Fisher Court, Knockentiber, East Ayrshire: Archaeological Evaluation

Data Structure Report



by Sarah Krischer issued 5th January 2018 on behalf of Ms MacAllister



Quality Assurance

This report covers works which have been undertaken in keeping with the issued brief as modified by the agreed programme of works. The report has been prepared in keeping with the guidance of Rathmell Archaeology Limited on the preparation of reports. All works reported on within this document have been undertaken in keeping with the Chartered Institute for Archaeologists' Standards and Policy Statements and Code of Conduct.

Signed5th January 2018.......

In keeping with the procedure of Rathmell Archaeology Limited this document and its findings have been reviewed and agreed by an appropriate colleague:

Checked Date 5th January 2018......

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Quality Assurance Data

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Date of Issue 5th January 2018 Version 1.0

Commissioning Ms MacAllister

Event Name Fisher Court, Knockentiber, East Ayrshire

Event Type Evaluation

Event Date(s) 18th to 20th December 2017

Rathmell Code RA17120 OASIS Ref rathmell1-303764

Location United Kingdom: Scotland: East Ayrshire

NGR NS 39650, 39450 Parish Kilmaurs

Designation(s) None Canmore IDs None

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Introduction

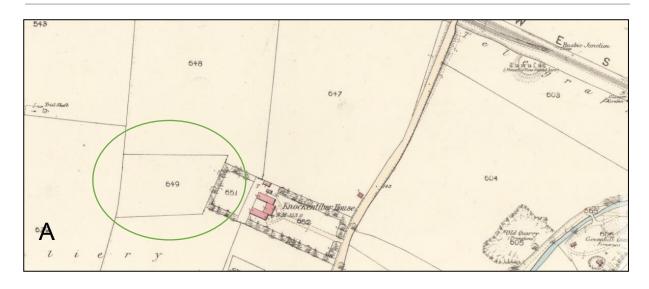
- 1. This Data Structure Report (DSR) has been prepared for Ms MacAllister in respect to the consented development on Fisher Court, Knockentiber, East Ayrshire (17/0426/PP) and adjacent ground. These archaeological works were designed to determine the nature, form and extent of any archaeological features present within the area and hence inform the appropriate mitigation to facilitate the development. The development area is previously undeveloped ground and hence archaeological evaluation was required.
- 2. This investigative work was structured to meet the advice of the West of Scotland Archaeology Service (WoSAS), agreed through a Written Scheme of Investigation (Rees, 2017). Rathmell Archaeology Ltd was appointed to undertake the development and implementation of archaeological mitigation works in advance of the proposed development work at Fisher Court, Knockentiber, East Ayrshire in keeping with the specification they had agreed with the planning authority and WoSAS.

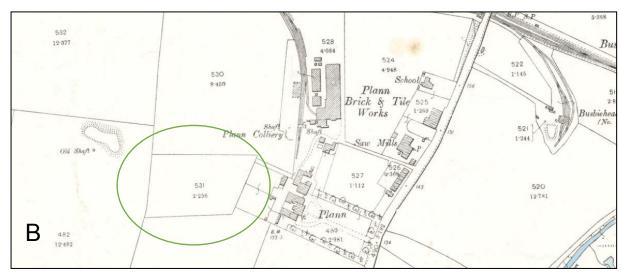
Historical and Archaeological Background

- 3. Historical mapping (see Figure 1) shows that broadly the field within which the development area lies has consistently been a single field since at least 1860. Site inspection reveals an improved field bounded by substantial hedgerows to the immediate west of Knockentiber. Colliery activity is depicted on the historic map sequence in the surrounding area though there are no surface workings within the field.
- 4. Access in the NE corner of the field is onto an area of modern hardstanding. The 3rd edition Ordnance Survey (Figure 1c) shows a structure in the NE corner of the historic field, however this corner has been cut off the field and is now part of the neighbouring residential property.
- 5. No known historic environment sites are located within the field and no heritage designations apply to ground within the field.
- 6. The closest significant heritage site is the former Waterpark Cairn, some 460m to the NE (Canmore Id 42804). This prehistoric burial monument was disrupted during the 19th century by the construction of the railway and the adjacent colliery. No traces of this monument survive. WoSAS have considered that the proximity the former Waterpark Cairn to have increased the potential for significant sub-surface archaeological deposits to be present.

Project Works

- 7. The archaeological evaluation, undertaken between 18th and 20th December 2017, was carried out in keeping with the methods detailed in the Written Scheme of Investigation (Rees 2017).
- 8. The objective was to determine the presence or absence of archaeological deposits that might be affected by the later construction work. The available portion of the development area that was subject to evaluation was 0.91ha. The West of Scotland Archaeology Service required an 8% trial trenching sample of the area, hence a target of 730m² of trenching. The Written Scheme of Investigation agreed fifteen, 1.6m x 30m, trenches within a proposed layout (Rees 2017). A total of 752.32m² was excavated, slightly more than the required 8% of trenching. Due to the presence of the electricity service farther north than anticipated it was necessary to adjust some of the trenches in order to maintain a sufficient buffer zone (Figure 2).
- 9. All works were conducted in accordance with the Chartered Institute for Archaeologists' Standards and Policy Statements and Code of Conduct and Historic Environment Scotland Policy Statements.





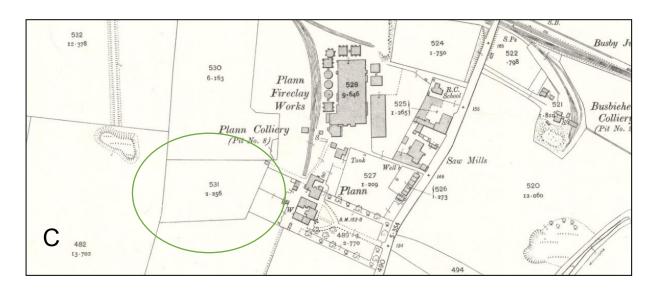


Figure 1: Historic Ordnance Survey maps from (a) 1860 (b) 1896 and (c) 1910

Findings

- 10. In total, fifteen evaluation trenches were excavated across the available portion of the development area, using a tracked 360° mechanical excavator with a toothless 1.6m ditching bucket. The development area was a grassy field which sloped down to the east, west and south from a small rise in the north (Figure 3a).
- 11. The topsoil within the site, (001), consisted of moderately compacted, mid-grey brown clayey silt with very frequent root inclusions. The topsoil ranged from 0.20m to 0.39m in depth. The topsoil overlay three natural clay subsoils (002), (003) and (004):
 - ♦ (002) was a moderately compact mid to dark brown clay with very small stone and gravel inclusions. It was present at northwest corner of development area in Trenches 1, 2 and 3. (002) was dug into 0.10 to 0.15m;
 - ❖ (003) was a mid-orangish grey brown clay with small to medium size stones and frequent manganese inclusions (Figure 3b). It was found throughout the development area and dug into between 0.10 to 0.20m; and
 - ♦ (004) was a mid-orange/yellow silty clay with small gravel inclusions. It was found at north end of site at the top of small rise in Trenches 1, 3, 6, 7, 8 and 9. It was dug to a depth of between 0.10m and 0.20m.
- 12. A few sherds of 19th century ceramics were found in the evaluation trenches. No significant archaeological features were found.

Agricultural features

- 13. Three type of linear agricultural drains were found in the evaluation trenches. These were rubble field drains (006); white tile field drains (005) and (010); and red tile field drains (007), (008) and (009). The rubble field drain (006) was formed in a slot 0.45m wide and between 0.33m and 0.39m deep. This was filled by light grey sub-angular stones in a fill of topsoil (001) moderately compact mid to dark grey-brown silty clay. It ran north-south at the west end of the development area.
- 14. The slots for the two white tile drains were 0.28 to 0.30m wide and 0.37 to 0.40m deep. The segments of ceramic pipe set at the base of each slot are 0.25m long and range in width from 0.15m to 0.21m. Drain (005) runs north-south and (010) runs northwest-southeast (Figure 4b). The slots for the three red tile drains were between 0.25m and 0.31m wide and had a depth of 0.35m to 0.42m. The segments of ceramic pipe set at the base of each slot were between 0.23m and 0.25m long and 0.14 to 0.16m wide (Figure 4a). (007) and (009) ran north-south and (008) ran northeast-southwest.
- 15. None of the drains intersected within the trenches, making it impossible to speculate as to the interaction of the three types of drain. All drains were intact and in use prior to the evaluation. They were presumably placed into the field to improve it due to excess waterlogging caused by the clay subsoils of the area.

Discussion

- 16. The evaluation trenches at Fisher Court, Knockentiber identified no significant archaeological features during the excavation of the evaluation trenches.
- 17. A series of agricultural features were identified, most likely dating to the nineteenth and twentieth centuries. The agricultural features consisted of a rubble drain (006) and several tile drains (005), (007), (008), (009) and (010).
- 18. Several sherds of 19th century ceramic were found during trenching, which represent casual loss or middening of arable ground.

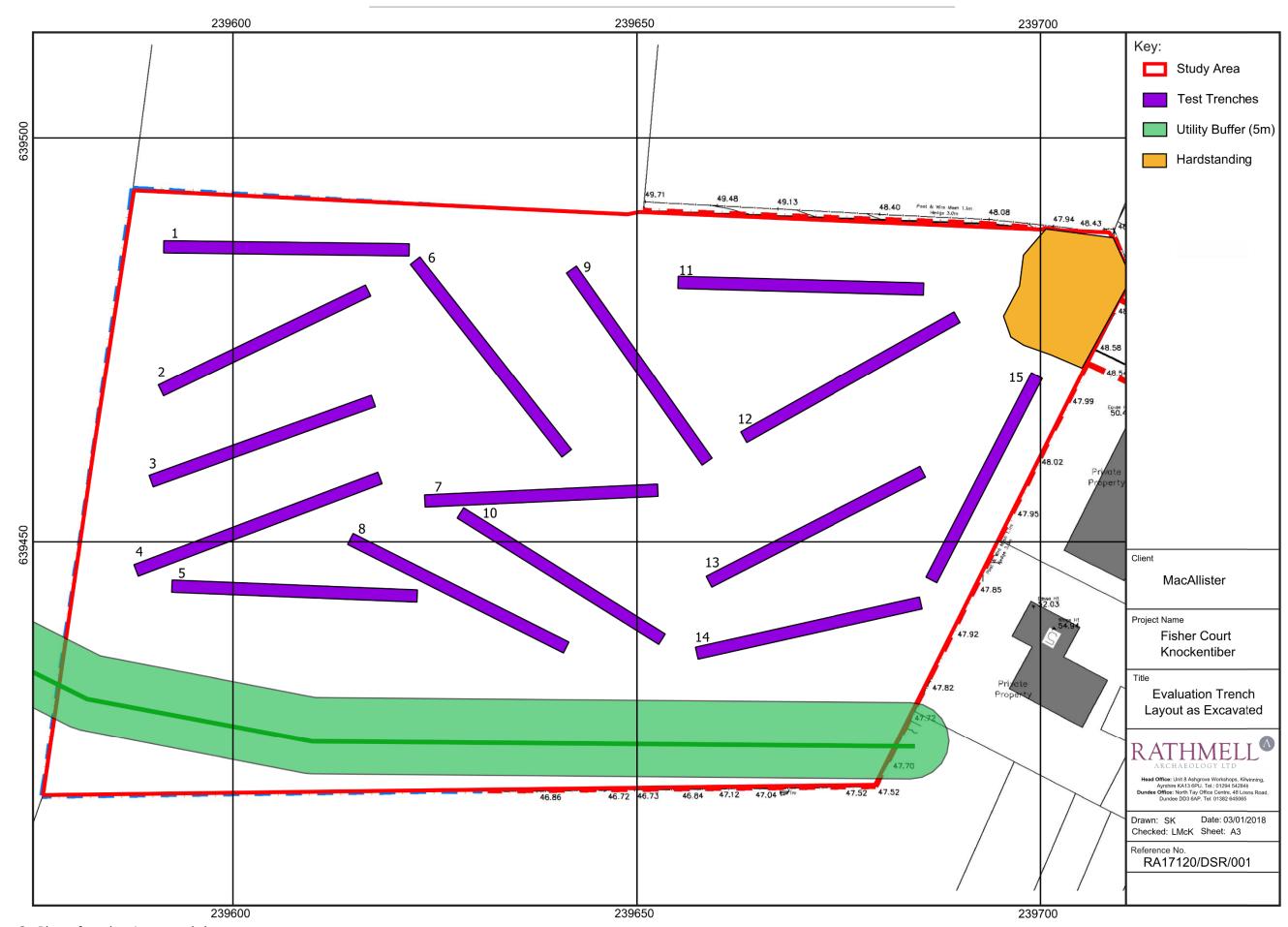


Figure 2: Plan of evaluation trench layout.



Figure 3a: Pre excavation view of the evaluation area. From the NE.



Figure 3b: Post excavation view of Trench 12. From the NE.



Figure 4a: View of red tile drain (009) within Trench 13. From the NW.



Figure 4b: View of ceramic drain (010) within Trench 15. From the N.

Recommendations

- 19. As no significant archaeological features or artefacts were identified during the archaeological works on Fisher Court, Knockentiber it is recommended that no further work be carried out.
- 20. The acceptability of these recommendations needs to be confirmed with the West of Scotland Archaeology Service and East Ayrshire Council.

Conclusion

- 21. A programme of archaeological investigative works was carried out for Ms MacAllister in support of development at Fisher Court, Knockentiber, East Ayrshire. The archaeological works were designed to determine the archaeological potential of the development area and hence inform the specification for mitigation of the impact on the archaeological remains within the development area.
- 22. The evaluation consisted of fifteen trenches which identified a series of 19th or 20th century agricultural drains. Several sherds of nineteenth century pottery were found. No significant archaeological features or artefacts were identified during the works.

Acknowledgements

23. The author would like to thank Ms MacAllister for the opportunity to carry out these works. In addition I would like to thank Liam McKinstry, Senior Archaeologist with Rathmell Archaeology Ltd for his input and Thomas Rees, Consultant Archaeologist at Rathmell Archaeology, for his help in the editing of this report.

References

Rees, T. 2017, Fisher Court, Knockentiber: Archaeological Mitigation. Written Scheme of Investigation, unpublished commercial report by Rathmell Archaeology Ltd

Appendix 1: Trench Details

Within this appendix a standardised set of data pertaining to the evaluation trenches is presented.

All measurement distances quoted along the trench measure based on the quoted orientation of the trench.

Trench Summary

Area/ Trench	Orientation	Size	Trench Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
1	WNW-ENE	1.6m x 32m 51.2m ²	0.40m- 0.70m	Om (002) mid to dark brown clay with very small stone and gravel inclusions. +5.9m (003) mid orange/grey brown clay with small stones and manganese inclusions. +21.6m (004) mid orange/yellow silty clay with small gravel inclusions.	+2.1m (005) white tile field drain running northsouth. +4.4m (006) stone field drain running northsouth.	None	None
2	SW-NE	1.6m x 30m 48m ²	0.20m- 0.60m	0m (002) mid to dark brown clay with very small stone and gravel inclusions. +9.4m (003) mid orange/grey brown clay with small stones and manganese inclusions.	+1.2m (005) white tile field drain running northsouth. +6.5m (006) stone field drain running northsouth.	None	None
3	WSW-ENE	1.6m x 30.8m 49.28m ²	0.25m- 0.50m	0m (002) mid to dark brown clay with very small stone and gravel inclusions. +4.1m (003) mid orange/grey brown clay with small stones and manganese inclusions. +27.4m (004) mid orange/yellow silty clay with small gravel inclusions.	None	None	None

Area/ Trench	Orientation	Size	Trench Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
4	WSW-ENE	1.6m x 34m 54.4m ²	0.26m- 0.40	0m (003) mid orange/grey brown clay with small stones and manganese inclusions.	Om (005) white tile field drain running north-south. +18.8m (007) red tile field drain running north-south.	None	None
5	W-E	1.6m x 32m 51.2m ²	0.30m- 0.40m	Om (003) mid orange/grey brown clay with small stones and manganese inclusions.	None	None	None
6	NW-SE	1.6m x 32m 51.2m ²	0.25m- 0.46m	0m (004) mid orange/yellow silty clay with small gravel inclusions.	+3.1m (008) red tile drain running northeast-southwest.	None	None
7	NNW-SSE	1.6m x 30.4m 49.12m ²	0.20m- 0.36m	0m (003) mid orange/grey brown clay with small stones and manganese inclusions. +10.5m (004) mid orange/yellow silty clay with small gravel inclusions. +12.1m (003).	None	None	None
8	NNW-SSE	1.6m- 31.5m 50.4m ²	0.30m- 0.40m	0m (003) mid orange/grey brown clay with small stones and manganese inclusions. +3.9m (004) mid orange/yellow silty clay with small gravel inclusions. +6.6m (003)	None	None	None

Area/ Trench	Orientation	Size	Trench Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
9	NW-SE	1.6m x 30.7m	0.30m - 0.40m	0m (004) mid orange/yellow silty clay with small gravel inclusions.	None	None	Find no.1 19 th century white
		49.12m ²		+8.7m (003) mid orange/grey brown clay with small stones and manganese inclusions.			ware ceramic sherd
				+16.5m (004).			
				+19.5m (003).			
10	NNW-SSE	1.6m x 31m	0.23m-	0m (003) mid orange/grey brown clay	None	None	None
		49.6m ²	0.40m	with small stones and manganese inclusions.			
11	NNW-SSE	1.6m x 32.1m	0.20m- 0.32m	0m (003) mid orange/grey brown clay with small stones and manganese	None	None	Find no.3 2 pieces of 19 th
		51.36m ²	n²	inclusions.			century white ware ceramic shreds.
12	SW-NE	1.6m x 32m		0m (003) mid orange/grey brown clay	None	None	None
		51.2m ²	0.34m	with small stones and manganese inclusions.			
13	WSW-ENE	1.6m x 31.4m	0.30m- 0.37m	0m (003) mid orange/grey brown clay with small stones and manganese	+3.8m (009) red tile field drain running north-	None	Find no.2 19 th
		50.24m ²	0.37111	inclusions.	south.		century white ware ceramic sherd.
14	WSW-ENE	1.6m x 30m	0.3m	0m (003) mid orange/grey brown clay	None	None	None
		48m²		with small stones and manganese inclusions.			
15	SSW-NNE	1.6m x 30m	0.32m-	0m (003) mid orange/grey brown clay	+27.6m (010) white tile	None	None
		48m²	0.40m	with small stones and manganese inclusions.	field drain running northwest-southeast.		

Appendix 2: Registers

Within this appendix are all registers pertaining to works on-site during the evaluation.

Context Register

Context No.	Area/ Trench	Туре	Description	Interpretation
001	All	Deposit	Moderately compact mid to dark grey-brown silty clay with frequent vegetation. 0.20-0.39m thick. Present across entire area.	Topsoil.
002	1,2 and 3	Deposit	Moderately compact mid to dark brown clay with very small stone and gravel inclusions. Present at northwest corner of area.	Natural subsoil
003	1,2,3,4,5,7, 8,9,10,11, 12, 13, 14 and 15	Deposit	Mid orange/grey brown clay with small to medium size stones and frequent manganese inclusions. Found throughout area.	Natural subsoil.
004	1,3,6,7,8,9	Deposit	Mid orange/yellow silty clay with frequent small gravel inclusions. Found at north end of site at the top of small rise.	Natural subsoil.
005	1,2,3,4	Deposit	White tile drain in dark brownish-grey clay. 0.28m wide and 0.35-0.41m deep. Segments of drain are 0.25m long and 0.21m wide.	White tile field draining running north-south at west end of area.
006	1 and 2	Deposit	Rubble field drain 0.45m wide and 0.33-0.39m deep. Made of light grey subangular stones in a fill of topsoil (001) moderately compact mid to dark greybrown silty clay.	Rubble field drain running north-south at west end of area.
007	4	Deposit	Red tile drain in in dark brownish-grey clay. 0.29m wide and 0.35- 0.40m deep. Segments of drain are 0.25m long and 0.14m wide.	Red tile field drain running north-south at west end of area.
008	6	Deposit	Red tile drain in in light brownish-grey clay. 0.31m wide and 0.42m deep. Segments of drain are 0.23m long and 0.16m wide.	Red tile field drain running northeast-southwest. Seen at north end of area.
009	13	Deposit	Red tile drain in a light brownish-grey clay. 0.25m wide and 0.39m deep. Segments of drain are 0.25m long and 0.15m wide.	Red tile field drain running north-south. Seen in southeast end of area.

Context No.	Area/ Trench	Туре	Description	Interpretation
010	15	Deposit	White tile drain in a dark greyish-brown clay. 0.30m wide and 0.37m deep. Segments of drain are 0.20m long and 0.17m wide.	White tile field drain running northwest-southeast. Seen in northeast corner of area.

Drawing Register

Drawing No.	Sheet No.	Area/ Trench	Drawing Type	Scale	Description
001	1	Trench 1	Plan	1:100	Post-excavation plan of trench 1.
002	1	Trench 2	Plan	1:100	Post-excavation plan of trench 2.
003	1	Trench 3	Plan	1:100	Post-excavation plan of trench 3.
004	1	Trench 4	Plan	1:100	Post-excavation plan of trench 4.
005	1	Trench 5	Plan	1:100	Post-excavation plan of trench 5.
006	1	Trench 6	Plan	1:100	Post-excavation plan of trench 6.
007	1	Trench 9	Plan	1:100	Post-excavation plan of trench 9.
008	1	Trench 7	Plan	1:100	Post-excavation plan of trench 7.
009	2	Trench 8	Plan	1:100	Post-excavation plan of trench 8.
010	2	Trench 10	Plan	1:100	Post-excavation plan of trench 10.
011	2	Trench 11	Plan	1:100	Post-excavation plan of trench 11.
012	2	Trench 12	Plan	1:100	Post-excavation plan of trench 12.
013	2	Trench 13	Plan	1:100	Post-excavation plan of trench 13.
014	2	Trench 14	Plan	1:100	Post-excavation plan of trench 14.
015	2	Trench 15	Plan	1:100	Post-excavation plan of trench 15.

Finds Register

Find	Area	Context no.	Material Type	Description	Excavator	Date
No.	Trench					
001	Trench 9	001	Ceramic	1x 19 th century ceramic sherd	SK	19/12/2017
002	Trench 13	003	Ceramic	1 x 19 th century ceramic sherd	SK	20/12/2017
003	Trench 11	003	Ceramic	2 x 19 th century ceramic sherd.	SK	20/12/2017

Photographic Register.

Image No.	Digital	Description	From	Date
001	9030	Post-excavation shot of trench 1.	ENE	18/12/2017
002	9031	Post-excavation shot of trench 1.	ENE	18/12/2017
003	9032	Pre-excavation shot of area.	NE	18/12/2017
004	9033	Pre-excavation shot of area.	NW	18/12/2017
005	9034	Post-excavation shot of trench 2.	NE	18/12/2017
006	9035	Post-excavation shot of trench 2.	NE	18/12/2017
007	9036	Detail of white tile drain from trench 2.	Above	18/12/2017
800	9037	Post-excavation shot of trench 3.	NE	18/12/2017
009	9038	Post-excavation shot of trench 3.	NE	18/12/2017
010	9039	Post-excavation shot of trench 4.	NE	18/12/2017
011	9040	Post-excavation shot of trench 4.	NE	18/12/2017
012	9041	Post-excavation shot of trench 5.	E	18/12/2017
013	9042	Post-excavation shot of trench 6.	SE	19/12/2017
014	9043	Post-excavation shot of trench 6.	SE	19/12/2017

Image No.	Digital	Description	From	Date
015	9044	Detail of red tile drain in trench 6.	NW	19/12/2017
016	9045	Post-excavation shot of trench 9.	SE	19/12/2017
017	9046	Post-excavation shot of trench 9.	SE	19/12/2017
018	9047	Post-excavation shot of trench 7.	E	19/12/2017
019	9048	Post-excavation shot of trench 7.	E	19/12/2017
020	9049	Post-excavation shot of trench 8.	SE	19/12/2017
021	9050	Post-excavation shot of trench 8.	SE	19/12/2017
022	9051	Post-excavation shot of trench 10.	SE	19/12/2017
023	9052	Post-excavation shot of trench 10.	SE	19/12/2017
024	9053	General shot.	SE	19/12/2017
025	9054	General shot.	S	19/12/2018
026	9055	General shot.	NW	19/12/2017
027	9056	General shot.	N	19/12/2017
028	9057	Post-excavation shot of trench 11.	E	20/12/2017
029	9058	Post-excavation shot of trench 11.	E	20/12/2017
030	9059	Post-excavation shot of trench 12.	NE	20/12/2017
031	9060	Post-excavation shot of trench 12.	NE NE	20/12/2017
032	9061	Post-excavation shot of trench 13.	NE NE	20/12/2017
033	9062	Post-excavation shot of trench 13.	NE NE	20/12/2017
034	9063	Detail of red tile drain in trench 13.	NW	20/12/2017
035	9064	Detail of red tile drain in trench 13.	NW	20/12/2017
036	9065	Post-excavation shot of trench 14.	NE NE	20/12/2017
037	9066	Post-excavation shot of trench 14.	NE NE	20/12/2017

Image No.	Digital	Description	From	Date
038	9067	VOID	VOID	VOID
039	9068	Post-excavation shot of trench 15	NNE	20/12/2017
040	9069	Post-excavation shot of trench 15	NNE	20/12/2017
041	9070	Post-excavation shot of red tile drain in trench 13.	NW	20/12/2017
042	9071	Post-excavation shot of red tile drain in trench 13.	SW	20/12/2017
043	9072	Post-excavation shot of red tile drain in trench 13.	SE	20/12/2017
044	9073	Post-excavation shot of red tile drain in trench 13.	SE	20/12/2017
045	9074	Post-excavation shot of red tile drain in trench 13.	SE	20/12/2017
046	9075	Post-excavation shot of red tile drain in trench 13.	NE	20/12/2017
047	9076	Detail of tile from drain in trench 13	Above	20/12/2017
048	9077	Detail of tile drain in trench 15.	N	20/12/2017
049	9078	Detail of tile drain in trench 15.	N	20/12/2017
050	9079	East facing section of trench 15.	E	20/12/2017
051	9080	East facing section of trench 15.	E	20/12/2017
052	9081	General shot.	E	20/12/2017
053	9082	General shot.	N	20/12/2017
054	9083	General shot.	NW	20/12/2017
055	9084	General shot.	NE	20/12/2017
056	9085	General shot.	NE	20/12/2017

Appendix 3: Discovery & Excavation in Scotland

LOCAL AUTHORITY:	East Ayrshire
PROJECT TITLE/SITE NAME:	Fisher Court, Knockentiber, East Ayrshire
PROJECT CODE:	RA17120
PARISH:	Kilmaurs
NAME OF CONTRIBUTOR:	Sarah Krischer
NAME OF ORGANISATION:	Rathmell Archaeology Limited
TYPE(S) OF PROJECT:	Evaluation
NMRS NO(S):	-
SITE/MONUMENT TYPE(S):	-
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	None
START DATE (this season)	18 th December 2017
END DATE (this season)	20 th December 2017
PREVIOUS WORK (incl. DES ref.)	No
MAIN (NARRATIVE) DESCRIPTION: (may include information from other fields)	A programme of archaeological investigative works was carried out for Ms MacAllister in support of development at Fisher Court, Knockentiber, East Ayrshire. The archaeological works were designed to determine the archaeological potential of the development area and hence inform the specification for mitigation of the impact on the archaeological remains within the development area.
	The evaluation consisted of fifteen trenches which identified a series of 19th or 20th century agricultural drains. Several sherds of nineteenth century pottery were found. No significant archaeological features or artefacts were identified during the works.
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Ms MacAllister
ADDRESS OF MAIN CONTRIBUTOR:	Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU
EMAIL ADDRESS:	contact@rathmell-arch.co.uk
ARCHIVE LOCATION (intended/deposited)	Report to West of Scotland Archaeology Service and archive to the National Record of the Historic Environment.

Contact Details

24. Rathmell Archaeology can be contacted at our Registered Office or through the web:

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25. The West of Scotland Archaeology Service can be contacted at their office or through the web:

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End of Document