

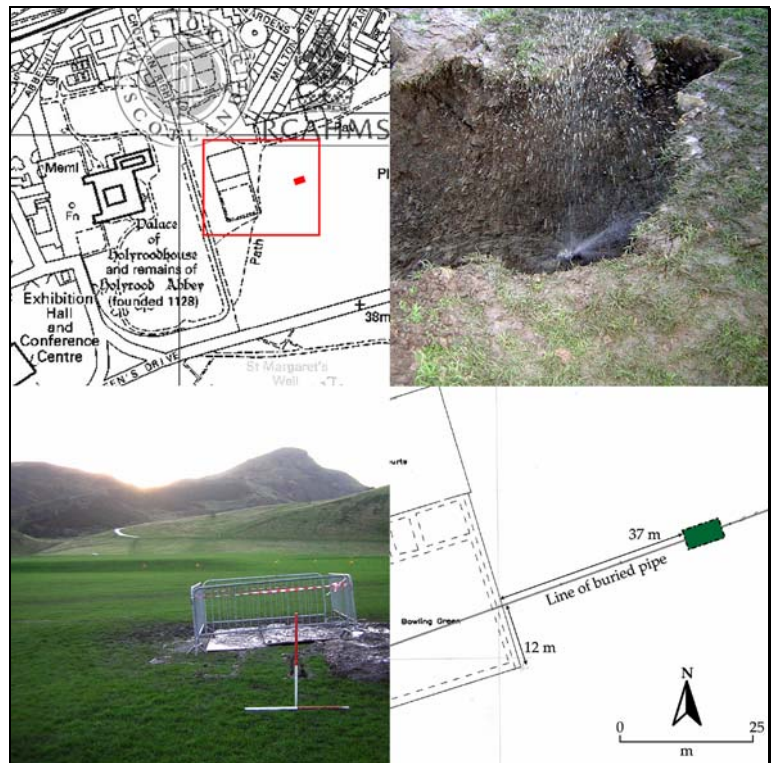
Discovery and Excavation in Scotland – OASIS-type Form (2006)

LOCAL AUTHORITY:	Edinburgh, City Of
PROJECT TITLE/SITE NAME:	Holyrood Park
PROJECT CODE:	HSCO-90131-2007-01
PARISH:	Edinburgh, City Of
NAME OF CONTRIBUTOR:	Sarah Hogg
NAME OF ORGANISATION:	Kirkdale Archaeology
TYPE(S) OF PROJECT:	Watching brief
NMRS NO(S):	NT27SE 197
SITE/MONUMENT TYPE(S):	Watching brief
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NT 271 739
START DATE (this season)	9 January 2007
END DATE (this season)	10 January 2007
PREVIOUS WORK (incl. DES ref.)	
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	A watching brief was maintained during the excavation of a trench to locate and repair a burst water main in Holyrood Park, near the tennis courts and bowling green just east of the enclosed grounds of the Palace of Holyroodhouse. The cast iron pipe was found at a depth of c 1.65 m and the damaged section was removed and replaced. There were no finds or features of archaeological significance.
PROPOSED FUTURE WORK:	
CAPTION(S) FOR ILLUSTRS:	
SPONSOR OR FUNDING BODY:	Historic Scotland
ADDRESS OF MAIN CONTRIBUTOR:	4, Western Terrace, Edinburgh, EH12 5QF
EMAIL ADDRESS:	g_ewart@hotmail.com
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS

Historic Scotland
Properties in Care
Minor Archaeological Works 2007

Holyrood Park: Archaeological Monitoring, January 2007

HS PIC Index number: 90131
Project code: HSCO-90131-2007-01



12 March 2007
Kirkdale Archaeology

<u>Site</u>	Holyrood Park
<u>N.G.R</u>	NT 271 739
<u>Project Description</u>	Archaeological monitoring
<u>Project code</u>	HSCO-90131-2007-01

Contents

1.0 Introduction	1
2.0 Description	1
3.0 Interpretation and observations	3
A1.0 Appendix 1: List of contexts	4
A2.0 Appendix 2: List of drawings	4
A3.0 Appendix 3: List of photographs	4
A4.0 Appendix 4: List of finds	5
A5.0 Appendix 5: Archival references	6

SUMMARY: A watching brief was maintained during the excavation of a trench to locate and repair a burst water main in Holyrood Park, near the tennis courts and bowling green just east of the enclosed grounds of the Palace of Holyroodhouse. The cast iron pipe was found at a depth of c 1.65 m and the damaged section was removed and replaced. There were no finds or features of archaeological significance.

1.0 INTRODUCTION

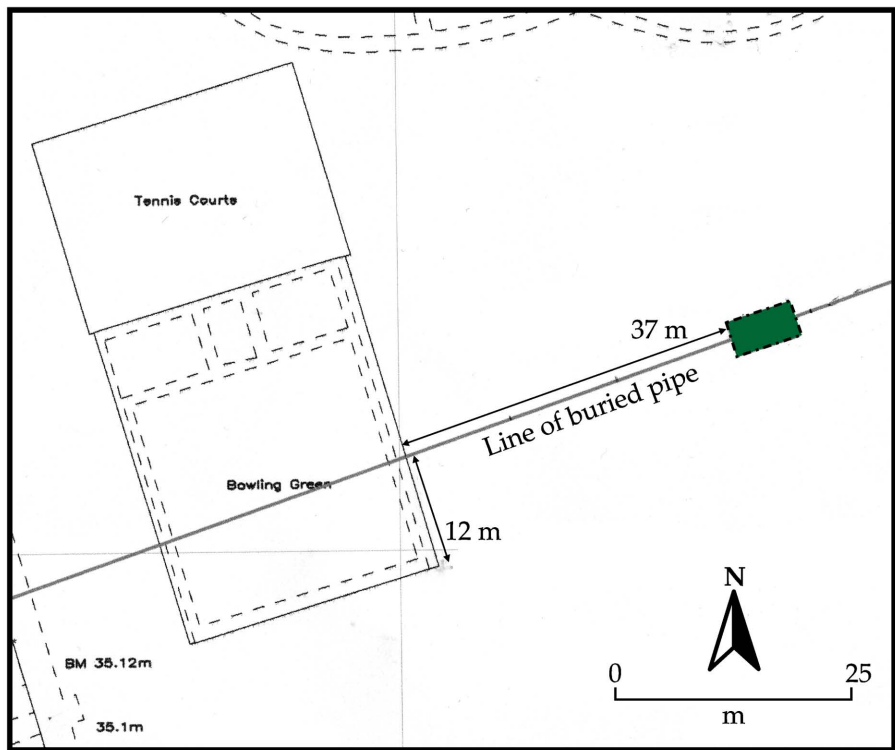
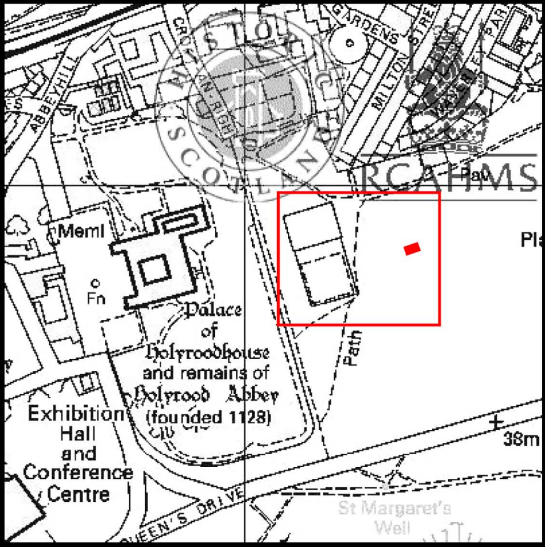
Under the terms of its call-off contract with Historic Scotland, Kirkdale Archaeology was asked to undertake a short period of archaeological monitoring during the excavation of a trench to locate and repair a burst water main in Holyrood Park, near the tennis courts and bowling green just east of the enclosed grounds of the Palace of Holyroodhouse.

The work was undertaken on 9& 10 January 2007.

2.0 DESCRIPTION

Work had commenced late on the afternoon of the 9 January 2007 with no archaeological supervision resulting in a hole c 1.5 m by 1.5 m by 0.6 m deep. Excavation had stopped when the pipe was not found at the anticipated depth of 2' 6" (c 0.75 m). Work continued the following morning under archaeological supervision. Excavation was carried out using a mechanical digger. The ground condition was extremely wet; the trench was full of water with the sides of the trench continually collapsing. All observations and measurements were made from above, as it was not possible to enter the trench due to health and safety constraints.

Beneath 200 mm-250 mm of turf and topsoil **(101)** was a 1.00 m - 1.20 m thick deposit of mottled, grey/orange brown, silt **(102)**, containing chunks of sandstone and bricks. Beneath this was a mid-brown/grey, silty clay **(107)**, not fully excavated. The top of a 250 mm diameter cast iron pipe **(105)** was located at a depth of approximately 1.65 m. This sat within a cut **(104)** which was not clearly defined and never fully exposed to its base but which appeared to be a 'U'-shaped cut through silty clay **(107)**. This



Key	Depths
	1-100mm
	101-200mm
	201-300mm
	>300mm (< natural)
	Dug to natural

Fig. 1 : Plan (1:800) showing location of excavation

cut had two fills other than the pipe; the first was a brown silt (103) similar to (102) but due to the leak this context was removed as sludge. The second fill was a brick plinth (106) beneath the pipe, one course deep by one course wide, formed from bricks 300 mm long at least (brick may be broken) by 200 mm x 200 mm.

At this point the trench was 1.90 m deep by 2.50 m E-W by 3.60 m N-S. The contractors located a split in the pipe and fitted a collar around the split. However, water continued to leak in to the trench. The trench was then extended to the E in order to locate the second break, 2.00 m deep by 3.30 m E-W by 5.20 m N-S. Once the second break had been located, the contractors decided to remove the section of pipe containing both the first and second leak and replace it with a new plastic section. The removed section of cast iron pipe was left in the trench beside the new pipe.

3.0 INTERPRETATION AND OBSERVATIONS

The pipe was found at a depth of 1.65 m - about twice the anticipated depth. There was no evidence to suggest that the general ground surface has been raised since the pipe was laid (most likely early 20th century or late 18th century) and it can be assumed that the previously recorded depth was incorrect.

There were no finds or features of archaeological significance.

A1.0 APPENDIX 1: LIST OF CONTEXTS

#	Description
101	Turf and topsoil
102	Mixed grey/orange brown silt with chunks of white mortar and bricks.
103	Mixed loose grey/orange brown silt and grit fill of cut 104
104	Cut for pipe 105 filled by 106, 105 and 104.
105	Cast iron pipe in cut 104.
106	Brick pier under cast iron pipe in cut 104
107	Orange/mid brown silty clay under 102, cut by 104.

A2.0 APPENDIX 2: LIST OF DRAWINGS

#	Type	Description	Scale
1	Plan	Scottish Water plan of pipe location, annotated	1:1250

A3.0 APPENDIX 3: LIST OF PHOTOGRAPHS

HSCO-90131-2007-01-CD1

#	Description	From	Date
1	Site of the burst water main.	E	10/01/07
2	Site of the burst water main.	W	10/01/07
3	Site of the burst water main.	W	10/01/07
4	The extent of excavation before archaeological monitoring commenced on the 10/1/07.	NW	10/01/07
5	General shot showing excavation in progress.	W	10/01/07
6	Water pipe 105 exposed.	NW	10/01/07
7	Water pipe 105 exposed showing part of brick pier 106.	E	10/01/07
8	First attempt to fix the leak in pipe 105.	W	10/01/07
9	Section of Brick Pier 106 removed.	/	10/01/07
10	Section of Brick Pier 106 removed.	/	10/01/07
11	Brick from context 102.	/	10/01/07
12	General shot of trench from N.	N	10/01/07
13	General shot of trench from N.	N	10/01/07
14	New leak exposed in pipe 105 to the N of the First leak.	E	10/01/07

#	Description	From	Date
15	Trench extended to the N and widened to expose the new leak.	N	10/01/07
16	More of pipe 105 exposed.	SE	10/01/07
17	Bricked pier 106 under pipe 105.	SE	10/01/07
18	Leaking section of pipe 105 being removed.	SE	10/01/07
19	Leaking section of pipe 105 being removed.	SE	10/01/07
20	Shot possibly showing cut 104 and fill 103 along with silty clay 107.	SE	10/01/07
21	Shot possibly showing cut 104 and fill 103 along with silty clay 107.	SE	10/01/07
22	Shot possibly showing cut 104 and fill 103 along with silty clay 107.	SE	10/01/07
23	New blue pipe is inserted.	E	10/01/07
24	New blue pipe is inserted.	E	10/01/07

A4.0

APPENDIX 4: LIST OF FINDS

Bag No.	Description	Quantity	Ctxt
1202-001	Iron bucket handle	1	102

Site	Holyrood Park
HS PIC Index no	90131
Kirkdale Project no	HSCO-90131-2007-01
Date(s) of site work	9-10 January 2007

Report files submitted on CD:

Report in MS Word	HSCO-90131-2007-01-Report.doc
TIFFs	HSCO-90131-2007-01-Report Fig 1.tif(s)
PDF	HSCO-90131-2007-01-Report.pdf

Other files submitted on CD:

Photo scans	HSCO-90131-2007-01-CD1- 1-24.jpg(s)
--------------------	-------------------------------------