

**YCCCART 2015 / Y 6  
North Somerset HER 2015/20  
Gradiometry Survey at Congresbury  
(Mrs J Edwards Field 2)**

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

*General Editor: Vince Russett*



*The gradiometer in action.*

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## **Abstract**

*YCCCART has a project to establish the extent of the Congresbury Roman kiln sites. A gradiometry survey in a field south of Silverstone Way, Congresbury, has revealed no archaeological features.*

## **Acknowledgements**

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

This survey would also not have been carried out without the willing permission of the landowner, Mrs J 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 the red arrow.*

The field is privately owned.

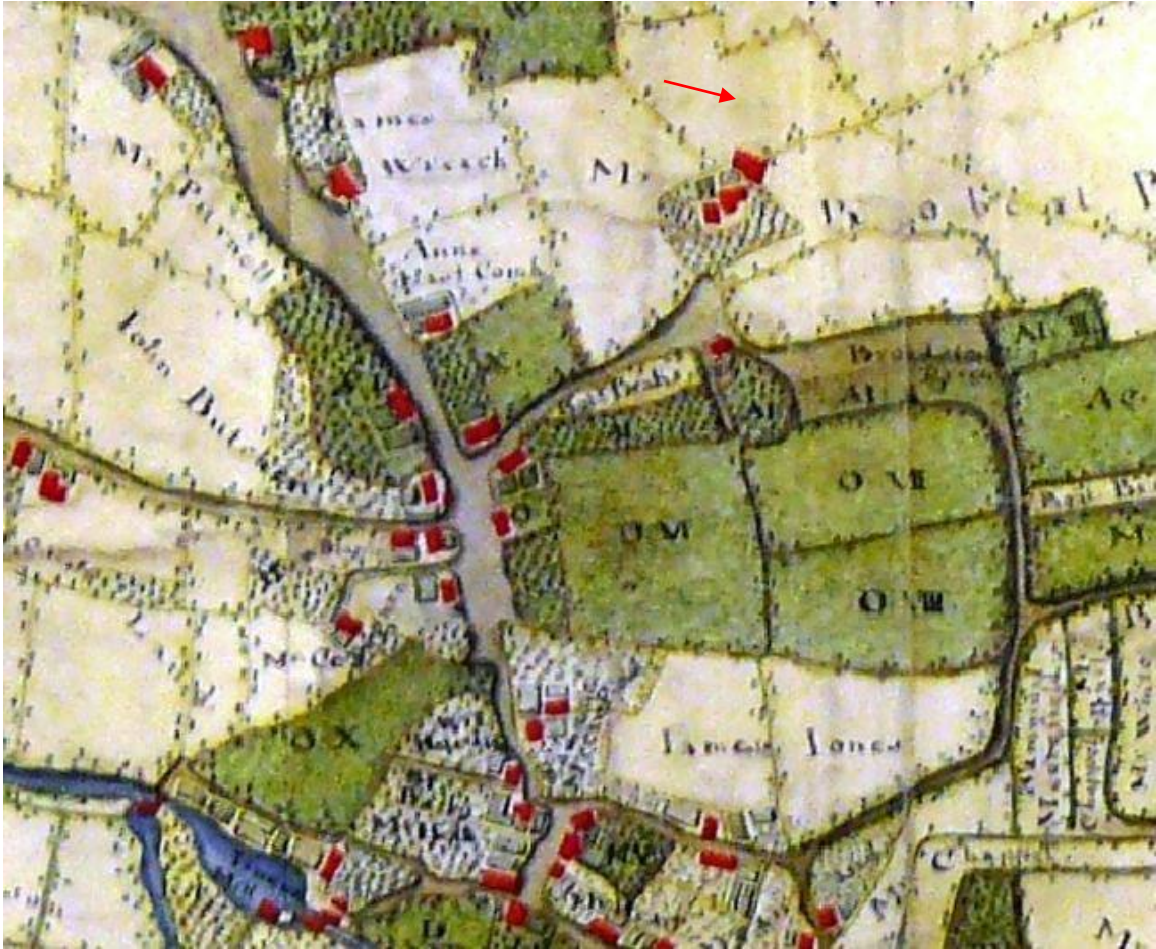
## Land use and geology

The field is used for grazing.

Geology is the Mercia Mudstone group – Mudstone and Halite stone.

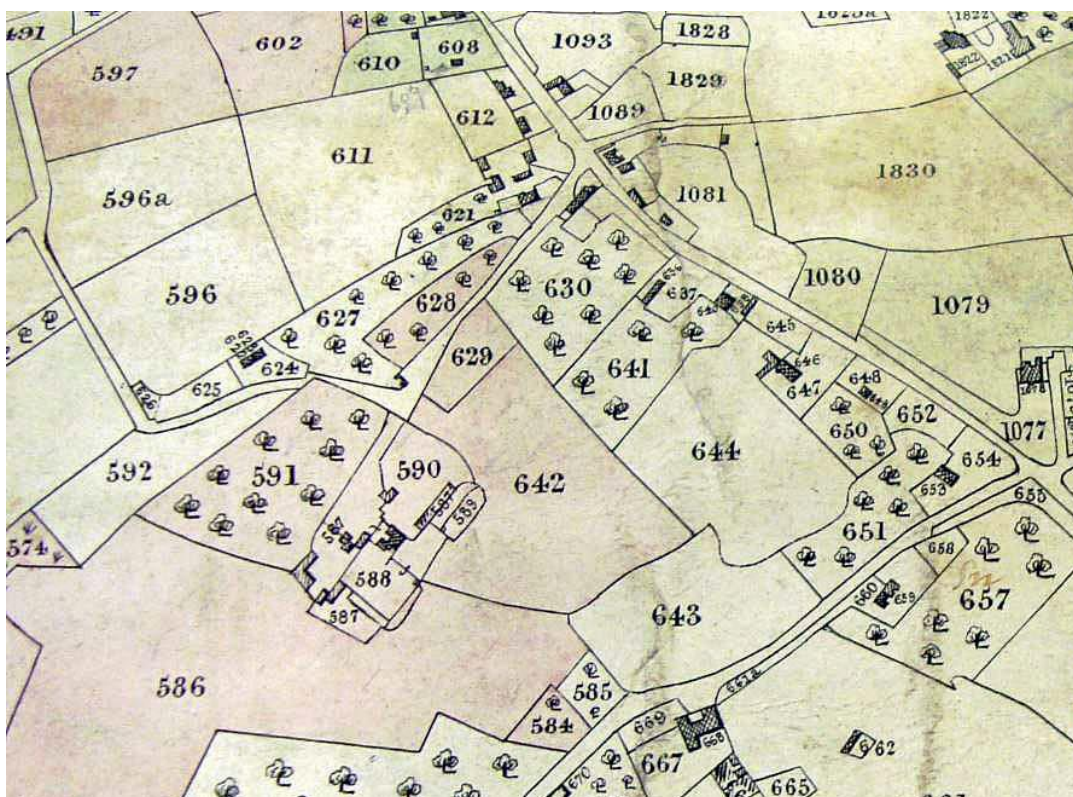


## Historical & archaeological context



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

The area of the current field is indicated on the 1739 map in Fig 2 above by the red arrow.



*Fig 3: 1839 Map. Courtesy of Bristol Record Office BRO 37959/9. The surveyed field is incorporated in number 586 on the map.*

The Tithe apportionment record, relating to the 1839 map above, shows the field numbers as follows:

Number	Owner	Occupier	Name	Type
<b>586</b>	<b>Robert Beakes Simmons Esq</b>	<b>John Ford</b>	<b>Home Ground</b>	<b>Pasture</b>
587	Robert Beakes Simmons Esq	John Ford	Farm house, outbuildings and barton	
588	Robert Beakes Simmons Esq	John Ford	Garden	
589	Robert Beakes Simmons Esq	John Ford	Plantation	
590	Robert Beakes Simmons Esq	John Ford	The Barbary	Pasture
591	Robert Beakes Simmons Esq	John Ford	Orchard	Orchard
642	Robert Beakes Simmons Esq	John Ford	The Five Acres Home Ground	Pasture

## **Survey objectives**

The survey was undertaken in order to continue to investigate the extent of the Congresbury Romano British pottery kiln field.

## **Methodology**

The survey of field was undertaken during May 2015 by teams from YCCCART, using a Bartington 601 gradiometer, with settings as per the site record in the Appendix.

The completed survey was downloaded to a TerraSurveyor program.

TerraSurveyor composites were adjusted using the following filters:

Standard settings

- 1) Colour - Red Blue Green 2
- 2) Band weight equaliser
- 3) Grad shade
- 4) Despiked
- 5) Destriped
- 6) Clip SD2

The report was written in Microsoft Word 2013.

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

## Results

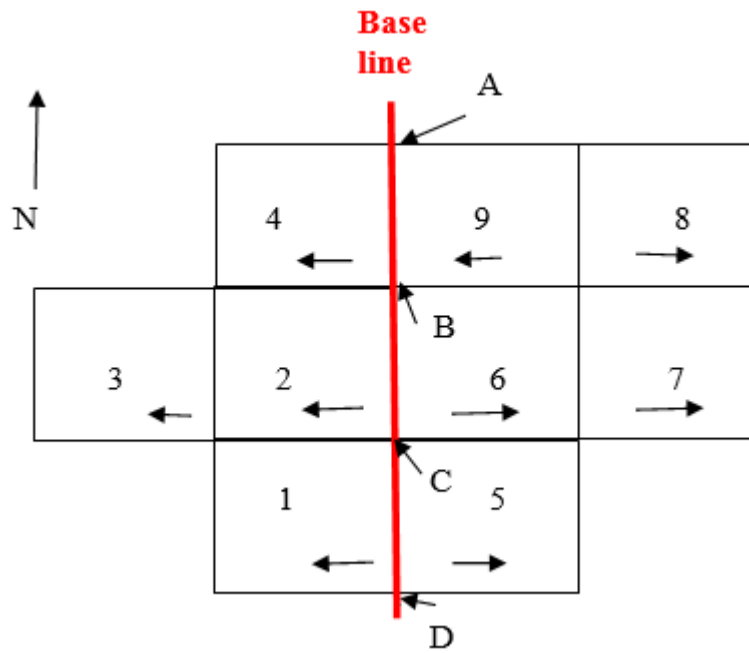


Fig 4: Grid lay out

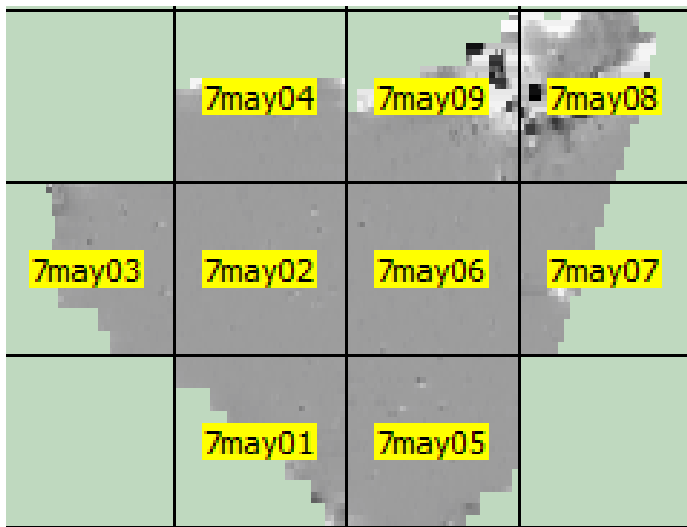
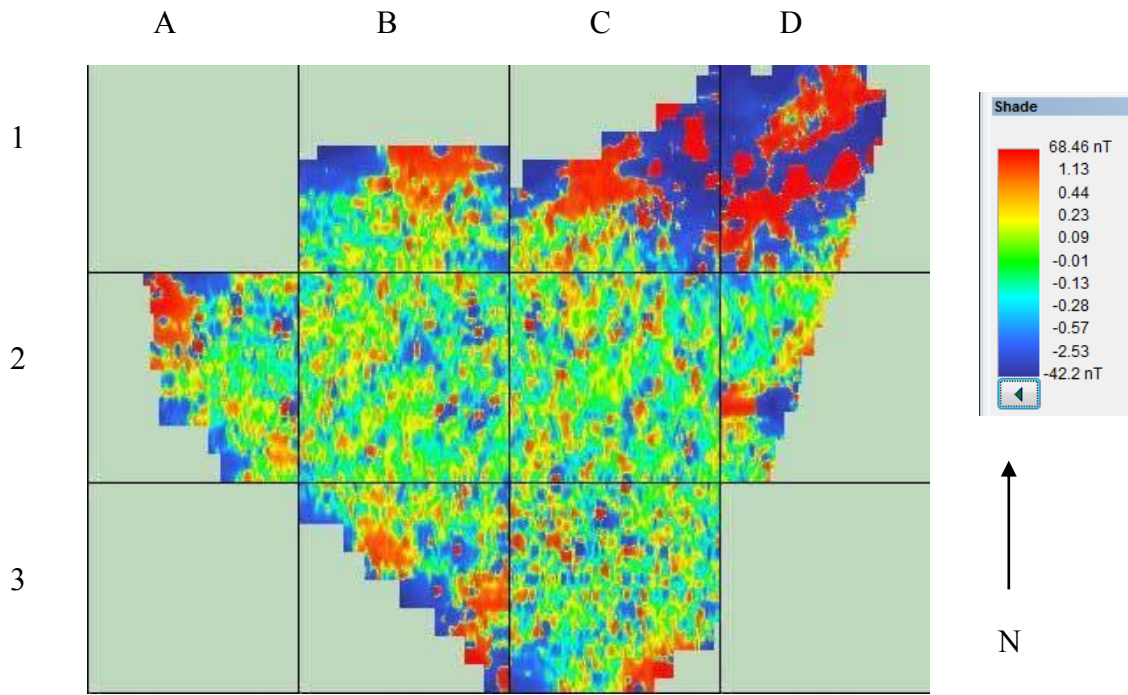


Fig 5: TerraSurveyor grids.





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

The very high / low anomaly in grid 1D, in Fig 6 above, is probably caused by a half buried bundle of wire.

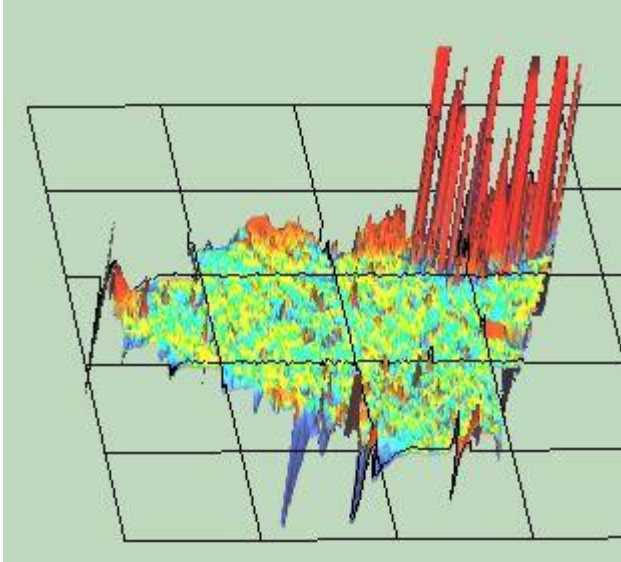


Fig 7: *TerraSurveyor* axonometric colour image. High readings are red.

Fig 7 clearly shows the high anomaly top right.

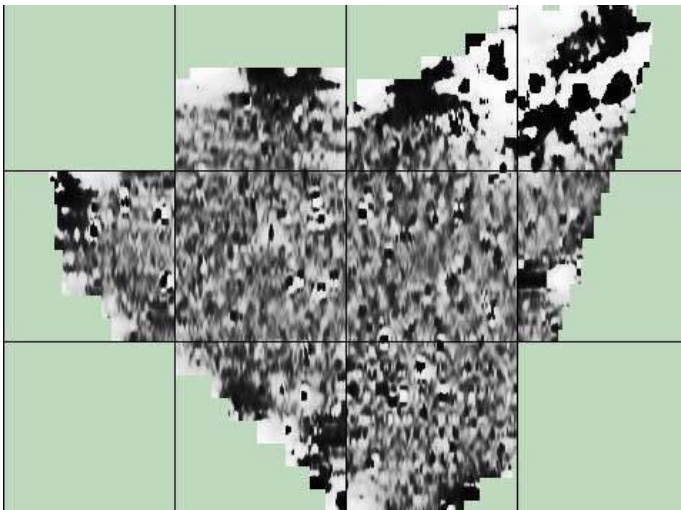
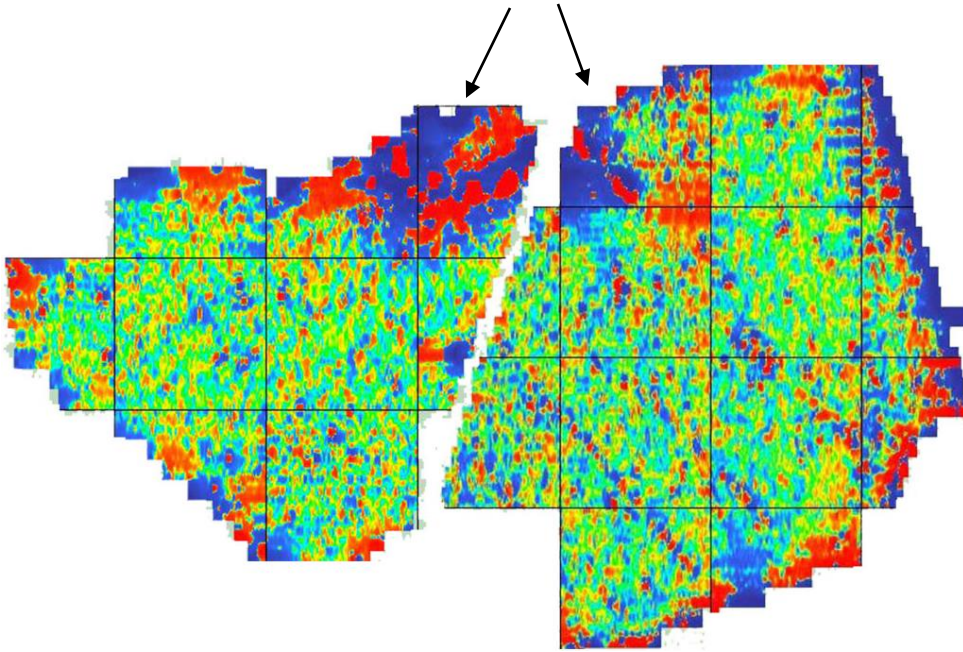


Fig 8: *TerraSurveyor* shade view black and white image. High readings are black.

Nothing further of note is revealed in the black and white image at Fig 8 above.



*Fig 9: TerraSurveyor shade view combined colour image of J Edwards 1 (left of break) & J Edwards 2 (right of break). High readings are red.*

The results from this and the adjacent field (see YCCART report 2015 / Y6) are at Fig 9 above. They show the high/low anomaly, indicated by the arrows, probably the result of buried wire and other agricultural activity.

## **Recommendations**

None

## **References**

Congresbury Tithe Map

*BRO 37959/9* (Bristol Record Office)

De Wilstar map of 1739

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

**Author:** Chris Short

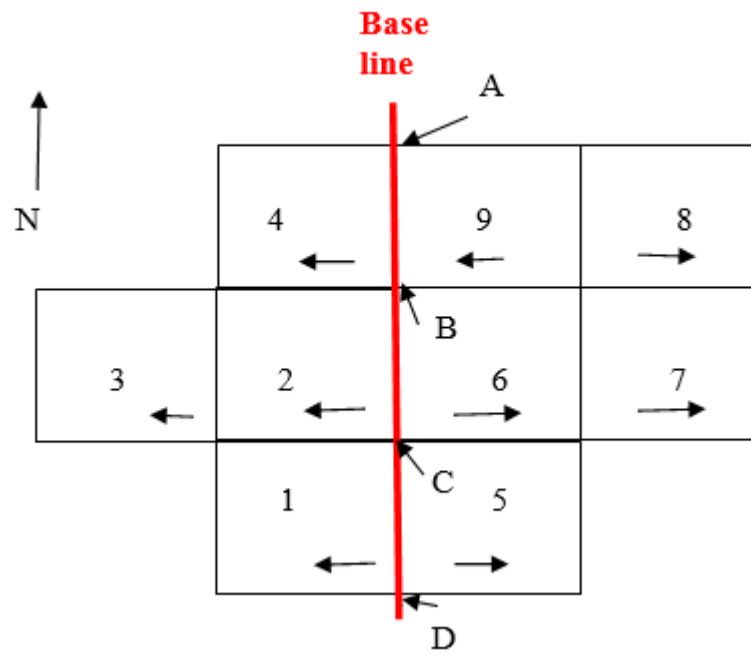
Date     June 2015

## Appendix

YCCCart Site Survey Project – J Edwards 2 – Congresbury Kilns projects		
Survey date	7 May 2015	
Report date	7 May 2015	
Type /Instrument	Grad 601	
	Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2	Grid size: 30m x30m Pattern : Zig Zag Samples/m:4 (other grids) Audio: On Threshold:10nT Reject:50 Hz
Location	Off the end of Silver St/behind Silverstone Way	
Ref	none	
Site name	J Edwards 2	
Landowner	Mrs J Edwards	
Tenant		
HER ref		
Site type	Open land	
Description	Grass land	
Period		
Geology		
Land use	Grazing	
Survey team and conditions		
7/5/2015	Team	Ian Morton, Peter Wright, Arthur Langley and Ferdi
	Weather	Dry, cool overcast, ground firm
	Team	
	Weather	



Survey area		notes		readings		
Date	Grid number	size	walk direction	max	min	mean
07/05/2015		Setting out base line and grids for whole field				
	1	Partial grid M & R	W	+52.8	-100	+0.9
	2	30 x 30m Overhead electricity lines	W	+26.2	-12.8	+1.4
	3	Partial grid M & R Overhead electricity lines	W	+40.7	-13.3	+0.4
	4	Partial grid M & R	W	+17.8	-52.9	-1.8
	5	Partial grid M & R	E	+63.7	-12.5	+0.2
	6	30 x 30m	E	+34.9	-4.7	+0.7
	7	Partial grid M & R Overhead electricity lines & pole	E	+13.0	-100	-1.5
	8	Partial grid M & R Dummy data traverse 1 – wire bundle at start of grid	E	+100	-100	-13.5
	9	Partial grid M & R	W	+100	-100	-11.9



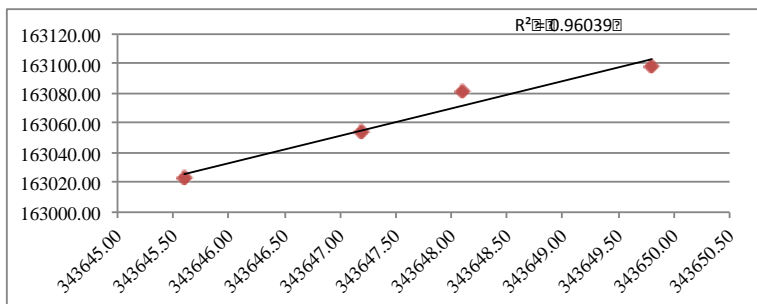
*Position A on base line – 11.15m*

*Position B on base line – 25.20m*

Position of quiet spot –  
E 343653.3 N 163030`'.4

Grid Ref. All ST

	eastings	northings
A	343645.60	163023.40
B	343647.20	163053.50
C	343648.10	163081.80
D	343649.80	163098.50
E		
F		
G		
H		



quiet spot 343653.3 163030.4

### HAZARD AND RISK ASSESSMENTS

<b>Severity of hazard:</b> 1= Minor injury 2= Serious injury 3= Major injury or fatality	<b>Likelihood:</b> 1= Unlikely 2= Likely 3= Very likely or inevitable	<b>Population (no. of persons who could be affected):</b> 1= 1-5 persons 2= 6-20 persons 3= 21+ persons	<b>Risk Factor:</b> Severity x Likelihood x Population (min 1, max 27)
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**Location:** J Edwards 2 **Activity/Equipment:** 601 **Date of assessment:** 07 May 2015

**Assessor:** Arthur Langley

Nature of hazard	Slips, trips, falls	Dust	Noise	Fire/Explosion	Exposure to harmful substances	Entrapment	Impact	Contact	Entanglement	Ejection	Electric shock	RSI/Eyestrain	Manual handling	Other Dog faeces	MAX. RISK FACTOR
Severity	1	0	0	0	0	0	0	1	0	0	0	1	1	2	1
Likelihood	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
Population	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

#### Control methods and timescale

Ground is fairly flat and dry. Care will be taken when walking 601.  
 Two horses and donkey in field – care will be taken not to frighten.  
 Members will wear substantial footwear and long trousers which will protect skin from any stumbles. The stout shoes/ boots will be worn. Need to wear gloves and/or wash hands after surveying.



