

Arinagour Water Pipeline Realignment, Coll: Archaeological Mitigation

Data Structure Report



by Callum Allsop

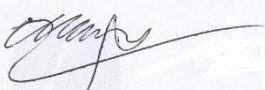
issued

on behalf of Scottish Shared Water Solutions

RATHMELL 
ARCHAEOLOGY LTD

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.

Signed 

Date ...20th February 2017...

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 ...20th February 2017...

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Quality Assurance Data

Author(s)	Callum Allsop		
Date of Issue	February 2017	Version	1.0
Commissioning	Scottish Water Shared Solutions		
Event Name	Arinagour, Coll		
Event Type	Watching Brief		
Event Date(s)	14/02/2017 to 15/02/2017		
Rathmell Code	RA16080	OASIS Ref	rathmell1-272582
Location	United Kingdom : Scotland : Argyll & Bute: Isle of Coll		
NGR	NM 22370 57905 to NM 22362 58245 (Line)		Parish Coll
Designation(s)	None		
Canmore IDs	None		

Contents

Introduction	3
Historical and Archaeological Background	3
Project Works	6
Findings	6
Discussion	6
Recommendations	9
Conclusion	9
References	9
Documentary	9
Appendix 1: Registers.....	10
Context Register.....	10
Photographic Register	11

Figures

Figure 1: Southern Section of Pipe Realignment.....	4
Figure 2: Northern Section of Pipe Realignment	5
Figure 3a: Working shot of trench excavation at north end of monitoring area	7
Figure 3b: Working shot of trenching alongside fish trap (S01)	7
Figure 4a: East facing section of trench showing (001) and (002).....	8
Figure 4b: East facing section of trench showing (001) and (003).....	8

Introduction

1. This Data Structure Report has been prepared in support for Scottish Water Shared Solutions in respect of a realignment of a raw water main approximately 0.5km north of Arinagour, Coll. The new pipeline runs from the existing pipeline at NM 22347 57719 and re-joins at NM 22795 58289.
2. The archaeological works are designed to mitigate the impact on any archaeological remains within the development area to the agreement of Scottish Water Shared Solutions. Rathmell Archaeology Limited has been appointed by Scottish Water Shared Solutions to undertake the implementation of archaeological mitigation works.
3. Scottish Water Shared Solutions has accepted the recommendation on the structure of archaeological works required highlighted in the Historic Environment Assessment (Allsop 2017a). Archaeological monitoring will cover a section of the new pipeline '*on the west bank of the estuary between the track at NM 22370 57905 and the field boundary at NM 22362 58245*' (Allsop 2017, paragraph 29).
4. A Written Scheme of Investigation (Allsop 2017b) provided the detail of the works (archaeological monitoring, exclusion, excavation, post-excavation analyses and publication) for the mitigation pertaining to ground breaking within the development area and hence the direct physical impact on buried sediments.
5. This Data Structure Report provides the results of the works (monitoring, exclusion, excavation, post-excavation analyses and publication) for the mitigation pertaining to ground breaking and hence the direct physical impact on buried sediments.

Historical and Archaeological Background

6. The location of the development area, and the historical and archaeological background have been thoroughly assessed in an Historic Environment Assessment (Allsop 2017a) produced on behalf of Scottish Water Shared Solutions. A brief summary of the report follows.
7. The assessment identified no sites within the development area that were protected for their archaeological or historical merit under any historic environment designation, and seven undesignated sites. These include two fish traps, an enclosure/house platform, a ford, an enclosure, a slipway and a 'Mound'. No further sites were identified by field survey.
8. The ford and enclosure were identified as under threat from the pipeline development, but were designated to be of Other significance and did not warrant mitigation by themselves. However, due to the relatively high level of anthropic activity dating to the Post-Medieval Period along the western bank of Loch Eatharna, it was recommended that ground-breaking works should be subject to archaeological monitoring on a precautionary basis in case additional sites that were not identifiable from surface remains are present.

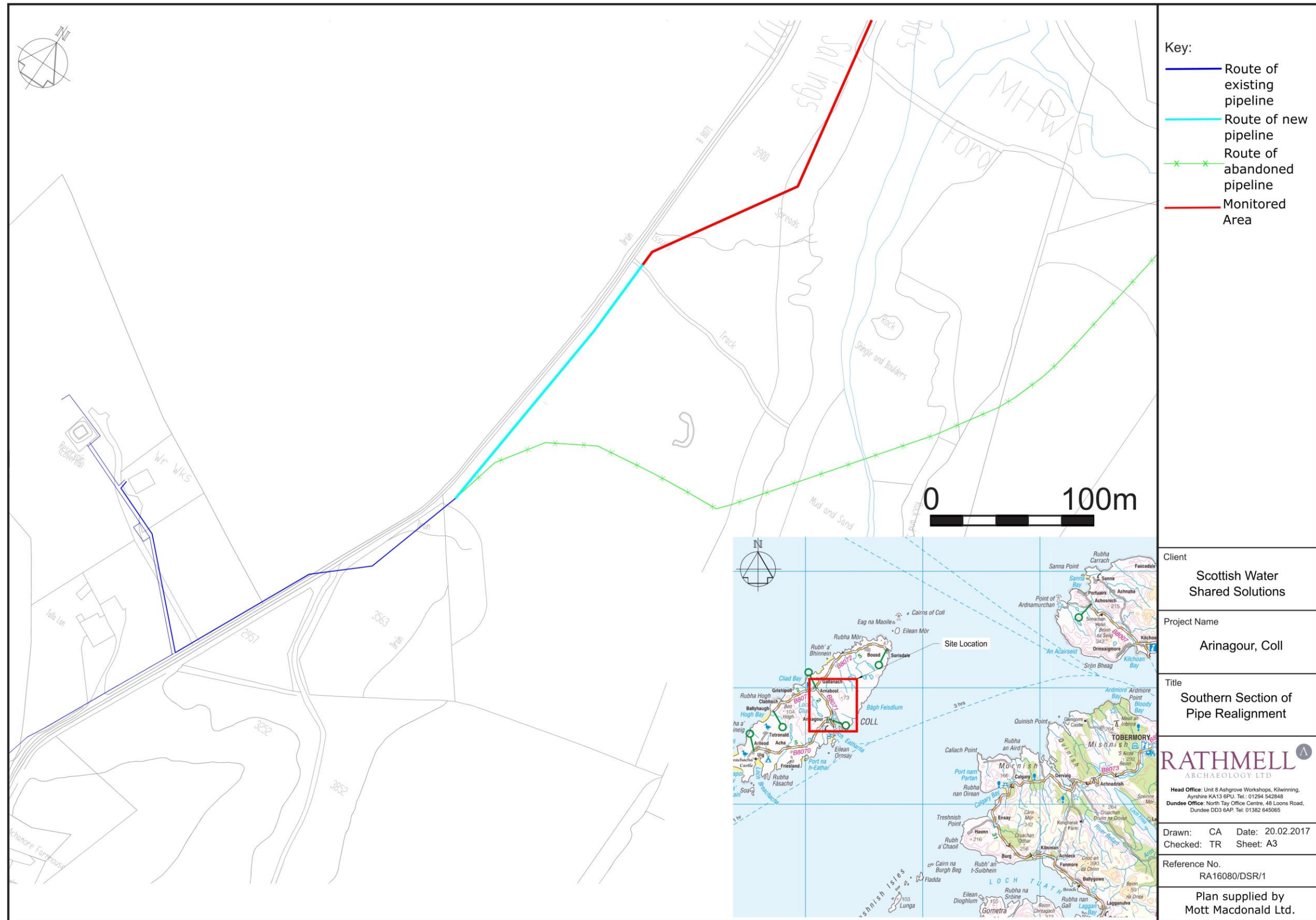
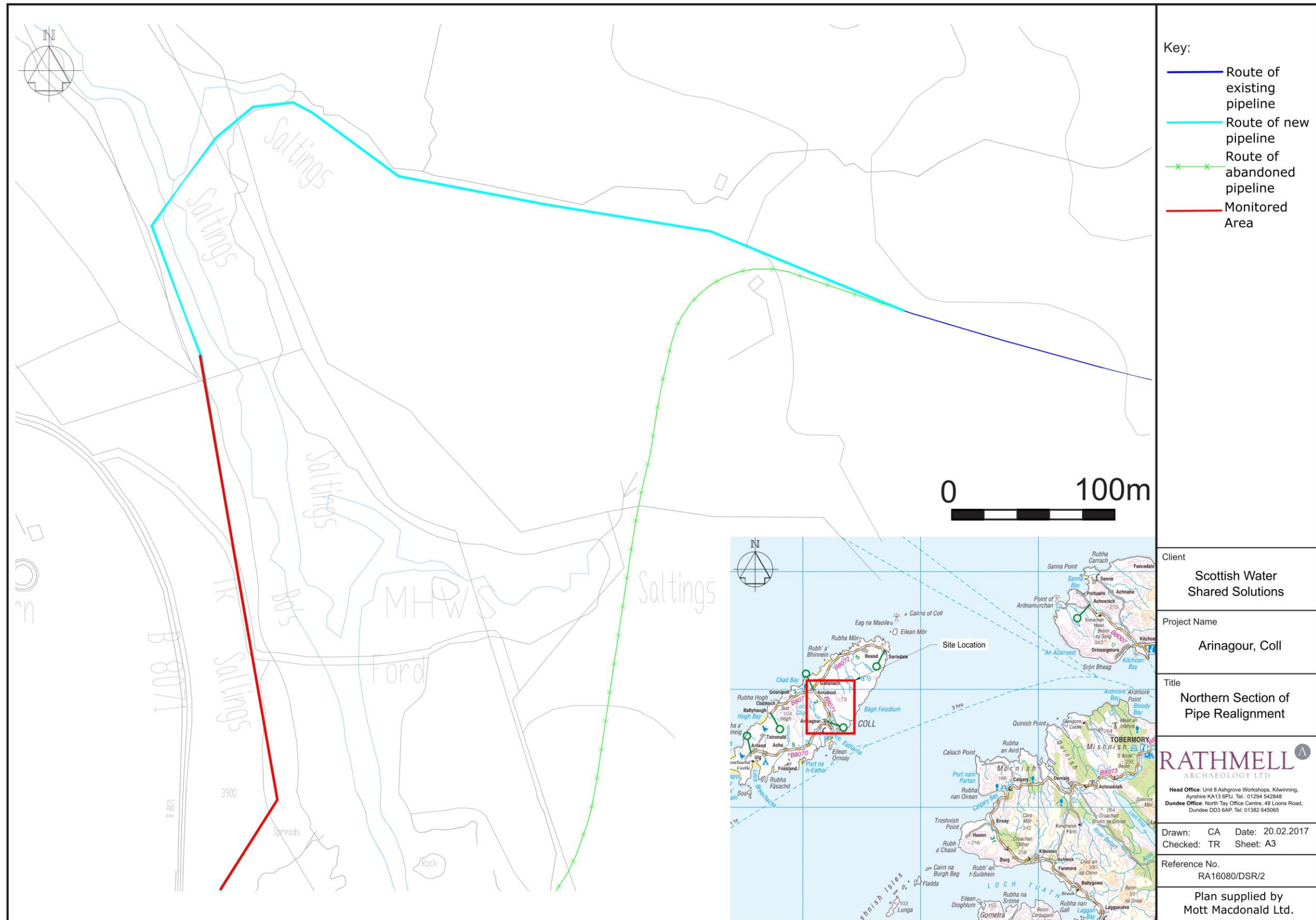


Figure 1: Southern Section of Pipe Realignment



- Key:
- Route of existing pipeline
 - Route of new pipeline
 - x x Route of abandoned pipeline
 - Monitored Area

Client	Scottish Water Shared Solutions
Project Name	Arinagour, Coll
Title	Northern Section of Pipe Realignment
	RATHMELL ARCHAEOLOGY LTD
	<small>Head Office: Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU. Tel: 01294 542648 Dundee Office: North Toy Office Centre, 48 Loons Road, Dundee DD3 6AP. Tel: 01382 645065</small>
Drawn:	CA Date: 20.02.2017
Checked:	TR Sheet: A3
Reference No.	RA16080/DSR/2
	Plan supplied by Mott Macdonald Ltd.

Figure 2: Northern Section of Pipe Realignment

Project Works

9. The programme of monitoring works was undertaken over a single site visit which took place over the period from 14th February 2017 to 15th February 2017 and was agreed to the programme of mitigation works that comprised the following key components:
 - a. undertake a continuous archaeological watching brief on appropriate ground breaking works in a manner that will expose any significant archaeological horizons with care.
 - b. the production of a report which integrates the findings of the works (watching brief) through a Data Structure Report, detailing the nature, form and extent of the monitored areas.
10. Any potentially significant archaeological features, structures or deposits encountered were recorded by the archaeologist on site, using Rathmell Archaeology Ltd standard methods. All contexts, small finds and environmental samples were given unique numbers with bulk finds collected by context.
11. All works complied with the West Coast of Scotland Archaeology Service *Procedural Guidance for Archaeology and Development*, the Chartered Institute for Archaeologists' Standards and Policy Statements and Code of Conduct and Historic Environment Scotland Policy Statement.

Findings

12. The area of the pipe trench excavated was approximately 0.4m wide and 0.7-0.9m deep along its entire course (Figure 3a). A minor alteration was made at the northern end of the monitoring area due to access and the course of the trench was moved to within 3m west of the fish trap (S01; see Allsop 2017a) (Figure 3b). The works did not directly impact the site.
13. The deposits encountered comprised wet but firm, dark brown peat with frequent rooting and organic matter 200-300mm deep (001). This overlay a deposit consisting of wet but firm, blueish-grey to yellowish brown sandy clay with small to medium sub-rounded and rounded stones (002) that ran to the base of the trench (Figure 4a). Also present were shelves of bedrock comprising grey metamorphic stone (003) that directly underlay the topsoil in certain parts of the course of the trench (Figure 4b).
14. No archaeological features were identified within the development area during monitoring.

Discussion

15. In the immediate and wider landscape there are a number of sites that have been recorded representing archaeological activity from the Prehistoric up to the Post Medieval periods. However during each stage of monitoring works no significant archaeological features were uncovered.
16. The topsoil (001) indicates that the immediate local area was once dominated by organic accumulations formed from plant remains in anaerobic conditions. The subsoil (002) represents alluvium that has accumulated from fluvial processes within the estuary. The bedrock deposit (003) is most likely a type of Metagranodiorite, Gneissose. This is a metamorphic bedrock that formed approximately 2500 to 4000 million years ago by intrusions of silica-rich magma and was later altered by high-grade regional metamorphism.



Figure 3a: Working shot of trench excavation at north end of monitoring area



Figure 3b: Working shot of trenching alongside fish trap (S01)



Figure 4a: East facing section of trench showing (001) and (002)



Figure 4b: East facing section of trench showing (001) and (003)

Recommendations

17. The archaeological mitigation works did not reveal any significant archaeological material from within the development area. Those features that were revealed are considered to be of natural origin.
18. As such it is the recommendation of Rathmell Archaeology Ltd that no further works are appropriate. The appropriateness and acceptability of our recommendations rest with West of Scotland Archaeology Service on behalf of Argyle & Bute Council.

Conclusion

19. A programme of archaeological monitoring was carried out between 14th and 15th February 2017 on behalf of Scottish Water Shared Solutions in respect to a raw water main approximately 0.5km north of Arinagour, Coll. The new pipeline runs from the existing pipeline at NM 22347 57719 and re-joins at NM 22795 58289. This Data Structure Report covers the monitoring works recommended by Rathmell Archaeology Ltd within the Historic Environment Assessment covering the pipeline realignment (Allsop 2017a).
20. In the course of the archaeological monitoring no significant archaeology was uncovered; deposits encountered were deemed to be of natural origin.

References

Documentary

Allsop, C. 2017a. *Arinagour Water Pipeline Realignment, Coll: Historic Environment Assessment*, Unpublished Client Report, Rathmell Archaeology Ltd

Allsop, C. 2017b. *Arinagour Water Pipeline Realignment, Coll: Written Scheme of Investigation*, Unpublished Client Report, Rathmell Archaeology Ltd

Appendix 1: Registers

Context Register

Context No.	Area/ Trench	Type	Description	Interpretation
001	1	Deposit	Wet and firm, dark brown peat with frequent rooting and organic matter 200-300mm deep	Topsoil
002	1	Deposit	Wet and firm, blueish-grey to yellowish brown sandy clay with small to medium sub-rounded and rounded stones	Subsoil
003	1	Deposit	Grey metamorphic stone	Bedrock

Photographic Register

Image No.	Digital	Description	From	Date
001	4864	Working shot of trenching at south end of monitoring area	NE	14-02-17
002	4865	Working shot of trenching at south end of monitoring area	S	14-02-17
003	4866	East facing section of trench at south end of monitoring area	E	14-02-17
004	4867	West facing section of trench at south end of monitoring area	W	14-02-17
005	4868	West facing section of trench at south end of monitoring area	W	14-02-17
006	4869	General shot of works	N	14-02-17
007	4870	Site S07: View to site from development area	SE	14-02-17
008	4871	Site S07: NW end of rectangular feature	NW	14-02-17
009	4872	Site S07: SE end of rectangular feature	SE	14-02-17
010	4873	Site S07: View from site to development area	NW	14-02-17
011	4874	Working shot of backfilling of trench	N	14-02-17
012	4875	West facing section of trench at central point of monitoring area	W	14-02-17
013	4876	Working shot of trenching at central point of monitoring area	N	14-02-17
014	4877	Working shot of trenching showing bedrock (003)	S	14-02-17
015	4878	East facing section of trench showing bedrock (003)	E	14-02-17
016	4879	Working shot of trenching at central point of monitoring area	N	14-02-17
017	4880	Working shot of trenching at central point of monitoring area	S	14-02-17
018	4881	East facing section of trench at central point of monitoring area	E	14-02-17
019	4882	Working shot of trenching at north end of monitoring area	N	15-02-17
020	4883	West facing section of trench at north end of monitoring area	W	15-02-17
021	4884	Working shot of trenching at north end of monitoring area	S	15-02-17

Image No.	Digital	Description	From	Date
022	4885	Working shot of trenching at north end of monitoring area	N	15-02-17
023	4886	Working shot of trenching alongside fish trap S01	S	15-02-17
024	4887	West facing section of trench alongside fish trap S01	W	15-02-17

Appendix 2: Discovery & Excavation in Scotland

LOCAL AUTHORITY:	Argyll & Bute
PROJECT TITLE/SITE NAME:	Arinagour, Coll
PROJECT CODE:	RA16080
PARISH:	Coll
NAME OF CONTRIBUTOR:	Callum Allsop
NAME OF ORGANISATION:	Rathmell Archaeology Limited
TYPE(S) OF PROJECT:	Watching brief
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	None
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NM 22370 57905 to NM 22362 58245 (Line)
START DATE (this season)	14/02/2017
END DATE (this season)	15/02/2017
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (may include information from other fields)	<p>A programme of archaeological monitoring was carried out between 14th and 15th February 2017 on behalf of Scottish Water Shared Solutions in respect to a raw water main approximately 0.5km north of Arinagour, Coll. The new pipeline runs from the existing pipeline at NM 22347 57719 and re-joins at NM 22795 58289. This Data Structure Report covers the monitoring works recommended by Rathmell Archaeology Ltd. within the Historic Environment Assessment covering the pipeline realignment.</p> <p>In the course of the archaeological monitoring no significant archaeology was uncovered; deposits encountered were deemed to be of natural origin.</p>
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	Scottish Water Shared Solutions
ADDRESS OF MAIN CONTRIBUTOR:	Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU
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ARCHIVE LOCATION (intended/deposited)	Report to West of Scotland Archaeology Service and archive to HES Collections

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