## YCCCART 2014 / Y 9

#### North Somerset HER 2014/101

#### Gradiometry Survey off Venus St. (N Edwards Field Number 1)

### YATTON, CONGRESBURY, CLAVERHAM AND CLEEVE ARCHAEOLOGICAL RESEARCH TEAM (YCCCART)

General Editor: Vince Russett



A piece of Romano-British Congresbury ware pottery.

Page	Contents
3	Abstract Acknowledgements Introduction
4	Site location Land use and geology
5	Historical & archaeological context
6	Survey objectives Methodology
7	Results
10	Recommendations References
11	Appendix – Site Record

### Abstract

YCCCART has a project to establish the extent of the Congresbury Roman kiln sites. A gradiometry survey has revealed what appear to be previously unknown kilns.

#### Acknowledgements

A Heritage Lottery Grant enabled the purchase, by YCCCART, of a Bartington 601 gradiometer meter without which this survey could not have been undertaken.

This survey would also not have been carried out without the willing permission of the land owner Mrs N Edwards and tenants Mrs D Edwards and Mr D Edwards. The authors are grateful for the hard work by the members of YCCCART in performing the survey and Vince Russett for editing the report.

#### Introduction

YCCCART is one of a number of Community Archaeology teams across North Somerset, supported by the North Somerset Development Management Team.

The objective of the Community Archaeology in North Somerset (CANS) project is to undertake archaeological fieldwork to enable a better understanding and management of the heritage of the area while recording the activities and locations of the research carried out.

## **Site Location**



Fig 1: Site location indicated by red arrow.

The site is in Congresbury and abuts Brinsea Road and is close to Venus St.

## Land use and geology

The site lies to the south of the flood plain of the natural course of the Congresbury Yeo. The geology is Carboniferous limestone, Keuper Marl and estuarine alluvium.

The field is private with no public access and is used for grazing.

Historical & archaeological context



Fig 2: De Wilstar map of 1739. Courtesy of Bristol Record Office. Reference 33041/BMC/4/PL1/2.

The field owned by a Mr R Cook in 1739 is indicated by the arrow in Fig 2 above.

### Tithe Map



Fig 3: 1839 Map. Courtesy of Bristol Record Office BRO 37959/9. The surveyed field is within the field numbered 1062.

The Tithe apportionment record, relating to the 1839 map above, shows field 1062 as The Home Ground and Allotments owned by the Trustees of Queen Elizabeth Hospital and occupied by Anne Osmond.

## Survey objectives

The survey was undertaken in order to establish if further unknown Romano–British kilns could be located.

### Methodology

The survey of field was undertaken during June and July 2014 by a team from YCCCART, using a Bartington 601 gradiometer.

The completed survey was downloaded to a TerraSurveyor program.

TerraSurveyor composites were adjusted using the following filters:

- Band weight equaliser
- Grad shade
- Despike
- Destripe
- Clip SD2
- Red Green Blue 2 (Colour image)

The report was written in Microsoft Word 2013.

Photographs were taken by members of YCCCART, and remain the copyright of YCCCART.

# Results



Fig 4: Grid layout.



Fig 5: TerraSurveyor grids.



Fig 6: TerraSurveyor shade colour image. High readings are red.

The red and blue pattern at the bottom of the results in Fig 6 above probably results from a metal fence.

The most interesting anomalies are:

1. The large blue circle containing red dots indicated by the lower arrow.

Roman pottery kiln sites are generally indicated in gradiometry surveys by strong negative (blue) and positive peaks (red) immediately adjacent to each other. These grids appear to include such features.

2. A similar smaller feature is indicated by the arrow towards the top of the result.



Fig 7: TerraSurveyor shade black and white image. High readings are black red.

The black and white image in Fig 7 above shows an arc indicated by the arrow within which at the bottom of the results appear to be three circular features.

There are two linear high-resistance features to the left side of the survey above.

The nature of all these features is not clear, but they certainly pre-date the grype features (the pale linear parallel groups seen above).



Fig 8: TerraSurveyor 3d colour image. High readings are red.

The 3d image shows clearly the strong negative (blue) and positive (red) peaks immediately adjacent to each other, indicated by the arrows in Fig 8 above, which possibly indicate Romano British pottery kilns.

#### Recommendations

Review when all project results are available.

### References

Congresbury Tithe Map 1839

De Wilstar map of 1739

BRO 37959/9. (Bristol Record Office)

*BRO 33041/BMC/4/PL1/2.* (Bristol Record Office)

Author: Chris Short

Date: July 2014

# Appendix

## Site Record

YCCCART Site S	urvey				
Project – D D Edwards #3 – Congresbury Kilns projects					
Survey date		10th July 2014			
Report date		10th July 2014			
Type /Instrument		Grad 601			
		Dece :1.5m/a			
		Face .1.JII/S	Dild Size. Join XJOIN Dettern : Zig Zog		
		Lines/III. I Demographic	Fallelli . Zig Zag		
		Kange: 100n1	Samples/m.4		
		volume: High	Audio: On		
		Sensors:2	Inreshold: 10n1		
			Reject:50 Hz		
Location		Adjacent Brinsea Road			
Ref		none			
Site name N Edwards 1					
Landowner	Landowner Nesta Edwards				
Tenant		Delia and David Edwards			
HER ref					
Site type		Open land			
Description		Grass land			
Period					
Geology					
Land use		Grazing			
Survey team and conditions					
19/06/2014	Team	Peter Wright, Peter English, Arthur Langley Ferdi, Ian Morton			
	Weather	Sunny and hot			
26/06/2014	Team	Peter Wright, Peter English, Arthur Langley & Ferdi			
	Weather	Sunny and warm			
3/07/2014	Team	Peter Wright, Ferdi, Janet Dickson & Ian Morton			
	Weather	Sunny and warm			
10/07/2014	Team	Peter Wright, Peter English, Arthur Langley, Ferdi, Janet Dickson &			
		Ian Morton			
	Weather	Hot and sunny			

Survey area		notes		readings		
		size	walk direction	max	min	mean
Date	Grid number					
	1	30 x 30m	N	+100.0	-100.0	-3.6
	2	30 x 30m	N	+48.4	-100.0	-2.3
19/06/2014	3	30 x 30m	Ν	+42.1	-100.0	-5.5
	4	30 x 30m	Ν	+99.6	-78.9	+1.6
	5	30 x 30m	Ν	+65.1	-83.1	+2.0
	6	30 x 30m	Ν	+28.8	-75.8	+3.1
	1	30 x 30m	Ν	+78.6	-89.8	-1.9
	(Repeat of 5					
	above)					
	2	30 x 30m	Ν	+23.6	-50.7	-2.7
	(Repeat of 6					
26/06/2014	above					
	3	30 x 30m	N	+100	-100	-9.0
	4	30 x 30m	N	+100	-100`	-7.0
	5	30 x 30m	N	+5.5	-100	-6.4
	6	30 x 30m	Ν	+7.0	-55.5	-6.0
	Truncated. Mirror					
	& return used.			100.0	100.0	
	<u> </u>	30 x 30m	N	+100.0	-100.0	-1.7
	2	30 x 30m	N	+100.0	-100.0	-1.8
2/07/2014	3	30 x 30m	N	+50.0	-32.4	-1.6
3/0//2014	4	30 x 30m	N	+3.9	=7.1	-2.1
	5	30 x 30m	N	+69.4	-37.1	-1.8
	6	30 x 30m	N	+10.8	-14.5	-2.0
Note grids 7	/*	30 x 30m	N	+43.1	-43.7	-1.3
thro' 10	8*	30 x 30m	N	+7.8	-22.2	-1.9
hoggy ground	<u>9</u> *	30 x 30m	N	+6.4	-19.0	-2.0
00 <u>5</u> 89 810000	10*	30 x 30m	8	+3.6	-8.1	-1.4
		Mirror and return				
		traverses 1 & 2				
	1	$\frac{112}{20 \times 20m}$	N	±43.0	20.5	1.2
	2	30 x 30m	N	+52.1	-20.3	-1.2
10/07/2014	2	JU X JUII Mirror and return	11	+ 32.1	-13.7	-1.0
	3	$30 \times 30m$	N	+45.6	-43.5	-0.6
	Δ	30 x 30m	N	+8.0	_77	-0.8
	5	30 x 30m	N	+15.6	-15.4	-1 4
	5	Mirror and return	1	15.0	-15.4	-1.7
	6	30 x 30m	N	+11.0	-69	-0.4
	7	30 x 30m	N	+52.7	-100.0	-2.2
	Mirror and return	20 A 2011	.,		100.0	2.2
	8	30 x 30m	N	+12.2	-24.8	-1.7
	9	30 x 30m	N	+33.5	-15.1	-1.6
	,	Mirror and return	- '	20.0		
	10	30 x 30m	N	+29.4	-18.4	-0.7
		Mirror and return		_/		
	11	30 x 30m	N	+3.5	-2.4	-0.8
		Mirror and return				

Survey area		notes		readings		
		size	walk direction	max	min	mean
Date	Grid number					
	12	30 x 30m	Ν	+17.3	-26.8	-0.1
		Mirror and return				
10/07/2014	13	30 x 30m	Ν	+100.0	-100.0	-0.3
		Mirror and return				
	14	30 x 30m	S	+24.4	-100.0	-3.2
		Mirror and return				

# Setting out details



