

Geophysical Survey at Varley Hall, Coldean Brighton, Sussex

Introduction

The university residence accommodation located at Varley Hall, Coldean, Sussex was the focus of a major excavation in 1992, by the Field Unit of Archaeology South East. The excavation produced evidence for a Middle Bronze Age settlement (Greig 1993). The site lies close to another Bronze age settlement located 500M to the west at Downsview, and also excavated by Archaeology south East, as part of the Brighton By-pass excavations (Rudling and Funnell).

Once the excavation had been completed the Brighton and Hove Archaeological Society Field Unit conducted a small investigation into the lands surrounding the known site to ascertain as to whether the site continued north and westward. The excavations had only examined part of one of the terraced round house found, the other half remaining below the land surface to the west of the excavated area. The survey of this remaining section of a Bronze Age round house terraced into the chalk produced a significant anomaly of low readings produced in an arc formation, conforming to the shape cut into the chalk. The survey encompassed the area between the excavated site and a line of trees extending along a public footpath to the west (TQ331091). A section of land south of another line of trees running west to east was also investigated (Fig 1.)

Methodology

A datum point was set up at a point 60 metres south of the excavation boundary and the survey ran along a base line consisting of the west boundary of the excavation. The partially remaining round house was located within grid 1. The equipment used was an RM4 resistivity meter. The measurements were taken at 1 metre intervals and measured in Ohms. A total of 6 complete 20M squares were completed (Grids 1,3,5,7,11 and 12) and 4 squares were partially investigated (Grids 2,4,6 and 8). The results were analysed using differences in colouring for sequences of numbers.

Conclusions

The resistivity survey conducted at Varley Halls produced a series of anomalies of low readings. The remains of the terraced round house known and still in-situ produced an arc of low readings, producing an ideal parameter for the investigation. The area comprising squares 5,6,7 and 8 produced an area of indeterminate shape, round in configuration. While this area does not suggest the location of a round house Bronze Age settlement sites do have other features including ditches, pits and post holes, some circular features are often regarded as 'pond' features. The most significant observation of the geophysical survey was made in squares 11 and 12. The readings from these squares picked up clearly and distinctly the shape of an arc of low readings. The readings were also distinct that the surveyors were able to anticipate and confirm when the low series of readings would appear on the machine monitor.

It is very clear from the resistivity survey that the boundaries of the Bronze Age settlement at Varley Halls, continue beyond the area excavated by the field unit of Archaeology South East. Field walking projects are planned for lands surrounding Varley Hall in attempt to gather more information about the settlement site and possible associated field systems

viewed in aerial photographs. New geophysical surveys are planned for the remaining fields going up to the Brighton by-pass, north of the Bronze Age settlement.

References:-

- I.Greig 1997 'Excavation of a Bronze Age settlement at Varley Halls, Coldean Lane, Brighton, East Sussex. Sussex Arch Colls. Vol 135, 7-59
- D.Rudling & J. Funnell, 'Excavation at Downsview' in D.Rudling (ed) 'Downland Settlement and Land Use: The Archaeology of the Brighton By-Pass' (Forthcoming)

Author:- John Funnell

SITE VARDLY HALL (WEST)		SHEET NUMBER ①	
		DATE 23-8-97	
		MAP REF 331089	
SOIL CHALKY LOAM	SURVEY TYPE RESISTIVITY		
SUBSOIL CHALK			
VEGETATION COVER THIN, PARTLY GRASS			
WEATHER SHOWERS, OVERCAST	INSTRUMENT EM 4		
SHEET ORIENTATION N	ADJACENT SHEETS A 3 2	STATION INTERVAL 1 METRE	
		UNITS 1 METRE	
		SURVEYORS LAURIE GASTON SUE HARRISON	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	70	70	70	66	72	63	66	65	62	64	61	63	62	59	57	59	59	56	57	60	A 77
B	69	71	72	71	72	61	60	60	63	62	64	63	62	60	60	59	59	57	57	60	B 70
C	65	68	72	71	73	61	70	68	64	64	63	63	59	64	60	62	57	60	62	62	C 71
D	64	65	69	72	62	61	69	66	62	63	63	64	62	61	62	62	60	59	62	64	D 70
E	62	63	65	66	58	70	60	65	62	64	66	63	64	62	63	62	61	60	60	60	E 71
F	64	64	64	67	65	72	66	65	63	65	65	63	62	62	62	60	60	60	60	60	F 73
G	67	65	65	65	70	73	66	64	62	66	63	63	63	62	62	63	59	73	65	65	G 70
H	69	67	66	65	67	74	65	62	62	64	62	61	61	61	60	61	61	61	61	61	H 68
I	68	66	66	66	70	70	65	64	62	61	63	61	60	61	59	60	61	61	61	61	I 65
J	69	70	66	65	70	65	62	62	63	62	63	61	58	61	59	61	59	72	68	59	J 64
K	71	72	67	66	66	60	63	66	64	63	62	59	61	61	59	61	67	71	68	67	K 70
L	71	69	67	68	65	68	67	69	64	62	65	62	62	61	60	61	67	70	65	63	L 69
M	70	66	66	67	65	69	72	70	62	63	63	62	62	63	59	62	60	58	61	64	M 74
N	71	69	65	70	60	67	66	61	63	65	61	61	61	62	61	62	62	60	60	65	N 69
O	69	70	71	70	72	70	60	60	64	67	63	59	62	60	61	58	60	60	62	62	O 69
P	65	67	70	71	73	70	67	68	70	66	63	61	61	62	60	60	60	60	61	63	P 67
Q	66	68	70	72	72	71	60	71	71	67	65	61	61	61	61	60	60	62	63	63	Q 63
R	65	66	66	68	72	69	72	71	65	63	63	63	60	62	62	63	59	61	62	64	R 66
S	65	64	65	66	69	60	67	68	66	60	60	64	63	67	63	64	60	61	62	64	S 65
T	65	63	65	64	71	64	66	67	67	62	65	64	63	63	62	62	62	62	62	65	T 67



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GEOPHYSICAL SURVEY

SITE VARLEY HALL (WEST)		BHEET NUMBER 2									
SOIL CHALKY LOAM		DATE 28-8-92									
SUBSOIL CHALK		MAP REF TQ 331 089									
GROUND COVER THISTLE, LIGHT GRASS PATCHES		SURVEY TYPE RESISTIVITY									
W/FATHER SMONERS, WYRCAST		RM 4									
SHEET ORIENTATION N	ADJACENT SHEETS	INSTRUMENT RM 4									
	<table border="1"> <tr><td></td><td>4</td><td>3</td></tr> <tr><td></td><td>X</td><td>1</td></tr> <tr><td></td><td></td><td></td></tr> </table>		4	3		X	1				STATION NUMBER 1 METRE
	4	3									
	X	1									
		UNITS 1 METRE									
		SURVEYORS LAURIE BRIDON SUE HARRISON									

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A															68	76	75	74	75	74	A
B															70	73	68	69	72	71	B
C															67	70	69	68	71	69	C
D															76	71	69	68	65	63	D
E															75	68	70	71	67	63	E
F															75	72	69	71	65		F
G															71	73	71	70	69		G
H															73	71	71	71	70		H
I															72	70	69	69	71		I
J															75	71	68	67	69		J
K															76	72	71	71	69		K
L															76	74	70	70	69		L
M																	70	71	71		M
N																	70	70	68		N
O																	73	70	67		O
P																	68	69	67		P
Q																	69	72	70		Q
R																	68	72	68		R
S																	67	69	67		S
T																	65	68	67		T

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
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SITE: VARLEY HALL (WEST) SPEED NUMBER: ③
 DATE: 23-8-92
 MAP REF: TQ331089
 SOIL: CHALKY LOAM SURVEY TYPE: RESISTIVITY
 SUBSOIL: CHALK
 GROUND COVER: TALL GRASS
 WEATHER: DRY, OVERCAST INSTRUMENT: RM4
 SHEET ORIENTATION: N ADJACENT SHEETS:

6	5
4	X
2	1

 STAKE INTERVAL: 1 METRE
 UNITS: 1 METRE
 SURVEYER: LAUREN CANTON
DAVE HARTLEY
X Speed log

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	57	79	60	70	74	70	69	65	65	65	63	64	65	68	69	69	70	72	73	61	A
B	56	78	81	77	75	71	70	65	63	63	66	64	64	66	71	70	71	63	75	84	B
C	77	79	86	75	76	71	72	63	49	67	63	65	66	71	70	71	67	77	72	64	C
D	74	50	82	75	73	74	72	67	65	63	63	66	66	74	71	70	69	68	63	74	D
E	85	76	77	70	70	72	71	64	66	65	63	64	65	64	68	69	67	67	65	73	E
F	85	75	71	67	69	71	70	70	62	65	64	63	64	68	67	68	67	66	64	68	F
G	80	78	70	69	70	69	65	66	62	65	64	65	67	66	66	65	65	63	77	69	G
H	77	77	67	71	68	69	66	64	65	64	65	65	67	66	63	65	63	62	62	67	H
I	72	78	64	68	64	68	70	66	64	64	64	62	64	67	66	65	65	62	64	66	I
J	73	70	66	68	66	67	68	65	64	64	63	64	64	67	68	65	66	62	63	64	J
K	74	68	64	70	66	65	65	64	65	63	63	62	65	65	67	65	66	64	62	64	K
L	74	72	83	71	67	65	63	64	63	62	64	64	62	66	63	65	62	64	66	66	L
M	73	80	75	67	71	67	65	63	61	60	61	58	60	61	63	62	65	65	64	60	M
N	71	79	65	67	61	68	64	61	60	56	59	56	58	60	61	62	64	65	63	65	N
O	69	77	70	66	70	67	67	62	61	56	56	58	56	59	61	62	61	62	67	68	O 84
P	73	76	77	67	70	67	68	64	61	58	58	58	54	59	59	62	60	61	58	72	P 75
Q	71	72	75	72	70	71	67	64	64	61	60	60	60	59	59	61	57	58	58	72	Q 70
R	71	72	76	77	70	72	67	64	63	61	60	61	59	60	59	60	58	58	58	65	R 77
S	71	74	71	67	68	68	68	64	62	61	62	62	59	61	58	60	57	58	58	72	S 72
T	70	71	72	62	71	67	65	63	60	61	62	58	58	58	57	58	56	54	57	68	T 76

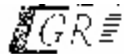
SITE VORLEY HALL (WEST)		SHEET NUMBER (1)
SOIL GRAVELLY LOAM		DATE 23-8-92
SUBSOIL CLAY		MAP REF TQ331089
GROUND COVER THICK GRASS MATING GRASS		SURVEY TYPE RESISTIVITY
WEATHER SHINY, OVERCAST		INSTRUMENT PM 4
DIREC. OF WIND N	ADJACENT SHEETS	SPACING INTERVAL 1 METRE
		UNIT 1 METRE
		SURVEYORS SIEFERT, LOCK JOHN FURNELL

6	5
X	3
2	1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
A												55	56	57	59	52	53	52	56	52	53	A	
B												10	56	57	58	59	59	57	55	57	53	57	B
C												10	59	58	51	58	59	75	57	57	52	51	C
D												11	76	54	59	92	82	80	82	59	86	53	D
E												11	5	112	58	92	58	87	63	80	82	75	E
F												12	105	97	57	55	87	79	79	78	75	75	F
G												87	88	86	55	85	75	75	76	75	74	74	G
H												80	79	80	83	80	79	74	74	74	74	73	H
I												85	78	85	82	57	69	72	70	70			
J												73	82	84	79	67	66	72	71	67			
K												76	71	83	74	75	71	75	73	75			
L												77	74	74	75	76	77	77	70	72			
M												67	69	76	75	74	78	70	70	71			
N												71	64	74	79	78	77	74	74	70			
O												88	88	75	79	82	81	74	74	63			
P													78	80	79	77	74	72	72				
Q												76	79	80	79	76	75	72					
R												73	79	82	81	78	74	73					
S												73	76	77	74	73	74	73					
T												73	73	73	75	74	71	71					

SITE VADUZY HALL (WEST)		SHEET NUMBER 5									
SOIL CLAYEY LOAM		DATE 23-8-92									
SUBJECT CABLE		MAPPING 1:1000									
GRUNDED POINTS TRIPOLAR POINTS GRABES		SURVEY TYPE RESISTIVITY									
WEATHER DRY WINDY OVERCAST		INSTRUMENT RM4									
DIRECTIONS N	ADJACENT SHEETS <table border="1"> <tr><td>8</td><td>7</td><td>11</td></tr> <tr><td>6</td><td>X</td><td></td></tr> <tr><td>4</td><td>3</td><td></td></tr> </table>	8	7	11	6	X		4	3		STATION INTERVAL 1 METRE
8	7	11									
6	X										
4	3										
		UNITS 1 METRE									
		SURVEYING SUB CONTRACTOR JOHN FINNELL									

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	57	61	62	62	65	65	67	68	65	63	63	64	66	69	68	71	72	77			A
B	57	60	62	62	67	65	65	67	66	66	66	66	68	72	72	71	73	77			B
C	57	59	61	66	65	65	63	64	64	65	65	68	70	71	72	73	73	76			C
D	57	58	59	62	63	62	63	65	65	66	66	68	68	69	73	70	70	75			D
E	59	57	58	61	61	63	64	66	67	66	67	66	67	69	72	63	72	72			E
F	62	58	60	60	62	66	65	69	67	65	68	67	70	67	69	70	73	72			F
G	62	59	61	60	62	65	68	70	68	66	67	66	68	69	69	69	70	70			G
H	68	60	61	62	62	64	69	67	68	67	67	66	70	67	69	67	68	68			H
I	65	65	62	67	64	66	69	68	70	65	68	66	70	69	69	68	63	71			I
J	58	60	64	62	64	66	67	65	68	66	67	67	70	72	69	65	68	74			J
K	70	66	65	62	65	65	65	66	67	64	68	67	70	71	69	68	71	67			K
L	65	68	66	65	65	66	67	69	70	67	66	69	70	73	65	60	79	67			-
M	72	68	67	65	65	65	67	69	71	71	70	71	69	70	69	68	67	68			M
N	72	67	69	70	68	70	69	69	70	71	71	71	72	70	66	65	65	68	68		N
O	70	72	69	74	72	69	68	70	70	71	71	72	68	68	62	63	68	65	65		O
P	73	72	75	75	72	70	67	70	69	68	68	68	67	64	67	64	63	65	67		P
Q	77	67	70	77	72	69	69	68	68	65	65	65	67	64	65	64	65	66	70		Q
R	70	69	75	76	70	68	67	67	66	62	66	65	65	65	66	64	66	69	70		R
S	71	65	70	74	68	68	67	68	67	63	65	64	65	65	66	64	66	69	71		S
T	69	60	70	73	73	70	68	69	65	64	64	64	65	65	66	66	68	65	73		T
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	



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GEOPHYSICAL SURVEY

STATION: **SHALLOT HALL (WEST)** SHEET NUMBER: **6**

DATE: **23-8-92**

MAP REF: **TQ 831080**

SOIL: **CHALKY LOAM** SURVEY TYPE: **RESISTIVITY**

SUBSOIL: **CHALK**

GROUND COVER: **THICK GRASS, POLYETHYLENE**

WEATHER: **SHOWERS, OVERCAST** INSTRUMENT: **EM 4**

SHEET ORIENTATION: **N** ADJACENT SHEETS: **8 7 5 4 3**

STATION INTERVAL: **1 METRE**

UNITS: **1 METRE**

SURVEYS: **WINDY (WEST) SEE FACTLOG**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A							73	80	78	76	76	77	75	75	68	66	62	59	57	56	A
B							73	70	70	77	76	75	77	70	67	62	61	58	56		B
C							84	71	71	74	77	74	77	75	67	66	66	63	57		C
D							75	68	70	72	73	72	68	68	61	69	67	61			D
E							67	68	76	69	70	70	70	69	69	68	66	63			E
F							67	69	70	74	76	74	72	67	69	70	62	64			F
G							72	74	80	76	75	71	75	70	68	73	65				G
H							78	82	78	79	77	74	77	73	71	75	67	71			H
I							77	83	78	81	77	75	76	75	73	80	68	71			I
J								88	80	82	80	74	79	75	71	78	74	73			J
K								91	80	86	83	82	87	80	75	78	78	72			K
L								92	87	90	85	84	83	81	75	79	80	78			L
M								97	94	90	83	86	80	79	80	80	76	74			M
N								87	98	85	85	89	80	78	77	74	78	71			N
O								72	73	75	86	81	83	81	83	77	77	69			O
P								77	90	87	88	85	82	87	77	79	85	66			P
Q								77	90	90	87	82	81	87	78	78	82	70			Q
R								88	103	90	89	94	82	78	80	81	85	73			R
S								101	100	92	89	83	85	79	82	72	81	69			S
T								107	95	75	85	85	83	82	84	79	87	87			T

CGR - Geoscan Research

GEOPHYSICAL SURVEY

SITE VALLEY HALL (WEST)		DATE SURVEYED 31-8-02
SOIL CHALKY WORM		DEPTH TO 331083
LITHOLOGY CHALK		DEPTH TO RESISTIVITY
ELECTRODE CONFIGURATION THURGOOD LIGHTS CLASS 2A 20-101		DEPTH TO RM 4
ELECTRODE SPACING 10M		DEPTH TO 1 METRE
ELECTRODE SPACING 8M		DEPTH TO 1 METRE
ELECTRODE SPACING 6M		SURVEYED BY JONAS FURNIVALL LARRY BASTEN

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	88	88	89	89	87	87	84	81	80	81	82	82	80	80	79	81	83	81	81	79
B	86	85	87	88	80	83	76	76	74	76	75	76	74	73	76	77	74	77	72	71
C	80	82	82	80	84	79	74	73	75	74	71	71	72	73	72	72	72	73	74	74
D	86	77	80	78	81	78	76	74	74	73	67	68	72	71	70	69	72	71	76	77
E	75	75	74	78	79	75	74	76	74	69	69	63	71	74	71	72	74	77	71	78
F	74	77	74	70	76	75	76	74	76	65	57	59	71	72	71	73	76	74	74	73
G	76	76	77	76	74	77	76	74	71	71	60	60	70	74	73	74	75	78	78	73
H	75	76	78	77	74	73	78	75	75	72	64	64	72	72	72	72	76	77	73	70
I	75	77	78	78	77	72	75	76	78	76	73	69	73	76	75	71	74	73	68	69
J	76	76	78	81	79	74	78	76	71	77	77	76	75	76	72	72	71	71	69	67
K	70	76	74	78	79	76	77	76	78	76	77	76	73	70	67	68	68	67	69	67
L	81	79	81	79	78	78	74	77	81	72	72	68	65	65	66	66	68	66	68	69
M	81	80	82	76	73	72	72	70	69	66	66	63	65	64	67	65	69	68	69	71
N	78	76	77	72	69	67	66	68	66	64	62	62	65	64	68	67	70	68	71	72
O	73	72	71	68	66	64	63	64	64	62	59	62	66	66	68	69	69	68	70	70
P	70	66	64	65	63	61	61	62	62	60	62	60	65	65	69	67	69	69	70	72
Q	66	67	62	60	62	59	60	60	60	61	61	60	64	65	70	68	70	70	73	75
R	61	60	62	61	61	59	62	60	62	59	62	60	65	64	67	66	69	71	75	79
S	59	59	62	59	60	59	62	59	61	59	60	59	64	65	64	65	67	70	80	80
T	56	58	60	59	60	59	61	61	60	60	60	60	63	64	66	64	67	71	77	80
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

SITE VACUITY HALL (W/DOT)		SHEET NUMBER 8	
DATE 31-8-92		MAP REF TG 331089	
SURVEY TITLE RESISTIVITY		INSTRUMENT RM 4	
LOCATION CHALKWY LARM.		SCALE OR WAVELENGTH 1 METRE	
SOUNDING CODE TRUSTLE, VACUITY HALL, PATRICKS		DEPTH 1 METRE	
WEATHER SHOWERY		SURVEYOR JUDY FOWLER LEONARD GIBSON	
SEASIDE ORIENTATION N		APPROXIMATE SLOPE 10.5	
		7	
		6.5	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A					80	79	76	78	80	86	82	84	82	83	80	79	81	81	82	83	A
B					76	75	73	75	75	74	83	86	82	75	78	76	77	79	78	79	B
C					72	75	70	75	76	77	80	83	79	77	74	71	75	72	76	75	C
D					75	74	73	73	73	77	77	80	74	75	76	80	72	71	75	72	D
E					73	77	73	73	72	74	74	73	71	75	79	81	68	70	72	74	E
F					68	79	75	77	76	74	72	71	68	76	79	83	70	73	74	73	F
G					81	75	76	79	75	77	74	70	75	80	82	77	80	75	74		G
H					84	75	83	78	73	75	75	71	75	80	79	79	82	77	75		H
I					86	79	82	78	72	74	73	72	72	78	79	78	73	76	75		I
J					84	81	84	79	76	75	73	71	72	77	77	79	72	77	76		J
K					82	82	83	80	81	81	75	72	69	71	71	74	71	79	77		K
L					78	86	82	85	84	82	77	76	71	74	71	70	70	76	76		L
M					82	81	88	85	86	83	79	77	73	75	74	74	72	75	80		M
N					85	85	86	85	82	78	78	74	75	73	77	76	78	79			N
O					78	78	83	84	82	76	75	75	73	72	76	79	79	75			O
P					71	72	77	77	84	75	74	77	76	72	73	76	75	75			P
Q					71	73	71	67	80	78	72	75	75	76	75	74	70	67			Q
R					66	70	71	65	73	76	73	76	76	76	73	68	62	60			R
S					72	74	70	74	77	73	76	74	76	69	64	61	58				S
T					72	75	74	78	77	74	76	70	66	64	61	59	58				T
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

TITLE: **VANDY HALL (WEST)**
 SHEET NUMBER: **9**
 DATE: **31-8-02**
 MAP REF: **T033,089**
 SURVEY: **NO**
 SURFACE: **CHALK / LAM**
 METHOD: **RESISTIVITY**
 SOURCE CODE: **THISTLE, CLINT WOOD PATCHES**
 WEATHER: **SHOWERY**
 SURVEY ORIENTATION: **N**
 ADJACENT SHEETS: **8 7 11**
 STATION INTERVAL: **1 METRE**
 INTR: **1.0 TALE**
 SURVEYOR: **JOHN FOWLER LAUREN FOSTER**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
A																					A	
B																					B	
C																					C	
D																					D	
E																					E	
F																					F	
G																					G	
H																					H	
I																					I	
J																					J	
K																					K	
L																					L	
M																					M	
N																					N	
O																					O	
P	92	92	89	87	87	90	S		90	86	87	84	85	85	88	90	89	93	86	88	P	
Q	92	88	89	87	88	91	87	88	84	91	92	93	88	87	91	90	92	91	87	86	86	Q
R	89	88	87	88	93	89	90	89	91	91	92	93	90	92	92	92	88	86	86	86	86	R
S	87	88	87	89	92	89	91	91	93	93	92	92	91	91	84	84	85	84	84	83	83	S
T	87	86	88	85	88	87	85	85	85	86	87	86	84	82	80	80	82	81	82	81	81	T
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		



Geoscan Research

GEOPHYSICAL SURVEY

SITE WARRI HALL (WBDT)		SHEET NUMBER 11	
ROCK CHALKY LOAM		DATE 31-8-92	
SUBSOIL CHALK		SURFACE TYPE RESISTIVITY	
GROUND COVER TRISTLE PATCH		METHODS RMA	
WEATHER SHOWERY		STATION INTERVAL 1 METRE	
DIRECTION OF SURVEY N		UNITS 1 METRE	
SURVEYOR JOHN KENNEDY		SUPERVISOR LEONARD HARRIS	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	78	82	77	79	84	85	85	85	84	78	77	75	76	77	75	75	71	70	69	69
B	78	74	74	73	77	77	79	78	73	71	67	68	68	70	67	72	73	71	72	70
C	78	78	75	75	75	76	74	71	66	66	64	65	66	68	67	68	70	71	72	71
D	76	77	77	76	73	72	67	68	64	63	63	63	65	64	66	66	64	66	73	70
E	78	78	76	76	67	68	66	63	64	63	62	64	67	66	65	64	66	65	72	68
F	74	74	70	68	65	68	65	64	65	66	66	65	67	67	67	67	67	67	69	68
G	71	69	66	66	66	67	65	66	67	66	68	67	70	67	71	67	67	69	70	66
H	69	67	67	66	67	66	67	69	70	70	72	72	71	69	70	69	68	71	70	68
I	69	66	68	67	68	69	70	73	74	74	73	73	76	71	73	70	68	69	70	70
J	66	68	68	68	69	71	74	73	75	75	76	77	73	71	72	71	67	70	71	71
K	67	71	70	70	73	75	76	77	78	75	77	75	77	75	73	71	70	70	71	72
L	69	72	71	72	76	74	76	77	79	76	76	76	75	77	72	71	69	71	70	72
M	69	73	74	71	74	74	72	75	76	75	75	76	73	77	72	70	69	71	72	72
N	71	74	74	71	71	71	71	72	73	75	75	78	74	74	72	70	70	70	72	72
O	72	75	74	74	73	70	74	75	76	76	76	76	74	74	70	70	70	69	71	68
P	74	75	75	77	76	74	76	76	79	78	79	78	76	75	74	72	70	94	92	100
Q	80	79	79	80	80	76	78	76	82	83	82	81	79	78	77	75	73	75	86	81
R	86	84	83	85	85	80	81	81	83	86	89	87	84	81	80	79	78	74	72	73
S	86	87	84	82	85	89	86	88	81	89	90	84	85	84	83	82	77	80	73	74
T	91	94	94	92	96	93	91	98	96	96	91	90	92	91	92	92	83	86	82	86
U	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
V	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

WGR Gordon Research

GEOPHYSICAL SURVEY

SITE VORLEY HALL (WEST)	DEPTH METRES 17
CLASS CHALK	DATE 31-8-92
FORMATION THE STILE PATENT GRASS	MAP REF 70 331083
WEATHER SHOWERY	SURVEY TYPE RESISTIVITY
DEPTH UNIT METRES	RESISTIVITY UNIT KIMH
	DEPTH UNIT METRE
	OPERATOR John Funnell
	LOCATION LADWELL CAMPION

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	71	72	72	73	72	76	78	74	76	71	78	77	76	80	75	78	76	78	77	79	A
B	73	74	73	73	75	74	77	76	75	75	76	74	79	78	77	80	79	78	75	78	B
C	72	73	74	75	76	77	72	73	77	77	78	77	79	78	80	78	80	71	75		C
D	71	68	71	69	73	73	72	72	77	78	76	80	78	74	75	75	75	76	72	74	D
E	69	67	73	71	73	70	73	76	78	78	75	76	76	76	72	77	73	76	75	74	E
F	71	70	70	71	73	74	74	76	77	77	77	76	74	73	72	73	70	74	74	74	F
G	69	70	69	69	69	70	77	76	77	78	78	76	74	76	72	73	71	74	73	73	G
H	69	69	69	71	69	70	76	77	77	75	76	76	75	75	74	72	72	75	76	73	H
I	66	65	69	69	69	70	74	76	73	75	75	76	76	74	73	73	77	74	74	72	I
J	69	67	67	68	68	68	73	72	74	74	75	75	72	76	74	75	74	76	73	75	J
K	71	68	67	68	68	68	72	71	73	77	77	77	76	76	75	75	74	74	74	75	K
L	69	69	67	67	67	69	73	73	75	77	76	76	73	74	77	74	73	72	71	74	L
M	70	68	67	68	68	70	69	71	72	72	73	73	71	71	75	73	72	71	75	73	M
N	67	67	68	67	67	70	70	71	72	70	76	75	75	74	74	73	74	73	74	72	N
O	73	70	67	67	70	71	68	71	71	72	74	76	75	74	74	73	74	72	71	70	O
P	91	88	70	71	70	71	70	73	72	70	73	75	71	77	73	74	71	69	71	70	P
Q	108	95	112	102	71	71	88	85	75	79	70	71	69	69	75	68	72	70	71	71	Q
R	75	83	77	82	70	73	78	78	77	73	73	69	70	68	78	78	72	70	88	71	R
S	78	77	75	74	73	75	79	81	78	77	77	74	74	71	70	69	72	71	70	71	S
T	83	81	82	80	78	80	82	82	80	83	83	82	76	79	77	78	76	78	75	77	T