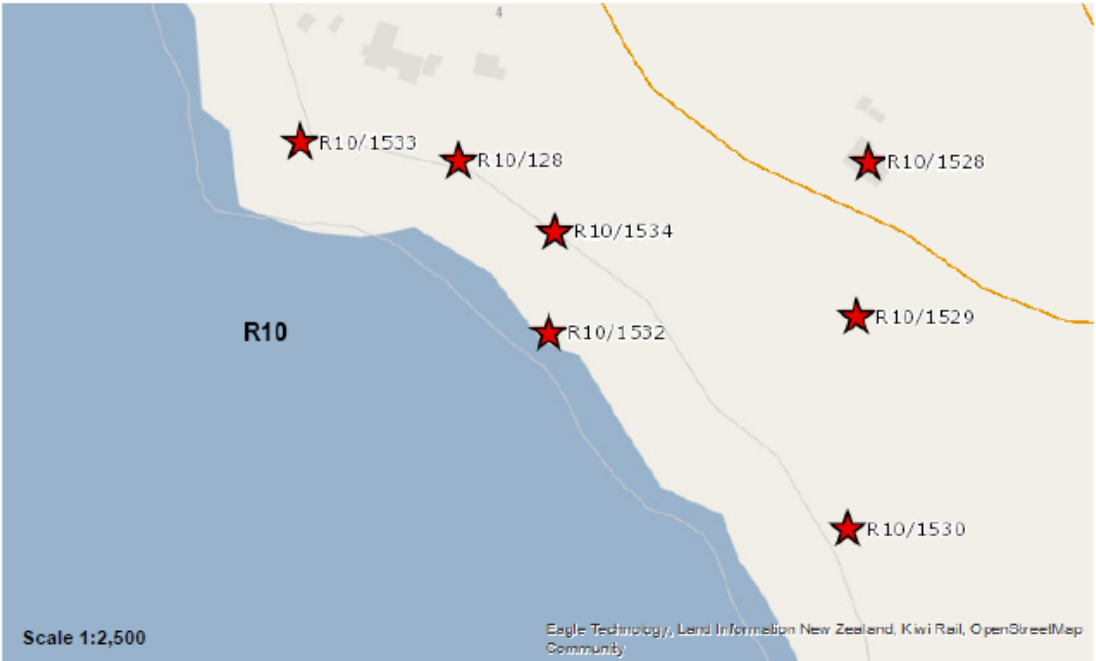
SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1531
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Supporting documentation held in ArchSite



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 ARCHSITE archaeological site recording scheme	Site Record Form NZAA SITE NUMBER: R10/1532 SITE TYPE: Midden/Oven SITE NAME(s): DATE RECORDED:
SITE COORDINATES (NZTM) Easting: 1760293 Northing: 5945050 Source: Handheld GPS	
IMPERIAL SITE NUMBER: METRIC SITE NUMBER: R10/1532	
	
Finding aids to the location of the site Central southern side of property 5 Daisy Burrell Drive, cliff edge.	
Brief description	
Recorded features Midden	
Other sites associated with this site	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1532
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760293 / N5945050)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd.</p> <p>At the central southern side of the property along the coast/beach, a large fallen tree can be found with shell midden amongst its roots. Additionally, exposed midden can be seen eroding out of the cliff-face where this tree presumably fell from. The eroding section of midden was too close to the cliff's edge to investigate.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>An unknown portion of the shell midden is visible from the surface and subject to erosion.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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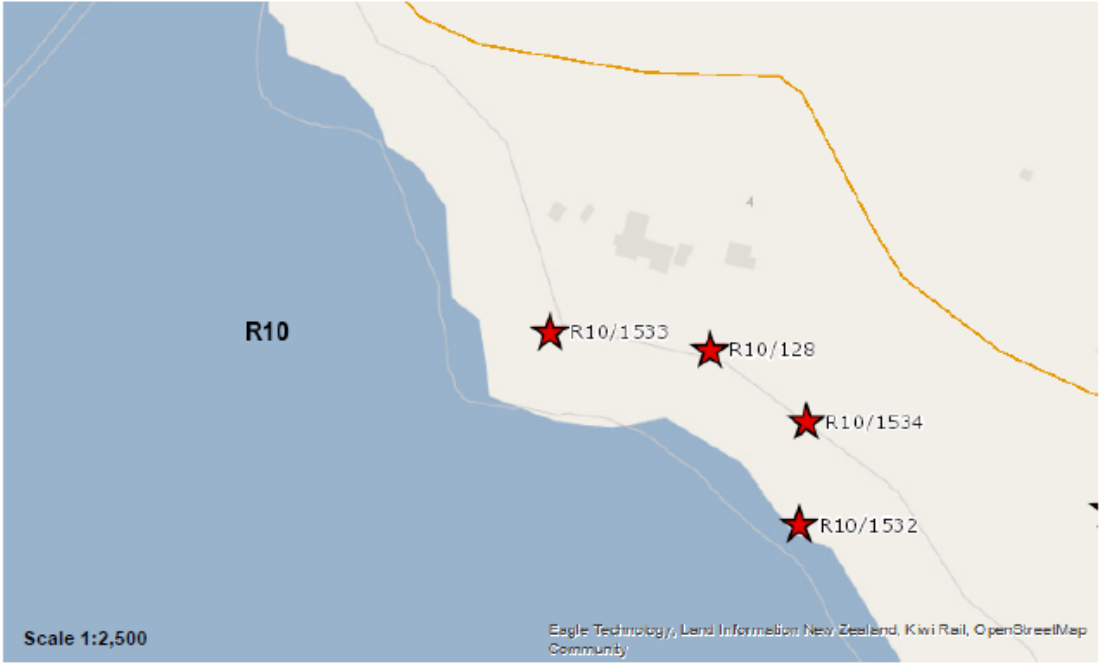
SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1532
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Supporting documentation held in ArchSite



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 <p>ARCHSITE archaeological site recording scheme</p> <p>Site Record Form</p>	<p>NZAA SITE NUMBER: R10/1533</p> <p>SITE TYPE: Midden/Oven</p> <p>SITE NAME(s):</p> <p>DATE RECORDED:</p>
<p>SITE COORDINATES (NZTM) Easting: 1760182 Northing: 5945135 Source: Handheld GPS</p>	
<p>IMPERIAL SITE NUMBER: METRIC SITE NUMBER: R10/1533</p>	
 <p>Scale 1:2,500</p> <p>Eagle Technology, Land Information New Zealand, Kiwi Rail, OpenStreetMap Community</p>	
<p>Finding aids to the location of the site Southwest side of property 5 Daisy Burrell Drive</p>	
<p>Brief description</p>	
<p>Recorded features Midden</p>	
<p>Other sites associated with this site</p>	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1533
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760182 / N5945135)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd. Probing and spading was done to determine the extent and density of the shell.</p> <p>A relatively large, but thin patch of midden exists beneath overgrown grass adjacent to the cliffs edge on the southwest side of the property, just to the southwest of the modern domestic dwelling that exists there. This deposit is approximately 8m long 6m wide, however, the midden may continue westwards towards the cliff edge. Probing and minor spading revealed that the shell exists just beneath the surface and is typically a scatter with some relatively dense patches closer to the centre of the midden. Probing indicated that the midden may continue eastwards along the cliff adjacent to the fence as a thin scatter and may be connected to adjacent midden site R10/128.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>The shell exists beneath the surface and does not appear to be eroding in any significant way. However, if the midden exists along the cliff edge, it may be at risk from erosion.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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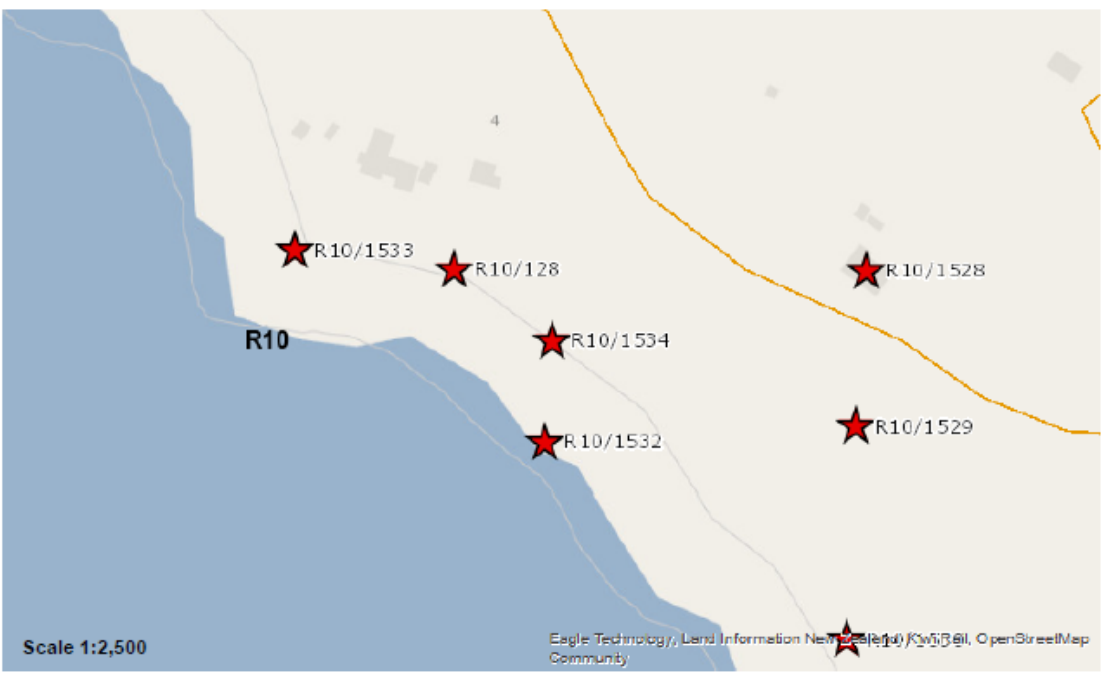
SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1533
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Supporting documentation held in ArchSite



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 <p>ARCHSITE archaeological site recording scheme</p> <p>Site Record Form</p>	<p>NZAA SITE NUMBER: R10/1534</p> <p>SITE TYPE: Midden/Oven</p> <p>SITE NAME(s):</p> <p>DATE RECORDED:</p>
<p>SITE COORDINATES (NZTM) Easting: 1760296 Northing: 5945095 Source: Handheld GPS</p>	
<p>IMPERIAL SITE NUMBER: METRIC SITE NUMBER: R10/1534</p>	
 <p>Scale 1:2,500</p> <p>Eagle Technology, Land Information New Zealand (LINZ), OpenStreetMap Community</p>	
<p>Finding aids to the location of the site Central south side of property 5 Daisy Burrell Drive, adjacent to cliff edge.</p>	
<p>Brief description</p>	
<p>Recorded features Midden</p>	
<p>Other sites associated with this site</p>	



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SITE RECORD HISTORY	NZAA SITE NUMBER: R10/1534
<p>Site description</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin Grid reference (E1760296 / N5945095)</p> <p>The site was visited during an archaeological survey for Hopper Developments Ltd. Probing and was done to determine the extent and density of the shell.</p> <p>This midden area is located on the central south side of property 5 Daisy Burrell Drive, along a relatively steep slope that leads westwards towards the densely vegetated cliff. This midden covers a significantly large length of approximately 40m across the slope, and continues approximately 12m down the slope to the south/southwest to the fence and beyond towards the cliff. The midden is densest across the central portion of the slope.</p> <p>More information on the site can be found in A. Apfel, K. Roth, G. Farley. December 2021. 5 Daisy Burrell Drive, Hobbs Bay: Archaeological Assessment. Clough & Associates report prepared for Hopper Developments Ltd.</p> <p>Condition of the site</p> <p>Updated 13/12/2021 (Field visit), submitted by aaronapfel , visited 23/07/2021 by Apfel, Aaron & Roth, Kirstin</p> <p>A small portion of the shell midden is visible from the surface and subject to erosion. The majority of the midden is below the surface.</p> <p>Statement of condition</p> <p>Current land use:</p> <p>Threats:</p>	



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SITE RECORD INVENTORY	NZAA SITE NUMBER: R10/1534
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& ASSOCIATES LTD

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