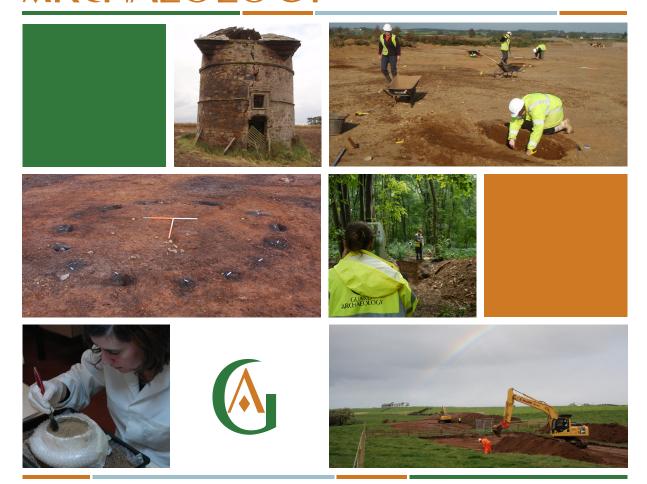
# GUARD ARCHAEOLOGY





Kirtlebridge Marquiss SPS Pipeline Data Structure Report Project 3449

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# **Kirtlebridge Marquiss SPS Pipeline**

## **Data Structure Report**

On behalf of: Scottish Water

**NGR:** NY 2247446

Project Number: 3449

**Report by:** Rowena Thomson

**Illustrations:** Gillian McSwan

**Project Manager:** John Atkinson

Approved by:

Date:

11/10/2012

a. at

This document has been prepared in accordance with GUARD Archaeology Limited standard operating procedures.

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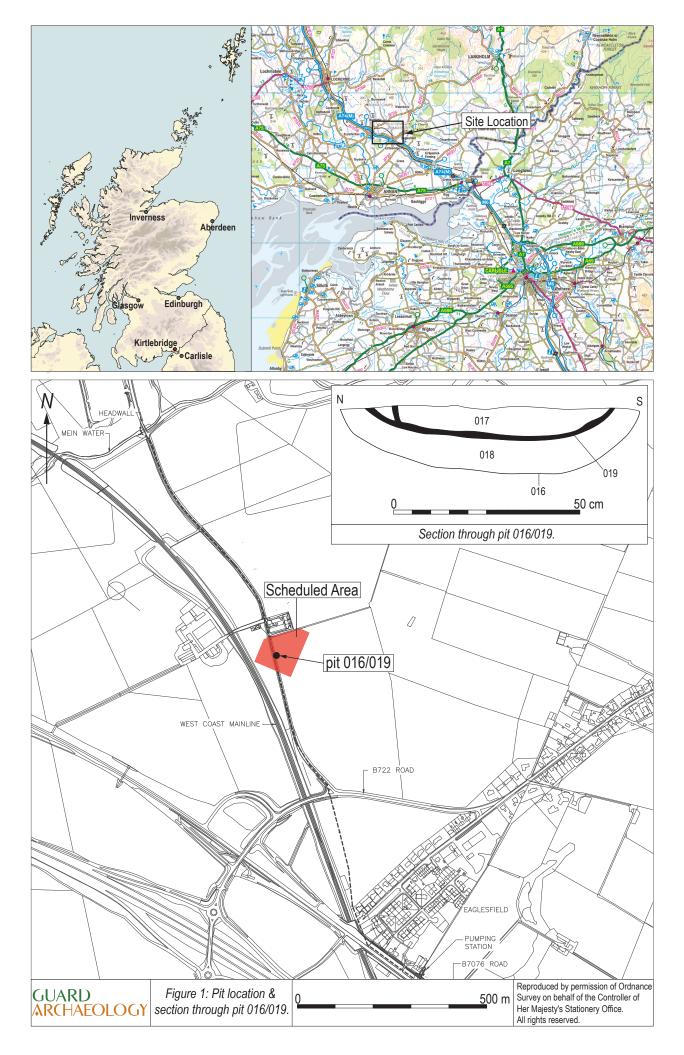




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#### **Executive Summary**

1.1 GUARD Archaeology Limited were commissioned by Scottish Water to undertake an archaeological watching brief during the insertion of a new sewage pipe at Kirtlebridge. This work was undertaken between 19 March and 4 September 2012 and revealed a single feature of potential archaeological significance.

#### Introduction

2.1 This report sets out the results of an archaeological watching brief undertaken by GUARD Archaeology, on behalf of Scottish Water on a site proposed for the excavation of a pipe trench for Kirtlebridge Pumping Station near Broadlea Cottages. During the course of the watching brief a single feature of potential archaeological significance was identified. GUARD Archaeology undertook this programme of work between 19 March and 4 September 2012.

## Site Location, Topography and Geology

- 3.1 The proposed development location lies to the north of Kirtlebridge (NGR 22467446) along the line of an unnamed road running between the B722 at Eaglesfield and the B725 at Middlebie. The development area covers approximately 1km and sits between 54m and 59m AOD.
- 3.2 The site is bounded by agricultural fields to the east and west and the continuation of the road to the north and south and currently consists of a single lane road (Figure 1).
- 3.3 The underlying drift geology consists of glacial sand and gravel while the solid geology consists of Yoredale group rocks interbedded limestone, argillaceous rocks and subordinate sandstone (British Geological Survey 1:625,00 Geology Viewer).

# **Archaeological Background**

- 4.1 A review of desk-based sources undertaken in advance of the watching brief revealed a total of nineteen known cultural heritage sites within a kilometre of the centre of the proposed development. To the north lie Roman camps at Johnstonehall (NY27NW 5) as well as an old road (NY27NW 29) and an unknown, possibly listed, building (NY27NW 83). To the north-east lies an area from Birrens Hill to Broadlea Farm containing numerous sites: the area around Birrens having been excavated in 1936-37. Of these, six are pre-Roman in date with a cluster comprising cord-rig cultivation with enclosures and rig and furrow cultivation (NY28SW 31), as well as remains of cord-rig cultivation (NY28SW 73) and a ring enclosure (NY28SW 33). Find sites of a bronze axe head (NY27 NW 41), a saddle quern (NY28SW 53) and a stone axe head (NY27NW 11) also occurred in this area. These sites are clustered around Birrens Hill. South of Birrens Hill and north-east of the watching brief area lies a prehistoric henge (NY27SW 19).
- 4.2 Distributed throughout the same area are a number of Roman sites and small find sites. The fort of Blatobulgium (NY27NW 4) can be found further to the north-east. Three stone 'Celtic' heads (NY28SW 4.02) are listed as being found at a Roman fort at Birrens though their exact provenance is uncertain. An altar stone (NY17SE 45) now located at Hoddom castle is also believed to have originated at the Birrens fort or in its immediate vicinity. A Roman arm-purse (NY17SE 16) is listed as being donated from Hoddom, but is now suspected to have been originally found at Birrens. The earthworks of a Roman or medieval farm and settlement (NY28SW 9) have also been identified in the vicinity as has undated rig and furrow cultivation (NY28SW 35). A towerhouse (NY27NW 4.01) was occupied within the boundaries of the Birrens fort between the fifteenth and sixteenth centuries with occupation recorded as extending into the eighteenth century. A bronze ewer (NY27NW 12) dating from between the fourteenth and seventeenth centuries has been identified as coming from a similar vicinity.
- 4.3 To the south near the village of Eaglesfield appear lime workings and quarrying activity that began in the late eighteenth century. The village first appeared in the early nineteenth century and appears to have little relationship with the development area.



4.4 Two sites are located near or within the boundary of the development site, one is the location of pits and cropmarks found on the west of the road (NY27SW 37; NY27SW 38). The other is a possible Roman fortlet (NY27SW 4), this site is a Scheduled Ancient Monument (SAM 2613) identified from aerial photography taken on the 12 July 1947 (housed in Cambridge University Committee for Aerial Photography - T 49).

## **Aims and Objectives**

- 5.1 The general aim of the watching brief was to identify any archaeological features encountered and record them fully. The specific objectives were:
  - Establish the presence or absence of any archaeological remains within the development area,
  - Determine the character, extent and significance of any archaeological deposits encountered,
  - Fully excavate and salvage any information possible from any significant features encountered.

## **Methodology** (Figure 1)

- 6.1 Topsoil was stripped using a mechanical excavator, fitted with a flat-bladed ditching bucket, under close archaeological supervision. The topsoil was removed in spits to the surface of the subsoil or the first significant archaeological horizon. All on-site recording, written, drawn and photographic, was to the standards normally pertaining in archaeological fieldwork. All features of note were surveyed and located within the National Grid using a hand-held GPS
- 6.2 Conditions for the watching brief were variable, ranging between sunny and heavy rain.

#### **Results** (Figure 1)



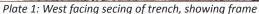




Plate 2: Working shot – piles, frame and fibre optic

- 7.1 A total area of 500 linear metres was stripped of road surfacing to reveal orange/brown silty clay with frequent cobbles overlaying pink and grey weathered boulder clay. Over the majority of the area road layers were 0.45 m to 0.7 m thick. The trench was excavated to a maximum depth of 6 m. The subsoil began at a depth of 1.78 m at the north of the area and began immediately under the modern road surface at the south, see plate 1. During the course of the watching brief one feature of archaeological significance was encountered. This comprised of a single oval pit (context 016) containing three fills. These were a mixed grey clay (017) overlaying a charcoal rich layer (019) with a mid-grey clay in the base (018).
- 7.2 Near Broadlea Cottages, several service trenches and cables were observed. These included water mains and fibre optic cables, see plate 2.



7.3 During the watching brief a background scatter of artefacts were recovered from topsoil deposits across the area, including a small quantity of modern pottery. No artefacts of particular note were recovered.

#### **Discussion**

8.1 The watching brief identified little evidence relating to the use of the site during the Roman period. One feature of archaeological significance was encountered and fully excavated and may be related to the two pits identified previously to the west of the watching brief area. Few modern artefacts were observed apart from modern service trenches. Beneath the modern road there was little other disturbance apart from land and field drains. These were concentrated south of the cottages and relate to modern farming practices. No concrete evidence of the possible Roman fortlet was identified; the features identified through aerial photography either do not extend to the modern road or do not survive underneath it.

#### Recommendations

- 9.1 The watching brief work has proved that few archaeologically sensitive deposits or features exist within the development area. However the existence of the single pit may imply the presence of prehistoric or Roman activity within the pipe trench. In consequence, it is recommended that the contents of the pit are processed for ecofacts and artefacts and that a suitable sample of charcoal is dated to provide an absolute date for this feature. If the sample proves to be significant a short note should be produced for inclusion in the Transactions of the Dumfries and Galloway Natural History and Antiquarian Society.
- 9.2 GUARD Archaeology would stress that these recommendations are intended for guidance only. Given that the site is a scheduled ancient monument we would recommend that the proposed mitigation strategy is discussed with Historic Scotland and the Dumfries and Galloway Council archaeologist, as final decisions on the nature and extent of any future archaeological work rest with both organisations.

### **Acknowledgements**

10.1 GUARD Archaeology would like to thank Scottish Water for their assistance. Plant and drivers were supplied by Grant Civil Engineering. Technical support was A. Maule. The illustrations were produced by Gillain McSwan The report was desk top published by Gillan McSwan. The project was managed for GUARD Archaeology Limited by John Atkinson.



# Kirtlebridge Marquiss SPS Pipeline Data Structure Report

**Section 2: Appendices** 



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#### **Appendices**

#### Appendix A: Bibliography

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#### **Appendix B: List of Contexts**

| Context<br>No. | Area        | Description   | Interpretation                          |
|----------------|-------------|---|---|
| 001            | MH 16 – 12  | Tarmac  | Tarmac surfacing for modern road        |
| 002            | MH 16 – 12  | Angular type 1 stone bedding  | Bedding for modern road surface         |
| 003            | MH 16 – 15  | Black and grey ashy clay  | Bedding for modern road surface         |
| 004            | MH 16 – 15  | Angular type 1 stone bedding. Similar to 002  | Bedding for modern road surface         |
| 005            | MH 16 - 15  | Reddish brown silty clay. Possibly redeposited  | Redeposited subsoil – possible bedding  |
| 006            | MH14A       | Grey silt, organic  | Possible old ground surface             |
| 007            | MH 14A – 13 | Loose grey/brown sand with cobbles  | Possible hillwash                       |
| 800            | MH 14A      | Mottled orange/brown sand   | Natural subsoil, possibly alluvial      |
| 009            | MH14A       | Soft pink and grey clay   | Glacial/alluvial boulder clay           |
| 010            | Mh 14A      | Firm grey boulder clay  | Glacial/alluvial boulder clay           |
| 011            | MH 14 – 13  | Grey/brown sand (=007)  | Possible old ground surface             |
| 012            | MH14 -13    | Pink/grey silt and clay with pebbles and cobbles (=009)   | Weathered glacial/alluvial boulder clay |
| 013            | Mh 14 – 13  | Grey clay with pebbles and cobbles (=010)   | Glacial/alluvial boulder clay           |
| 014            | MH 14 – 13  | Yellow and grey silty clay (=009)   | Glacial/alluvial clay                   |
| 015            | M14 – 13    | Sandstone culvert with 19th + 20th century pottery. 2.4x0.6x0.6m. Capstones max. 0.85x0.6x0.2m.   | Land drainage                           |
| 016            | MH 14 – 13  | Cut – slightly oval E-W 0.9x0.8m. Sharp break<br>of slope at top and steep sides with a rounded<br>base. Filled by (017), (018) and (019). GPS NY<br>22351: BNG 74486 – acc. 7M | Cut of possible fire pit.               |
| 017            | MH 14 – 13  | Mid grey silty clay and gravel  | Fill of pit [016]                       |
| 018            | MH 14 – 13  | Light grey silty clay   | Fill of pit [016]                       |
| 019            | Mh 14 – 13  | Black sandy clay with charcoal  | Fill of pit [016]                       |
| 020            | MH 12       | Dark grey and black sandy gravel (=002)   | Bedding for modern road surface         |
| 021            | MH 12       | Brown clay (=005)   | Redeposited subsoil – possible bedding  |
| 022            | MH 12       | Dark brown clay and sandy gravel (=009)   | Glacial/alluvial boulder clay           |



# **Appendix C: List of Samples**

| Sample | ٨٣٥٥      | Context | Reason for Sampling |     |      |         | Application/Comments |  |
|--------|-----------|---------|---------------------|-----|------|---------|----------------------|--|
| No.    | Area      | No.     | Size                | Pot | Bone | Lithics | Botanics             | Application/Comments                             |
| 1      | MH 14 -13 | 17      | 1 x L               | -   | -    | -       | Υ                    | Top context/last fill of possible fire pit [016] |
| 2      | MH 14 -13 | 19      | 1 x L               | -   | -    | -       | Υ                    | C.v. rich context. Middle fill of [016]          |
| 3      | MH 14 -13 | 18      | 1 x L               | -   | -    | -       | Υ                    | Lowest context/first fill of [016]. clay lining? |

# **Appendix D: List of Drawings**

| Drawing No. | Area      | Sheet No. | Subject                               | Scale |
|-------------|-----------|-----------|---------------------------------------|-------|
| 1           | MH 14 -13 | -         | Plan of possible fire pit             | 1;20  |
| 2           | Mh 14 -13 | -         | W facing section of possible fire pit | 1;10  |

# **Appendix E: List of Photographs**

| Frame | Area   | Context No.                   | Subject   | Taken from |
|-------|--------|-------------------------------|---|------------|
| 1     | -      | -                             | Working Shot  | W          |
| 2     | -      | -                             | Working Shot  | W          |
| 3     | MH 16  | (001) - (005)                 | Section of machine cut                              | N          |
| 4     | MH 16  | -                             | Working Shot  | N          |
| 5     | MH 15  | -                             | Working Shot  | W          |
| 6     | -      | -                             | Location of Roman fortlet – east side               | NW         |
| 7     | -      | -                             | Location of Roman fortlet – east side               | N          |
| 8     | -      | -                             | View towards Birrens to Broadlee, roman camps       | SE         |
| 9     | -      | -                             | View towards Johnstonehall Roman camps              | SW         |
| 10    | -      | -                             | Location of roman fortlet on road                   | N          |
| 11    | -      | -                             | Location of roman fortlet on road – west side       | N          |
| 12    | MH 14A | (001) - (006)                 | West facing section of manhole trench               | W          |
| 13    | MH 14A | (001) - (006)                 | West facing section of manhole trench               | W          |
| 14    | MH 14A | (001) - (007)                 | Post ex before shoring box inserted                 | S          |
| 15    | MH 14A | (001) - (007)                 | East facing section of manhole trench               | E          |
| 16    | MH 14  | (00)1, (003), (005),<br>(011) | W facing section of manhole 14                      | W          |
| 17    | MH 14  | -                             | Location shot for MH 14 showing cottages            | W          |
| 18    | MH 14  | -                             | Location shot for MH 14 showing rise to the east    | W          |
| 19    | MH 14  | (014) + (015)                 | N facing side of culvert – pre-ex                   | N          |
| 20    | MH 14  | (014) + (015)                 | S facing side of culvert – pre-ex                   | S          |
| 21    | MH 14  | (014) + (015)                 | Post – ex. N facing side                            | N          |
| 22    | MH 14  | (014) + (015)                 | Post – ex.S facing side                             | S          |
| 23    | MH 14  | (014) + (015)                 | Capstones of culvert                                | W          |
| 24    | MH 14  | (014) + (015)                 | Beneath capstones – Victorian + modern pottery      | W          |
| 25    | MH 14  | (001), (003), (014)           | W facing section of trench                          | W          |
| 26    | MH 14  | -                             | Working shot – piles and frames                     | SW         |
| 27    | MH 14  | -                             | Working shot – piles, frames and fibre optic cables | W          |
| 28    | MH 14  | (001), (003), (014)           | W faing section                                     | W          |
| 29    | MH 14  | -                             | Working shot – piles and laying pipes               | N          |
| 30    | MH 14  | (001), (005), (007),<br>(014) | W facing section                                    | W          |
| 31    | MH 14  | (017), (018), (019)           | Pre-ex of fire pit                                  | W          |
| 32    | MH 14  | (017), (018), (019)           | W facing section of fire pit                        | W          |
| 33    | MH 14  | (017), (018), (019)           | Post-ex of fire pit                                 | W          |
| 34    | MH 14  | (001), (003), (014), (015)    | W facing section – north half                       | W          |
| 35    | MH 14  | (001), (003), (014),<br>(015) | W facing section – south half                       | W          |
| 36    | MH 14  | -                             | Working Shot – W facing section and frame           | W          |
| 37    | MH 14  | (001), (005), (007),<br>(009) | Working Shot – W facing section and frame           | W          |



| Frame | Area  | Context No.                   | Subject  | Taken from |
|-------|-------|-------------------------------|--|------------|
| 38    | MH 14 | (001), (005), (007),<br>(009) | E facing section                               | E          |
| 39    | MH 14 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| 40    | MH 14 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| 41    | MH 14 | (001), (005), (007),<br>(009) | E facing section                               | Е          |
| 42    | MH 14 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| 43    | MH 14 | (001), (005), (007),<br>(009) | E facing section                               | E          |
| 44    | MH 13 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| 45    | MH 13 | -                             | Working Shot                                   | W          |
| 46    | MH 13 | (001), (005), (007)           | W facing section                               | W          |
| 47    | MH 13 | -                             | Working Shot                                   | W          |
| 48    | MH 13 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| 49    | MH 13 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| 50    | MH 13 | (001), (005), (007),<br>(009) | W facing section                               | W          |
| -     | MH 13 | -                             | Workging shot – field/land drains and flooding | W          |
| -     | MH 13 | (001), (005), (009)           | N facing section                               | N          |
| -     | MH 13 | (001), (005), (009)           | Working shot – section + piles + box           | W          |
| -     | MH 13 | (001), (005), (009)           | Working shot – section + piles + box           | W          |
| -     | MH 13 | (001), (005), (009)           | E facing section                               | Е          |
| -     | MH 12 | (021), (022), (023)           | W facing section                               | W          |
| -     | MH 12 | (021), (022), (023)           | W facing section                               | W          |
| -     | MH 12 | (021), (022), (023)           | W facing section                               | W          |
| -     | MH 12 | (021), (022), (023)           | N facing                                       | N          |
| -     | MH 12 | (021), (022), (023)           | N facing                                       | N          |
| -     | MH 12 | (021), (022), (023)           | E facing                                       | Е          |
| -     | MH 12 | (021), (022), (023)           | E facing                                       | Е          |
| -     | MH 12 | (021), (022), (023)           | Working shot                                   | W          |
| -     | MH 12 | (021), (022), (023)           | Working shot                                   | W          |
| -     | MH 12 | (021), (022), (023)           | Working shot                                   | W          |



# **Appendix F: DES**

| LOCAL AUTHORITY:                            | Dumfries and Galloway Council  |
|---|--|
| PROJECT TITLE/SITE NAME:                    | Kirtlebridge Pumping Station   |
| PROJECT CODE:                               | 3449   |
| PARISH:                                     | Middlebie  |
| NAME OF CONTRIBUTOR(S):                     | Rowena Thomson   |
| NAME OF ORGANISATION:                       | Guard Archaeology Ltd.   |
| TYPE(S) OF PROJECT:                         | Watching Brief   |
| NMRS NO(S):                                 | SAM 2613   |
| SITE/MONUMENT TYPE(S):                      | Roman fortlet; Pits  |
| SIGNIFICANT FINDS:                          |  |
| NGR (2 letters, 6 figures)                  | NY 224744  |
| START DATE (this season)                    | 19/3/2012  |
| END DATE (this season)                      | 4/9/2012   |
| PREVIOUS WORK (incl. DES ref.)              |  |
| MAIN (NARRATIVE)                            | A watching brief was carried out to the west of a possible Roman fortlet   |
| DESCRIPTION:                                | (SAM 2613) and east of pits (NY27SW 37; NY27SW 38). One further pit was  |
| (May include information from other fields) | found filled by clay and charcoal rich layers. No other features or artefacts of archaeological significance were encountered. |
| PROPOSED FUTURE WORK:                       | Limited post-excavation  |
| SPONSOR OR FUNDING BODY:                    | Scottish Water   |
| CAPTION(S) FOR ILLUSTRS:                    |  |
| ADDRESS OF MAIN CONTRIBUTOR:                | Guard Archaeology Ltd., 52 Elderpark Workspace, 100 Elderpark St, Glasgow. G51 3TR   |
| EMAIL ADDRESS:                              | info@guard-archaeology.co.uk   |
| ARCHIVE LOCATION (intended/deposited)       | Archive will be deposited with the NMRS  |



Appendix G: Project Design/WSI

# GUARD 3449: Kirtlebridge, Dumfries - Watching Brief Method Statement

#### 1.0 Introduction

This document sets out GUARD Archaeology's watching brief methodology. The watching brief strategy includes monitoring of all overburden removal and machine dug trenches undertaken during ground breaking works associated with work at Kirtlebridge, Dumfries and hand excavation and recording of any archaeological remains encountered.

On completion of all excavation works a report to data structures level and an accompanying post-excavation research design (PERD) and costing (if required) will be submitted for agreement with Scottish Water and the Dumfries and Galloway archaeological adviser. The PERD will also outline arrangements for final publication of the project should this prove necessary.

#### 2.0 Aims and Objectives

The aims and objectives of the archaeological watching brief are as follows:

- establish the presence or absence of any archaeological remains during ground breaking works;
- determine the character, extent and significance of any archaeological deposits encountered;
- excavate and salvage any information possible from any significant features/sites encountered.

#### 3.0 Methodology

The strategy to be employed during the watching brief will consist of the following:

- All ground disturbances will be monitored by an archaeologist assisted, where necessary, by further archaeologists under the overall guidance of an archaeological project manager.
- The number of archaeologists required during the works will be dependent on the number of areas being trenched simultaneously and the number of mechanical excavators being deployed.
- All plant will be fitted with a toothless ditching bucket for removal of any previously undisturbed overburden layers to ensure the subsoil interface is not disturbed and any archaeological features can be clearly identified. A toothed bucket may be used for previously disturbed layers.
- Overburden will be removed in spits to the first archaeological horizon or, where none is found, to the natural subsoil. Any archaeological features encountered will be cleaned by hand to determine the date of the deposits, their character and extent. Such features will be recorded by written description on *pro forma* recording sheets, by photograph and by measured drawing.
- Any significant archaeological features encountered will be dealt with by the on-site archaeologist(s). Should negative-cut features be encountered they will be 50% excavated in order to determine their significance, date and function. In the event that they are deemed to be important discoveries, they will be fully excavated. Recording will include pro forma sheets, drawings and photographs.



- Suitable down time, up to a maximum of two hours per significant small feature, will be provided to the on-site archaeologists in order to fully recover any archaeological evidence encountered.
- Should more substantial remains be encountered, downtime may be required in excess of two
  hours per feature. This will be agreed in writing with Scottish Water and the Dumfries and
  Galloway Council archaeological adviser prior to proceeding.
- In the event that particularly significant features, special finds or complex groups of features are encountered Scottish Water and the Dumfries and Galloway Council archaeological adviser will be alerted, so that a mitigation strategy can be agreed to deal with them.
- All archaeological finds will be dealt with by the on-site archaeological team. The general
  practice will be to bulk recover all artefacts by context which are recovered from the
  overburden or from nineteenth century or later layers or deposits. Should finds be
  encountered that are securely stratified from earlier occupation phases they will be threedimensionally recorded prior to up-lifting.
- All excavated feature fills and horizons will be sampled for palaeo-environmental evidence.
   This may also include micromorphological sampling in order to address key issues on soil development.
- A representative section will be recorded for each section of trench denoting depth of overburden, any stratigraphy present and the nature of the soil. This information will be logged in the day book together with a sketch drawn to scale and a photographic record of deposits.

On completion of the watching brief phase of work, a report suitable for submission to the Planning Authority and the National Monuments Record for Scotland (NMRS) will be produced. This report will be accompanied by the post-excavation research design and costing in order to bring the results forward for analysis and publication should this be required.

#### 4.0 **Products**

The products of a programme of work can be:

- a preliminary data structure report, after completion of all fieldwork suitable for submission to the client, Planning Authority, the NMRS and the local Sites and Monuments Record;
- a brief summary of results of the fieldwork will be submitted to Discovery and Excavation is Scotland;
- a brief summary of results of the fieldwork will also be added to the OASIS online database;
- Post-excavation and publication of the results of the watching brief within an academic journa should this be necessary;
- Preparation and disposal of the site archive and finds.

#### 5.0 Archive Arrangements

Once all fieldwork is completed, all materials from the programme of work will be prepared to the appropriate archive standard. GUARD Archaeology will undertake to deposit the resultant archive to the NMRS on completion of the report for publication.

All finds will be reported to the Treasure Trove Advisory Panel, and GUARD Archaeology will undertake to ensure their safe deposition within the designated museum at the appropriate time.



#### 6.0 Timetable

The phase of work is proposed to commence in April/May 2012. A fixed start date will be provided in advance of works commencing.

### 7.0 **Staffing**

The watching brief will be conducted by one of GUARD Archaeology's experienced Project Officers. A CV for the individual can be provided on request.

#### 8.0 Health and Safety and Insurance

8.1

All archaeological working practices will be subject to a risk assessment prior to commencement of the work where likely health and safety issues associated with the site can be highlighted.

8.2

GUARD adheres to all standard Health and Safety regulations governing fieldwork projects. GUARD also possess appropriate third party/public liability insurance cover, proof of which may be supplied upon request.

#### 9.0 Monitoring Procedures

All work on site will be internally monitored by John Atkinson, GUARD Archaeology's Managing Director.

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