# Mauldslie Castle Nuseries: Archaeological Evaluation

Data Structure Report

by Douglas Gordon

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## Contents

Overview	4
Archaeological and Historical Background	4
Project Works	7
Findings - Monitoring	7
Findings - Evaluation	12
Discussion	12
Recommendations	13
Conclusion	13
References	13
Documentary	13
Web Based	13
Cartographic	13
Context Register	14
Appendix 2: Trench Details	20
Appendix 3: Registers for Evaluation	23
Context Register:	23
Photographic Register	28
Appendix 3: Discovery & Excavation in Scotland	32
Contact Details	33

# Figures

Figure 1a: Roy's Military Map 1775	5
Figure 1b: 1st edition Ordnance Survey 1864	5
Figure 2a: 1st Edition Ordnance Survey 1:2500 1856-59	6
Figure 2b: 2nd Edition Ordnance Survey 1:2500 1892-97	6
Figure 3b: 4 <sup>th</sup> Edition Ordnance Survey 1.2500 1930-1949	8
Figure 4: Layout of Trenches	g
Figure 5a: Trench 1 from the North	10
Figure 5b: Trench 4 from the North	10
Figure 6a: Trench 7 from the West	11
Figure 6b: Trench 11 from the North Northwest	11

#### Overview

- 1. A programme of archaeological works were required by Stay Home Construction Ltd in respect to proposed residential development at Mauldslie Castle Nurseries, Carluke, South Lanarkshire (Ref: CL/09/0521). The archaeological works are designed to mitigate the impact on the archaeological remains within the development area.
- 2. South Lanarkshire Council required a programme of archaeological works to be undertaken as a requirement of the granted planning consent. The West of Scotland Archaeology Service who advise South Lanarkshire Council on archaeological matters provided guidance on the structure of archaeological works required on this site during development works.
- 3. Rathmell Archaeology Limited was appointed by Stay Home Construction Ltd to undertake the development and implementation of archaeological mitigation works during the initial stages of development works at Mauldslie Castle Nurseries, Carluke. The project works have been defined by a Written Scheme of Investigation (Rees 2010) that was agreed with the West of Scotland Archaeology Service, archaeological advisor to planning authority, South Lanarkshire Council.

## Archaeological and Historical Background

- 4. The development area at Mauldslie Castle Nurseries overlies the walled garden of the 18<sup>th</sup> century Mauldslie Castle, as depicted on the 1st edition Ordnance Survey map (see Figure 1b). To the immediate east is the Haugh Hill, upon which is a tomb (WoSAS Id 50445) while to the west is the purported site of a medieval chapel (WoSAS Id 10331). Both these adjacent features are mapped on the 1<sup>st</sup> edition Ordnance Survey.
- 5. To the north is the site of Mauldslie Castle (WoSAS Id 41084), built in 1792 for the 5th Earl of Hyndford to designs by Robert Adam. The castle was remodelled in 1860, after the estate was acquired by Mr James Hozier, with the addition of Scottish Baronial architectural detail. This building was demolished in 1957 although the adjacent Stables still stand. The nurseries are likely to be broadly contemporary with this structure.
- 6. Little is known for certain about the early history of the Mauldslie Estate, but it is known that at one time it was a Royal Hunting Forest (in the 13th century). There is further documentary evidence that it was later transferred during the reign of James VI to Mark Kerr, Commendator of Newbattle Abbey in Midlothian to form part of the new post-Reformation Barony of Newbattle, along with other lands which had belonged to Newbattle Abbey.
- 7. There is known to have been an earlier castle at Mauldslie before the later Adam House was built (mentioned in the parliamentary proceedings which transferred the land to Mark Kerr in 1587). Roy's Military Survey of Scotland predates the construction of the Adam design Mauldslie Castle in the 18<sup>th</sup> Century. This map (see Figure 1a) depicts the development area as being on the fringes of the designed landscape associated with a substantial structure and enclosure to the north-east (roughly at the location of the stables).
- 8. The study area is depicted on the 1st edition Ordnance Survey map (Figure 1b & 2a) as a walled garden, rectangular in plan with five buildings within its interior. There are two buildings along the inside of the north wall, the western of these buildings is square in plan, while the eastern building is a long rectangle in plan. The other three structures are found in the southeast quadrant of the garden and are aligned west to east. They consist of a long rectangular building with two small square buildings on either side of it. All the larger structures are marked as glasshouses. A series of paths are also depicted running around the inside of the wall, with a central path running North to South down the middle axis of the garden and a further two paths running West to East splitting the garden into unequal thirds.
- 9. On the 2nd Edition Ordnance Survey (Figure 2b) there have been a few more structural additions. Along the north wall a third building, rectangular in plan, has been built to the



Figure 1a: Roy's Military Map 1775

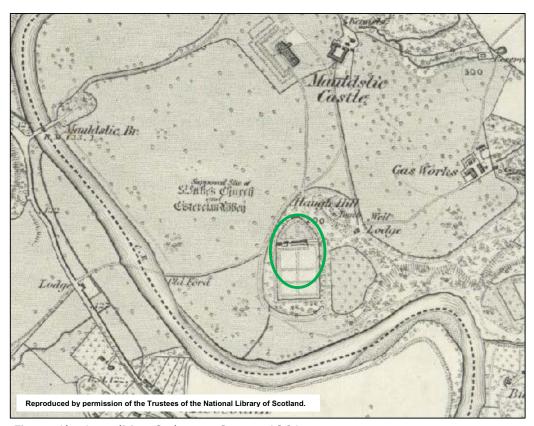


Figure 1b: 1st edition Ordnance Survey 1864

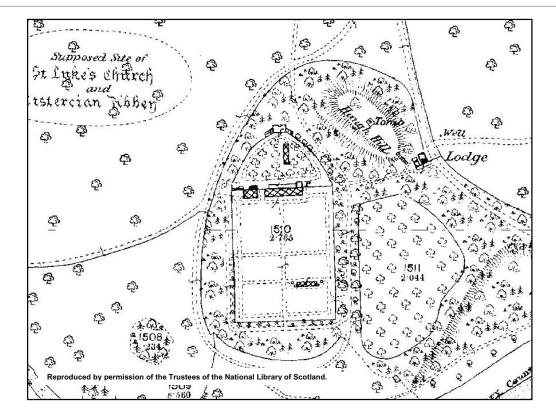


Figure 2a: 1st Edition Ordnance Survey 1:2500 1856-59

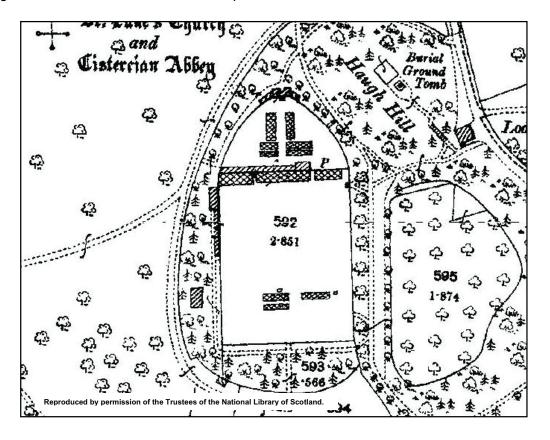


Figure 2b: 2nd Edition Ordnance Survey 1:2500 1892-97

east of the long rectangular building, while the square building has been extended to the west in to the northwest corner of the garden. In the southern half of the garden three new structures have been built to the west of the original ones, though the western small building has disappeared. The new buildings consist of two rectangular buildings aligned west/east and parallel with each other, the third structure is a small square to the immediate north of the two rectangular structures. Several structures are also depicted along the outside of the northern and western wall and the paths are no longer shown on the inside of the garden.

10. There is no change on the 3rd edition Ordnance Survey (Figure 3a), however on the 4th edition Ordnance Survey (Figure 3b) the small square buildings are no longer shown and a large squat rectangular building has appeared to the South of the garden. In more recent times the walled garden was used by the Adult Deaf and Dumb Society in the 1960s and 1970s.

## **Project Works**

- 11. A programme of archaeological works was undertaken between March 2010 and May 2011. The first stage of works comprised the monitoring of Site Investigation works on the 18<sup>th</sup> March 2010. During the intervening period the standing structures on-site were demolished and an evaluation was undertaken between the 25<sup>th</sup> and the 26<sup>th</sup> of May 2011 which consisted of the excavation by a 13 ton 360° machine of a series of intrusive trenches to examine an 8% sample of the development area.
- 12. Where possible the trenches were placed in accordance with the terms of the Written Scheme of Investigation (Rees 2010). However due to continuing on site demolition works and the presence of bunds of demolition rubble and debris, most of the trenches had to be altered in length, position or orientation. In total 572 linear metres were excavated, which slightly exceeded the 550 linear metres required to investigate 8% of the site.
- 13. All works were conducted in accordance with the Institute for Archaeologists' Standards and Policy Statements and Code of Conduct and Historic Scotland Policy Statements. A monitoring visit was undertaken during the intrusive evaluation by West of Scotland Archaeology Service.

## Findings - Monitoring

- 14. A total of 9 machine dug test pits were monitored during the course of the site investigation works. Their locations were scattered across the site, mainly situated within the walled garden but also covering the area outwith. Six of the test pits (1-6) measured between 2.5m to 3.5m long by 0.7m wide and were reduced to a depth of 3m. The last three test pits (P1-3), excavated for porosity testing, measured 4m by 2m and 1m deep, with a 300mm square draining hole dug out at their centre.
- 15. The test pits revealed the area to be covered by a silty clay topsoil (101), (201), (301), (401), (501), (601), (701), (801) and (901) which varied in depth from 250-750mm. Underlying this were varying bands of natural subsoils consisting of silty/sandy clay (102), (202), (303), (403), (502), (504), (703), (802), and (902); sand (402) and (602); and gravel (302), (503), (603), and (704). Test Pit 4 also exposed possible bedrock (404) at its base but this was difficult to see due to the sides of the test pit frequently collapsing.
- 16. No significant archaeological features were present within any of the test pits. Test pit 2 exposed a possible stone culvert (203) at the base of its east facing section which appeared to likely relate to an open channel of water sitting approximately 20m to the northeast. Porosity pit 1 had a thin layer of dark fine gravel (702) (100mm thick) lying just below the topsoil which appeared to be modern in date and didn't contain any significant finds.

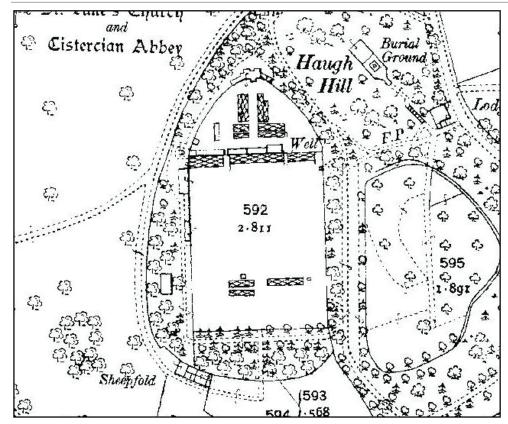


Figure 3a: 3rd Edition Ordnance Survey 1:2500 1908-11

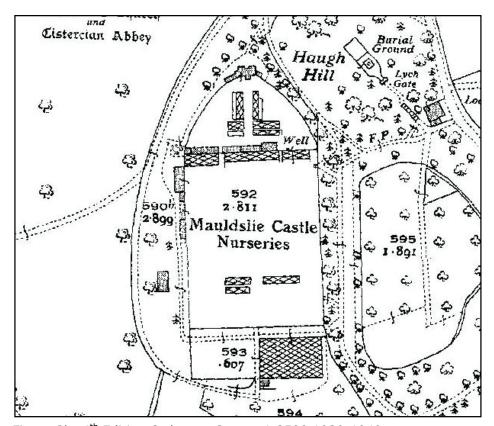


Figure 3b: 4<sup>th</sup> Edition Ordnance Survey 1.2500 1930-1949

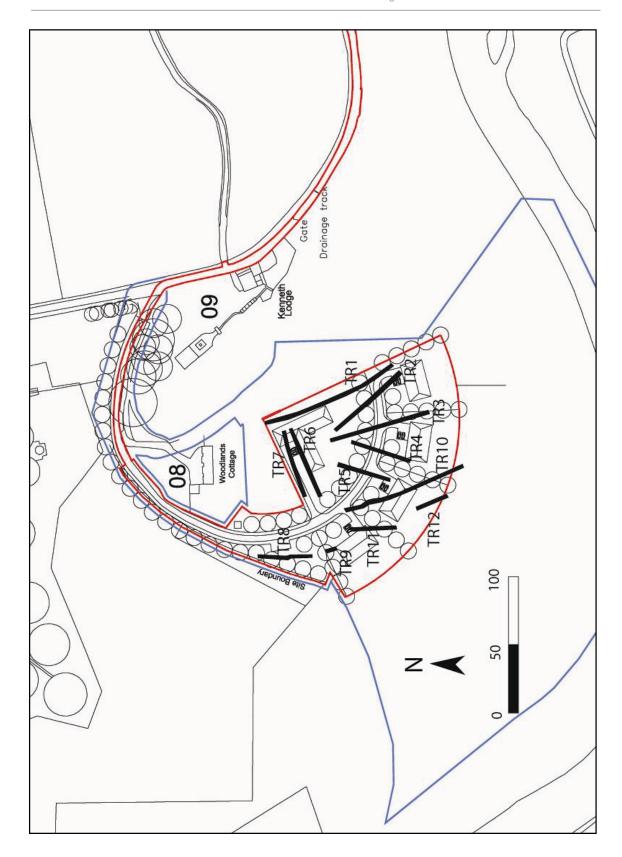


Figure 4: Layout of Trenches



Figure 5a: Trench 1 from the North



Figure 5b: Trench 4 from the North



Figure 6a: Trench 7 from the West.



Figure 6b: Trench 11 from the North Northwest

## Findings - Evaluation

- 17. In all 12 evaluation trenches were excavated using a 13t 360° excavator; details of the trenches may be found in Appendix 1 of this document. Included below is a synthesis of the findings and interpretation from these trenches.
- 18. The sediments excavated in the evaluation trenches varied from topsoil (011), to sandy clay mixed with debris like red brick Ceramic Building Material (CBM) as well as industrial waste including clinker (045), (051) and (077). In general the sections of the trenches, which were not disturbed by modern activity, exhibited a natural soil profile rather than a deep soil expected within a walled garden.
- 19. Natural subsoil was typically encountered at depths of approximately 500mm below ground surface and consisted of variations of sand, sandy clay or clay sand ((001) to (008), (010), (015), (019), (054), (063), (064) and (082)). In most cases this also included inclusions of rounded small to medium sized stones and small to medium sized roots, with manganese present.
- 20. With the exception of Trenches 8 and 9 all the trenches exhibited modern disturbance in the form of rubble or tile drains, red brick walls, service trenches, industrial waste, made ground and demolition rubble. Trenches 3, 5, 7, 10, 11 contained field drains on varying alignments equally split in form between red ceramic tile drains and rubble filled drains.
- 21. Within Trench 3 one rubble drain (035) appeared to lead into an irregular oval of rounded and angular medium to large stones with frequent fragments of sandstone, measuring 4m by 1.3m.
- 22. Brick walls (012), (067) and (071) were evident within Trenches 2 and 10. Of particular interest was (067) which formed a square measuring 2.2m by 2m around a concrete base (069). From the north and south sides of the square the wall extended to the west outwith the trench. Between these extensions and the concrete base was a black humic silt, rich with large roots (070). There was also a sandstone wall (009) that was exposed within Trenches 1 and 2.
- 23. Modern service trenches (022), (024), (027) and (033) were exposed in Trench 3. Demolition rubble consisting of red brick CBM, clinker and sandstone fragments was evident within Trenches 4, 6, 7 and 12. An area of made ground/infill was present within Trench 7 consisting of rounded smooth medium sized stones (060) and demolition rubble (062). Industrial waste was also evident in the form of clinker and coke/coal.

#### Discussion

- 24. No significant archaeological remains were uncovered in the course of the archaeological works. All potential archaeological features were investigated but all features related to the nineteenth and twentieth century known use of the site as a walled garden and nursery. In particular (067) and (069) appears to be the base of a greenhouse with rich humic garden soil present (070). The level of drainage present on site is also what would be expected for a walled garden. The presence of industrial waste on site in the form of clinker was interpreted on site as cinder paths or areas of hard standing. It was common practise until recent years to use clinker for this purpose, as when laid and rolled it forms a hard, rough surface.
- 25. Demolition rubble present is most likely due to the removal of structures, greenhouses, present within the walled garden that are depicted on the 1<sup>st</sup> to 4<sup>th</sup> editions of the Ordnance Survey maps. The soil profile observed within the evaluation trenches is of interest as it appeared to be a natural profile (i.e. one that evolved naturally over time) rather than the deep soil of a garden which has had material introduced regularly over time to fertilize the soil. From this it would seem that the activities in the garden were focused on the greenhouses built within and around the walled garden. With little or no deepening of soils (i.e. intensive market gardening) occurring elsewhere within the walled garden.

#### Recommendations

- 26. No significant archaeological remains were located within the development area and the only anthropic material observed suggested modern (19<sup>th</sup> and 20<sup>th</sup> century) use of the site.
- 27. On balance, given the lack of significant archaeological material recovered in the course of the evaluation works, Rathmell Archaeology Ltd recommends that no further archaeological work be carried out within this development area. While we recognise that it was not possible to fully assess the eastern margin, the absolute absence of significant material and features in all other aspects of the evaluation suggest that the potential for the made ground is negligible.
- 28. The appropriateness and acceptability of our recommendations rest with South Lanarkshire Council and their advisors, West of Scotland Archaeology Service.

#### Conclusion

- 29. A programme of archaeological works was required by Stay Home Construction Ltd in respect to proposed residential development on land at Mauldslie Castle Nurseries, Carluke (NS 8084 5004). The archaeological works were designed to mitigate the impact on the archaeological remains within the development area.
- 30. The monitoring of Site Investigation works informed the development of an evaluation works that investigated an 8% sample of the proposed development area. All of the trenches excavated reached archaeologically sterile natural soil and all potential archaeological features were examined. No significant archaeological remains were located within the development area and no anthropic material was recovered other then would suggest activities due to the modern use of the site as a walled garden.

#### References

### Documentary

RCAHMS	2009	Pastmap Database
Rees, T	2010	<i>`Mauldslie Castle Nurseries, Carluke: Archaeological Mitigation'</i> Written Scheme of Investigation
SOEnv	1994	Planning Advice Note 42, Archaeology, Scottish Office Environmental Department.

#### Web Based

'RCAHMS Pastmap Database' [online], Available:http://jura.rcahms.gov.uk/PASTMAP/start.jsp [June 2011]

#### Cartographic

Roy, William	1747-55	Roy's Military Survey of Scotland
Ordnance Survey	1856-59	1 <sup>st</sup> Edition Lanarkshire
Ordnance Survey	1892-97	2 <sup>nd</sup> Edition Lanarkshire
Ordnance Survey	1908-11	3 <sup>rd</sup> Edition Lanarkshire
Ordnance Survey	1930-1949	4 <sup>th</sup> Edition Lanarkshire

## Appendix 1: Registers for Monitoring Works

Within this appendix are all registers pertaining to works on-site regardless of the process by which that information was gathered (e.g. evaluation or strip, map & sample).

#### Context Register

Context No.	Area/ Trench	Туре	Description	Interpretation
101	TP1	Topsoil	Moderately compacted dark grey brown silty clay. 750mm deep.	Topsoil
102	TP2	Subsoil	Compact orange silty clay.	Subsoil
201	TP2	Topsoil	Compact dark grey brown silty clay with frequent roots. 350mm deep.	Topsoil
202	TP2	Subsoil	Compact mid orange silty clay.	Subsoil
203	TP2	Feature	Stone drain/culvert visible in E facing section. Located 1.5m below the surface running roughly N-S. Appeared to be surrounded by grey silty clay.	Drain/culvert appears to run from a channel of water and culvert which is located further N, to the E of the access road
301	TP3	Topsoil	Moderately compacted dark grey brown silty clay. 400mm deep.	Topsoil
302	TP3	Subsoil	Loose mid orange sand and fine gravel. Approx. 1m deep.	Subsoil
303	TP3	Subsoil	Compact orange silty clay.	Subsoil
401	TP4	Topsoil	Moderately compacted dark grey brown silty clay. 400mm deep.	Topsoil
402	TP4	Subsoil	Loose mid orange sand.	Subsoil
403	TP4	Subsoil	Compact orange silty clay. 1m deep.	Subsoil
404	TP4	Subsoil	Rocks just visible at base of test pit although unclear due to collapsing sides. Either a rockier subsoil or possibly bedrock.	Subsoil
501	TP5	Topsoil	Compact very dark grey brown silty clay with frequent roots. 250mm deep.	Topsoil
502	TP5	Subsoil	Compact dark orange silty sandy clay with frequent small-medium sized stones and manganese inclusions. 1.35m deep.	Subsoil
503	TP5	Subsoil	Loose mid orange sandy gravel. 0.5m deep.	Subsoil
504	TP5	Subsoil	Compact dark grey very silty clay.	Subsoil

Context No.			Description	Interpretation
601	TP6	Topsoil	Moderately compacted dark grey brown silty clay. 600mm deep.	Topsoil
602	TP6	Subsoil	Loose mid orange sand. 250mm deep.	Subsoil
603	TP6	Subsoil	Loose mid orange gravel in sand matrix.	Subsoil
701	P1	Topsoil	Compact dark grey brown silty clay with frequent roots. 400mm deep.	Topsoil
702	P1	Deposit	Thin layer of dark grey/black fine gravel sitting just below the topsoil (701). 100mm deep.	Possible modern deposit
703	P1	Subsoil	Compact mid orange brown silty clay. 250mm deep.	Subsoil
704	P1	Subsoil	Loose mid orange sandy fine gravel.	Subsoil
801	P2	Topsoil	Compact dark brown silty claywith some roots and stones. 600mm deep.	Topsoil
802	P2	Subsoil	Compact mid orange very silty clay.	Subsoil
901	P3	Topsoil	Compact dark brown silty clay with frequent roots. 260mm deep.	Topsoil
902	P3	Subsoil	Compact mid brown orange silty sandy clay with some small stones.	Subsoil

## Photographic Register

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.				
1	-	-	-	-	1	Shot of access road into site	S	18/03/10
2	-	-	-	-	2	General shots towards site from access road with structures still standing in NW corner	NW	18/03/10
3	-	-	-	-	3	General shots towards site from access road with structures still standing in NW corner	NW	18/03/10

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.				
4	-	-	-	-	4	General shots towards site from access road	N	18/03/10
5	-	-	-	-	5	Shot of buildings still standing in NW corner	NW	18/03/10
6	-	-	-	-	6	Shot of buildings still standing in NW corner	SW	18/03/10
7	-	-	-	-	7	Shot of trees to W of walled garden	N	18/03/10
8	-	-	-	-	8	Shot of trees to W of walled garden	N	18/03/10
9	-	-	-	-	9	Shot of structure to W of walled garden	SW	18/03/10
10	-	-	-	-	10	Shot along exterior of S wall of walled garden	W	18/03/10
11	-	-	-	-	11	Shot along exterior of E wall of walled garden	S	18/03/10
12	-	-	-	-	12	Shot along exterior of E wall of walled garden (further N)	S	18/03/10
13	-	-	-	-	13	Interior of walled garden from SE corner (S end)	Е	18/03/10
14	-	-	-	-	14	Interior of walled garden from SE corner (structures and trees in centre)	SE	18/03/10
15	-	-	-	-	15	Shot along exterior of W wall of walled garden	S	18/03/10
16	-	-	-	-	16	TP2 – working shot	SE	18/03/10
17	-	-	-	-	17	TP2 – working shot	SE	18/03/10
18	-	-	-	-	18	TP2 – general shot	SE	18/03/10
19	-	-	-	-	19	TP2 – shot of drain 103	Е	18/03/10
20	-	-	-	-	20	TP2 – S facing section	SE	18/03/10
21	-	-	-	-	21	TP2 – E facing section	Е	18/03/10
22	-	-	-	-	22	Walled garden – structures in centre	NW	18/03/10
23	-	-	-	-	23	Walled garden – structures in NW corner	SE	18/03/10
24	-	-	-	-	24	Walled garden – structures in NW corner	SE	18/03/10
25	-	-	-	-	25	Walled garden – structures to NE corner	SW	18/03/10
26	-	-	-	-	26	Walled garden – general shots from NE corner	NE	18/03/10

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.				
27	-	-	-	-	27	Walled garden – general shots from NE corner	NE	18/03/10
28	-	-	-	-	28	Walled garden – general shots from NE corner	N	18/03/10
29	-	-	-	-	29	TP1 – working shot	NW	18/03/10
30	-	-	-	-	30	TP1 –W facing section	NW	18/03/10
31	-	-	-	-	31	TP1 – general shot	N	18/03/10
32	-	-	-	-	32	TP3 – working shot	S	18/03/10
33	-	-	-	-	33	TP3 – working shot	SE	18/03/10
34	-	-	-	-	34	TP3 – working shot	SW	18/03/10
35	-	-	-	-	35	TP3 – general shot	SW	18/03/10
36	-	-	-	-	36	TP3 – SE facing section	S	18/03/10
37	-	-	-	-	37	Walled garden – general shots from SE corner	S	18/03/10
38	-	-	-	-	38	Walled garden – general shots from SE corner	SE	18/03/10
39	-	-	-	-	39	Walled garden – general shots from SE corner	Е	18/03/10
40	-	-	-	-	40	TP4 – working shot	Е	18/03/10
41	-	-	-	-	41	TP4 – working shot	SE	18/03/10
42	-	-	-	-	42	TP4 – general shot	SE	18/03/10
43	-	-	-	-	43	TP4 – NE facing section	ESE	18/03/10
44	-	-	-	-	44	Walled garden – central structures: sunken channel in interior of southern structure	Е	18/03/10
45	-	-	-	-	45	Walled garden – central structures: sunken channel in interior of southern structure	Е	18/03/10
46	-	-	-	-	46	Walled garden – central structures: shot of stairway down, to E of southern structure	Е	18/03/10
47	-	-	-	-	47	Walled garden – central structures: shot of stairway down, to E of southern structure	E	18/03/10

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.				
48	-	-	-	-	48	Walled garden – central structures: shot of stairway down, to E of southern structure	E	18/03/10
49	-	-	-	-	49	Walled garden – central structures: shot of stairway down, to E of southern structure	NE	18/03/10
50	-	-	-	-	50	Walled garden – shot of N part of central structures	ESE	18/03/10
51	-	-	-	-	51	Walled garden – shot of central structures	N	18/03/10
52	-	-	-	-	52	Walled garden – shot of central structures	NE	18/03/10
53	-	-	-	-	53	Walled garden – shot of central structures	N	18/03/10
54	-	-	-	-	54	Walled garden – shots of NE corner	S	18/03/10
55	-	-	-	-	55	Walled garden – shots of NE corner	SE	18/03/10
56	-	-	-	-	56	Walled garden – shots of N end	ESE	18/03/10
57	-	-	-	-	57	TP6 – working shot	WNW	18/03/10
58	-	-	-	-	58	TP6 – general shot	NW	18/03/10
59	-	-	-	-	59	TP6 – NE facing section	N	18/03/10
60	-	-	-	-	60	TP5 – working shot	NW	18/03/10
61	-	-	-	-	61	TP5 – general shot	N	18/03/10
62	-	-	-	-	62	TP5 – W facing section	NW	18/03/10
63	-	-	-	-	63	P3 – working shot	NNW	18/03/10
64	-	-	-	-	64	P3 – General shot (mid ex)	NNW	18/03/10
65	-	-	-	-	65	P3 – General shot (mid ex)	NW	18/03/10
66	-	-	-	-	66	P3 – working shot: hand digging drainage test hole	N	18/03/10
67	-	-	-	-	67	P3 – working shot: hand digging drainage test hole	N	18/03/10
68	-	-	-	-	68	P3 – working shot: waiting for drainage	N	18/03/10
69	-	-	-	-	69	P3 – E facing section	ENE	18/03/10

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.				
70	-	-	-	-	70	P3 – general shot	N	18/03/10
71	-	-	-	-	71	Bat house	E	18/03/10
72	-	-	-	-	72	Walled garden – W half	SSE	18/03/10
73	-	-	-	-	73	P2 – W facing section	W	18/03/10
74	-	-	-	-	74	P2 – general shot	S	18/03/10
75	-	-	-	-	75	Walled garden – general shot of central structures	SW	18/03/10
76	-	-	-	-	76	Walled garden – general shot of central structures	NW	18/03/10
77	-	-	-	-	77	P1 – working shot	NNW	18/03/10
78	-	-	-	-	78	P1 – working shot	NNW	18/03/10
79	-	-	-	-	79	P1 – W facing section	NW	18/03/10
80	-	-	-	-	80	P1 – general shot	N	18/03/10
81	-	-	-	-	81	Walled garden – area in NW corner	W	18/03/10
82	-	-	-	-	82	Shot of culvert to E of access road	N	18/03/10
83	-	-	-	-	83	Shot of culvert to E of access road	N	18/03/10

## Appendix 2: 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. See Figure 3 for trench locations.

Trench	Orientation	Size	Topsoil Subsoil Character Depth		Modern/ Agricultural Features	Significant Features	Artefacts
1	North to South	90m to sand, sandy clay, clay sand with rare to frequent small to medium sized stone inclusions and occasional to frequent roots present (001)-(008), (010)		Yellow sandstone block wall (009) at +51.7m	None	None	
2	South to North	2m by 59m 118m <sup>2</sup>	490mm to 650mm	Brown orange occasionally brown grey sandy clay with rare to frequent small to medium sized stone inclusions and occasional to frequent roots present (007),(014) and (015)	Yellow sandstone block wall (009) at +17.7m, Red brick wall (012) at +21m, modern pit [016] at +42.2m	None	None
3	North to South	2m by 68.4m 136.8m <sup>2</sup>	370mm to 560mm	Brown orange occasionally brown grey sandy clay with rare to frequent small to medium sized stone inclusions and occasional to frequent roots present (004), (008), (015), (019)	Electric service trench [024] ay +0m, service trench [022] at +15.5m, possible sandstone wall (025) at +19.2m, Field Drains [029], [031] at +26.8m, service trenches at +26m, +33m, Field drain [035] at +56.7m	None	None
4	Northeast to Southwest  2m by 41.6m 41.6m 400mm to occasional manganese, roots and small to medium sized rounded stones inclusion (005), (019)		Demolition layer (014) at +3.6m and +6.6m	None	None		
5	North-north- east to South- south- west	2m by 38m 76m²	350mm to 500mm	Mid Brown orange sandy clay frequent roots and occasional very small to medium stone inclusions (004), (019)	Field Drain [039], [040], [043] at +21.2m, +22.2m, +24.2m	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
6	West to East	48.7m to and occasional very small to medium stone inclusions (004), (006), Orange clay sand with occasional manganese and occasional small stone inclusions (008)		stone inclusions (004), (006), Orange clay sand with occasional manganese and occasional small stone inclusions	Demolition layer (044) at +4.6m; Area of crushed coal/coke (049) at +24.2m	None	None
7	East to West	2m by 47.2m 94.4m <sup>2</sup>	500mm to 700mm	Brown orange sandy clay frequent roots and occasional very small to medium stone inclusions (004), Orange sandy clay with occasional manganese present and rare small to medium sized stones (019)(054), Small to large rounded stones in a light to mid brown silt clay matrix (060)	Demolition layer (052), at +2.1m; Demolition layer (053) at +2.1m, +21.1m, +43.5m; Modern disturbance [056] +9m; Drain [059] at +10m; made ground (060), (062) at +13.7m	None	None
8	North Northeast – South Southwest	2m by 36.4m 72.8m <sup>2</sup>	460mm to 550mm	Light brown orange sand clay with occasional small to medium rounded and angular stone inclusions (063)	None	None	None
9	North Northeast – South Southwest	2m by 6.1m 12.2m <sup>2</sup>	420mm	Light brown orange sand clay with occasional small to medium rounded and angular stone inclusions (063). Dark brown grey gravel sand with very frequent rounded small to medium stone inclusions (064)	None	None	None
10	North Northeast – South Southwest	2m by 84.4m 168.8m²	350mm to 650mm	Small to large rounded stones in a light to mid brown silt clay matrix (060), Light brown orange sand clay with occasional small to medium rounded and angular stone inclusions (063)	Industrial waste (065) at +0.7m, Possible greenhouse wall base (067) with concrete base (069) at +10.6m, red brick wall (071) at +13.5m, Field drains [072], [075] at +23.5m & +25m	None	None
11	North Northeast –	2m by	350mm to	Light brown orange sand clay with occasional small to medium rounded	Red tile drain [079] & [082] present at 2.8m &	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
	South Southwest	31m 62m²	480mm	and angular stone inclusions (063); Mid light brown sand clay frequent small roots, occasional small to medium stone inclusions (082)	+27m respectively		
12	North - South	2m by 22m 44m²	270mm to 650mm	Mid light brown sand clay frequent small roots, occasional small to medium stone inclusions (082)	Demolition Layer (083) at +2.2m, concrete base at +3.9m, modern disturbance at +9.3m	None	None

## Appendix 3: Registers for Evaluation

Within this appendix are all registers pertaining to works on-site regardless of the process by which that information was gathered (e.g. evaluation or strip, map & sample).

### Context Register:

Context No.	Area/ Trench	Туре	Description	Interpretation
001		Subsoil	Light Mid Brown Sand very frequent small stones and frequent rounded medium sized stones inclusions	Subsoil
002		Subsoil	Mid dark brown sand clay, very frequent small stone and frequent rounded medium sized stone inclusions	Subsoil
003		Subsoil	Light brown sand frequent small stones inclusions, occasional roots with occasional patches of sandy clay with Manganese	Subsoil
004		Subsoil	Mid Brown orange sandy clay frequent roots and occasional very small to medium stone inclusions.	Subsoil
005		Subsoil	Light Brown orange sandy clay with occasional manganese, roots and small to medium sized rounded stones inclusion	Subsoil
006		Subsoil	Light Brown orange clay sand with rare roots occasional manganese and rare small stone inclusions	Subsoil
007		Subsoil	Mid Brown orange sand clay with frequent small to medium stone, occasional large stone inclusions, and occasional manganese and roots	Subsoil
008		Subsoil	Orange clay sand with occasional manganese and occasional small stone inclusions	Subsoil
009	TR1 & 2	Wall	Linear feature of sand stone block aligned Northwest to Southeast	Wall
010		Subsoil	Very light orange sand with very frequent stone flecks and small stones, occasional large stones and rare root inclusions	Subsoil
011		Topsoil	Mid dark brown silty clay, very frequent roots, occasional small to medium sized stone inclusions, occasional CBM and rare large stone inclusions	Topsoil

Context No.	Area/ Trench	Туре	Description	Interpretation
012		Wall	Linear feature of red brick aligned NW-SE single course high and double skin	Modern wall
013		Deposit	Area of degraded red brick	Demolition?
014		Deposit	Grey mid brown clay sand with very frequent stone flecks and small to medium sized stone, frequent coal, charcoal, ash, CBM, sandstone fragments and glass shard inclusions	Modern demolition layer
015		Subsoil	Mid Brown orange sand clay with occasional roots, small to medium sized stones, manganese inclusions	Subsoil
016		Cut	Irregular oval in plan measuring 1m by 0.7m in size	Modern Pit
017		Fill	Dark Brown silty clay with occasional small stone, modern white glaze pottery, glass shard inclusions	Fill of [016]
018		Deposit	Sub rectangular area of degraded sandstone fragments	Modern demolition
019		Subsoil	Mid brown orange clay sand frequent small to large roots present and very frequent small stone inclusion	Subsoil
020		Fill	Mid Brown gray clay sand with frequent small-medium stone inclusions, frequent medium sized roots present with metal pipe (021) within the fill	Fill of service trench
021		Pipe	Metal possibly lead pipe	Modern service
022		Cut	Linear feature, aligned West to East 0.80 wide	Service trench
023		Fill	Mid Brown gray clay sand with frequent small-medium stone inclusions, frequent medium sized roots present with electric cable within the fill	Fill of Modern Service trench
024		Cut	Linear feature aligned NNW-SSE 0.4m wide	Service trench
025		Wall	Linear feature aligned NNW-SSE with sandstone blocks	Possible remains of a sandstone wall
026		Fill	Mid Brown gray clay sand with frequent small-medium stone inclusions, frequent medium sized roots present with metal pipe within the fill	Fill of Service trench
027		Cut	Linear feature aligned NNE-SSW 0.4m wide	Modern Service trench

Context No.	Area/ Trench	Туре	Description	Interpretation
028		Fill	Mid brown gray clay sand with frequent small-medium stone inclusions, frequent medium sized roots	Fill of Possible Rubble Drain
029		Cut	Linear feature aligned NNW-SSE 0.4m wide	Possible Rubble Drain
030		Fill	Mid brown gray clay sand with frequent small-medium stone inclusions, frequent medium sized roots present	Fill of Possible Rubble Drain
031		Cut	Linear feature aligned NNW-SSE 0.3m wide	Possible Rubble Drain
032		Fill	Mid brown gray clay sand with frequent small-medium stone inclusions, frequent medium sized roots present with plastic pipe within the fill	Fill of Modern Service
033		Cut	Linear feature aligned NNW-SSE 0.4m wide	Modern Service Trench
034		Fill	Frequent fragments of Sandstone within a grey dark brown clay sand with rare manganese small-medium sized rounded stones	Fill of [035] a probably field drain
035		Cut	Linear feature aligned NW-SE 0.4m wide	Field Drain
036		Cut	Sub oval in plan 3.8m by 1.2m within the trench, 0.15m deep with sloping sides, connected with [035] on its northern edge.	Possible soak away
037		Fill	Rounded and angular medium to large stones, frequent fragments of Sandstone within a grey dark brown clay sand with rare manganese small-medium sized rounded stones	Fill of [036]
038		Fill	Small to large to sandstone fragments with a dark brown clay sand matrix.	Fill of [039]
039		Cut	Linear feature aligned E-W 0.9m wide	Rubble Drain
040		Cut	Linear feature aligned E-W 0.3m wide	Field Drain
041		Fill	Small to large to sandstone fragments with a dark brown clay sand matrix. With a red clay tile drain present	Fill of [040]
042		Fill	Small to large to sandstone fragments with a dark brown clay sand matrix.	Fill of [043]
043		Cut	Linear feature aligned NE-SW measuring 0.4m wide	Rubble Drain
044		Deposit	CBM and sandstone fragments in a grey dark brown silty clay	Demolition rubble

Context No.	Area/ Trench	Туре	Description	Interpretation
			matrix	
045	TR6	R6 Topsoil Dark brown grey clay sand with rounded and angular small to large stone inclusions, frequent CBM fragments, sandstone fragments and small to medium sized roots		Topsoil
046	TR6	Deposit	Mixed light and dark brown sandy clay matrix in building detritus	Demolition layer
047	TR6	Deposit	Clinker	Clinker
048		Subsoil	Small to medium sized rounded stones in a mid brown clay sand matrix	Subsoil
049		Deposit	Small area crushed black coal/coke	Industrial waste
050		Deposit	Yellow sand with frequent CBM, coal and coke inclusions	Possible Foundation Layer
051		Topsoil	Crushed Red Brick CBM, Clinker and mid brown sand clay with frequent small to medium stone inclusions	Topsoil
052		Deposit	Small to Large sandstone pieces, red brick CBM fragments and small to large angular stones in dark brown sand clay matrix	Demolition rubble
053		Deposit	CBM, clinker, small to medium sized rounded and angular stones with a dark brown black silty clay matrix	Demolition rubble
054		Subsoil	Orange sandy clay with occasional manganese present and rare small to medium sized stones	Subsoil
055		Fill	Mixed Clinker, coal/coke and CBM fragments	Fill of [056]
056		Cut	Linear feature aligned ESE-WNW 4.1m long and 0.4m wide	Possible foundation for a wall
057		Deposit	Mix sandstone fragments and small to medium sized stones in dark brown black silt clay matrix	Possible demolition rubble
058		Cut		Possible Soakaway
059		Cut	Linear feature aligned ESE-WNW 2.1m long and 0.3m wide filled with (057)	Rubble drain
060		Deposit	Small to large rounded stones in a light to mid brown silt clay matrix	Subsoil

Context No.	Area/ Trench	Туре	Description	Interpretation
061		Deposit	Light to mid brown silt clay with frequent red brick CBM fragments, charcoal and occasional small to medium sized stones	Modern disturbance
062		Deposit	Small to large rounded stones in a light to mid brown silt clay matrix with very frequent red brick CBM and small to large sandstone fragments	Made Ground
063		Subsoil	Light brown orange sand clay with occasional small to medium rounded and angular stone inclusions	Subsoil
064		Subsoil	Dark brown grey gravel sand with very frequent rounded small to medium stone inclusions	Subsoil
065		Deposit	Semi circular black crushed coal/coke measuring 1.2m by 0.8m	Modern disturbance
066		Topsoil	Black clinker 0.3m deep	Topsoil, possible clinker beaten path
067		Wall	Square red brick structure single course high and one brick wide 2.2m by 2m	Base for green house
068		Deposit	Clinker and red brick fragments within a dark brown silt clay matrix.	Demolition layer
069		Deposit	Grey concrete base 1.8m by 1.3m surrounded on all sides by (067).	Concrete base
070		Deposit	Black humic silt with frequent large roots.	Greenhouse soil
071		Wall	Red brick wall two courses high and three bricks wide measuring 1.6m long and 0.3m wide	Modern wall
072		Cut	Linear feature aligned NE-SW measuring 3m long and 0.3m wide with a ceramic drain pipe present within its fill (073)	Drain
073		Fill	Dark brown black silt clay with frequent small-medium sized stones and CBM fragment inclusions	Fill of [072]
074		Fill	Dark brown black silt clay and ceramic drain	Fill of [075]
075		Cut	Linear feature aligned E-W 2.6m long and 0.2m wide	Drain
076		Deposit	Black humic soil with frequent red brick fragments and small roots	Modern pit

Context No.	Trench		Description	Interpretation
077		Topsoil	Clinker with dark brown silt clay with very frequent small roots and occasional small and medium stones	Topsoil
078		Fill	Clinker with a red clay drain covered in some concrete slabs for last 10m	Fill of [079]
079		Cut	Linear feature NNE-SSW 22.2m long 0.35m wide	Drain
080		Fill	Clinker with ceramic field drain	Fill of [081]
081		Cut	Linear feature aligned N-S 3.6m long and 0.3m wide	Drain
082		Subsoil	Mid light brown sand clay frequent small roots, occasional small to medium stone inclusions	Subsoil
083		Deposit	Red and Yellow brick and clinker in grey dark brown silt clay	Demolition Rubble

## Photographic Register

Image No.	Print		Slide		Digital	Description	From	Date
	Film No.	Neg. No.	Film No.	Neg. No.				
1	-	-	-	-	1	General Shot	WNW	25/05/11
2	-	-	-	-	2	General Shot	NW	25/05/11
3	-	-	-	-	3	General Shot	NW	25/05/11
4	-	-	-	-	4	General Shot	N	25/05/11
5	-	-	-	-	5	General Shot	NE	25/05/11
6	-	-	-	-	6	General Shot	WSW	25/05/11
7	-	-	-	-	7	General Shot	W	25/05/11
8	-	-	-	-	8	General Shot	NW	25/05/11
9	-	-	-	-	9	General Shot	NE	25/05/11
10	-	-	-	-	10	General Shot	WNW	25/05/11

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.	1			
11	-	-	-	-	11	General Shot	NW	25/05/11
12	-	-	-	-	12	General Shot	NW	25/05/11
13	-	-	-	-	13	General Shot	N	25/05/11
14	-	-	-	-	14	General Shot	SSE	25/05/11
15	-	-	-	-	15	General Shot	SSE	25/05/11
16	-	-	-	-	16	General Shot	S	25/05/11
17	-	-	-	-	17	General Shot	S	25/05/11
18	1	1	1	021	18	Trench 1 North End	N	25/05/11
19	1	2	1	022	19	Trench 1 North End	S	25/05/11
20	1	3	1	023	20	Trench 1 South End	N	25/05/11
21	1	4	1	024	21	Trench 1 South End	S	25/05/11
22	1	5	-	-	22	Trench 2 North End and Middle	SSE	25/05/11
23	1	6	-	-	23	Trench 2 Middle and South End	N	25/05/11
24	1	7	-	-	24	Trench 2 Middle and North End	S	25/05/11
25	1	8	-	-	25	Trench 2 North End	NNW	25/05/11
26	1	9	-	-	26	Trench Three	SSW	26/05/11
27	1	10	-	-	27	Trench Three Middle and South End	ENE	26/05/11
28	1	11	-	-	28	Trench North End	NNW	26/05/11
29	1	12	1	025	29	Trench 4	NE	26/05/11
30	1	13	1	026	30	Trench 4	SW	26/05/11
31	1	14	-	-	31	Trench 5	NNE	26/05/11
32	1	15	-	-	32	Trench 5	SSW	26/05/11
33	1	16	-	-	33	Trench 6	W	26/05/11

Image	Print		Slide		Digital	Description	From	Date
No.	Film No.	Neg. No.	Film No.	Neg. No.				
34	1	17	-	-	34	Trench 6	E	26/05/11
35	1	18	1	027	35	Trench 7	E	26/05/11
36	1	19	1	028	36	Trench 7	W	26/05/11
37	1	20	-	-	37	Trench 8 North Northeast end	NNE	26/05/11
38	1	21	-	-	38	Trench 8	NNE	26/05/11
39	1	22	-	-	39	Trench 8	SSW	26/05/11
40	1	23	-	-	40	Trench 9	SSW	26/05/11
41	1	24	-	-	41	Trench 9	NNE	26/05/11
42	1	25	-	-	42	Trench 10 South End	SSW	26/05/11
43	1	26	-	-	43	Trench 10 South End	NNE	26/05/11
44	1	27	-	-	44	Trench 10 North End	SSW	26/05/11
45	1	28	-	-	45	Trench 10 South End	NNE	26/05/11
46	1	29	-	-	46	Trench 11 North End	NNW	26/05/11
47	-	-	-	-	47	Trench 11	NNW	26/05/11
48	1	30	-	-	48	Trench 11	SSE	26/05/11
49	1	31	-	-	49	Trench 12	NNW	26/05/11
50	1	32	-	-	50	Trench 12	SSE	26/05/11

## Drawing Register

Drawing No.	Sheet No.	Area/ Trench	Drawing Type	Scale	Description	Drawer	Date
1	1	1	Plan	1:100	Trench 1	DiG	25/05/11

Drawing No.	Sheet No.	Area/ Trench	Drawing Type	Scale	Description	Drawer	Date
2	1	2	Plan	1:100	Trench 2	DiG	25/05/11
3	1	3	Plan	1:100	Trench 3	DiG	25/05/11
4	2	4	Plan	1:100	Trench 4	DiG	25/05/11
5	2	5	Plan	1:100	Trench 5	DiG	25/05/11
6	2	6	Plan	1:100	Trench 6	DiG	25/05/11
7	2	7	Plan	1:100	Trench 7	DiG	26/05/11
8	2	8	Plan	1:100	Trench 8	DiG	26/05/11
9	2	9	Plan	1:100	Trench 9	DiG	26/05/11
10	3	10	Plan	1:100	Trench 10	DiG	26/05/11
11	3	11	Plan	1:100	Trench 11	DiG	26/05/11
12	3	12	Plan	1:100	Trench 12	DiG	26/05/11

# Appendix 3: Discovery & Excavation in Scotland

LOCAL AUTHORITY:	South Lanarkshire Council			
PROJECT TITLE/SITE	Mauldslie Castle Nurseries			
NAME:	Madiusile Castle Mulseries			
PROJECT CODE:	RA10004			
PARISH:	Carluke			
NAME OF CONTRIBUTOR:	Douglas Gordon			
NAME OF ORGANISATION:	Rathmell Archaeology Limited			
TYPE(S) OF PROJECT:	Monitoring, Evaluation			
NMRS NO(S):	Mauldslie Church (Canmore NS85 SW.3); Haugh Hill Burial Ground (Canmore NS85SW.56.3)			
SITE/MONUMENT TYPE(S):	Walled Garden			
SIGNIFICANT FINDS:	None			
NGR (2 letters, 8 or 10 figures)	NS 8084 5004			
START DATE (this season)	18 <sup>th</sup> March 2010			
END DATE (this season)	26 <sup>th</sup> May 2011			
PREVIOUS WORK (incl. DES ref.)	None			
MAIN (NARRATIVE) DESCRIPTION: (may include information from other fields)	A programme of archaeological works was required by Stay Home Construction Ltd in respect to proposed residential development on land at Mauldslie Castle Nurseries, Carluke (NS 8084 5004). The archaeological works were designed to mitigate the impact on the archaeological remains within the development area.			
	The monitoring of Site Investigation works informed the development of an evaluation works that investigated an 8% sample of the proposed development area. All of the trenches excavated reached archaeologically sterile natural soil and all potential archaeological features were examined. No significant archaeological remains were located within the development area and no anthropic material was recovered other then would suggest activities due to the modern use of the site as a walled garden.			
PROPOSED FUTURE WORK:	None			
CAPTION(S) FOR ILLUSTRS:	None			
SPONSOR OR FUNDING BODY:	Stay Home Construction Ltd			
ADDRESS OF MAIN CONTRIBUTOR:	Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU			
E MAIL:	contact@rathmell-arch.co.uk			
ARCHIVE LOCATION (intended/deposited)	Report to West of Scotland Archaeology Service and archive to RCAHMS Collections.			

#### Contact Details

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

Rathmell Archaeology Ltd Unit 8 Ashgrove Workshops

t.: 01294 542848 f.: 01294 542849

KA13 6PU e.: contact@rathmell-arch.co.uk

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

West of Scotland Archaeology Service

Charing Cross Complex

20 India Street

Glasgow G2 4PF

Kilwinning

Ayrshire

www.wosas.org.uk

t.: 0141 287 8332/3 f.: 0141 287 9259

www.rathmell-arch.co.uk

e.: enquiries@wosas.glasgow.gov.uk

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