

Environmental Statement: Volume 6, Annex 1.1 – Borehole Logs

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Date: May 2018







Environmental Impact Assessment

Environmental Statement

Volume 6

Annex 1.1 - Borehole Logs

Report Number: A6.6.1.1

Version: Final

Date: May 2018

This report is also downloadable from the Hornsea Project Three offshore wind farm website at: www.hornseaproject3.co.uk

Ørsted

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Front cover picture: Kite surfer near a UK offshore wind farm © Orsted Hornsea Project Three (UK) Ltd., 2018.

Liability

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Approved by: Sophie Banham







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Acronyms

Acronym	Description
BGS	British Geological Survey
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current

Units

Unit	Description
m	Metre (distance)
km	Kilometre (distance)







1. Introduction

1.1 Purpose

- 1.1.1.1 This annex provides details of all borehole logs within the Hornsea Three geology and ground conditions study area as defined in volume 3, chapter 1: Geology and Ground Conditions.
- 1.1.1.2 Table 1.1 and Figure 1.1 (sheets 1 to 9) confirm the location of these boreholes. The logs of all the boreholes listed in Table 1.1 are provided at Appendix A. The borehole logs were obtained from British Geological Survey (BGS).
- 1.1.1.3 The information presented in this annex has been used to inform the baseline and impact assessment presented in volume 3, chapter 1: Geology and Ground Conditions.

Table 1.1: BGS Borehole Logs.

Easting	Northing	Label	BGS reference
610390	343440	R A F Station Weybourne NO 1	TG14SW23
610390	343330	R A F Station Weybourne NO 2	TG14SW24
610390	343250	R A F Station Weybourne NO 3	TG14SW25
610360	343170	R A F Station Weybourne NO 4	TG14SW26
611630	334400	Rifle Range Plumstead	TW13SW19
611300	333200	Great Farm Saxthorpe	TG13SW5
611460	332340	Shrub Farm Saxthorpe	TG13SW17
609980	328780	Red Pit Farm Wood Dalling	TG02NE26
612370	322350	Booton Norfolk	TG12SW1
612260	321620	The Grove Booton	TG12SW27
612030	318780	Hall Road Farm Alderford	TG11NW79
612200	314270	Morton Estate Norfolk 7	TG11SW112
612430	313480	Blackbeck Plantation Ringland	TG11SW12
612710	313300	Morton Estate Norfolk 5	TG11SW114
612800	313300	RW1-Ringland	TG11SW99
612800	313300	RW2-Ringland	TG11SW100

Easting	Northing	Label	BGS reference
612820	313270	Morton Estate Norfolk 6	TG11SW115
612780	313110	Morton Estate Norfolk 4	TG11SW117
612750	310995	A47 Norwich Southern Bypass 7	TG11SW74
612960	309440	Malvern Marlingford	TG10NW33
613560	309440	Cobbs Grove Plantation Marlingford	TG10NW14
614140	308950	North of Algarsthorpe	TG10NW20
614840	307600	Valley Farm; Marlingford	TG10NW76
614680	307580	Valley Farm Barford ABH	TG10NW45
615780	306650	Glenhaven Little Melton	TG10NE87
615310	306570	Church Farm Little Melton	TG10NE43
616440	305810	Burnthouse Lane Hethersett	TG10NE49
616690	304790	Station Lane Hethersett	TG10SE3
617530	304640	Wymondham-Cringleford 28	TG10SE94
617345	304520	Wymondham-Cringleford 27	TG10SE93
617380	304440	Wymondham-Cringleford 35	TG10SE97
617500	304420	East of Hethersett Station	TG10SE7
620750	303700	A47 Norwich Southern Bypass	TG20SW82
621490	303690	A47 Norwich Southern Bypass 148 (T)	TG20SW91
620986	303665	A47 Norwich Southern Bypass 592	TG20SW127
621460	303660	A47 Norwich Southern Bypass 147	TG20SW90
620870	303650	A47 Norwich Southern Bypass 141 (T)	TG20SW83
621360	303650	A47 Norwich Southern Bypass 146 (T)	TG20SW89
620950	303640	A47 Norwich Southern Bypass 142	TG20SW84
620980	303630	A47 Norwich Southern Bypass 144 A	TG20SW87
621160	303630	A47 Norwich Southern Bypass 145	TG20SW88
620950	303620	A47 Norwich Southern Bypass 143	TG20SW85
620970	303600	A47 Norwich Southern Bypass 144 (T)	TG20SW86
618420	303560	South-West of Hall Farm Intwood	TG10SE11
620640	303280	Sports Ground Swardeston	TG20SW166
620640	303280	Sports Ground Lakenham Hewitt	TG20SW112







Easting	Northing	Label	BGS reference
621360	303180	Near Mangreen Hall Swardeston	TG20SW14
620640	303150	Police House Swardeston	TG20SW55
619570	302330	South-West of Hospital Farm Swardeston	TG10SE18





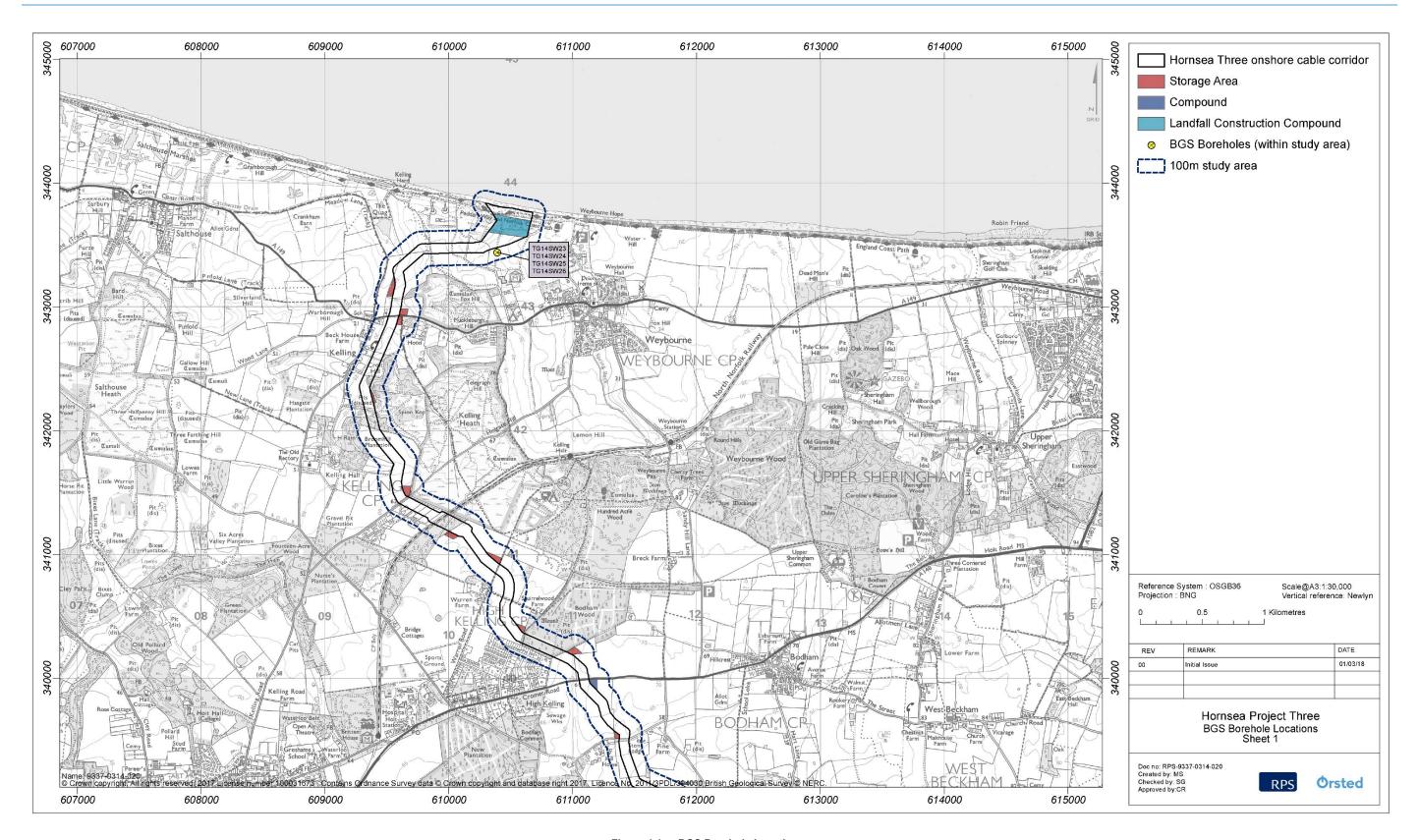


Figure 1.1: BGS Borehole Locations.







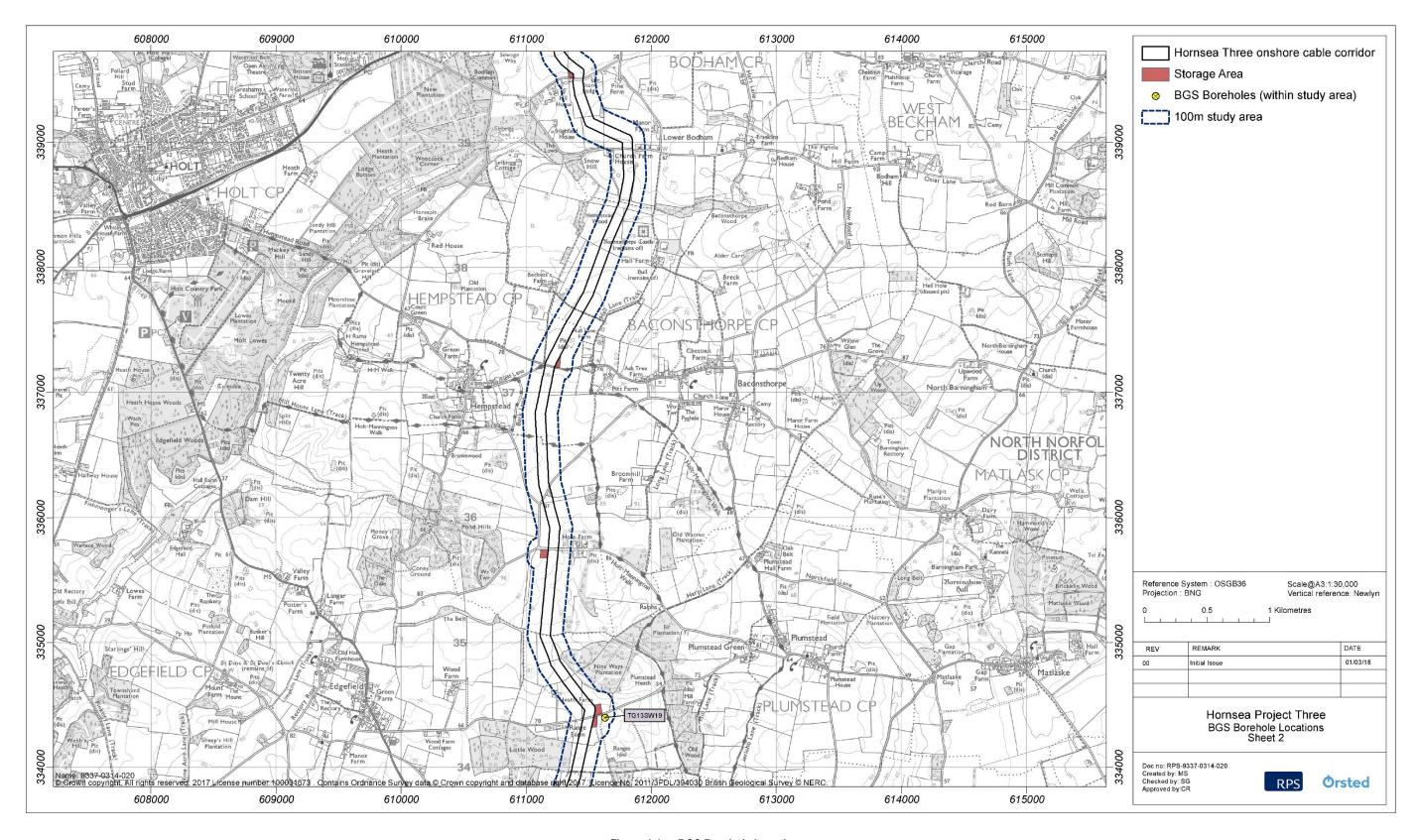


Figure 1.1: BGS Borehole Locations.







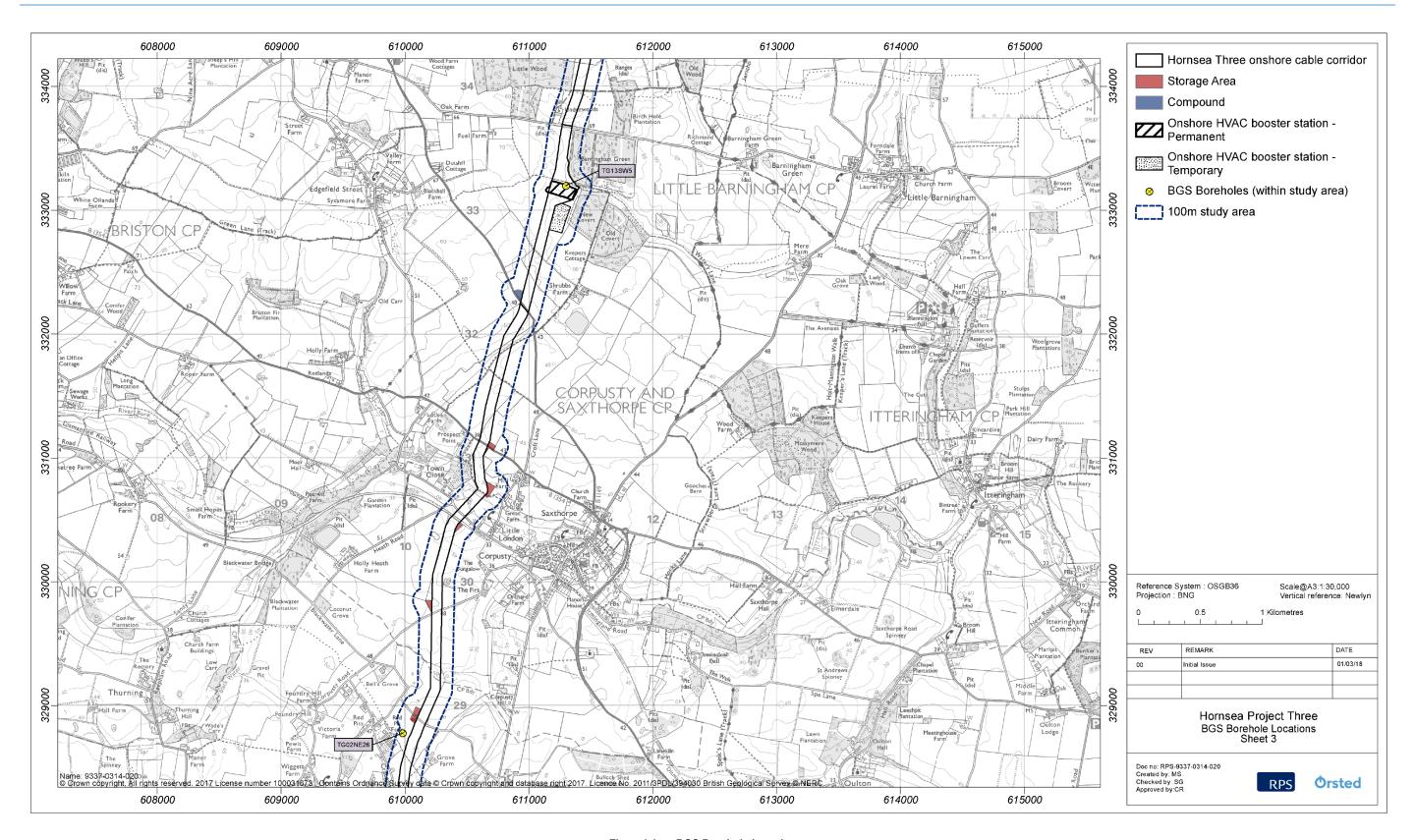


Figure 1.1: BGS Borehole Locations.







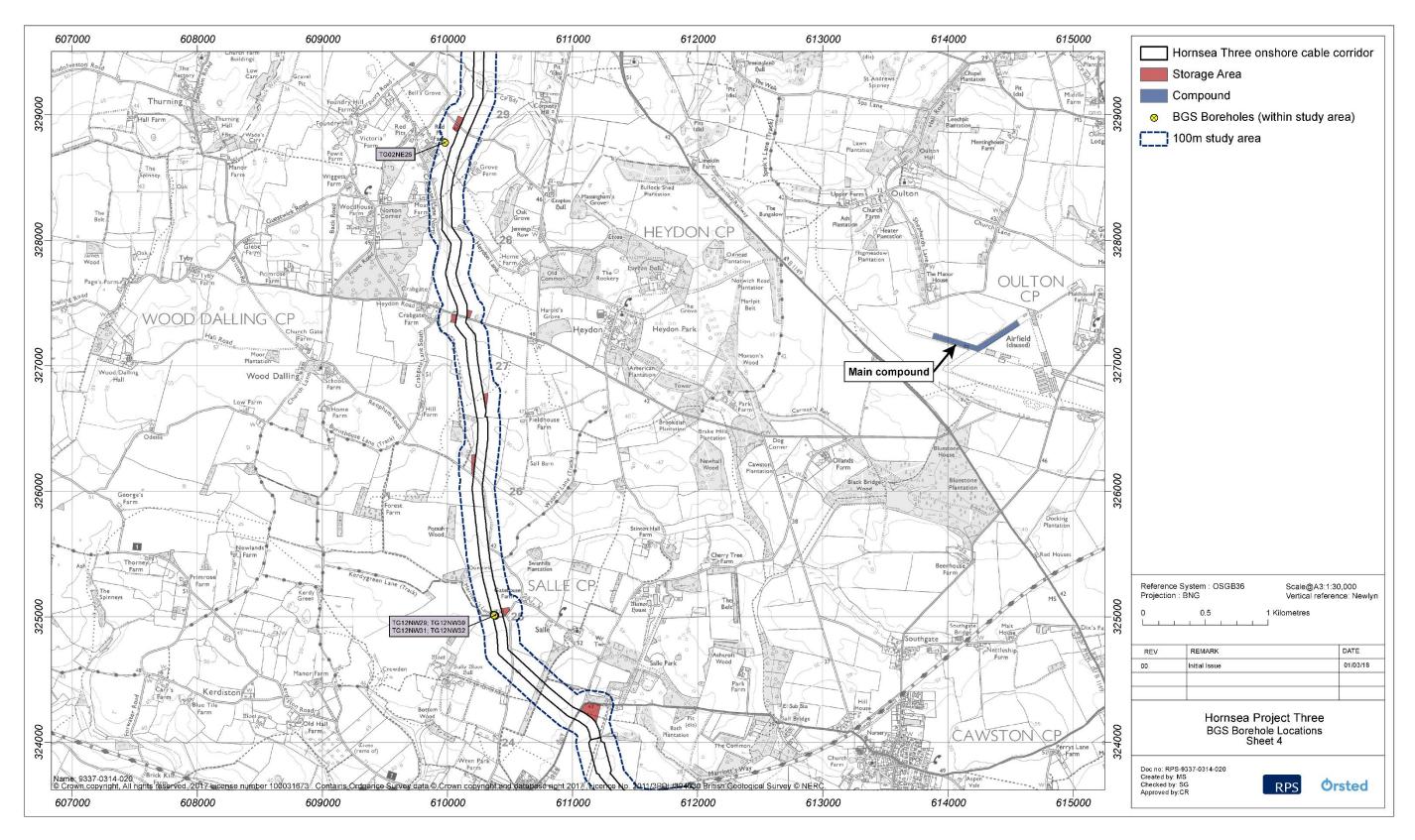


Figure 1.1: BGS Borehole Locations.







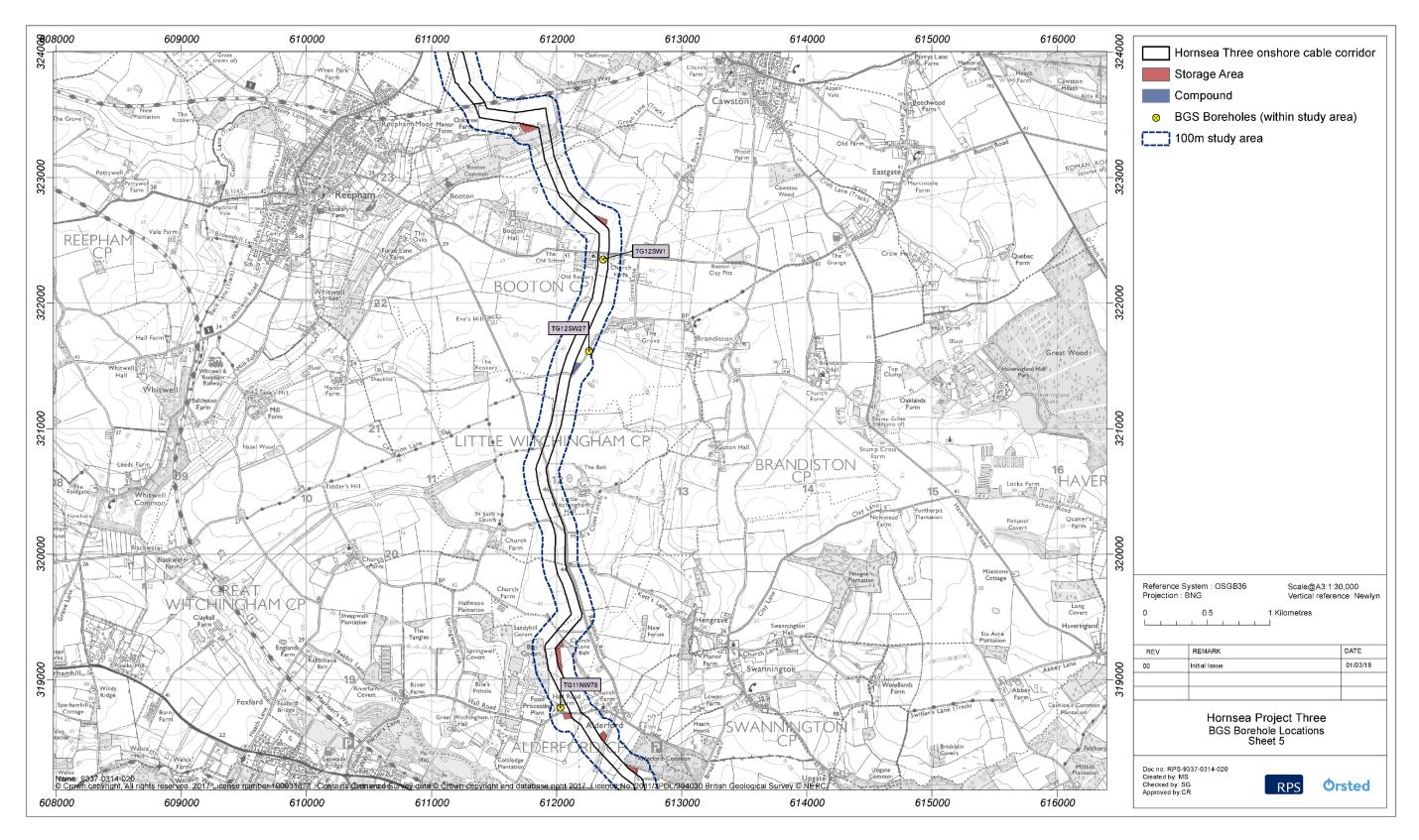


Figure 1.1: BGS Borehole Locations.







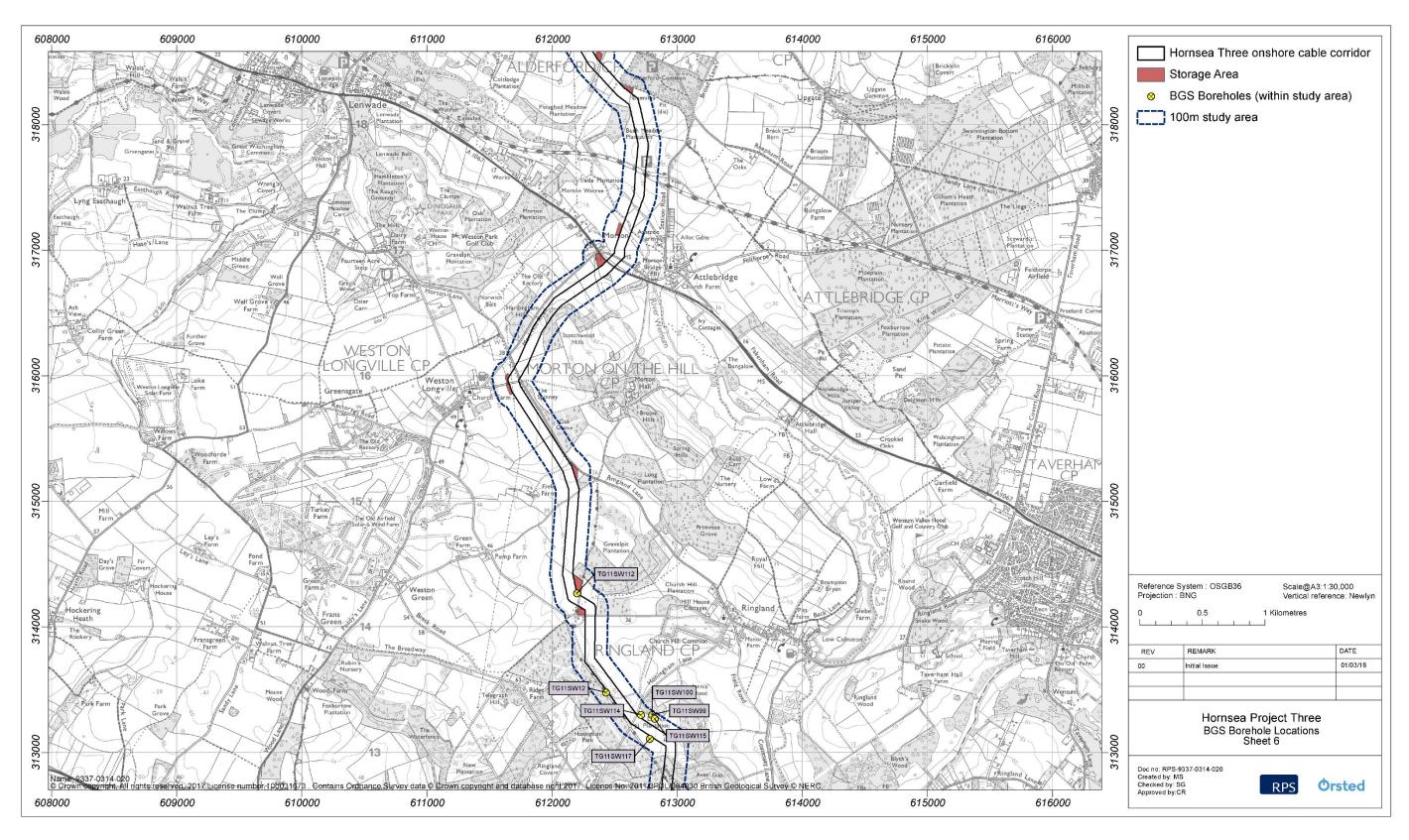


Figure 1.1: BGS Borehole Locations.







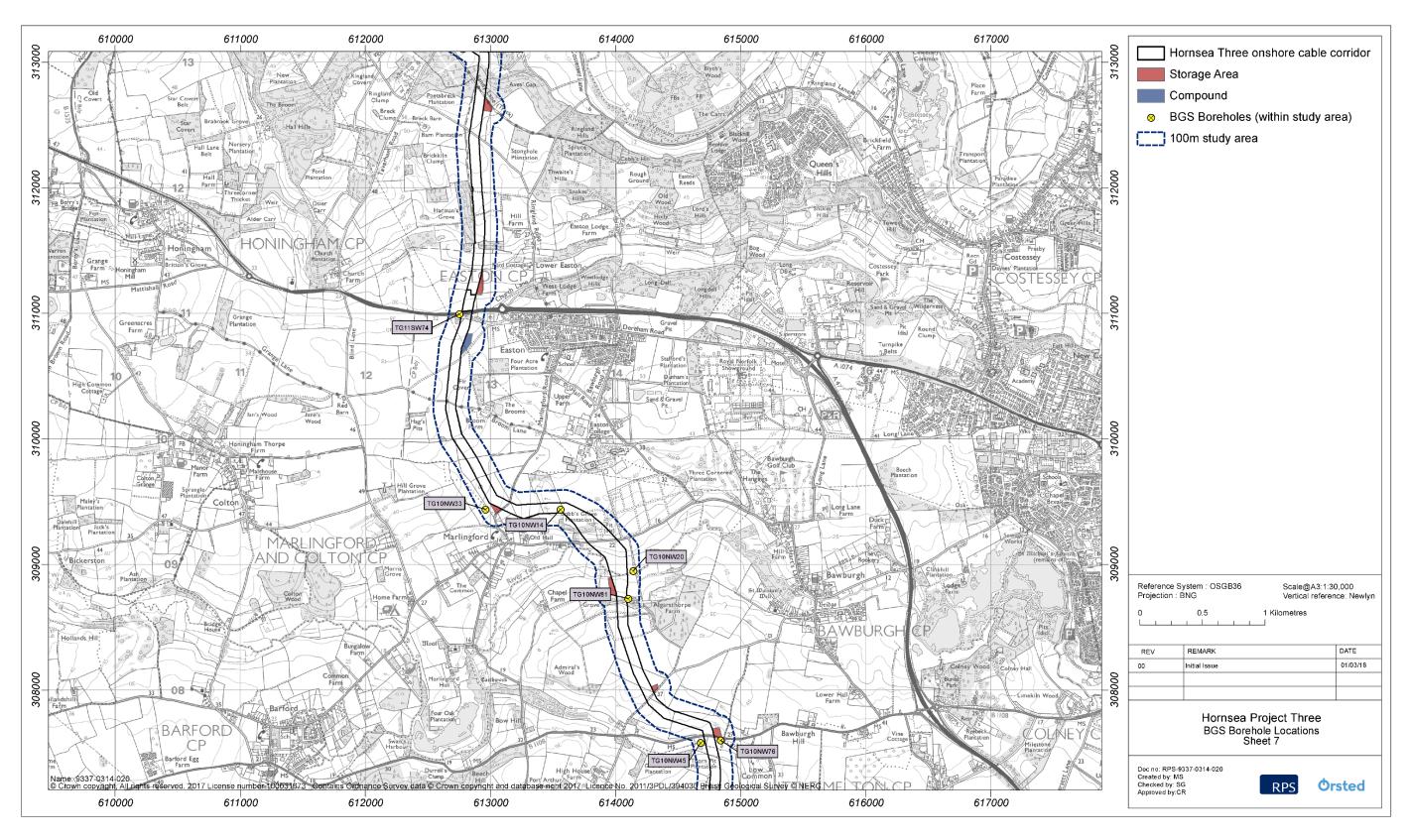


Figure 1.1: BGS Borehole Locations.







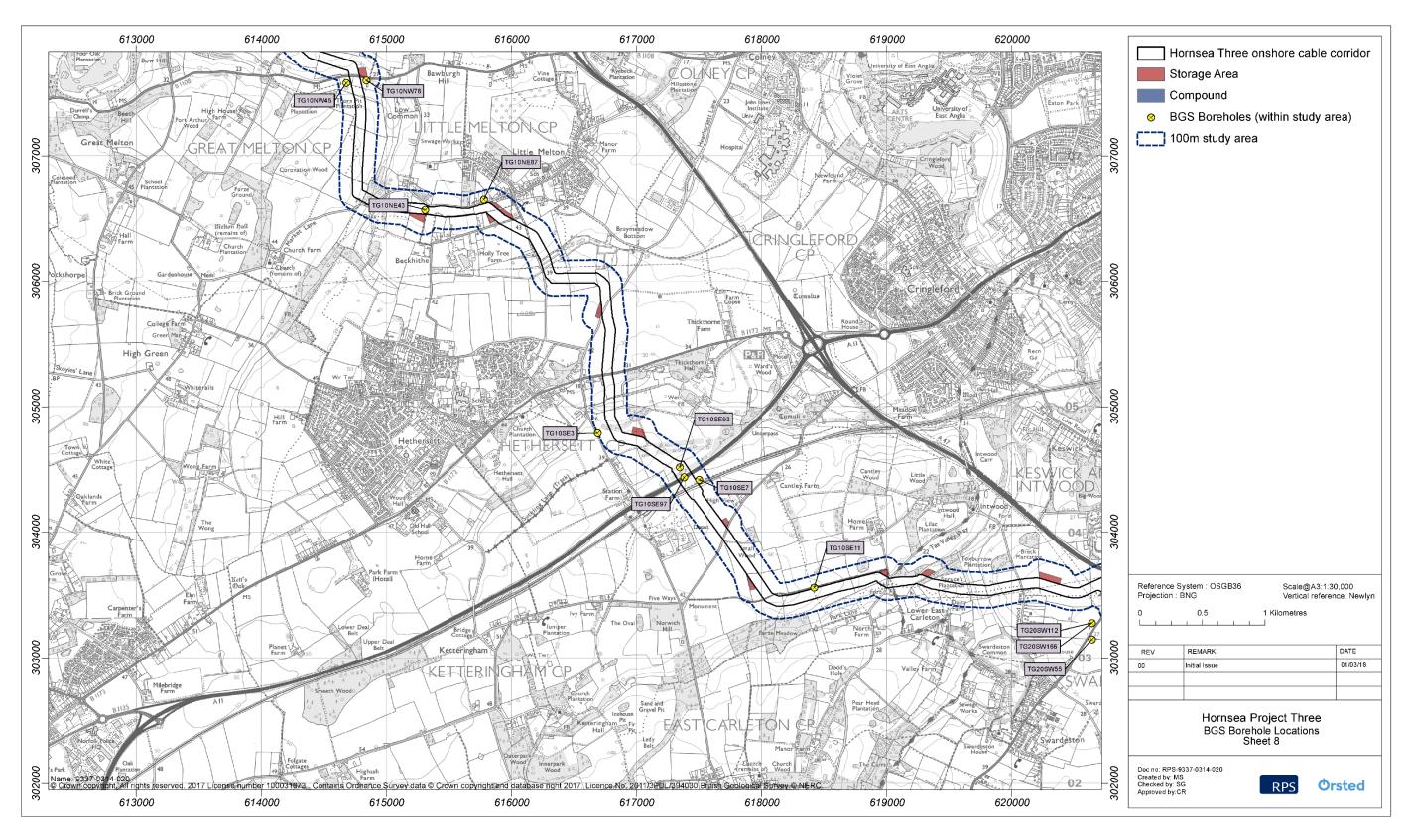


Figure 1.1: BGS Borehole Locations.







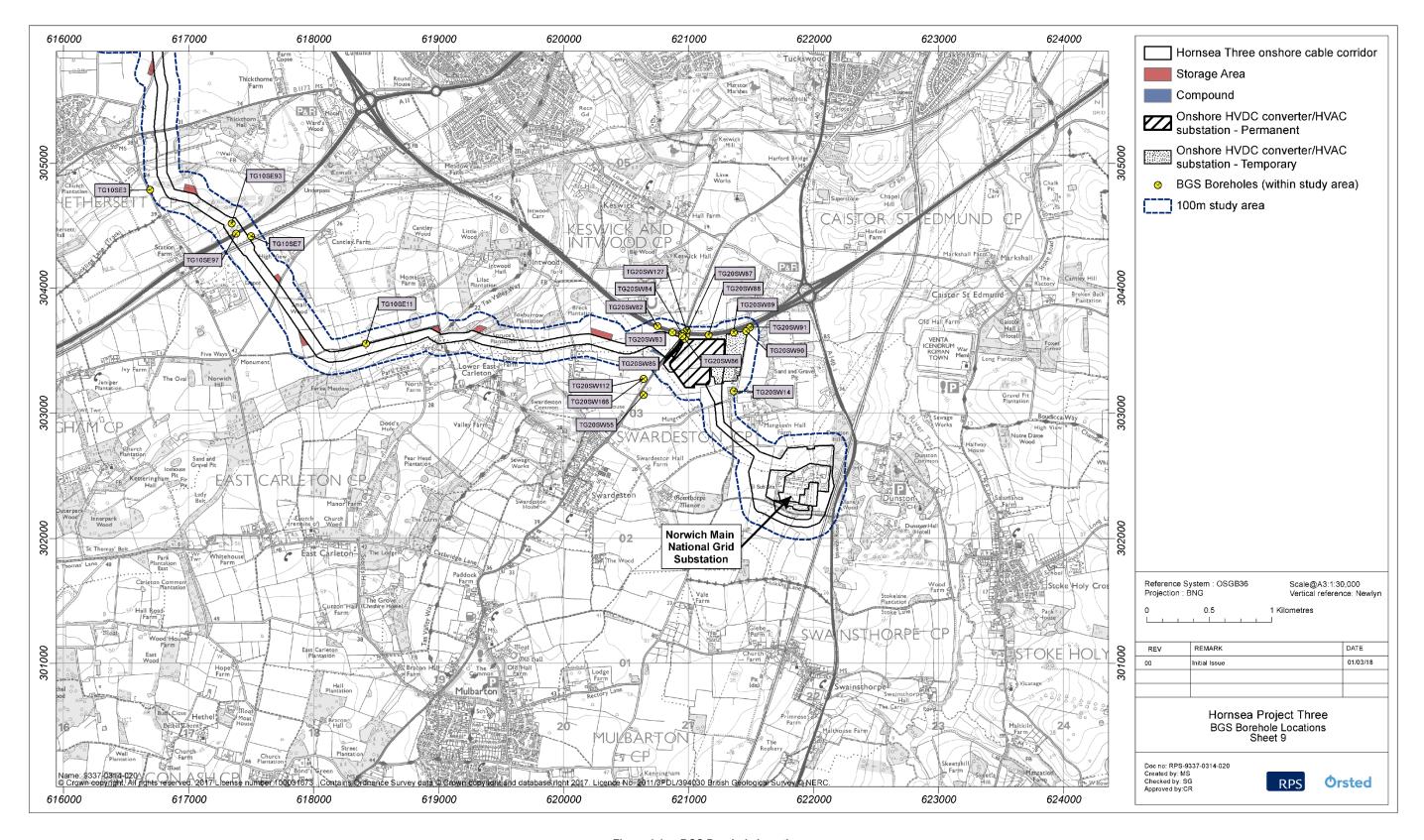


Figure 1.1: BGS Borehole Locations.



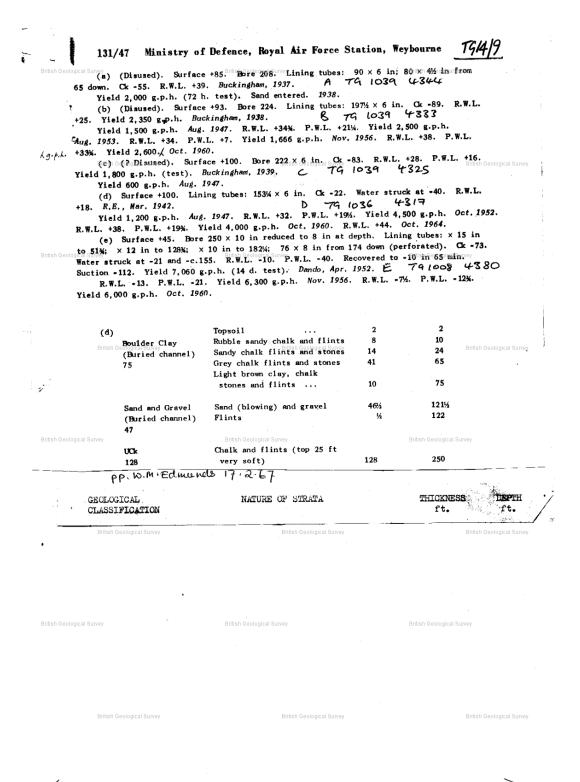




Appendix A Borehole Logs

A.1.1 TG14SW23

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British Geological Survey	British Geological Survey	British Geological Survey
BH REGISTRATION I	number(s)	
British Geological Survey	British Geological Survey	British Geological Survey









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05/t- down	nt lining tubes (internal diameters preferred).				0
Water struck at de	pths of (feet)				
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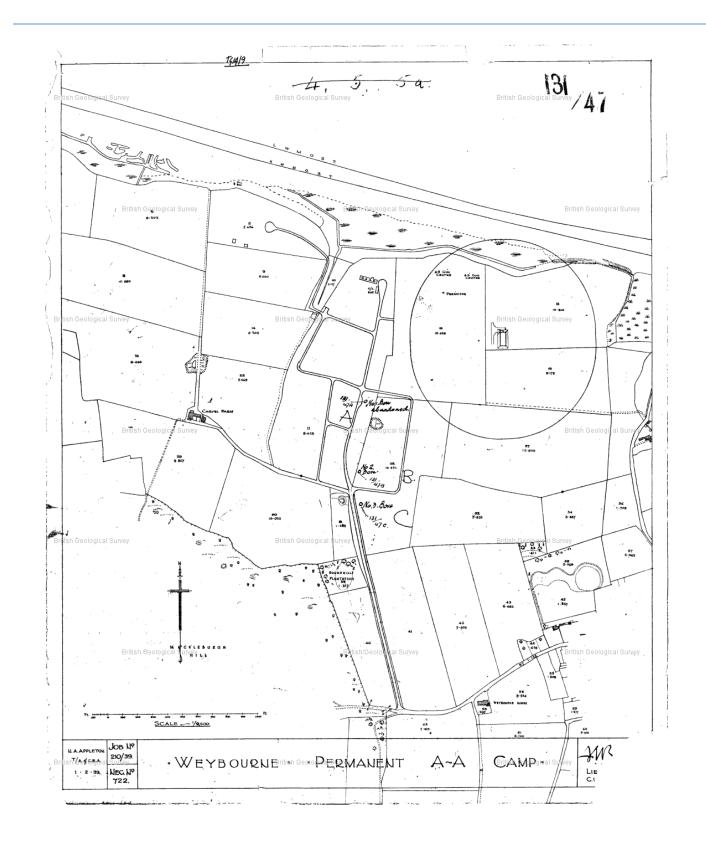
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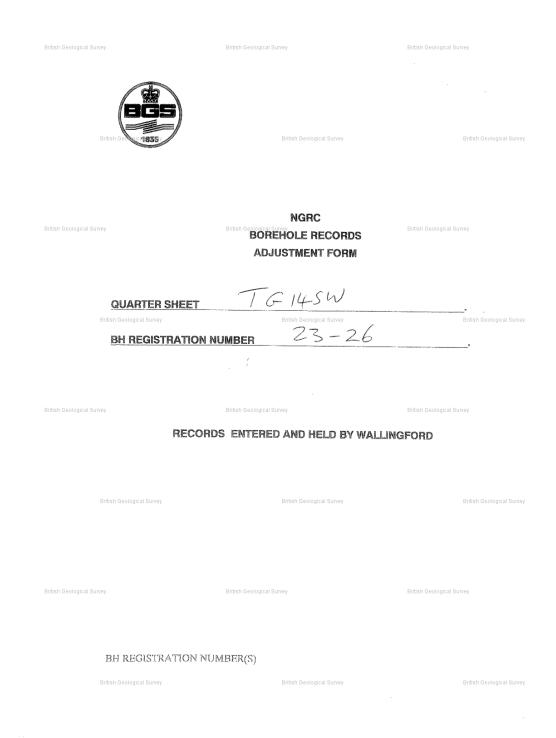








A.1.2 TG14SW24









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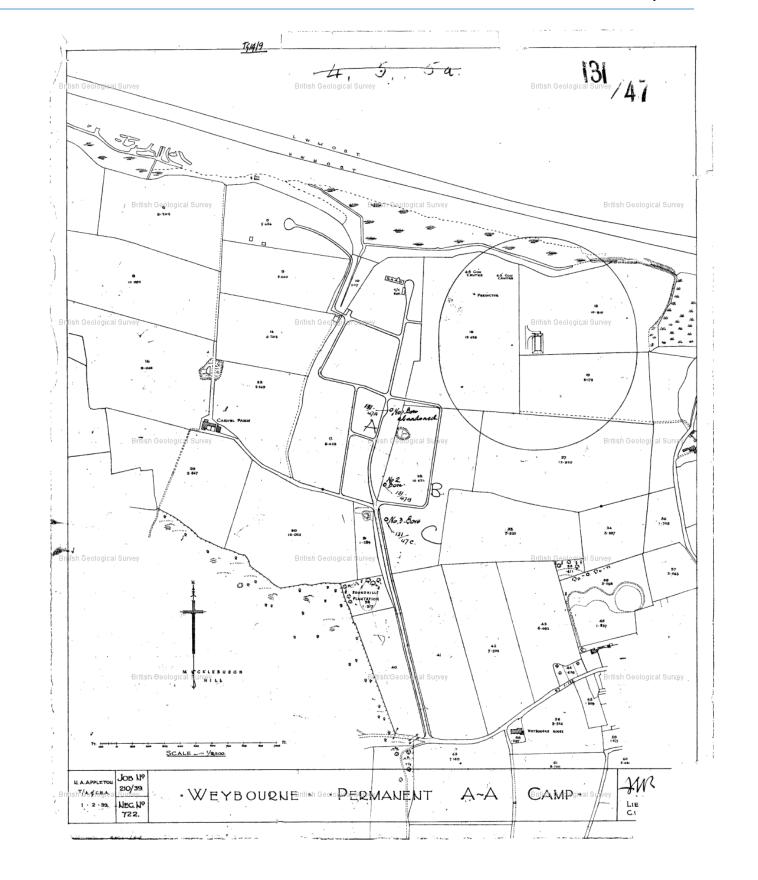
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(4)	Town or Village weybourne Holts County Nafolk Six-inch quarter sheet 10 N.W. E.
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	Exact site of well. British Geological Survey
	Level of ground surface above sea-level (O.D.) /OO feet.
	Is well-top at ground level? If not, state how far above;feet.
British Geologic	Shaftft., diameterft. Details of headings
	Bore 222 ft.; diameter of bore: at top 6 ins.; at bottom ins.
	Lengths, diameters, perforations, etc., of lining tubes
	Lengths, manneters, performances, seen, or among se
	Water struck at depths, below well-top, of (feet)
,	
	Test Details Rest-level of water /it. below well-top. Suction atit. Field ondays'
	Month pumping /800 gallons per Low (max. capacity of pump g.p.h.),
	Year with depression of 12 feet. Recovery to 72 in hours.
	above n
British Geologica	Rest-level of water in (month), (year), ft. below well-top. British Geological Survey
	Highest ,, in (month), (year), ft. above below "
	WORKING Lowest ,, in (month), (year), ft. above below "
	Suction atft. Rate of pumpinggalls. perforhours per day.
	mins.
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	Well made by Buckingham Date of well 1939
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(For Survey use only) GEOLOGICAL CLASSIFICATION	101	NATURE OF STRATA If measurements start below ground surface, state how far	Thici Feet 	Inches	DEPTH . Feet Inches	
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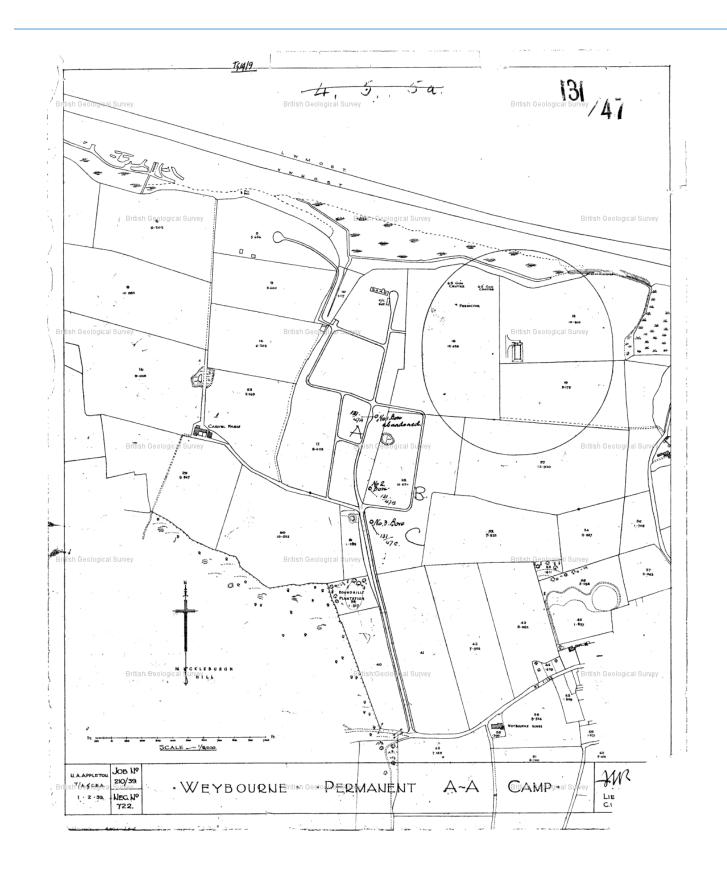
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	ritish Geological Survey			British Geol	ogical Survey A d	lditional Sheet No.	- British Geological	Survey
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(4130) Wt.34984/P.S.177 5	Section 6	Pump	ing test	Observ. well	Recorder	E.R. log	GEOLOGICA WATER DE SOUTH KE	PARTME

British Geological Survey		British Geological Survey		British Ged	logical Survey	
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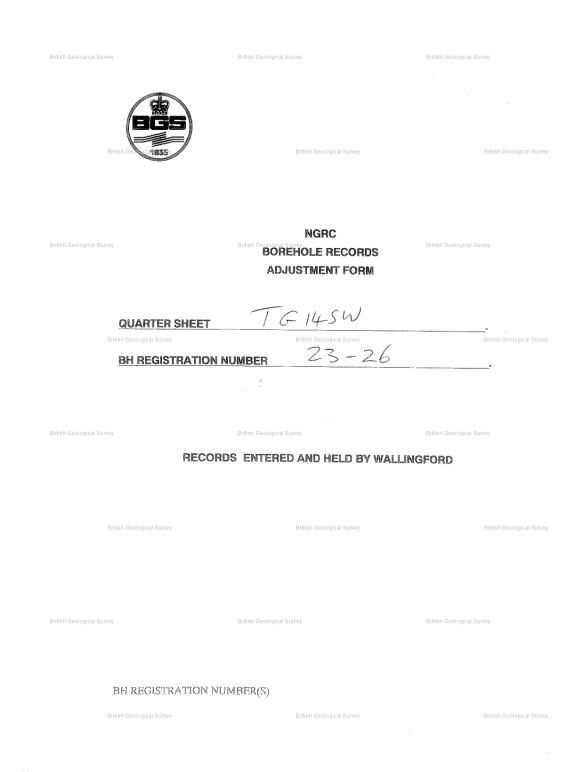








A.1.4 TG14SW26







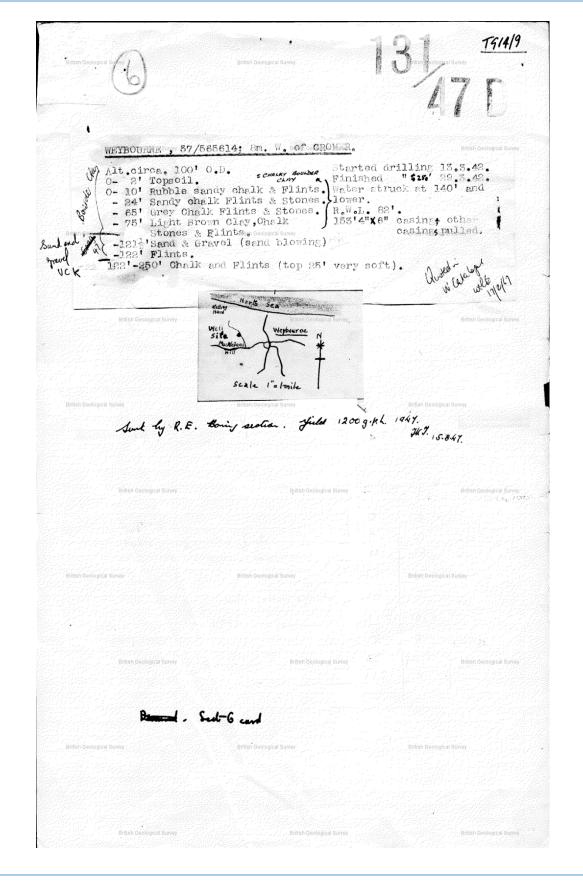


131/47 Ministry of Defence, Royal Air Force Station, Weybourne 79/4/9 (a) (Disused). Surface +85. Bore 208. Lining tubes: 90 × 6 in; 80 × 4½ in from 65 down. Ck -55. R.W.L. +39. Buckingham, 1937. A TG 1039 (4344) Yield 2,000 g.p.h. (72 h. test). Sand entered. 1938. (b) (Disused). Surface +93. Bore 224. Lining tubes: 197½ × 6 in. Ck -89. R.W.L. +25. Yield 2,350 g.p.h. Buckingham, 1938. & 79 1039 4333

Yield 1,500 g.p.h. Aug. 1947. R.W.L. +34%. P.W.L. +21½. Yield 2,500 g.p.h. Aug. 1953. R.W.L. +34. P.W.L. +7. Yield 1,666 g.p.h. Nov. 1956. R.W.L. +38. P.W.L. kg.p.k. +33%. Yield 2,600./ Oct. 1960. (e) (2 Disused). Surface +100. Bore 222 X 6 in Ck -83. R.W.L. +28. P.W.L. +16. Stills of 1,800 g.p.h. (test). Buckingham, 1939. C 79 1039 4325 Yield 600 g.p.h. Aug. 1947. (d) Surface +100. Lining tubes: 153% x 6 in. Ck -22. Water struck at -40. R.W.L. . R.E., Mar. 1942.

D 79 1036 4317

Yield 1,200 g.p.h. Aug. 1947. R.W.L. +32. P.W.L. +194. Yield 4,500 g.p.h. Oct. 1952. +18. R.E., Mar. 1942. R.W.L. +38. P.W.L. +19%. Yield 4,000 g.p.h. Oct. 1960. R.W.L. +44. Oct. 1964. (e) Surface +45. Bore 250 x 10 in reduced to 8 in at depth. Lining tubes: x 15 in to 51%; x 12 in to 128%; x 10 in to 182%; 76 x 8 in from 174 down (perforated). Ck -73. Water struck at -21 and -c.155. R.W.L. -10. P.W.L. -40. Recovered to -10 min 65 min 1999 Suction -112. Yield 7,060 g.p.h. (14 d. test). Dando, Apr. 1952. E 791008 4380 R.W.L. -13. P.W.L. -21. Yield 6,300 g.p.h. Nov. 1956. R.W.L. -71/2. P.W.L. -12%. Yield 6,000 g.p.h. Oct. 1960. Topsoil Boulder Clay Rubble sandy chalk and flints Sandy chalk flints and stones 24 (Buried channel) Grey chalk flints and stones 65 Light brown clay, chalk stones and flints ... 75 1211/2 Sand and Gravel Sand (blowing) and gravel 122 (Buried channel) Flints 47 Chalk and flints (top 25 ft 250 very soft) 128 pp. W.M. Edmunds 17,267 THICKNESS: NATURE OF STRATA GEOLOGICAL CLASSIFICATION

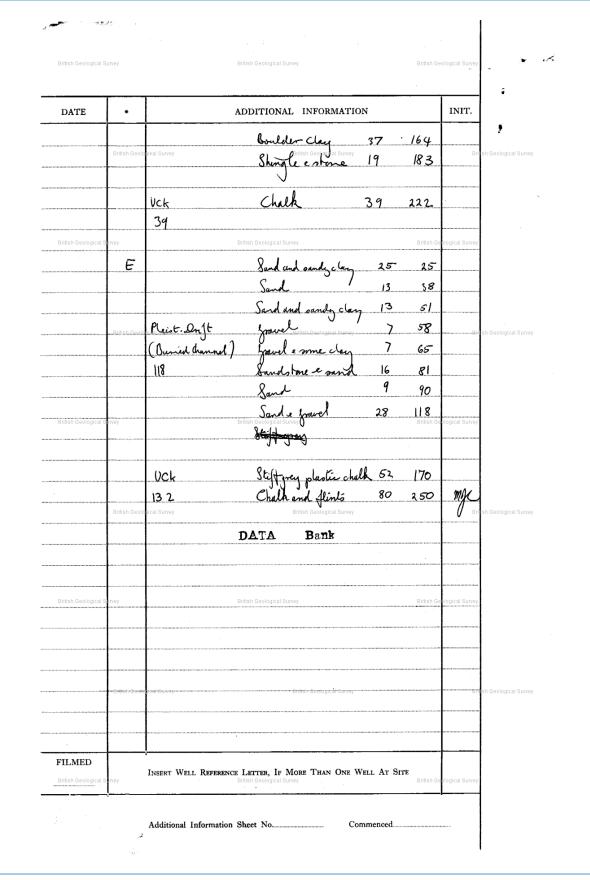








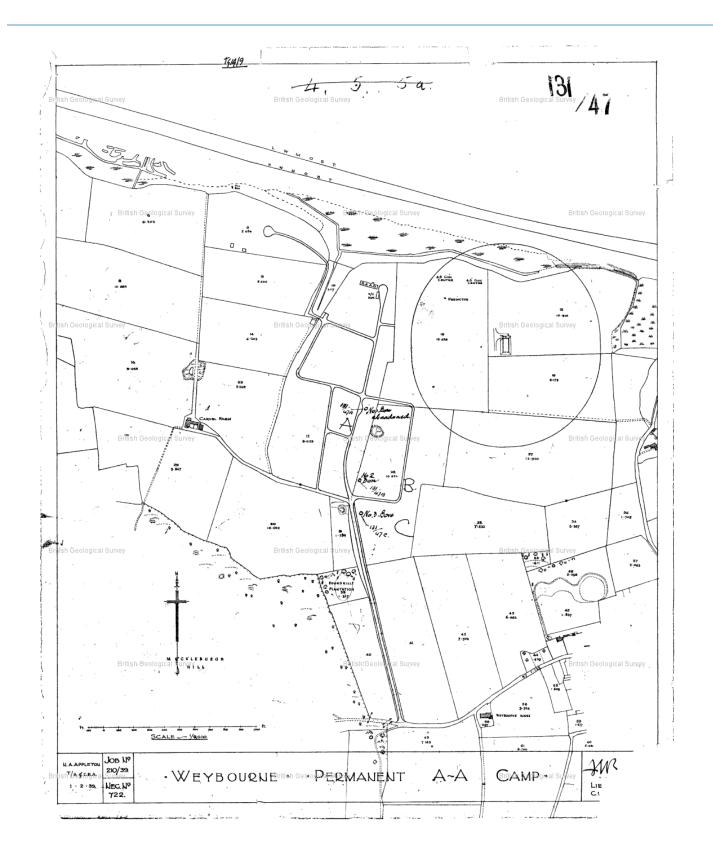
1	Royal Hotel British Geold		British Geologica 605	
Town, Village, &c	, Y.	County YORKS: W		· *
supplied, give distance a	tracing from a map is		Edition	on Sheet
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1	undft. above Ordnance Da			fleve) of ground
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	below top of well or bore			hours.
	depth. Yield: (i) on test			
1 .	analysis if available)			
1 3 .	Drittels-Geok			1893
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(For Survey use only).	NATURE	OF STRATA.	THICKNESS.	DEPTH.
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	For record see:	-		
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A.1.5 TW13SW19

	(test). Barnham, June 1939.		
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b n I/M Edand	thalk	17	246
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Pritish Goalagical Survey	British Geological Survey	British Coologies Commun	
British Geological Survey •	British Geological Survey	British Geological Survey	
		a a service	:







	RECORD OF WELL (SHAFT OR BORE)
British Geological Su	At Rahe Rouged Survey (Planched)
	Town or Village County Nofolk. Six-inch quarter sheet 185.E.W. (Lablot)
	For Mr Attach a tracing from
	British Geological Survey British Geological Survey a map, or, a sketch-ey map, if possible.
	Level of ground surface above sea-level (O.D.) 230 feet. Is well-top at ground level? feet. If not, state how far above; feet.
	Shaftft., diameterft. Details of headings
British Geological Su	Bore_240ft.; diameter of bore: at top_4 ins.; at bottomins.
•	Lengths, diameters, perforations, etc., of lining tubes
	Water struck at depths, below well-top, of (feet)
	TEST DETAILS Rest-level of water 86 ft. below well-top. Suction at ft. Yield on days
	Month function pumping 6 00 gallons per hour (max. capacity of pump g.p.h.), Year 1 9 3 9 with depression of 15 feet. Recovery to in hours.
	Rest-level of water in(month),(year),ft. above well-top.
British Geological Su	Highest ,, in (month), (year), ft. below ,
	WORKING CONDITIONS Lowest ,, in (month), (year), ft. above below ,,
	Suction atft. Rate of pumpinggalls. perforhours per day.
	with average depression offt. Recovery toinmins. hours Quality of water (attach copy of analysis if available) elogical Survey
	A.W.BARNHAM,
	Well made by Date of well June 773 9. Information from WALSINGHAM -
•	-ADDITIONAL NOTES.
British Geological Sur	ey Coaled Folia Coological Survey 23, 16 120 Brillish Geological Survey
	visited & siled. Still in use intermittently. To details available, yeg
	Visited & citics. Still in use intermittently. To details available. 1809 200.47. Visited. Building locked. 1990 14/7/60.
	British Geological Survey British Geological Survey British Geological Survey
	LOG OF STRATA OVERLEAF.
British Geological Sur	Date received. File No. South Kensington, London, S.W.7.
	(17205) Wt.42801/0877 10,000 2/41 A.& E.W.Ltd. Gp.686

British Geological St	
	At Risher Brisk Jour Cr (Plenshel) Brisk Burrer
$-I_{i}$	Town or Village
	County hardalk, Six inch quarter sheet 185.E.W.
م معهد با الأ	For Mr. (Lablet)
	Exact site of well. Attach a tracing from a map, or, a, sketo
	map, if possible.
	Level of ground surface above sea-level (O.D.) 2.30 feet.
	Is well-top at ground level? Hos. If not, state how far above; below;
	Shaftft., diameterft. Details of headings
British Geological St	u fey British Geological Survey British Geological Survey British Geological Survey
	Bore 240ft.; diameter of bore: at top 4 ins.; at bottom ins.
	Lengths, diameters, perforations, etc., of lining tubes
	Water struck at depths, below well-top, of (feet)
	TEST DETAILS Rest-level of water 85 ft. Seed well-top. Suction at ft. Yield on day
	Month Aure pumping 600 gallons per hour (max. capacity of pump g.p.)
	Month function pumping 600 gallons per hour (max. capacity of pump g.p.l. with depression of 15 feet. Recovery to in hours.
	with depression of 7.1 feet. Recovery to hours.
	ahove
	Rest-level of water in (month), (year), ft. above below well-top.
British Geological St	Highest ,, in (month), (year), ft. below ,,
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	CONDITIONS Lowest ,, in (month), (year), ft. above below "
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	with average depression offt. Recovery toinhours Quality of water (atlach copy of analysis if available) endograal Survey
	Quality of water (attach copy of analysis if available) hours A. W. BARNHAM, Well made by WALSINGHAM -
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A.1.6 TG13SW5

ATER MAINS LAID LL TYPES OF PUMPS UPPLIED & REPAIRED		V.A.T. Reg. No. 3			OREHOLES DRILL ACIDISED & TEST	
ENERATOR HIRE JMP HIRE		WELL	LOG		DLING (036287) 6 AX No.: (036287) 6	
USTOMER'S NAME:			SAX	THOUPE	<u>~</u> ~	ish Geological Sur
RID REF.: T.G			LINED TO: 4	35 FT	18" DIA 328 FT K	ir.
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NRA region: ANGLIAN (Britis Varwi 1 - 11 2	h Geological Su CH) ろい	7413/103	British Geo	C5C/D/1
Pump Well Identification NRA id No: 34/6/6/Es BGS (WL) No: 76/13 NGR: 76/155/33 Elevation: 6555 Measuring Point: C.J. LEE Site Name: Shruß FR Locality: EDGE FIELD	: (16) 20 Britis		Well details: Well details: diameter: casing details: observation bor number of obs bhs: obs bh details: ho details: British Deological Survey	rell: 10 460 which # eholes British Geo # Bls. 1 1 well in	mm 71·2m
Aquifer Details: confined / preconfined Aquifer Geology	If	confined	I, confining layer: Dick	from	to
Sounds to 15.15m Clay 24.2m Can sad Flint (2 37.8 m					

Pumping Test Details:

STEP TEST 19.3.92

date of test: Constant Rate 11.8.92-25.8.92

length of test: 14 clays

RWL: 7.37m

PWL: 39.22

Drawforn 32.2n (at 13 l/s?)

pumping rate: 15 l/s

RPS





				4	TG 13/	103	P25
British Geo	Additional Well Information:	Survey British Geolog	gical Survey	British emilitian all Survey	British Geological Survey	AQUIFER	British Geological Survey
	☐ Well Loss Data: B	C Efficiency		Source	METHOD	Ko	5
	Flow Logs	British Geological Survey	Briti h Geological Survey	British Geologic	ral Survey British Geologic	:al Survey	British Geological Survey
	Other Geophysical Logs	form		PROD BOXCE	EDEN & HAZEL STEP		
	Fissure Information: major inflow	fromtoto			STEP 2	9 m2/d	
		fromto		Delitab Contaminal Commun	STEP 3	66 m2/d	British Geological Survey
	(Igitor Borns) — — — — — — — — — — — — — — — — — — —	- Santay - Santay Santay	and Same ye	British Geological Survey	STEE #	42 m2/d	British Geological Survey
	Aquifer Parameters:		•	-n	COOPER JACOB PUMPING	91 m2/1	, 108 m 3/day
				,	COOPER JACOB RECOVERY	75 m=/a	
	Analysis Type:	Analysis Type: British Geological Survey	British Geological Survey	British Geologic		. /	British Geological Survey
	Transmissivity: See tabulation attacked	Transmissivity:		SHRUB FARM			, ,
	Storage Coefficient:	Storage Coefficient:		OBS BORE	COOPER JACOB EARLY PUMPING	306 m²/d	(1.3× 10-3)
					Middle - "-	455 ~ /4	` _
	Analysis Type:	Other Data: were Values used for predictions; solo		British Geological Survey	British Ganlarical Survey	1053 m3/d	
British Geo	bgical Survey British Geological Transmissivity:	i .	gical Survey	British devolution durvey	ATBE	1119 W3/A	British Googleal Survey
	Storage Coefficient:	$T = 160 \text{ m}^2/d$			Cooper Jacob Rec	5 5	78 m/day (2.3×10-6)
		S = \$ 2.6x 10-3		-9	Type were Pumping	1 + 20	53 m3/day (3.3 x 107)
			•			30	Smy4 (1.6 × 16.3)
	Confidence: ogical Survey excellent	British Geological Survey	British Geological Survey	British Geologic			, ,
		J LJ very poor		Blackhall Fan	m Cooper Jacob F	surprise 18	390m/d (3.8×10-2)
	Notes: 100 l modestice ou	your abtained from Jacob	$\overline{\pi}$			' -	977 m3/d (2.8× 10-8)
	Values de presure the	and the gauged against observe	and the state of t		٦	Secorery	977 ms/d (2.8× 10-3) 494 ms/d (9.7×10-7)
British Ged	Notes: Values ofor predictive pur Distance closs because these of ogical Survey Mansodowns do in the area dun	I Survey British Geolog	gical Survey	British Geological Survey	British Geological Survey		British Geological Survey
Ì		,		Shorth France	Aggs. bone C.J. Pur Raci		1 6
					18. Come C.J. Fun	ا سنم.	$187 \text{m}^3 / \text{d} \left(1 \cdot 1 \times 10^{-3} \right)$ $557 \text{m}^3 / \text{d} \left(9.5 \times 10^{-6} \right)$
				,		svery 15	557 m3/d (9.5 x 10-6)
	British Geological Survey	British Geological Survey	British Geological Survey	Distance / Drown	at Survey Han JACOB II British Geologic	:al Survey	162 m^2/d 2.6 \times 10 ⁻³





L TYPES OF PUMPS			BOREHOLES DRILLER ACIDISED & TESTER	
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A.1.7 TG13SW17

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width.	RECORD OF WELL		NAG 61.						
British Geologica	At & Shout Farm	British Geologica	Survey #752						
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{ }	County. Northalk. Brillish Geol	1413	1 222/						
OF WELL	Six-inch sheet \& SE \& Six-inc	h National Grid sheet	723						
	For Mr. CJF. Lee	State whether owner, tenant,	builder,						
		contractor, consultant, etc.:—							
• DELETE	Address (if different from above)	If well top is not at ground	ahove *						
WHICHEVER IS INAPPENDABLE ological	above sea level (O.D.). hrvx 175 ft. Survey	level, state how far British Geologica							
,	SHAFTft.; diameterft.;	HEADINGS (please attach deta directions)	ails—dimensions and						
	BORE 179ft.; diameter of bore: at top		in.						
	Full details of permanent lining tubes (position, le	ngth, diameter, plain, slotted et	c.)						
		ogical Survey							
	British Geological Survey British Geol	ogical Survey	British Geological Survey						
	Water struck at depths of		ft. below well top.						
	Rest level of water 45ft. above* well top. S	Suction atft. Yield on	hours'* test						
TEST	pumping at		,						
British Geologica	Survey Recovery to rest level in 3 British Geological Street, Capacity of p	British Geologica	easurements 1965						
	DESCRIPTION OF PERMANENT PUMPING EQU		,						
	Make and/or type								
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		Suction atft. below							
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en u	Well made by A lack Away Ltd. Date of sinking.								
	Information from Amin Win Wall	horjotk							
	ADDITIONAL NOTES ANALYSIS (please at	tach copy if available)	For Survey use only						
British Geologica	Survey Briligh Geological Survey	British Geologica	Received 6.2.66.						
	,		Section 6						
			Pumping test						
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e ever earl	British Geological Survey British Geol	ogical Survey	E.R., log						
G.722									
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1/60 M.F			1" map .Q. 16						
British Geologica	Survey British Geological Survey	British Geologic	6" map 0 /7.2.66. (use symbol)						
			Record forwarded						
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			date						
	V. 9		GEOLOGICAL SURVEY, WATER DIVISION,						
23/11/59	British Geological Survey LOG OF STRATA OVER	ogical Survey	SOUTH KENSINGTON, LONDON, S.W.7.						
S. N	LOG OF STRING OVER	AND ALL	11、大学学科						







2	NATURE OF STRATA	THICKNESS	Dертн	
(For Survey use only) GEOLOGICAL CLASSIFICATION	If measurements start below ground surface, state how far	Feet Inches	Feet Inches	•
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U bhock	Strillish Geological Survey British Geological Survey	49 -	179 -	C - 4.5
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147/562

MINISTRY OF HOUSING & LOCAL GOVERNMENT

Section 14 of the Water Act 1945

Ta13/1

Licence No. L/31/663

The Norfolk and Suffolk Area (Conservation of Water)

Order 1956

In this licence:-

- "the Minister" means the Minister of Housing and Local Government;
- (b) a group of two letters and eightfigures represents the map co-ordinates of the proposed position of the borehole which is the subject of this licence, estimated to the nearest ten metres on the grid of the national reference system used by the Ordnance Survey on its maps and plans.

The Minister, in exercise of his powers under section 14(6) of the Water Act 1945, hereby licenses br. C. J. Lee to construct a boxehole for the purpose of dealsh abstracting underground water at Shrub Farm, Corpusty in Morfolk, national grid reference TG/11453234, subject to the following conditions:-

- 1. The depth of the borehole shall not exceed 100 feet.
- The capacity of the pump to be installed for abstracting water from the borehole shall not exceed 750 gallons per hour.
- 3. Except with the consent of the Minister given after like proceedings with respect to the publication and service of notices, and the making and hearing of objections, as apply to applications for licences under section 14(6) of the Water Act 1945, not more than 5,000 gallons of water shall be abstracted from the borehole in any one day of 24 hours.
- 4. If the borehole is not constructed within one year from the date of this licence, the licence shall cease to have effect.

GIVEN under the Official Seal of the

Minister of Housing and Local Government

on 30th November

1961

Survey

H. J. RYAN
Assistant Secretary

Ministry of Housing and Local Government

Situal by O Norfold 185E/W

N.B. UNDER THE WATER ACT 1945, IT IS AN OFFENCE PUNISHALLE BY FINE TO CONTRAVENE ANY CONDITION ATTACHED TO THIS LICENCE.

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Partial Geological Survey

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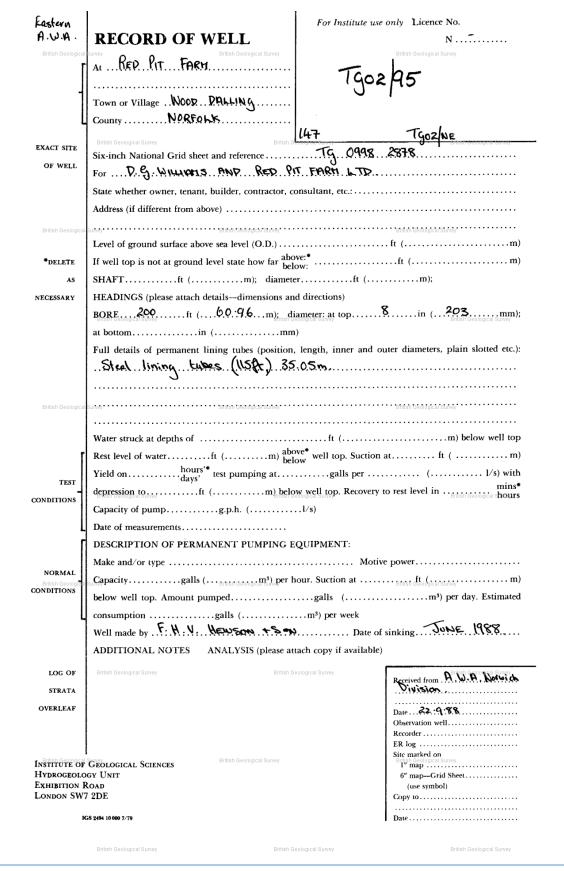






A.1.8 TG02NE26

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British Geological Survey	British Geological Survey NGRC BOREHOLE RECORDS ADJUSTMENT FORM	British Geological Survey
PIT QUARTER SHEET	TEMES CONSIDER NE 12 - 26	British Geological Survey
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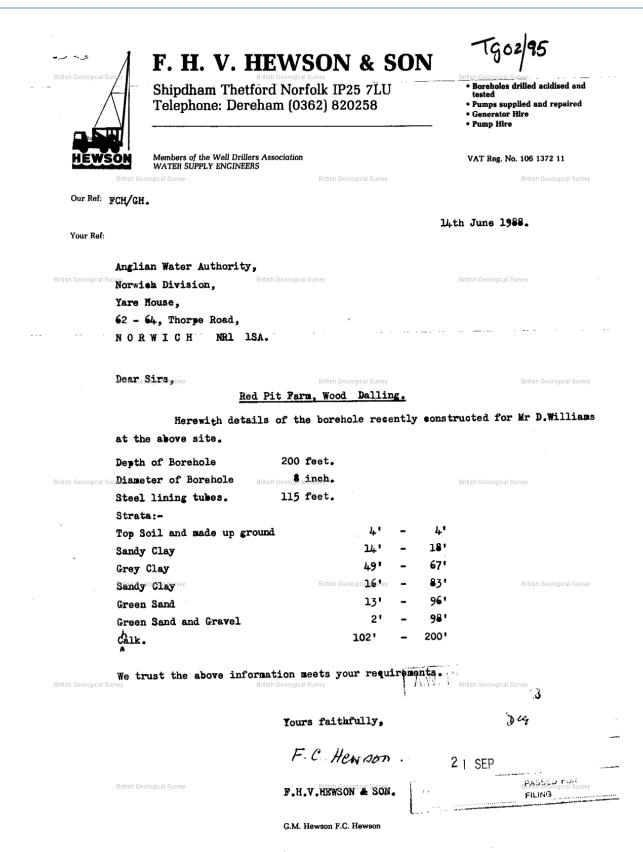








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L		ot Details 281 54	MARCH OCCUMULATION CONTROL CON	19 8% vey	Britts'i Geold	British Ger	ological Sur

British Geological Survey	British Geological Survey British Geological Survey
Additional Well Information	:
Well Loss Data: Well Acidified No British Geological Survey Other Geophysical Log Fissure Information:	B
Aquifer Parameters:	•
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Analysis Type: Transmissivity: Storage Coefficient:	Other Data: Value used for assessment in T= 233 n ² /d S= 3·32×10 ⁻³ gave older doub to those actually observed.
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A.1.9 TG12SW1

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L	County NORFONK		•
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TEST	Yield onhours'* test pumping at		
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L	Date of measurements. Brit		British Geological Survey
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British Geologia	Well made by T. W. PAGE 3.50%.		
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OF WELL	Six-inch National Grid sheet and reference							
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	Address (if different from above) OXNE							
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british deological s	Water struck at depths of ft (m) below well top							
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CONDITIONS	below well top. Amount pumpedgalls (
British Geological S			British Geological Survey					
	Well made by T. W. PAGE & SON.		sinking					
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			ER log					
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	M.I.C.E., N.I.W.E Divisional Engine		NR1 1BR
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	has been issued t	. Booton Hamo Lt	
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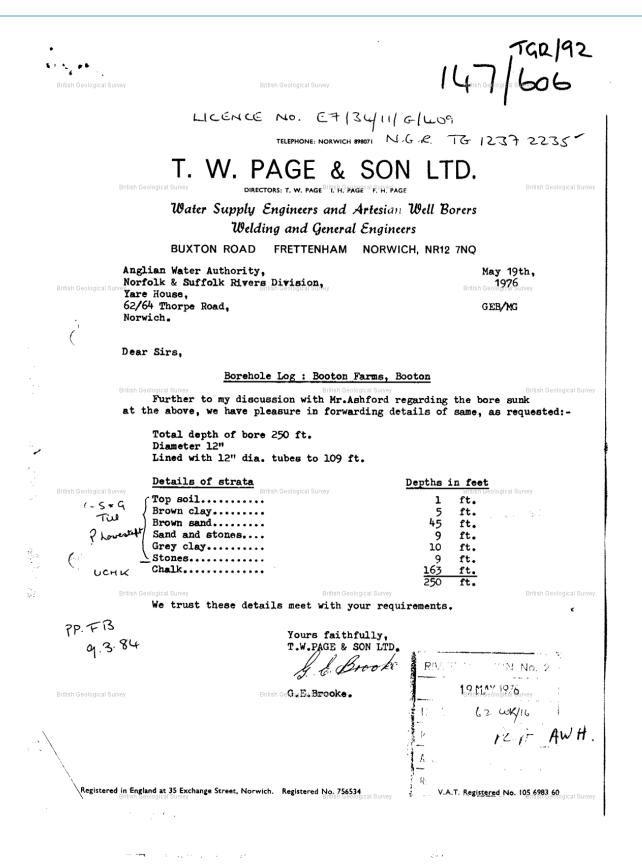


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	T W DACE O C	ON LTD
	T. W. PAGE & S	
British Geold		
	Water Supply Engineers and Arte	
	Welding and General En	gineers
	BUXTON ROAD FRETTENHAM NO	RWICH, NR12 7NQ
An ol	ian Water Authority,	May 19th,
Norf	olk & Suffolk Rivers Division.	1976
British Geological Survey Yare		British Geological Survey
62/6 Norw	4 Thorpe Road,	GEB/MG
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(Dear	Sá	
Dear	Sirs,	
	Borehole Log : Booton Farm	s, Booton
British Geold	Further to my discussion with Mr.Ashfo	vey Ritish Geological Survey
at t	he above, we have pleasure in forwardin	g details of same, as requested:-
	Motel death of home 250 ft	
	Total depth of bore 250 ft. Diameter 12"	
	Lined with 12" dia. tubes to 109 ft.	
	Details of strata	Depths in feet
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C-51G S	Top soil	1 it. 5 ft.
+ Till	Brown sand	45 ft.
7 hours to	Sand and stones	9 ft.
(-	Grey clay _Stones	10 ft. 9 ft.
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British Geological Survey Fake, May 1941.	Bore 4 in. Lining tubes: 1341/2. R.W.L.		
Boulder (Clay	TG 1	2/55
Sand and	Grave1	53 58	
Boulder (Clay	26 84	¼
UCk	•••	68% 152	%
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Bouder Clay 51	BRICK PARTH	4'0"	5' 6"
and the second s	[LOAN SAND	4' 6"	10'0"
The second second	LIGHT GREY CLAY	8 0	18"
SAND AND BRAVEL	FINE LIGHT GREY SAND	25'0"	43
Survey	LIGHT BROWN SAND	12 Gillish Geological	55 6
	LAND AND SHINGLE	3 0	28, 6,
	GERRY CLAY	3' 6"	62' 6"
BOULDER CLAY	BLUE CLAY	22' 6"	84 6
British Geological Survey	SOFT CHALL (PUBE)	50 1"	Britis 354 logical Survey
U. CHALK 68%	HARD CHALL	18' 3"	15-2 10
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British Geological Survey	British Geological Survey	British Geological	Survey
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. / . !	RECORD OF WELL (State or BORE)
Bhtish Geologica	At Searchlight to. R.E.
,	Town or Village Booton.
	County Norfock Six-inch quarter sheet 38 56/10.
	For Mr. War Office TG12/53
	Exact site of well 700 yes SSW of Church . Attach a tracing from a map, or a sketch-map, if possible.
	Level of ground surface above sea-level (O.D.) + 1440 feet.
	Is well-top at ground level?If not, state how far above;feet.
British Geologica	Shaft ft., diameter ft. Details of headings British Geological Survey British Geological Survey British Geological Survey
	Boreft.; diameter of bore: at topins.; at bottomins.
	Lengths, diameters, perforations, etc., of lining tubes
	Water struck at depths, below well-top, of (feet)
	British Geological Survey British Geological Survey British Geological Survey Aborrs Nours'
	Test Details Rest-level of water below well-top. Suction at the Yield on days'
	Month Many pumping 6 00 gallons per 6 (max. capacity of pump g.p.h.),
	Year 1941 with depression of feet. Recovery to in hours.
British Geologica	Rest-level of water in(month),(year),tt. above well-top.
	Highest ,, in (month), (year), ft. below ,,
	Working Toward in (month) (work) 4 above
	Suction atft. Rate of pumpinggalls, perforhours per day,
	with average depression of ft. Recovery to in mins. British Geological Survey British Geological Survey Recovery to the state of the s
	Quality of water (attach copy of analysis if available)
	Well made by W. & G. Fahe, howich Date of well tray 194
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	Sile united ado/8/42 WB.
British Geologica	
British Geologica	10 na se exa
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British Geologica	Surface well tips of the Some Booten. Site of bore richical visited. Belongs to the Grove Booten. Site of bore richical by famworker slightly compressed of ake given and which is beside the fones buildings. No trace of bore now -? filled in. Lite not altered. 12.7.60 ask. LOG OF STRATA OVERLEAF.
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GEOLOGICAL CLASSIFICATION Boulder(lay) 5/2 Sand and Gravel 53 Boulder Clay LCk 68/4 RD 1965	Jop soil Brickearth Loan son Light grey Fine light gre Light brown	nents start below face, state how far	Brist	10 18 43 55	Control of the contro	eological Survey
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/	vey British Geological Survey Smish Geological Survey
4	Town or Village Booton 14 nds. 6 S.E. of Fahrensen
	CountySix-inch quarter sheet
	For Mr
	Exact site of well See tracing [Attach a tracing from
	British Geological Survey a. map, or a sketch map, if possible.
	Level of ground surface above sea-level (O.D.) /30 feet.
	Is well-top at ground level?If not, state how far above ;feet.
	Shaftft., diameterft. Details of headings
h Geological Su	vey British Geological Survey British Geological Survey
	Bore /53 ft.; diameter of bore: at topins.; at bottomins.
	Lengths, diameters, perforations, etc., of lining tubes /34½ ×
	Water struck at depths, below well-top, of (feet)
	British Geological Survey British Geological Survey British Geological Survey
	TEST DETAILS Rest-level of water / t. above well-top. Suction at ft. Yield on days
	Month pumping 570 gallons per Lour (max. capacity of pump g.p.h
	Year with depression of feet. Recovery to in mins.
	Rest-level of water in(month),(year),tt. above well-top.
h Geological Su	British Geological Survey British Geological Survey above
	Highest ,, in (month), (year), above below ,,
	Working Conditions Lowest ,, in (month), (year), ft. above below "
	Suction atft. Rate of pumpinggalls. perforhours per day.
	with average depression offt. Recovery toinmins. British Geological Survey
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	Well made by Date of well ? 1941
	Information from Garrison Engineer Holt, per it WH Grac Palyan R.E.
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sh Geological St	ADDITIONAL NOTES. British Geological Survey British Geological Survey
	This is desired a survey contain deviction as a survey
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	British Geological Survey British Geological Survey British Geological Survey
	LOC OF CTRATA OVERVEAT
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sh Geological Su	Date G.S.M. Office 1" N.S. Map 1" U.S. Map Site marked (use symbol)

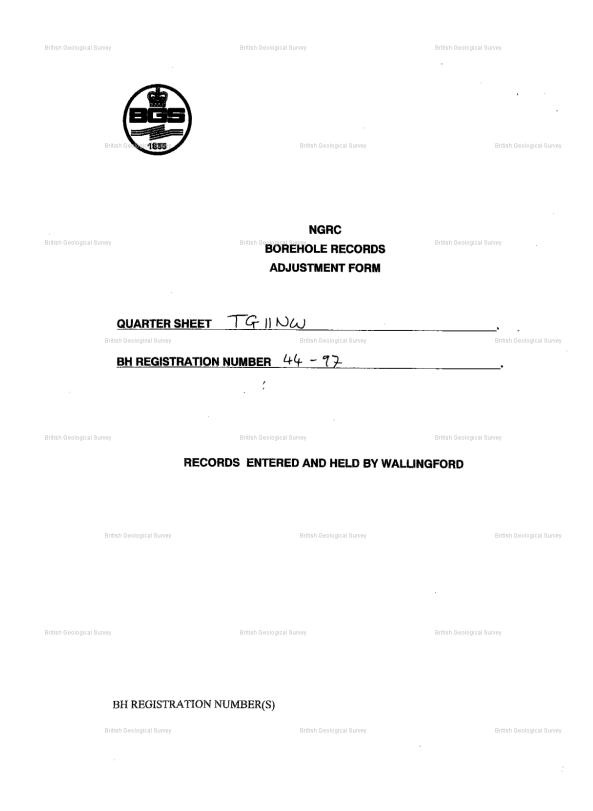






or Survey see only	NATURE OF STRATA	Тизс	KNESS	De	РТН	\ .F
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Bouldar S Clay 26	Blue clay	22	6	84	6	+78 L
uck {	SSt chief	40	0	/24	6	- +55 Z
74	J-Fand Chalk British Geological Survey British Geological Survey	28	1	152	10	eological Survey
British Geolog (a)	British Geologica Survey British Geologica Survey British Geologica Survey		BF (1997)	rish Geologia	i Survey	eological Survey.
British Geological	Billish Geological Surv		B	ish Geologie	British	esological Survey.
	Ellish Geological Survey British Geological Survey British Geological Survey			and a minimum of the second	British	Seological Sulvéy

A.1.11 TG11NW79









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Britisk Seological Su	RECORD OF WELL Hall Road British Geological Survey At Red House Farm,	For Survey use only Licence	No. N
	Town or VillageAlderford. County	Tall	1186
EXACT SITE OF WELL	Six-inch sheet 50 NE/N. Six-inc	State whether owner tenant	huilden
* DELETE WHICHEVER IS INAPPLICABLE	Address (if different from above)	If well top is not at ground level, state how far	above:* below;ft.
British Geological Su	BORE. ft.; diameter of bore: at top		in,
,			······
	British Geological Survey Water struck at depths of		ft, below well top.
TEST	Rest level of waterft. above* well top. S pumping atgalls. per	th depression toft. b	elow well top.
British Geological Su	DESCRIPTION OF PERMANENT PUMPING EQ	British Geolo UIPMENT:	gical Survey
NORMAL CONDITIONS	Make and/or typegalls. per hour. Amount pumpedgalls. per day. Es	Suction atft. belo	w well top.
1	Well made by	Date of sir	
	under WE	147/Gt. Witchingham, tach copy if available)	For Survey use only Date Received
British Geological Su	61 0" water in well - hand Visited and sets concerted.	British Geold Brich Lined -	Section 6 pical Survey Pumping test Observ. well
22	Shape 58' x c. 3. (plunked). R.W.L. 51' 11" b. S. Hand pump. OD + c. 95 Thomas Manual Hall Road	9	Recorder
60 MP.L:d. G.7;	00 + c. 93 British Geo	25/5/45 BH	1" map .Q
09/1 K01 C+8.4-	DA TA Ba	ink .	6" map Q 1 64. (use symbol) Record forwarded
Entish Geological (%9) (√9)	vey British Geological Survey	British Geold	
	LOG OF STRATA OVER	RLEAF.	WATER DIVISION, SOUTH KENSINGTON, LONDON, S.W.7.







	NATURE OF STRATA	Тніс	KNESS	DE	РТН	
For Survey use only) GEOLOGICAL CLASSIFICATION	If measurements start below ground surface, state how far	Feet	Inches	Feet	logical Surve Inches	į.
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A.1.12 TG11SW112

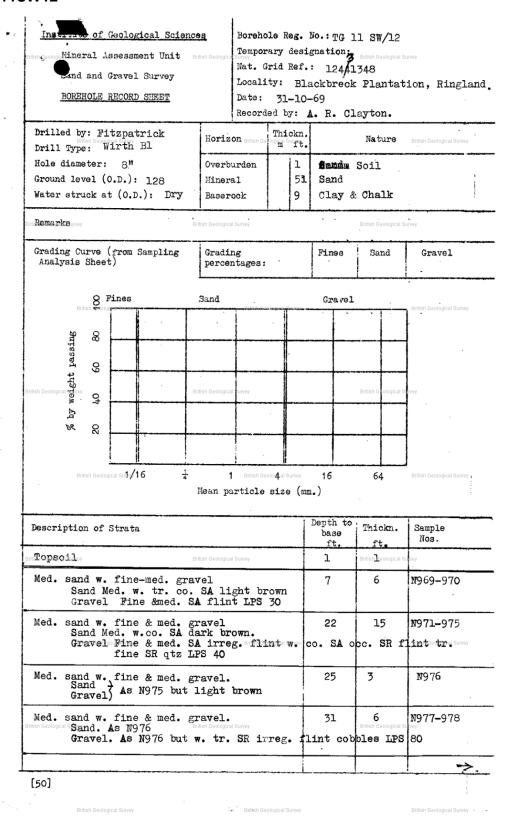
For Mr. J.V. Berney. O/No. 2374 Boring Completed on	6. 7 12.11			10.2	John Joy C	state evel	774	ISW/11 20 14	2 2
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BORING FOREMAN'S STRATA RECO	ORD STEEL	THIC			PTH ins	Date	WATER C	BSERVATIO	MS S
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Sand & gravel.		7	6		6				
Mottled clay.		ı	0	1	6			Nil.	
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Bfillsk Geological Survey	Briti	ish Ge din	O PE LOUIS						
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A.1.13 TG11SW12



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Grey Chalky Boulde	er Clay		58	6	_
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Surface lev Water not Wirth B1, October 1	struck 8 inch di		88	ft	Overburden (0. Mineral (15, 6; Waste (1, 8 m) Bedrock (0, 9 n	m) 51 ft 6 ft			
						Thickn (m)	ess ft	De _j (m)	oth ft
Britisl	h Geological Su	Soil.			British Geological Survey	(0, 3)	1	(0. 3)°	h Geological Surv
Glacial Sar and Grav	el	Gravel: traces traces occasi Sand: fi	of of on one	oarse subr fine al fli and	el occasionally absent. In fine, subangular with ed, mainly flint with ounded quartz, with bbles in parts. um with traces of coarse, o dark brown.	(15. 6)	51	(15. 9)	52
sh Geological Survey Boulder Cl	ay	Grey ch	alk	v cla	h Geological Survey	(1.8)	British Geol	(17. 7)	58
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sh Geological Survey					h Geological Survey		British Geol	ogical Survey	
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A.1.14 TG11SW114

or Mr. J.V. Berney. No. 2374 Boring Completed on 2.	at 11.62.). Lev		THIS	SW/11 1271
oring lined to a Depth of * 231011			Dia	meter	service Service	4"	
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Undisturbed Core Samples Taken at	() () ()	. *				Page 1	5.6
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A.1.15 TG11SW99

Anglian Water Region, NRA

900066

Code: AW016

* * GEORGE STOW & CO LTD * * Reading Road - Henley-on-Thames - RG9 1DX

BOREHOLE RECORD

Borehole No: RW 1

Date completed: 24-09 115 90 logical Survey

All depths to be measured below Ground Level

Client: N.R.A. Anglian Region

Exact Site: RW 1 - Ringland (NGR: TG 128 133)

Ground Level (O.D.):m

Depth of Bore: 65 m Diameter: At Top 450 mm. Bottom 300 mm

Details of Permanent Lining Tubes

Diameter Length Inser

450	mm	15.5	m	Plain		m	Slotted	Top At	0.5	m	A.G.L.
300	mm			17							B.G.L.
300	mm		m	57	36	m	re .	11	21	m	B.G.L.
300	******			••			19	21	E 7	-	P C T

Rest Level of Water below Ground Level: 18.10 m

Yield on test 18 hours Pumping: 48 litres/sec Date:22-09-90

Pumping Water Level: 23 m below G.L.

Time of Recovery:

Remarks:

	STRATA RECORD		
GEOLOGICAL	NATURE OF STRATA	THICKNESS	DEPTH
CLASSIFICATION		METRES	METRES
? Glacial Sand	light brown sand & stones	2 2	2
and Cornel	SAND & CHALK		4
eological Survey	-CLAY / CHALK with flints	2	6
	brown puggy CHALK with flints	2 ritish Geologica	I Survey 8
Uppo-Chalk	creamy soft CHALK	7	15
	soft CHALK with flints	24	39
	firm CHALK with flints	26	65

received N.Gd.C.

Eastern L.S.

Anglian Water

* * GEORGE STOW & CO LTD * *

Code: AW016

Reading Road - Henley-on-Thames - RG9 1DX BOREHOLE RECORD

TGIISW

Borehole No: RW 1

Date completed: 24-09-90

All depths to be measured below Ground Level

Client: N.R.A. Anglian Region

Exact Site: RW 1 - Ringland (NGR: TG 128 133)

Ground Level (O.D.):m

Depth of Bore: 65 m Diameter: At Top 450 mm. Bottom 300 mm

Details of Permanent Lining Tubes

Diamet	er	Len	gtì	n Inser	ted						
450	mm	15.5	m	Plain		m	Slotted	Top At	0.5	m	A.G.L.
300	mm ediodical Survey	8	m	"		m	eological Survey	- n	13	m	B.G.L.
300					36		17	**	21	m	B.G.L.
300	mm	8	m	11		m	11	11	57	m	B.G.L.

Rest Level of Water below Ground Level: 18.10 m

Yield on test 18 hours Pumping: 48 litres/sec Date:22-09-90

Pumping Water Level: 23 m below G.L.

Time of Recovery:

Remarks:

GEOLOGICAL CLASSIFICATION	STRATA RECORD NATURE OF STRATA British Geological Survey	THICKNESS METRES	DEPTH METRE:	
	light brown sand & stones	2	2	
	SAND & CHALK	2	4	
	CLAY / CHALK with flints	2	6	
	brown puggy CHALK with flints	2	8	
	creamy soft CHALK	7	15	
	soft CHALK with flints	24	39	
gical Survey	firm CHALK with flints	2 €itish Geologica	Surv 65	







TG11SW100 A.1.16

Eastern L.S. Anglian Water. Region, NRA

900066

TGIISW 100 128-133

Code: AW017

Reading Road - Henley-on-Thames - RG9 1DX

* * GEORGE STOW & CO LTD * *

TGIISW

BOREHOLE RECORD

Borehole No: RW 2

Date completed:

4-09-90

All depths to be measured below Ground Level

Client: N.R.A. Anglian Region

Exact Site: RW 2 - Ringland (NGR: TG 128 133)

Ground Level (O.D.): c. Som. m

Depth of Bore: 65 m Diameter: At Top 450 mm. Bottom 300 mm

Details of Permanent Lining Tubes

Diamet	ter	Leng	gtl	n Inser	ted						
British (Geological Surve	У			Britisl	n Geo	logical Survey				British Geological
450	mm	20.5	m	Plain		\mathfrak{m}	Slotted	Top At	0.5	\mathbf{m}	A.G.L.
300	mm	8	m	73		m	71	27	17	\mathbf{m}	B.G.L.
300	mm		m	11	36	m	tt	rt	25	m	B.G.L.
300	mm	4	m	71		m	71	37	61	m	B.G.L.

Rest Level of Water below Ground Level: 18.86 m

Yield on test 8 hours Pumping: 55 litres/sec Date: 4-09-90

Pumping Water Level: 22.11 m below G.L.

Time of Recovery:

Remarks: Prior to acidising gave 8.6 l/sec with 5m drawdown. Following acidising gave 55 l/sec with 3.25m drawdown.

GEOLOGICAL	STRATA RECORD	1 0141	DEPTH
CLASSIFICATION	NATURE OF STRATA		METRES
"Glacial loam and Mar!" - possibly Norwich Brickeuth	brown sandy soil	2	2
	brown clay	4	6
	grey-brown sandy CLAY	4	10
Uppe Chalk	puggy CHALK, flints at base CHALK with flints	Br 1 :0Geological Survey 45	20 65

2002

Inn 17/4/91

RECEIVED N.GD.C. DATE 5 NOV 1999 Eastern L.S. Anglian Water.

900066

TG WAZB

* * GEORGE STOW & CO LTD * *

Code: AW017

Reading Road - Henley-on-Thames - RG9 1DX

BOREHOLE RECORD

Tgusw

4-09-90

Borehole No: RW 2

Date completed:

All depths to be measured below Ground Level

Client: N.R.A. Anglian Region

Exact Site: RW 2 - Ringland (NGR: TG 128 133)

Ground Level (O.D.):m

Depth of Bore: 65 m Diameter: At Top 450 mm. Bottom 300 mm

Details of Permanent Lining Tubes

Diame	ter	Length Inser	ted	
450	mm	20.5 m Plain	m Slotted	Top At 0.5 m A.G.L.
300	mm	2 m 11	m 17	11 17 m R G T

m B.G.L. 300 mm 25 m B.G.L. 61 m B.G.L. 300 mm

Rest Level of Water below Ground Level: 18.86 m

Yield on test 8 hours Pumping: 55 litres/sec Date: 4-09-90

Pumping Water Level: 22.11 m below G.L.

Time of Recovery:

Remarks: Prior to acidising gave 8.6 l/sec with 5m drawdown. Following acidising gave 55 1/sec with 3.25m drawdown.

GEOLOGICAL	STRATA RECORD NATURE OF STRATA	THICKNESS	DEPTH
CLASSIFICATION	British Geological Survey	METRES	METRES gical Survey
	brown gordy goil	2	2
	brown sandy soil	2	2
	brown clay	4	6
	grey-brown sandy CLAY	4	10
	puggy CHALK, flints at base	10	20
	CHALK with flints	45	65







A.1.17 TG11SW115

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A.1.18 TG11SW117

For Mr. J.V. Berney. O/No. 2374 Boring Completed on 5.1	1.62.		Ć	.D. Le	kana a sana i	17/11/SW/ 1278 13	
Boring lined to a Depth of 2810 th			D	iamete	r 7 1 1		
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	TOTAL	DEPTH	28	0			
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Undisturbed Core Samples Taken at		#		Version of Notice	, ; ,		
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Disturbed Jar Samples Taken at - 1', 6		, 16	5¹,	21',			
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A.1.19 TG11SW74

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Bri	itish Geological Surv	vey			dy b avel		cla	y w	ith traces of British ((3.0) Geological Survey	10	(15.5)	51	Britis	h Geological Survey
	Upper Chalk			Cha	alk.					(0.9+)	3+	(16.4)	54		
British Geological Survey	Gravel Sand			64 64 16	mm + +	1	: S : S	21 14 ^G	eological Survey	Depth belo surface (f 1 - 4 4 - 7 7 - 10 10 - 13 13 - 17		Fines 6 2 6 0	rcentage Sand 42 46 70 70	52 52 52 24 30	
			-	1 ¼	+	1/4 1/ ₁₆	: 1	6							
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British Geological Survey							Britis	sh G	eological Survey			Brit	ish Geologi	al Survey	
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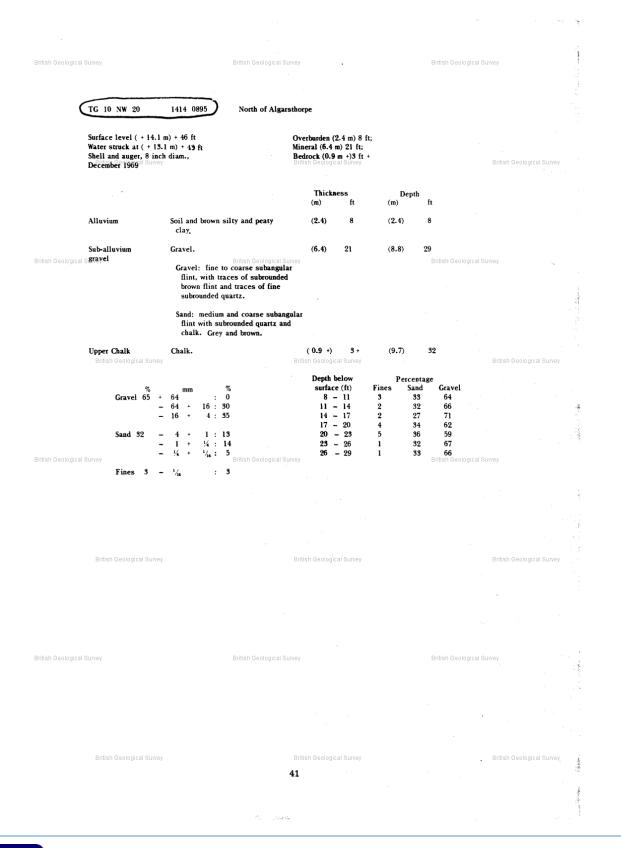




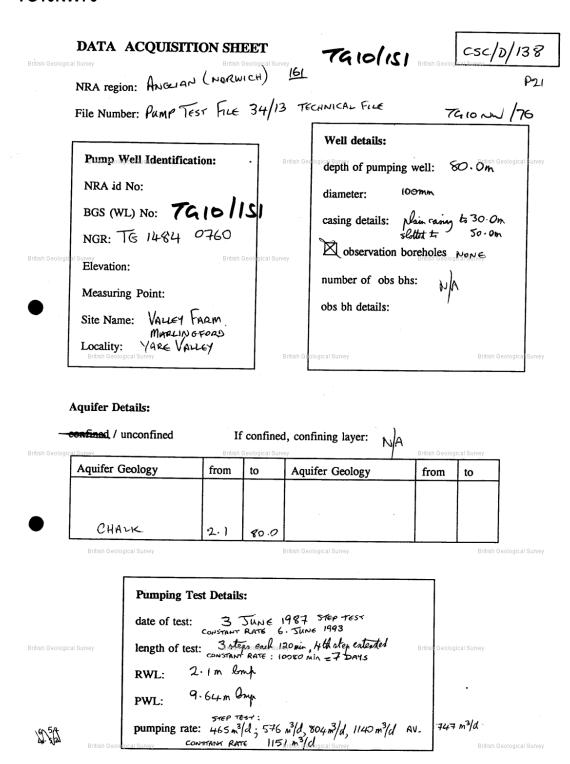
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A.1.22 TG10NW20



A.1.23 TG10NW76







ological Survey	British Geological Survey	British Geological Survey
Additional Well Information	on:	
Well Loss Data: Well Acidified Geological Survey Flow Logs Other Geophysical Log	B C Efficie	ncyBritish Geblogical Sur
Fissure Information:	major inflows from	
ologic al survey	British Geningical Survey	British Geological Survey
Aquifer Parameters:		
Analysis Type: Records Brillish Geological Survey Transmissivity: 208 m	SACOR SL Analysis Type:	British Geological Sur
Transmissivity: 208 m	Transmissivity:	
Storage Coefficient:	Storage Coefficient:	
Analysis Type: Transmissivity: Storage Coefficient:	British Geological Survey Other Data:	British Geological Survey
Confidence: excellent	British Geological Survey very po	British Geological Sur
Notes: Poorekol colaps agical Survey to carry out go	ed on pr completion of purping he physical Cogging	ence Ast possible British Geological Survey
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A.1.24 TG10NW45

Record of 762mm (30") nominal dia x 87m deep Water Abstraction borehole drilled for Anglian Water Services Ltd Histon Cambridge VALLEY FARM Nr BARFORD NORLK NGR TG 148 076 VALLEY FARM Nr BARFORD NORLK NGR TG 148 076 Thickness M. Depth M. Top soil Grey and brown sandy clay Antovina 1.20 1.70 Dry White chalk Firm and soft yellow chalk with flints Firm and soft yellow chalk with flints Firm and soft yellow chalk Harder chalk and flint with soft seems Hard chalk and flint with soft seems Hard chalk and flint with soft sticky seems Hard chalk and flint with soft sticky seems WATER EVAL 2.81m bgl, reading taken 6 December 1991 LINING TUBE B) 87.5 x 600mm CD plain mild steel lining tube installed to a depth of 25m BGL the top being fittled with a weld - on flange drilled NP16. B) 87.5 x 600mm CD steel casing installed to base of borehole the top being left flush with head flange drilled NP16 casing column made up as follows:- 1) Perforated from base of borehole to 24m BGL (63") 11) Plain from 24m BGL to top flange. 111) Slotting pattern: Rings of 10 No x 300mm long x 12.5 wide slots with 50mm plain tube between rings adjacent rows of slots staggered. Total No of slots 1773. Stabiliser Pack The annular space between the 600mm CD lining and the borehole wall and between the 600mm CD lining and 762mm CD lining was packed with 40mm natural shingle.					
Record of 762mm (30") nominal dia x 87m deep Water Abstraction borehole drilled for Anglian Water Services Ltd Histon Cambridge VALLEY FARM Nr BARFORD NORLK NGR TG 148 876 VALLEY FARM Nr BARFORD NORLK NGR TG 148 876 VALLEY FARM Nr BARFORD NORLK NGR TG 148 876 Typ Soil Top soil Top soil Top soil Top soil Thickness M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M. Depth M.	PoF• 7/9 40/91	V	TG10NW/	45	• ,, , ,
Record of 762mm (30") nominal dia x 87m deep Water Abstraction borehole drilled for Anglian Water Services Ltd Histon Cambridge VALLEY FARM Nr BARFORD NORLK NGR TG 148 076 VALLEY FARM Nr BARFORD NORLK NGR TG 148 076 TG10 NW Thickness M. Depth M. Top soil Grey and brown sandy clay ALLOVING This chalk Firm and soft yellow chalk with flints Firm end soft yellow chalk Harder chalk and flint Chalk and flint Harder chalk and flint with soft seams Hard chalk and flint with soft seams Hard chalk and flint with soft sticky seams Hard chalk and flint with soft sticky seams WATER EMIL 2.81m bgl. reading taken 6 December 1991 WATER EMIL 2.81m bgl. reading taken 6 December 1991 WATER ELINING TUBE 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	RELINIB, 40/31		1468, 075	8,	June 92
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Anglian N.R.A.

NN 910097

Ref: A/S 40/91

F SMITH & SON (GRIMSBY) LIMITED

Record of 762mm (30") nominal dia x 87m deep Water Abstraction borehole drilled for Anglian Water Services Ltd Histon Cambridge

1468 0758

VALLEY FARM Nr BARFORD NORLK NGR TG 148 076

STRATA		Thick	kness M.	Depth M.
Top soil Grey and brown sandy Dry White chalk Firm and soft yellow Harder chalk and flint Hard chalk and flint Hard chalk and flint	chalk with flints chalk British Geological Survey	Upper Chalk Upper Creta cous	0.50 1.20 1.80 1.00 3.50 2.00 18.00 49.00 10.00	0.50 1.70 3.50 4.50 8.00 10.00 28.00 77.00 87.00
		3.2.93		

RWL 2.81m bgl, reading taken 6 December 1991

LINING TUBE

- a) 25.50m x 762mm OD plain mild steel lining tube installed to a depth of 25m BGL. the top being fitted with a weld on flange drilled NP16.
 b) 87.5 x 600mmOD steel casing installed to base of borehole the top being left flush with head flange drilled NP16 casing column made up as follows:
 1) Perforated from base of borehole to 24m BGL (63")
- 11) Plain from 24m BGL to top flange.
- 111) Slotting pattern: Rings of 10 No x 300mm long x 12.5 wide slots with 50mm plain tube between rings adjacent rows of slots staggered. Total No of slots 1773.

Stabiliser Pack

The annular space between the 600mm OD lining and the borehole wall and between the 600mm OD lining and 762mm OD lining was packed with 40mm natural shingle.

JANUARY 1993

Grouting

The annulor space between the 762mmOD lining and the wall of the borehole was packed with stabiliser gravel and smaller grit to make grout retaining seal at 18.50m BGL and the remaining space filled with cement and grout to

TEST PUMPING

The borehole was clearance pumped, step tested and yield tested for a period of 14 days approximately 23.31/sec from approx 21m BGL.

DATES

Commenced: drilling October 1991 Completed: Pumping June 1992

DRILLING MACHINE

Ruston Erie 291/S Cable Percussion Rig.

DRILLER C Billings

Pumping J.Best



The annulor space between the 762mmOD lining and the wall of the borehole was packed with stabiliser gravel and smaller grit to make grout retaining seal at 18.50m BGL and the remaining space filled with cement and grout to TEST PUMPING logical Survey The borehole was clearance pumped, step tested and yield tested for a period of 14 days approximately 23.31/sec from approx 21m BGL. DATES Commenced: drilling October 1991 Completed: Pumping June 1992 DRILLING MACHINE Ruston Erie 29T/S Cable Percussion Rig. DRILLER C Billings Pumping J.Best

DATA ACQUISITIO	ON SH	EET Geological Surv	rey	British Geolo	csc/z	14
NRA region: ANGLIAN File Number: PTF 3			CAL FILE (B) 791	0/1	36	PZ
Pump Well Identification NRA id No: BGS (WL) No: 76 NGR: TG 1487 OF PROD 1487 OF Elevation: +25.038mo) (I ORAS HANGE CORAS: HEAD PRODUCTION Site Name: VALLEY FRE Locality: MARLINGFO BITTER GEOLOGICAL SURVEY NOR FOLL PRODUCTION VALLEY FRE BITTER GEOLOGICAL SURVEY NOR FOLL PRODUCTION NOR FOLL BITTER GEOLOGICAL SURVEY NOR FOLL PRODUCTION NOR FOLL PRODUCTION NOR FOLL BITTER GEOLOGICAL SURVEY NOR FOLL PRODUCTION NOR FOLL BITTER GEOLOGICAL SURVEY NOR FOLL PRODUCTION NOR FOLL BITTER GEOLOGICAL SURVEY NOR FOLL PRODUCTION NOR FOLL PRODUCTION PRODUCTION PRODUCTION PRODUCTION PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY OF PROPERTY O	10/13 759 top load plo 10 mm n 10 mm n 10 pente 10 BH 10 mm	S6 yi gical Surv A6-	Well details: depth of pumping v diameter: casing details: 600 m 600 mm se observation bo number of obs bhs obs bh details: Vally sortier july bh details	762m mm plain to m plain start of plain start of the tart form des	m Steel to 2 10 to 24 to 83 10 cal Survey 11 r = 34	
Aquifer Details:	If	confined	1, confining layer: NA			
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Aquifer Geology	from	to	Aquifer Geology	from	to	1
CRAG+ bro midy clay to 1.7m						
CHALK						1

Pumping Test Details:

5 TEST: 8.5.92

date of test: CONSTANT RATE: 12.5.92 to 26.5.92

length of test: Marchaystal Survey

RWL: 3.57 Mbd

PWL: \$20.50 mbd

pumping rate: 24.11/5; 2085 m³/d







Additional Well Infor	British Geological Survey	British Geological Survey
Additional Well Infor	mation:	
☐ Flow Logs ☐ Other Geophysic ☐ Fissure Informat Little flow a Cittle below	NOT ACIDISED see Lelaci al Logs the CCTV ion: major inflows from	British Geologic to to
Aquifer Parameters:		
Analysis Type: Coope British Geological Survey PRO Transmissivity: 94 Storage Coefficient:	Transmissiv	
Analysis Type: The Coal Survey PAD Transmissivity: Storage Coefficient:	Other Data: ACPRESENTATI T= 130 m S=0.00 Sy=0.0	04
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Sand and Gravel
Output

Output

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	161/591
Town or Village	Licence No
	British Geological Survey Six-inch quarter sheet
For ? Ar Urain.	State whether owner, tenant, builder, contractor, consultant, etc.:—
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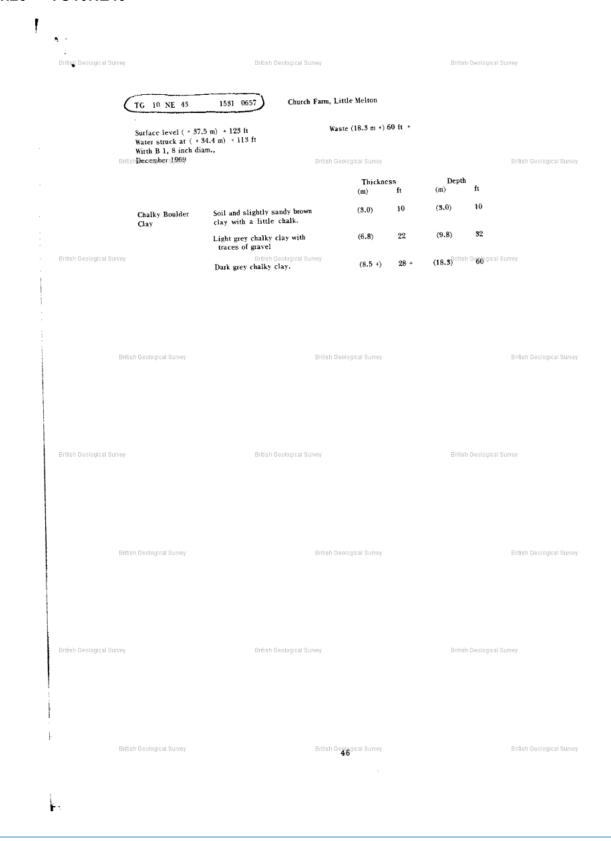






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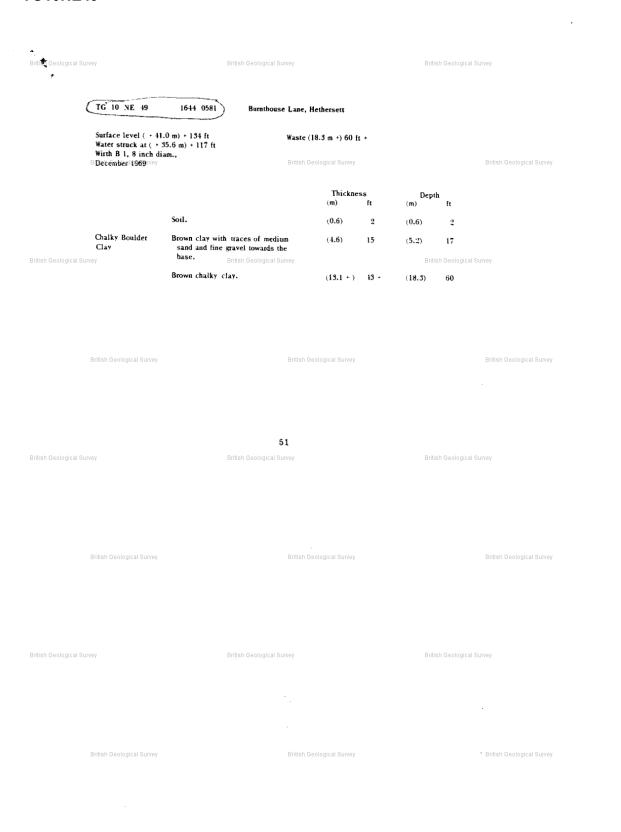




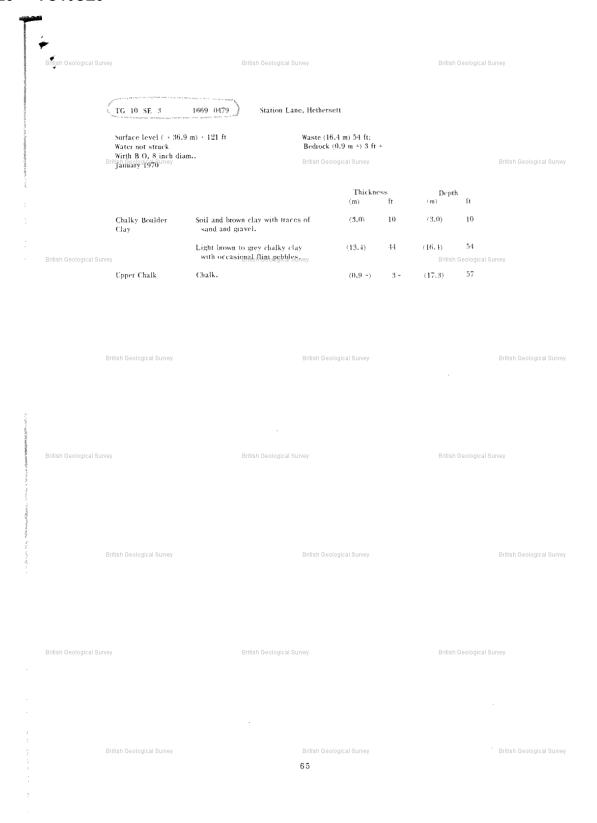




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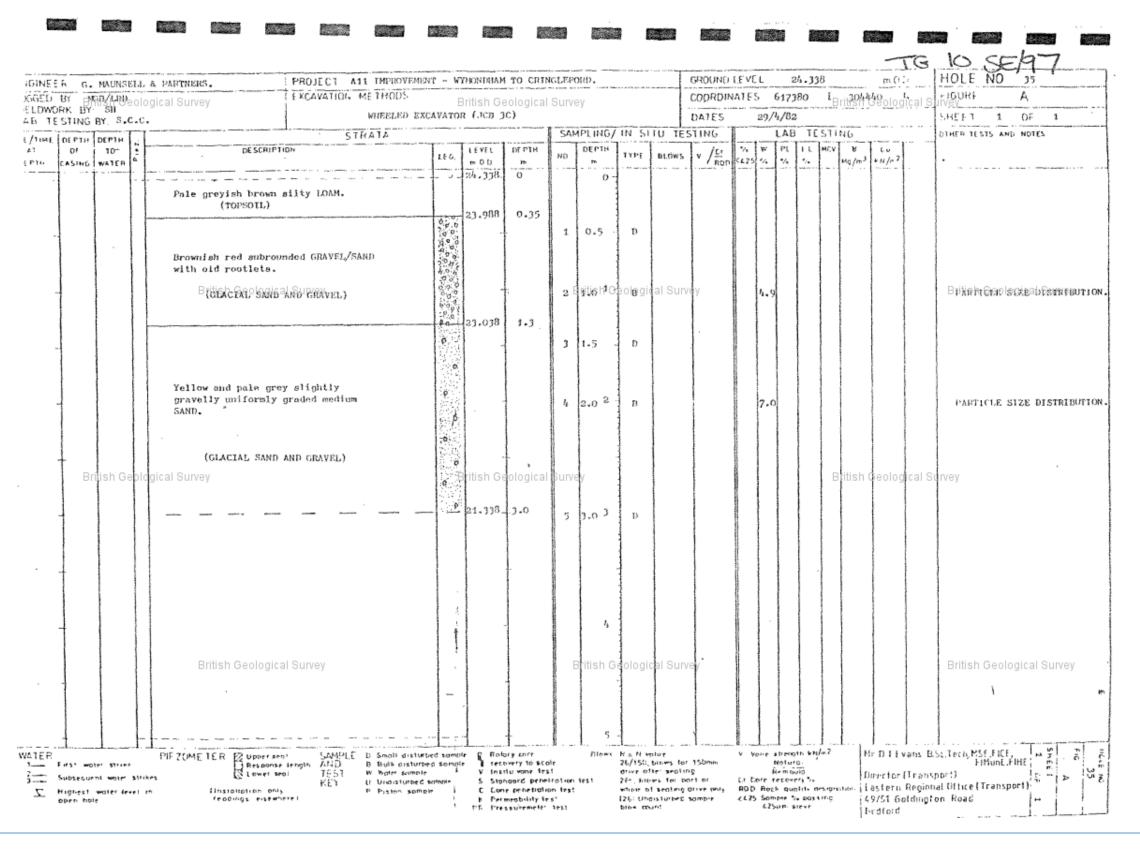
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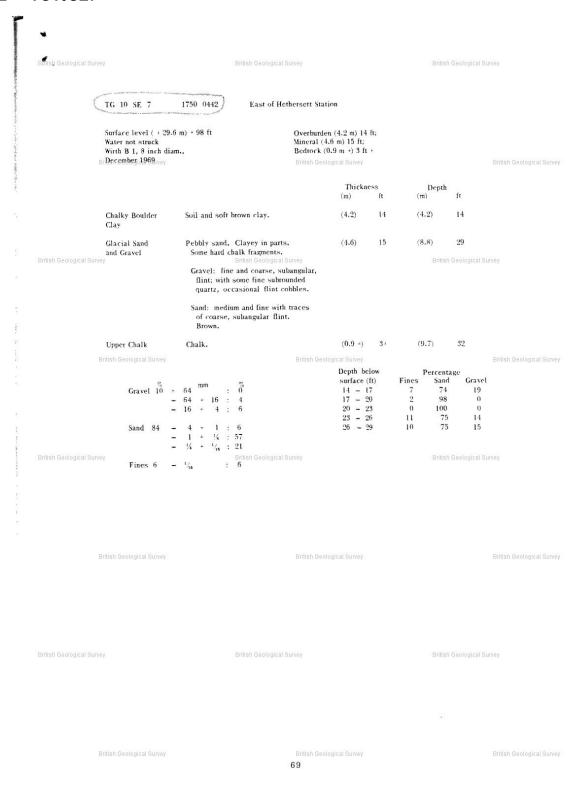








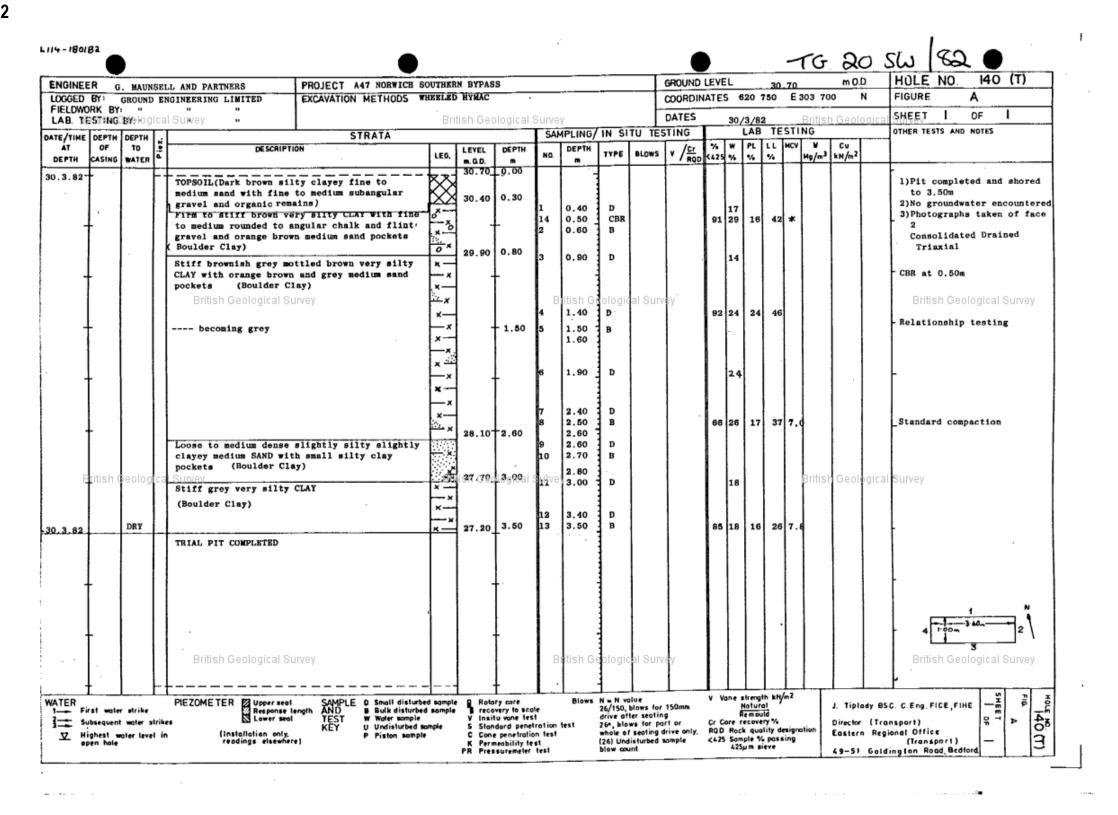
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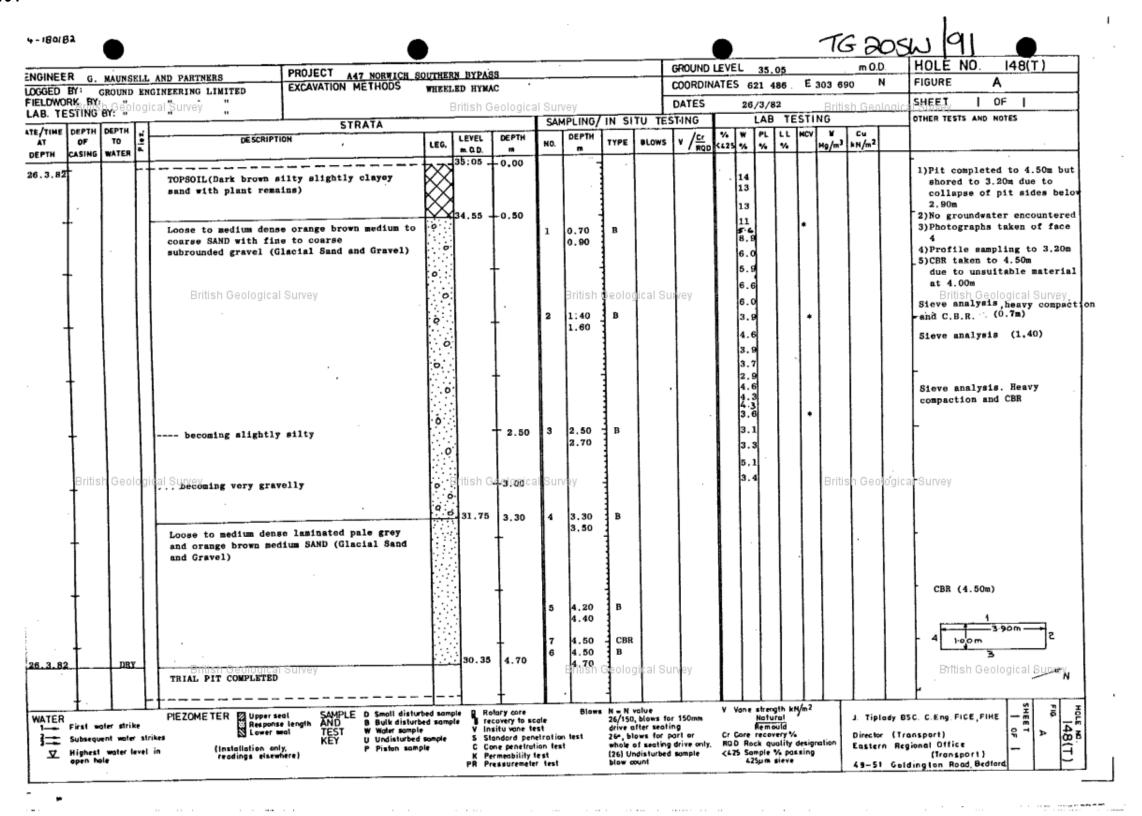








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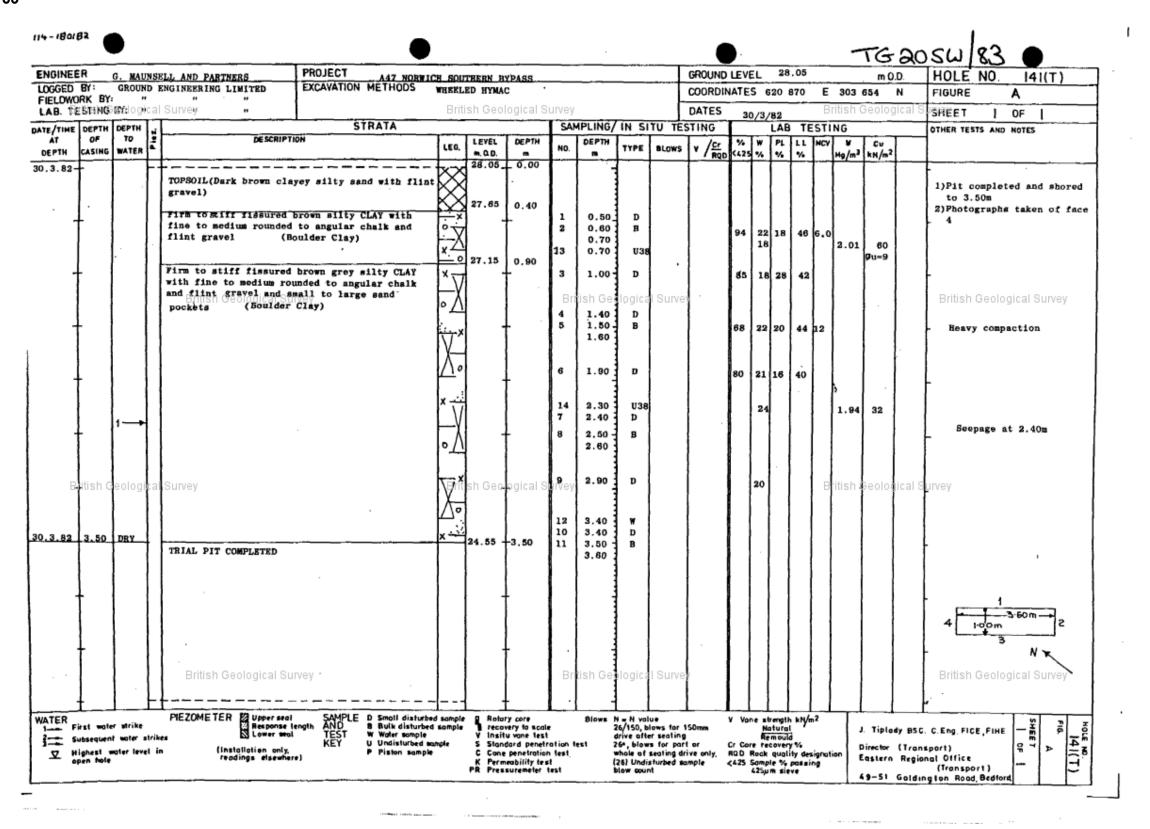
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-		- 1		RVel .				2.00						H							to 6.00m	
	1		'-		brown clay and fine to ied to subangalar gravel				6 ₽	2.001	o1 89 io	al 8t}∜	y.								British Geolog	ical Survey
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Subsequ				Lower sec	KEY U Undisturbed	anole	S Sta	ndard pene	tration	test	264, blo	seating d	rt or		re rec	overy *	% design	ation				R T ► 4
lighest open ho	wate	er lev	el in	(Installation only, readings elsewh	P Piston samp			ne penetrati meability to				isturbed s					assing		Easter	n Regi	(Transport)	- 1 1~







A.1.37 TG20SW83

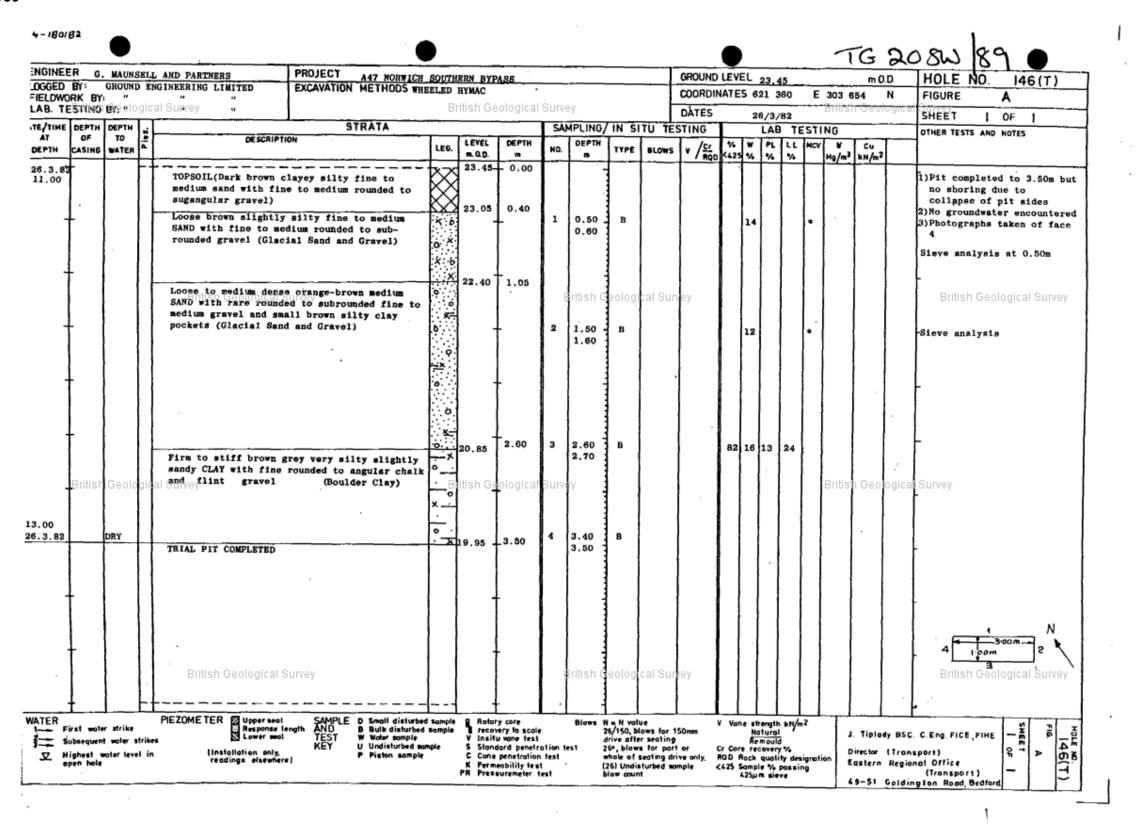








A.1.38 TG20SW89

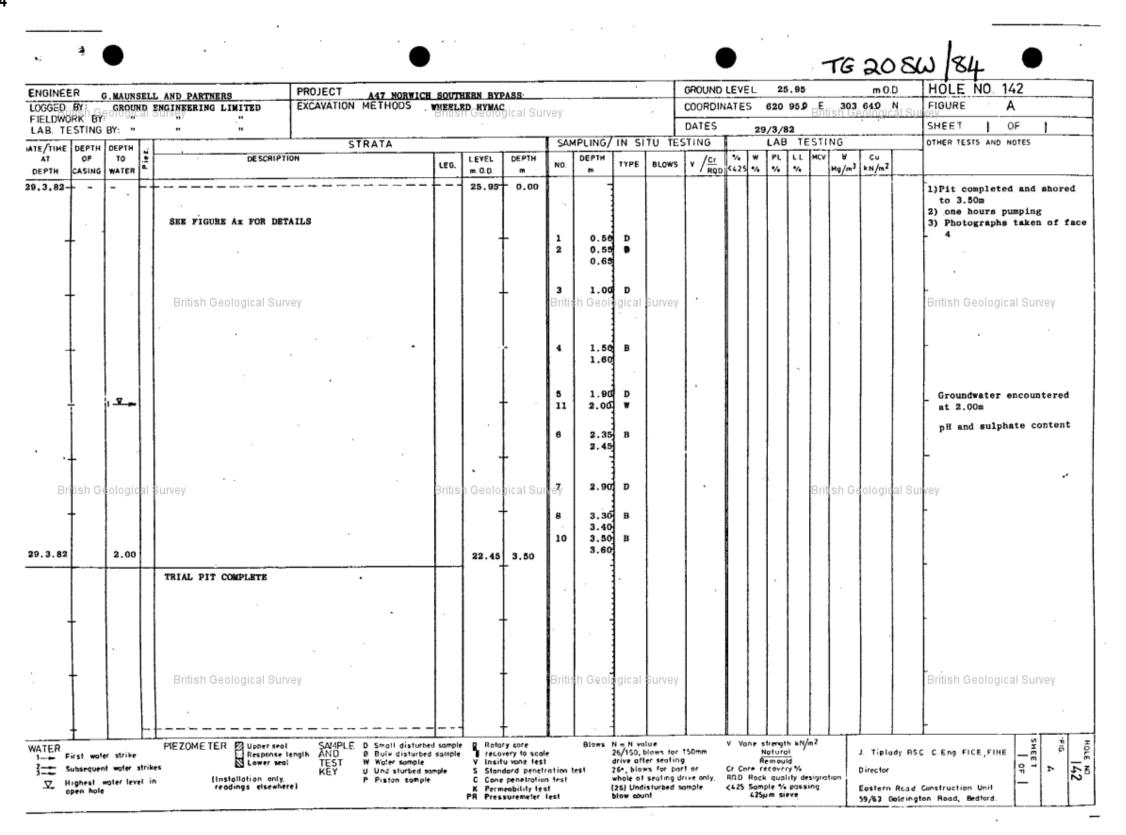








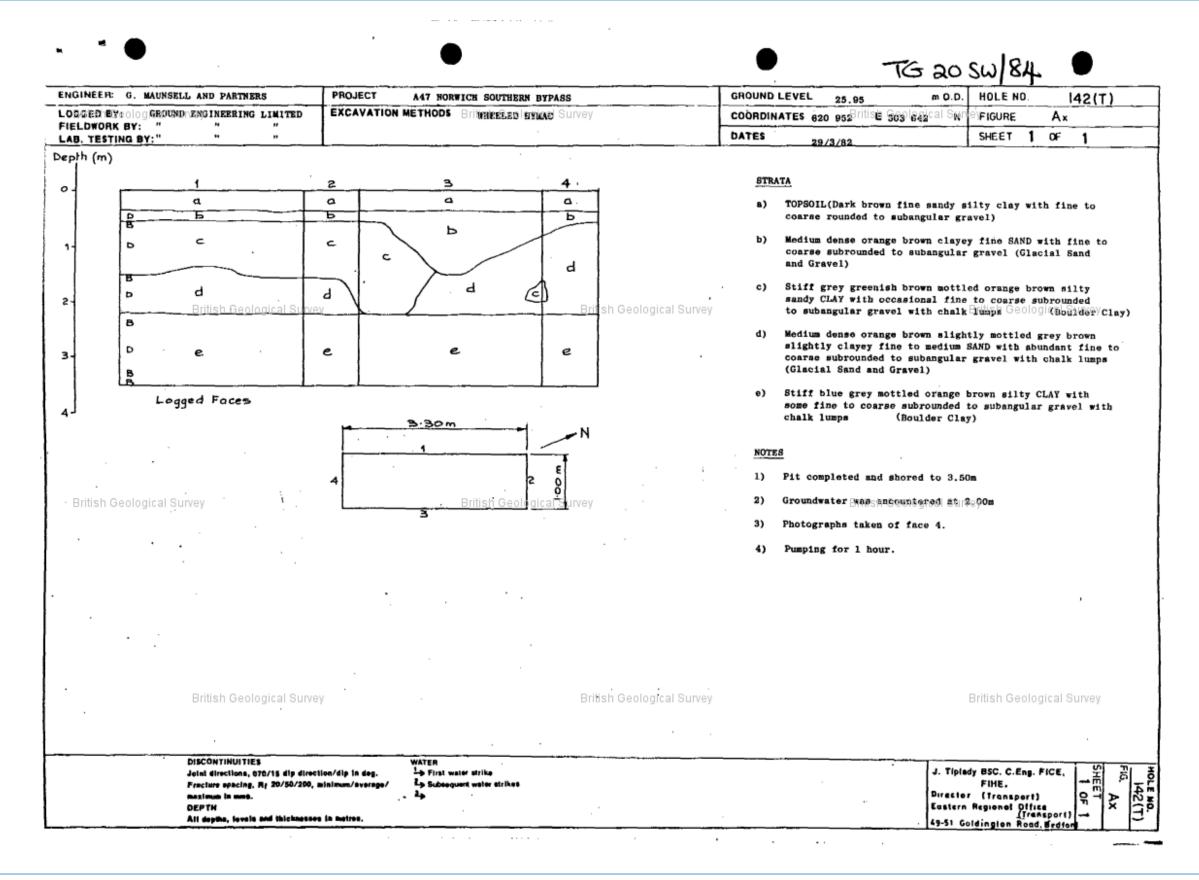
A.1.39 TG20SW84

















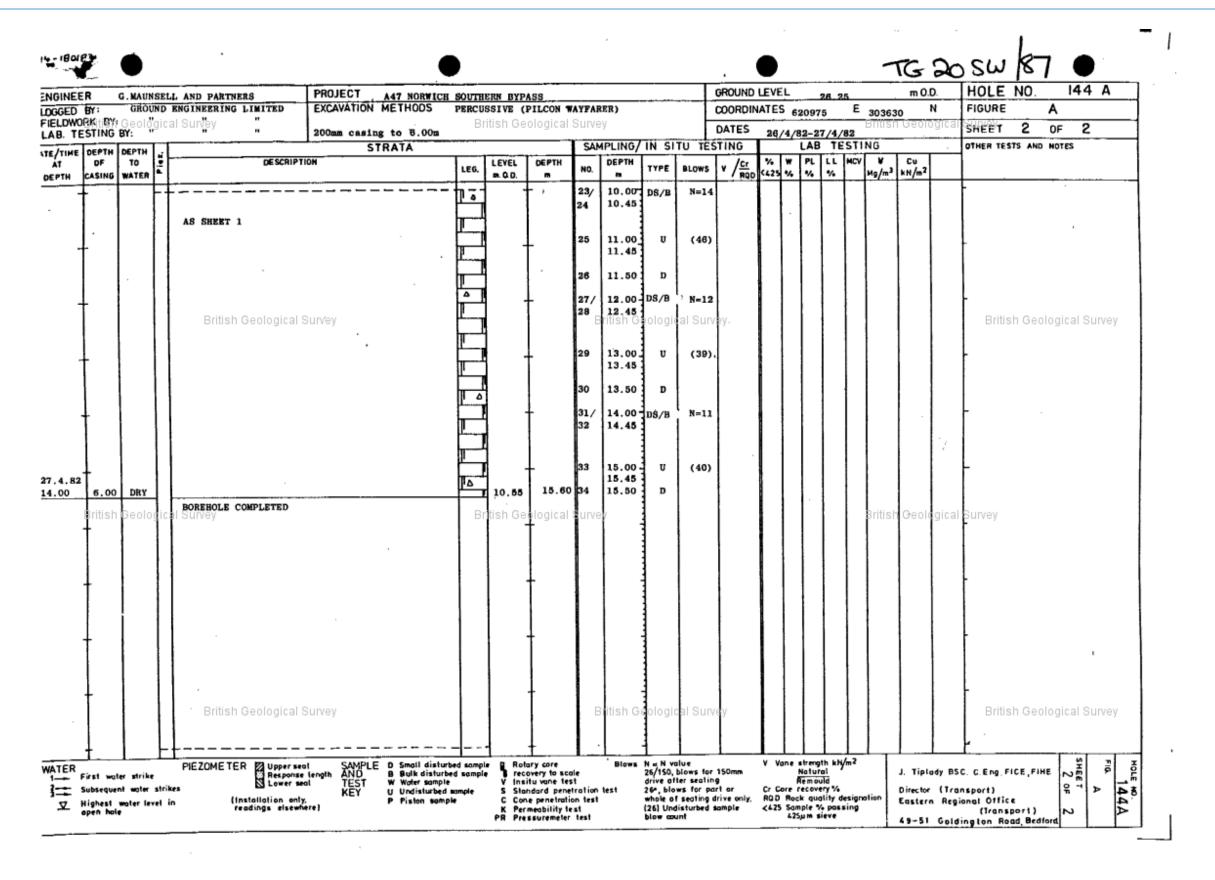
A.1.40 TG20SW87

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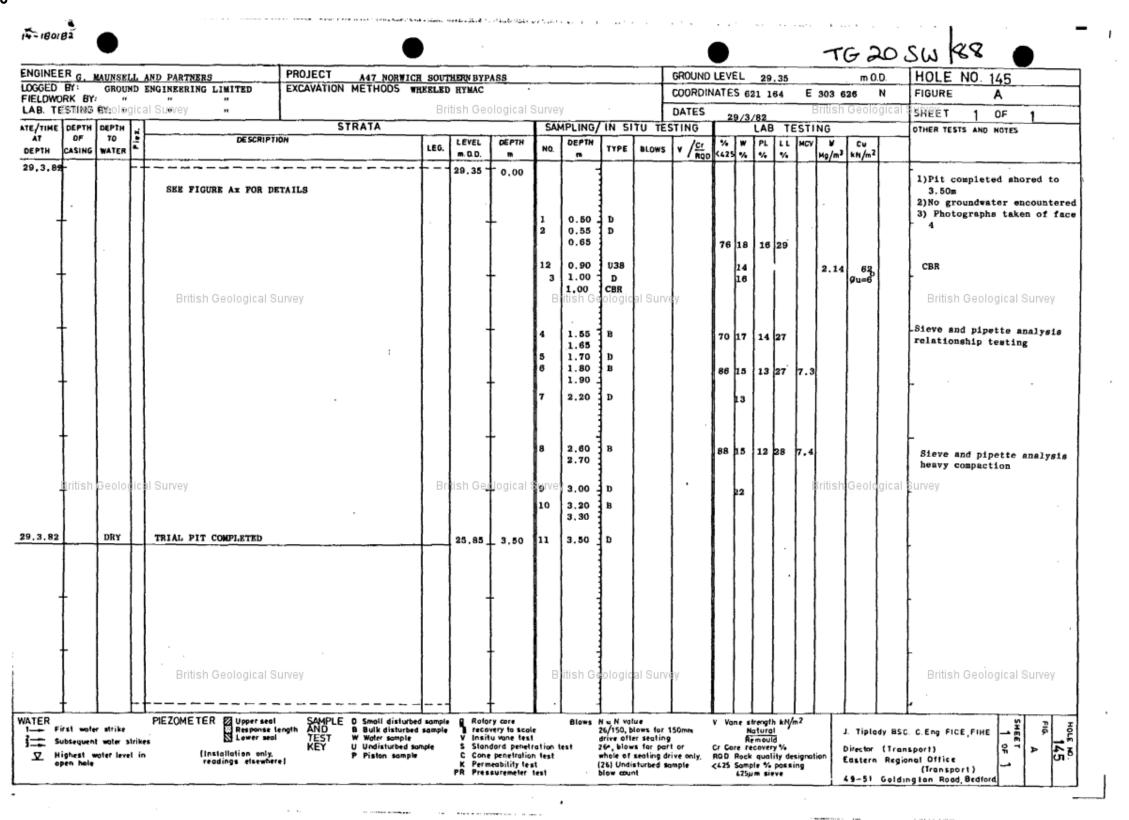








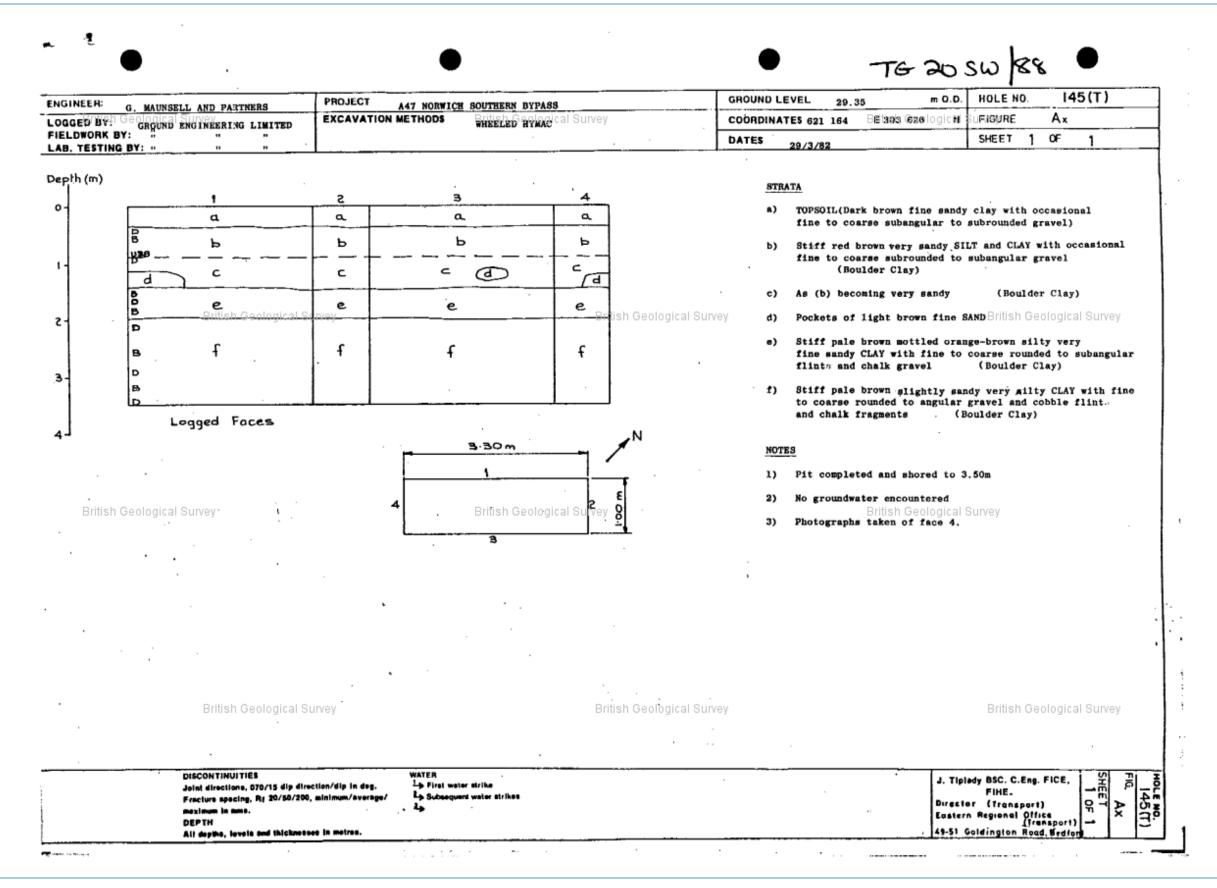
A.1.41 TG20SW88







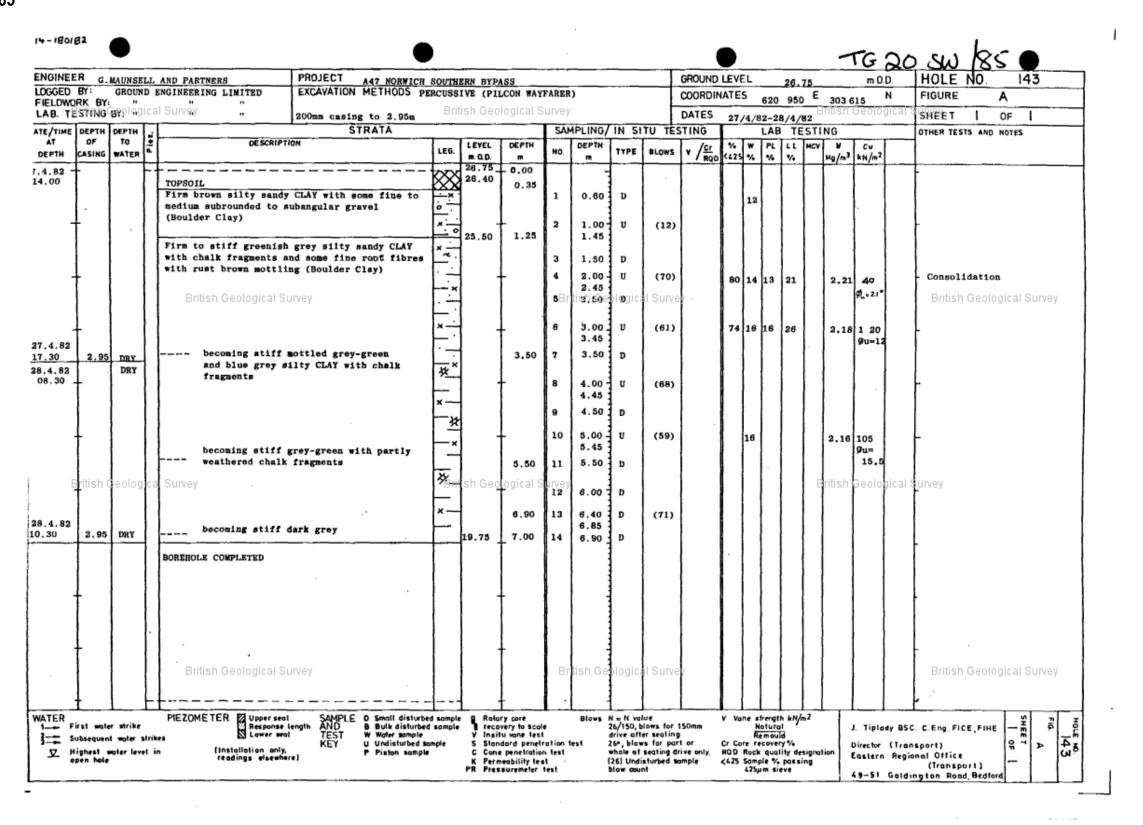








A.1.42 TG20SW85

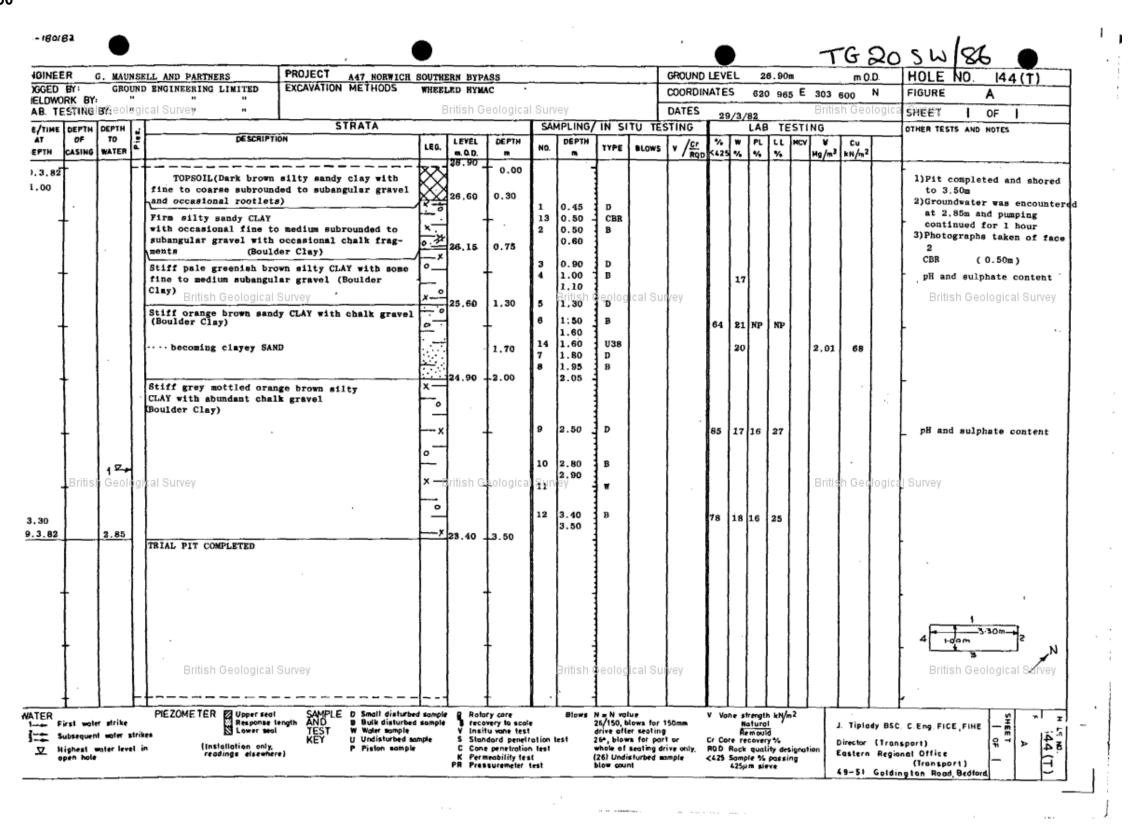








A.1.43 TG20SW86

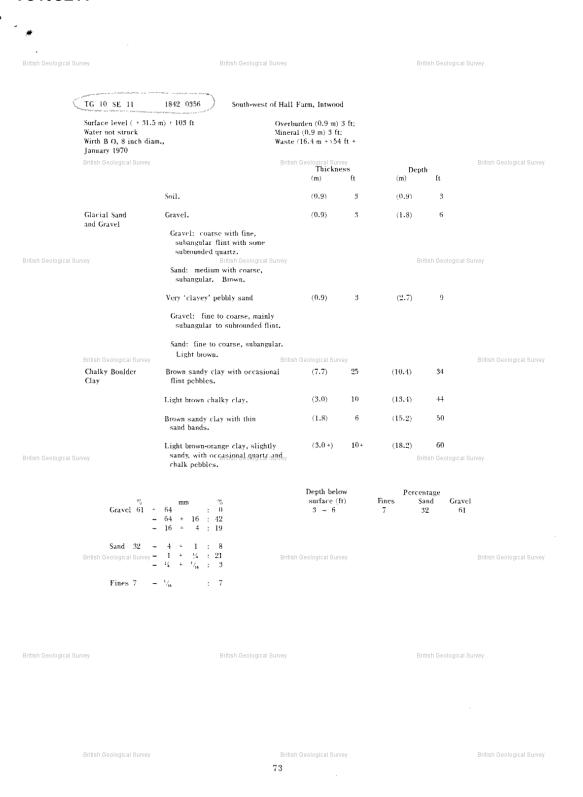




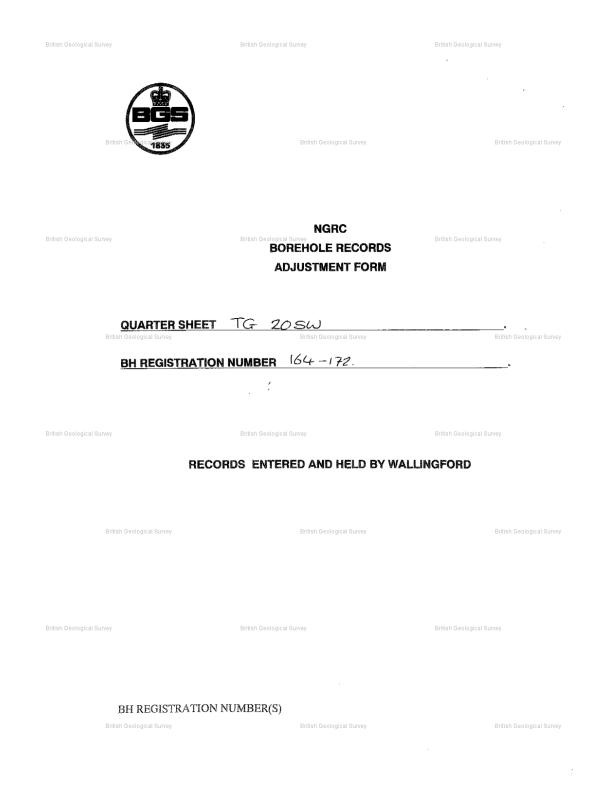




A.1.44 TG10SE11



A.1.45 TG20SW166









		For Institute use only Licence No.
	RECORD OF WELL	N
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		length, inner and outer diameters, plain slotted etc.):
British Geologica		British Geological Survey
	-	ft (m) below well top
		well top. Suction at ft (m)
TEST	,	galls per (
CONDITIONS	depression toft (m) belo	nours
	Capacity of pump	. 1/s) th Geological Survey British Geological Survey
L	Date of measurements. 1986.	
	DESCRIPTION OF PERMANENT PUMPING E	~
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Billian Octobylia	sconsumption galls the Geological Survey	m ^o) per week
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OVERLEAF	British Geological Survey Britis	sh Geological Survey Date 4 57 Brindsh Geological Survey
		Observation well
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Britist	== Soften yellow sand /clay British Geological Survey	ત્ર	-	(24	sh Oc ologic	7.32
	Small stones	2	_		1	-	7.92
	Yellow sand	30		1	1	-	17.07
	Yellow mull	26	ļ <u> </u>	1	1	-	24.99
	Good hard chilk	38	· ~		1	-	36-58
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British Geological Survey	British Geological Survey	British Geological Survey
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Confidence: ogical Survey excellent	British Geological Survey	British Geological Survey
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A.1.46 TG20SW112

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L	County Norfolk.	161		i
EXACT SITE	Mich Cool and a Cooper		A225	
OF WELL	Six-inch National Grid sheet and reference			
	For . Lakenham & Hewitt Rugby Frotta			
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	Address (if different from above)	• • • • • • • • • • • • • • • • • • • •	•••••	
			•••••••	
British Geological Surve	Level of ground surface above sea level (OvD.)			
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AS	SHAFTft (m); diamete	rft (m);	
NECESSARY	HEADINGS (please attach details—dimensions and	•		
	BORE 200	ameter: at topn.	۶mm);	
6	at bottom	ogical Survey	British Geological Survey	
	Full details of permanent lining tubes (position,	length, inner and or	ater diameters, plain slotted etc.):	
	not known			

British Geological Surv	y British Geological Survey	:	British Geological Survey	
	Water struck at depths of	ft (m) below well top	
rl	Rest level of waterft (24.0m) about			
TEST	Yield onhours'* test pumping at	galls per	(
CONDITIONS	depression toft (m) below	v well top. Recovery t	o rest level in mins*	
COMBITIONS	Capacity of pumpg.p.h. (
Ц	ritish Geological Survey Date of measurements	ogical Survey	British Geological Survey	
I	DESCRIPTION OF PERMANENT PUMPING EQ	QUIPMENT:		
	Make and/or type	Motive	power	
NORMAL	Capacitygalls (m³) per he	our. Suction at	ft (m)	
CONDITIONS	below well top. Amount pumped	galls (
British Geological Sulve	consumption British Geological Survey	m³) per week	British Geological Survey	
	Well made by . T. W. Page . E. Son Ltd.	Date of	sinking?/1986	
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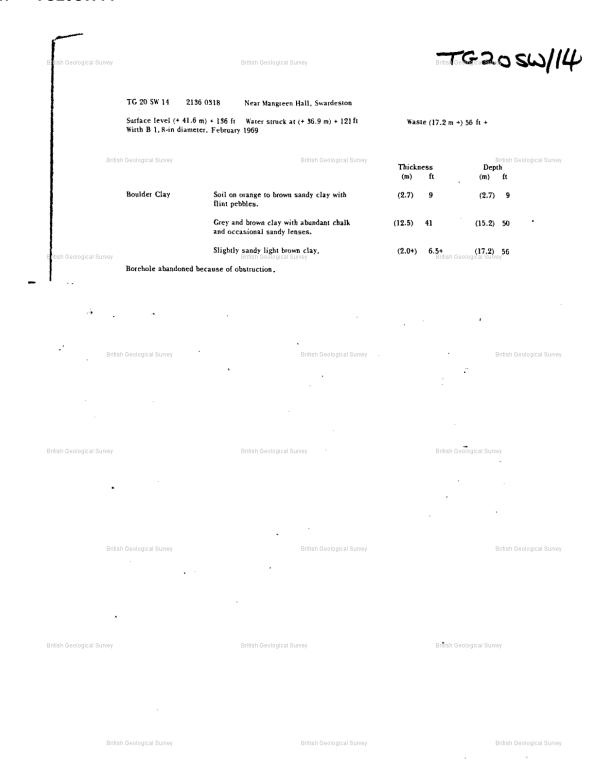
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,	Yellow sand	30	ļ. <u>-</u>	9.15	56	ļ-	17
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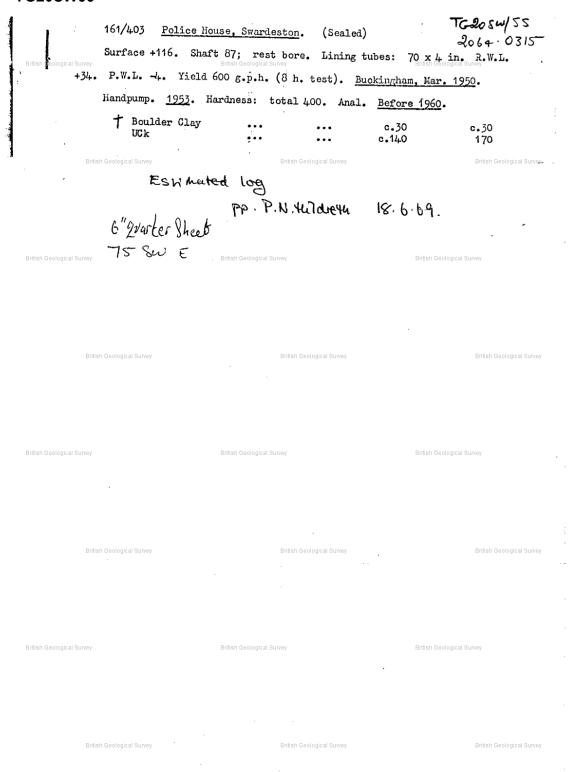




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