

Map legend available at:
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Site Details:

345708, 389493

Client Ref: 156463_-_Home_Bargains_Huyton
Report Ref: GS-4AZ-KYF-GDR-ZG9_1250_1_1
Grid Ref: 345398, 389509

Map Name: National Grid

Map date: 1976-1977

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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Levelled N/A

Surveyed N/A
Revised N/A
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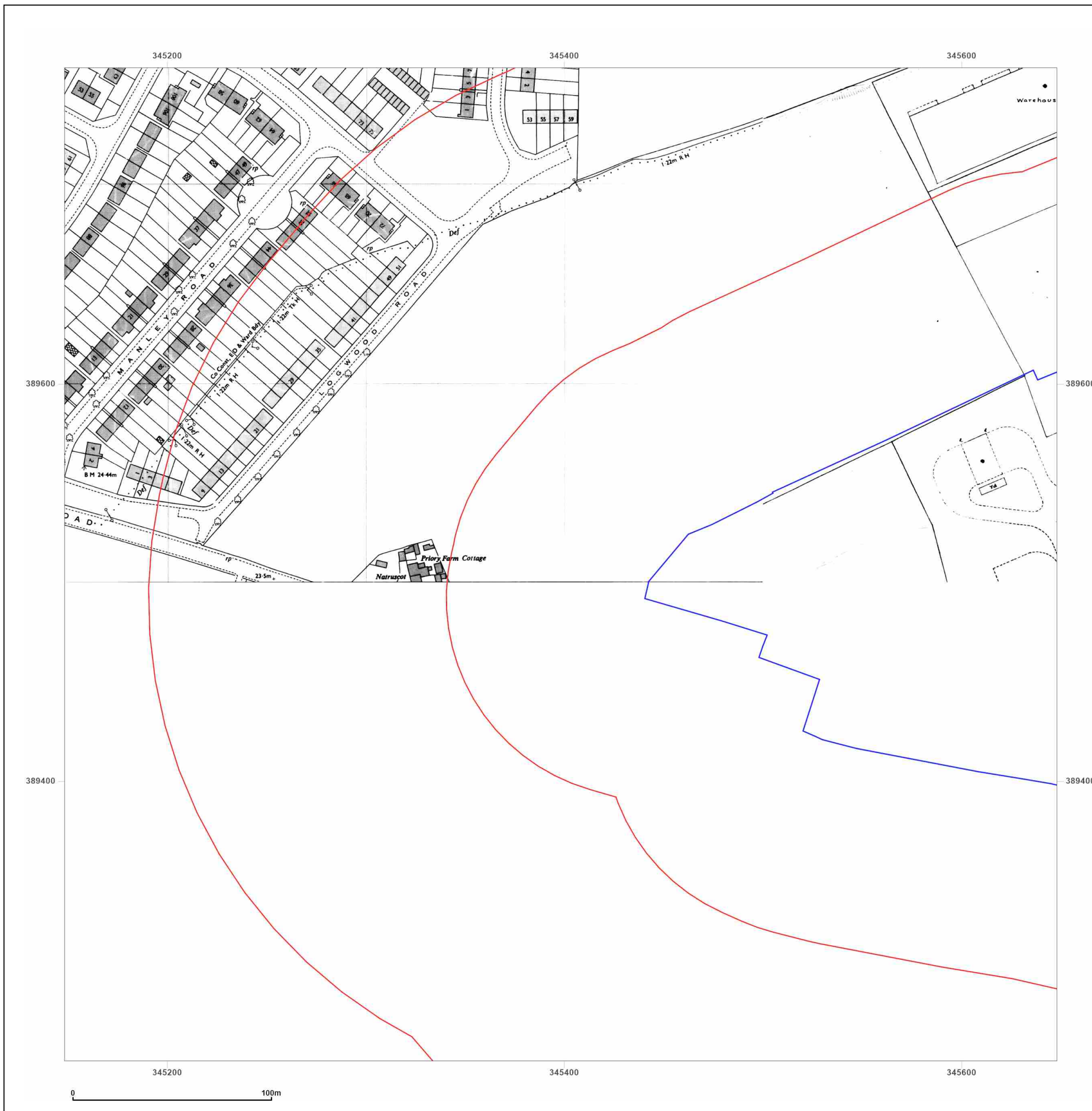


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Grid Ref: 345398, 389509

Map Name: National Grid

Map date: 1982-1984

Scale: 1:1,250

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Grid Ref: 345398, 389509

Map Name: National Grid

Map date: 1992-1993

Scale: 1:1,250

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Grid Ref: 345398, 389509

Map Name: National Grid

Map date: 1989-1993

Scale: 1:1,250

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Report Ref: GS-4AZ-KYF-GDR-ZG9_1250_2_1
Grid Ref: 345898, 389509

Map Name: National Grid

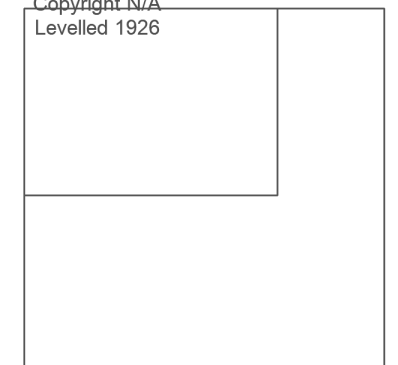
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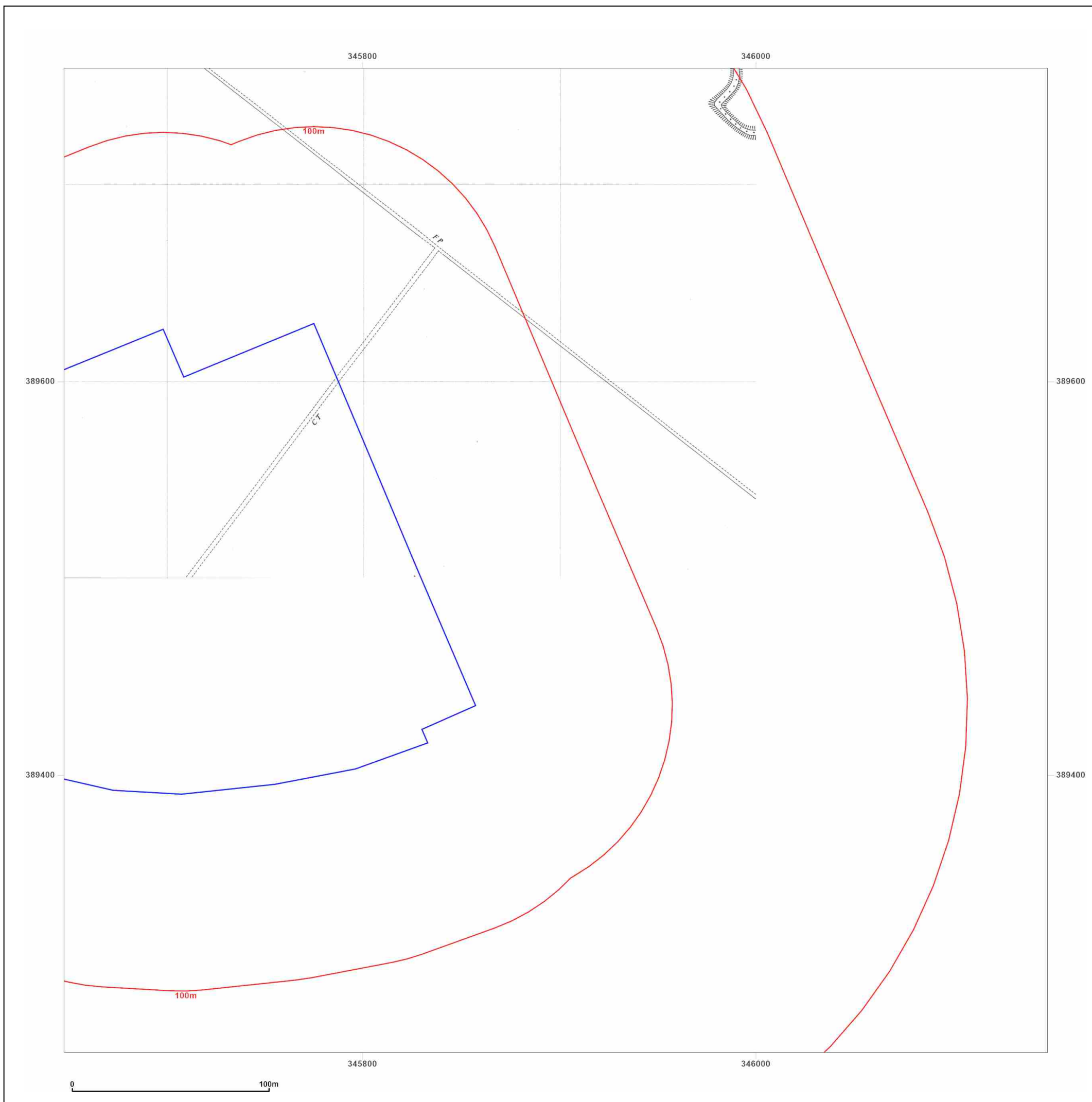


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Grid Ref: 345898, 389509

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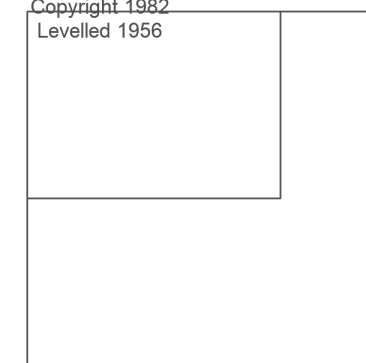
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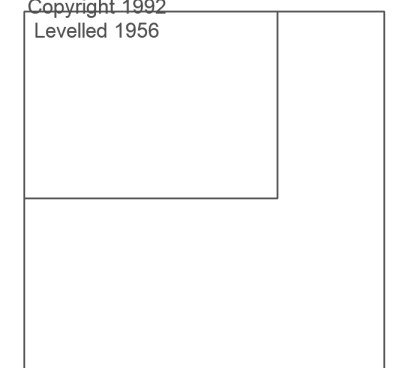
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Report Ref: GS-4AZ-KYF-GDR-ZG9_1250_2_1
Grid Ref: 345898, 389509

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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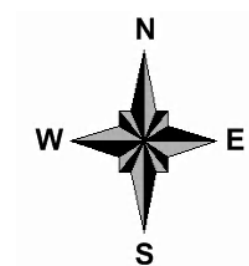
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Groundsure
INSIGHTS

Landline Scale Grid Index



Site Details:

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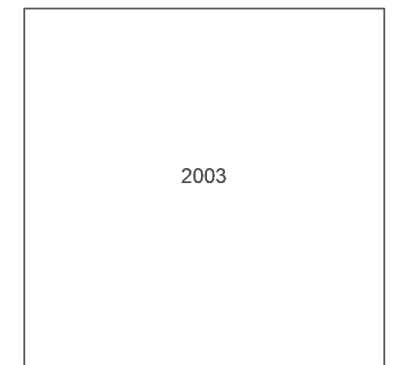
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Report Ref: GS-4AZ-KYF-GDR-ZG9_Landline_1_1
Grid Ref: 345498, 389509

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

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Site Details:

345708, 389493

Client Ref: 156463_-_Home_Bargains_Huyton
Report Ref: GS-4AZ-KYF-GDR-ZG9_Landline_2_1
Grid Ref: 345798, 389509

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

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2003



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Appendix C

Principles of Environmental Risk Assessment

Principles of Environmental Risk Assessment

The Environmental Protection Act 1990, Part II A Contaminated Land (Section 57 of the Environment Act 1995) and the Contaminated Land Regulations 2006 (and 2012 amendments) provide a basis on which to determine the risks and liabilities presented by a contaminated site. Contaminated Land is defined within Section 78A(2) of the Environmental Protection Act 1990, Part II A Contaminated Land (by commencement of Section 86 of The Water Act 2003 [Commencement Order No. 11] Order 2012) as:

“Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land that-

- (a) Significant harm is being caused or there is significant possibility of such harm being caused; or
- (b) Significant pollution of controlled waters is being caused, or there is a significant possibility of such pollution being caused.”

Section 57 of the Environment Act 1995 requires that any site identified as being “contaminated” by the Local Authority will be registered by them and remediation will be required to render the site fit for use.

The presence of contamination is not the sole factor for deciding whether a site is contaminated. Relevant parties should identify site-specific risks and provide objective, cost-effective methods to manage the contamination in a manner which satisfies the proposed end-use.

A risk-based approach, which takes both technical and non-technical aspects into consideration when making decisions on contamination resulting from past, present or future human activities, is advocated. The assessment of environmental risks generally relies on the identification of three principal elements forming a ‘pollutant or contaminant linkage’:

- Source:** the contaminant
- Pathway:** the route through which the contaminant can migrate, and
- Receptor:** all human, animal, plant, controlled water or property that may be adversely affected (harmed) by the contaminant

In the absence of one of these elements, on a given site, there is no risk. Where all three elements are present, risk assessment is required to determine the significance of the harm or pollution that is being or may be caused. As outlined above, the terms of the Contaminated Land regime specify that remediation need only be implemented where a site is causing, or there is a significant possibility that it will cause, significant harm, or that pollution of controlled waters is being caused or there is a significant possibility of such pollution being caused.

Development of contaminated land is usually addressed through the application of planning and development legislation and guidance (i.e. NPPF). The suitable for use approach is regarded as the most appropriate basis to deal with contaminated land, taking account of environmental, social and economic objectives. The assessment is made in the context of the proposed land use.

Risk Classification Matrix

		Consequence			
		Severe (Sv)	Medium (Md)	Mild (Mi)	Minor (Mr)
probability	High (Hi)	Very high risk	High Risk	Moderate Risk	Moderate/low risk
	Likely (Li)	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood (Lw)	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely (Ul)	Moderate/low risk	Low risk	Very low risk	Very low risk

After CIRIA Report C552, Contaminated Land Risk Assessment A Guide to Good Practice, 2001

Classification of Consequence

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in “significant harm” as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem or organisation forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health (“significant harm” as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem or organism forming part of such ecosystem, (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000).	Concentration of a contaminant from site exceeds the generic or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of a species within a designated nature reserve. Lesser toxic and asphyxiate effects of carbon dioxide
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services (“significant harm” as defined in the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

Appendix D

BGS Borehole Logs



Form P.70
(Series 610)

SJ 48 NE/30

CONFIDENTIAL
5/3

SECTION OF ROSCOE BOREHOLE No1 (Cronton Colliery)

PURPOSE

EXACT SITE N.G.Co-ordinates:-

E. 345,882. m.

N. 389,350. m.

- - MAY 1981

LEVEL AT WHICH ~~sheet~~
bore COMMENCED RELATIVE TO O.D. 76.73 feet

DATE OF SINKING OR BORING Commenced 21st July 1977
Completed 26th August 1977

SINKER OR BORER National Coal Board, Western Area

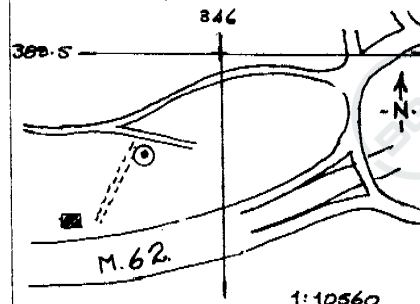
6-inch Map

B/H
Reed No.

SJ 48 NE

DECLASSIFIED

Attach tracing from a map or
sketch map if possible



GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
	Drift	9	0	9	0
	Sandstone, grey, massive to 9'6 then finely laminated becoming very finely laminated complex speckled with carbonised plant material on dark laminae from 13'6. DIP 16°. High Angle Slip 15'8 to 16'5 with broken core below. Erosive base	7	8	16	8
	COAL, fragments		9	17	5
	Seatearth, silty, light grey, occ. carbonised roots. Broken core Bedding DIPS 35°	4	4	21	9
	Sandstone, fine grain, light grey		4	22	1
	COAL, dirty, listric bedding planes DIP 45°		8	22	9
	COAL, pyritic		0 1/2	22	9 1/2
	Dirt, carbonised, laminated		5 1/2	23	3
	COAL, dirty		9	24	0
	Mudstone, laminate, with plant stems	1	0	25	0
	Seatearth, muddy, rootlets	1	8	26	8
	Seatearth, mudstone, roots		4	27	0
	Seatearth, coaly, bedded		6	27	6
	Sandstone, conglomerate		4	27	10
	Sandstone, washout type with coal lenses and streaks		3	28	1
	Sandstone, medium grained, erosive base		3 1/2	28	4 1/2
	COAL		4 1/2	28	9
	Sandstone, laminated with siltstone DIP 45° probably current bedding		7	29	4
	Sandstone, conglomerate		5	29	9
	Mudstone, grey, weak. Laminated with specks of plant debris becoming more abundant plant fragments in depth DIP 20°	2	1	31	10

FORM P 71 T
SERIES 680

Section of **ROSCOS No. 1 BOREHOLE**

6-INCH MAP	B/H
	513
ST 48 NE	30

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		ft or in*	ft or in*	ft or in*	ft or in*
				31	10
	COAL, fragments		9		
	COAL, core		10		
	Dirt		6 1/2		
	COAL, pieces		4 1/2		
	Dirt,	1	5		
	COAL, dirty, pieces		9		
	COAL, fragments		3		
	Dirt		7		
	COAL, pieces	1	2	38	6
	Mudstone, coaly		1	38	7
	Seatearth, mudstone, strong with roots	1	3	39	10
	Seatearth, mudstone, weak	4	0	43	10
	Mudstone, light gray, laminated	1	2	45	0
	Seatearth, mudstone, gray with roots		4	45	4
	Mudstone, light gray, sticky partings	1	8	47	0
	Mudstone, gray laminated, Abundant carbonised plant debris		8	47	8
	Ironstone band		2	47	10
	Mudstone, gray, Sphaerosideritic				
	High Angle Slip from 49'4 to 49'10, Occ. plant debris	2	4	50	2
	Ground up material. Fault gouge?		2	50	4
	Mudstone, striped, Abundant plant debris. DIP 12°, Becomes slightly silty below 52'10. Band of ironstone pellets at 53'9. Plant debris scattered below 55'6"	8	9	59	1
	Mudstone, gray laminated	2	6	61	7
	Mudstone, silty speckled with plant debris small amount of mica giving silky lustre. Calamites stems below 63'0"	2	5	64	0
	Siltstone, fine grained, gray. Poorly laminated. Isolated specks of plant debris. High Angle Slip from 67'0 to 68'0	4	8	68	8
	Mudstone, gray, High Angle Slip 69'6	1	7	70	3
	Fault gouge, probably small throw		4	70	7
	Mudstone, gray, Speckled with plant debris Occ layers of carbonised plants. High Angle Slip 71'3". Poorly bedded, DIP 14°	1	5	72	0
	Sandstone, fine grain. Micaceous		11	72	11
	Mudstone, Seatearth, weak. Plant debris		5	73	4
	COAL, pieces. DIP 30°		8	74	0
	Seatearth, weak. Roots		9	74	9
	Seatearth, sandy, strong with roots	1	2	75	11
	Sandstone, white, medium grain, strong. Plant debris, occ. ironstone pellets and small nodules	3	8	79	7
	Mudstone, light gray, laminated, fragmentary core	1	9	81	4



FORM P 71 T
SERIES 680

Section of ROSCOE No. 1 BOREHOLE

6-INCH MAP	B/H
	513
3048 NE 30	

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				81	4
	Mudstone, light grey, laminated. Much bedding plane slip. MUSSEL fragments		5	81	9
	Seatearth, mudstone weak and friable		5	82	2
	Ironstone		4	82	6
	Mudstone, grey weak		4	82	10
	COAL, DIP 36°		6	83	4
	Seatearth, mudstone, roots, strong	1	2	84	6
	Seatearth, mudstone, weak, friable and swollen	1	9	86	3
	Seatearth, siltstone, strong. Abundant roots. Micaceous. High Angle Slip 87°10"	1	7	87	10
	Siltstone, laminated, roots and plant debris. Quartz laminae	2	0	89	10
	Sand/Silt, interlaminated		9	90	7
	Fault gouge		3	90	7
	Sandstone, laminated. Striped mainly complex	4	1	94	11
	Sandstone, light grey. Whispy with occ. striped bands	4	9	99	8
	Sandstone, laminated, ripple marked	1	5	101	1
	Sandstone, massive		5	101	6
	Sandstone, broken core with faulted base		10	102	4
	Fault gouge		4	102	8
	Sand/Silt, interlaminated. Occ. plant debris. Migration burrows	1	4	104	0
	Fault gouge		2	104	2
	Mudstone, silty. Broken core		9	104	11
	COAL fragments. Faulted base	1	2	106	1
	Siltstone seatearth, roots, strong. Becomes laminated with plant debris at base	2	7	108	8
	Seatearth, mudstone, weak with roots. Sphaerosideritic	1	0	109	8
	Seatearth, Mudstone, light brown, abundant roots		10	110	6
	Seatearth, carbonaceous, abundant roots. Fine mica giving silky lustre. Ironstone nodules below 111°8"				
	Stigmaria, isolated pyritised plant fragments	6	1	116	7
	Mudstone, dark grey, laminated. DIP 22°. Abundant carbonised plant debris. High Angle Slip 117°11". Mica lustre below 117°11" & fewer plants				
	DIP 25° coarsening downwards.	3	9	120	4
	Mudstone, dark grey. Fragmentary. Abundant plant debris, occ. fish				
	Becomes canaloid in basal 3"	2	4	122	8
	Mudstone, carbonaceous, laminated DIP 24°		8	123	4
	COAL, pieces		3	123	7
	Seatearth, mudstone, roots	1	0	124	7
	3				



FORM P 71 T
SERIES 680

Section of ROSCOE No 1 BOREHOLE

8-INCH MAP	B/H
	513
SJ 48 NE	30

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		ft or in*	m or in*	ft or in*	m or in*
				124	7
	Seatearth, mudstone, soft and friable	5		125	0
	Seatearth, mudstone compact	10		125	10
	Siltstone, fine grain, roots. High Angle Slip @ 126'7". Ironstone nodules at 127'4"	2	4	128	2
	Siltstone, dark gray, strong. Occ. plant debris, ferruginous layers. Bedoes fine grained with quartz laminae from 129'4". DIP 22°. Patch of Ostracods at 130'5"	3	6	131	8
	Seatearth, mudstone, soft, swollen. Friable with abundant listric surfaces	1	5	133	1
	Seatearth, carbonaceous, soft laminated		9	133	10
	Seatearth, mudstone. Friable and weak		9	134	7
	Seatearth, mudstone, compact but friable. Abundant listric surfaces. High Angle Slip at 135'4"	1	5	136	0
	Seatearth, silty fine grain. Abundant roots	1	8	137	8
	Sandstone, seatearth, white, carbonised roots. High Angle Slip 138'6"	1	0	138	6
	Sandstone, laminated, fine grained. Muddy laminae, complex from 140'6"-141'0. Small fault with listing at 141'10". Fining downwards to grey siltstone	4	0	142	8
	Siltstone, grey laminated. Very High Angle Joint from 144'4" to 148'2" with fragmentary core along this length	5	6	148	2
	Mudstone, fragmentary	1	0	149	2
	Mudstone, silty, grey to dark grey. Laminated, silky sheen, plant debris. DIP 18°	1	2	150	4
	COAL, ankerite joint faces	1	1	151	5
	Seatearth, silty light grey. Abundant roots fairly strong	2	7	154	0
	Seatearth, sandy, roots light grey. Ironstone nodules at 155! High Angle Slips at 156' and with broken core from 157'3" to 158'	4	0	158	0
	Sandstone, light grey, medium grain, wispy laminae, Strong	1	2	159	2
	Siltstone, fine grained, light grey, laminated. Isolated plant debris. DIP 20°. Ironstone band 1/2" at 162'3". High Angle Slip 165'0cc. well preserved leaves	9	3	168	5
	Sandstone, fine grained, light grey. Very finely laminated, complex	4	2	172	7
	Sandstone, loosely cemented. Medium grain light grey. High Angle Joint mineralised. Occ. carbonised laminae. Coaly 1/2" to 178'6" Coarse micaceous from 178'6"	6	4	178	11
	4				



FORM P 71 T
SERIES 680

Section of ROSCOE No. 1 BOREHOLE

6-INCH MAP	B/H
	513
SJ48NE	30

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		or ft*	or in*	or ft*	or in*
				178	11
	Sandstone, very fine grained, finely laminated, complex to 180'7" then regular fine striped, 3" ferruginous to 181'9". Sharp base DIP 28° possibly faulted, small	4	0	182	11
	Fault, sandstone gouge	1	3	184	2
	Sandstone, very fine grain, laminated as above	2	11	187	1
	Sandstone, strong, complex laminae		9	187	10
	Sandstone, very fine grain. High Angle Slips 191' to 192', and 193' to 194'	8	0	195	10
	Seatearth, soft weak and friable	1	0	196	10
	Seatearth, mudstone, laminated, listric bedding planes		7	197	5
	Seatearth, silty, abundant roots		9	198	2
	Siltstone, poorly laminated. Brown/Grey. Plant debris and roots occ. carbonised. High Angle Slip 200'5"	2	10	201	0
	Siltstone, light grey, wispy laminae	2	0	203	0
	Sandstone, fine grain, laminated. Small fault with broken core from 204'2" to 205'. Abrupt base	5	8	208	8
	Mudstone, dark grey. Fragmentary core. 2" ironstone to 209'4". Listric bedding planes	2	4	211	0
	Mudstone, light grey. High Angle Slip planes at top, slightly ferruginous in top 6". DIP 35°. Small Fault at 212'8". Broken by Slip Planes 213' to 215' with listric planes	5	10	216	10
	Fault, High Angle listric planes and fragmentary core		11	217	9
	Mudstone, grey, laminate, smooth. No fossils 3" band of weak conglomerate with ironstone pebbles	2	10	220	7
	COAL, bright, pyrite faces. Fragmentary		8		
	COAL, cindery, some pyrite faces. Core		11		
	COAL, bright, Core		17		
	Mudstone, laminate. DIP 26°		2½		
	COAL, Core		4		
	Seatearth, soft		4		
	Seatearth, hard		2		
	COAL, core, lenticular pyrite		11		
	COAL, core		16		
	COAL, pieces		7		
	Seatearth,		1½		
	COAL, becoming dirty in basal 1"		4½		
	Dirt		1		
	COAL, pieces		5½	228	6
	Mudstone/Seatearth, slightly silty in top 3", abundant roots, listric surfaces		10	229	4
	Seatearth, silty, abundant roots, listric surfaces. High Angle Slips probable fault 230'6" to 231'0". Bedding plane slip 231'3"	1	11	231	3
		5			

? LONDON
DELPH



FORM P 71 T
SERIES 680

Section of ROSCOE No. 1 BOREHOLE

6-INCH MAP	B/H
	5/3
SJ 48 NE	30

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		or ft*	or in*	or ft*	or in*
				231	3
	Sandstone/Sandstone, stigmata and roots carbonised. Vertical joint	1	9	233	0
	Siltstone, coarse, laminate. Vertical joint continues down to 235'. DIP at 236' - 32° Abundant High Angle Planes with broken core from 238' 3" to 239'	6	0	239	0
	Sandstone, grey, faint carbon films, poorly cemented and powdery, occ. roots to 242'	5	6	244	16
	Fault, broken core		4	244	10
	Sandstone, thin fractures infilled with calcite		6	245	4
	Faulted, broken core		6	245	10
	Sandstone, fine grained, grey, strong. Joint from 246' to 246' 11", High Angle Slips 247' to 247' 8", and Slip with highly listric surface at 248' 10"	4	11	250	9
	Siltstone, grey, badly fractured with listric surfaces	2	1	252	10
	Fault, gouge		7	253	5
	Mudstone, silty, brownish grey, laminate Abundant plant debris. Ferruginous 253' 10" to 254' 4", becoming quartz rich, high angle joints. Listric bedding plane slip at 255' 6", DIP 19°. Small burrows infilled white 255' 8" to 255' 11"	3	5	256	10
	Siltstone, coarse, laminate. Abundant plant debris. Listric plane at base		10	257	8
	Sandstone, medium coarse, abundant plant debris, Strong, Whispy laminations Erosional base		5	258	1
	Mudstone, grey, abundant carbonised plant debris		3	258	4
	Sandstone, as above		3	258	7
	Siltstone, abundant plant debris. Coalified calamites stems. Fractured by slips from 259' 3" with High Angle Joint from 260'	1	10	260	5
	Sandstone, turbulent, listric parting at base		10	261	3
	Siltstone, fine grain, dark grey with comminuted plant debris		10	262	1
	Sandstone, strong, slurry bedded with conglomerate of silt flakes to 262' 8" then laminated slightly conglomeratic	1	2	263	3
	Sandstone, grey, whispy. Joint from top to 264' 7"	1	4	264	7
	Sandstone, grey, faint laminae. Mineralised fine cracks		10	265	5
	6				



FORM P 71 T
SERIES 680

Section of ROSCOE No 1 BOREHOLE

8-INCH MAP	B/H
	513
SJ 48 NE	30

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		ft*	in*	ft*	in*
	Sandstone, grey flaser bedded with carbon laminae. High Angle Joint 265'5" to 266'10". Faulted base	1	9	265	5
	Sandstone, fine cracks infilled with calcite. Small contemporaneous faults		10	267	2
	Sandstone, grey, flaser bedded. Lminate from 269'10". Numerous fractures and small cavities infilled	3	0	268	0
	Faulted ground. Breccia with large pieces of sandstone in a muddy matrix for 30" then a dark grey weak muddy core with small fragments. Drilling mud loss in this length	5	0	271	0
	Mudstone; silty, grey. Very steeply inclined 60° Carbonaceous plant debris. Iron impregnated heavy 276'8 to 277'5. High Angle Slip listric at 277'10. Occ. fish plate	2	9	276	0
	Fault, ground up material, carbonaceous mudstone		6	278	9
	Siltstone, fine grain. Carbonaceous with coal laminae. DIP 60°		9	279	3
	High Angle Slip 280' to 280'5"			280	0
	Mudstone, carbonaceous with coal streaks		10	280	10
	COAL, dirty		2	281	0
	Seatearth, muddy, weak	1	0	282	0
	Seatearth, mudstone, compact. Listric, roots. High Angle Slips through-out; 1" gouge at 283'7; and 2" gouge at 284'	2	4		
	Seatearth, mudstone, strong. Dark grey roots	2	0	284	4
	COAL. DIP 50°; High Angle Slip 286'5 to 286'7½. Isolated small pyritic lenses		10	286	4
	COAL, dirty, pyrite faces		7		
	COAL, bright	2	0		
	COAL, inferior, dull		8		
	COAL, dirty, DIP 55°	1	2	288	7
	Seatearth, weak and friable		10	291	7
	Seatearth, coaly with High Angle Slip. 1" pyrite at base		10	292	5
	Seatearth, light grey, muddy, very weak	1	4	293	3
	Mudstone, light grey. Strong with near vertical listric fractures, coarsening downwards			294	7
	Sandstone, fine grain. Light grey. Occ. stems. Very fine laminations	1	4	295	11
	Sandstone, fine grain. Badly broken core listric high angle surfaces a few ironstone nodules	3	3	299	2
	Sandstone, core, as above. Slurry bedded 5" to 301'10. Listric parting 302'1"	1	1	300	3
		2	9	303	0
	7				

FORM P 71 T
SERIES 680

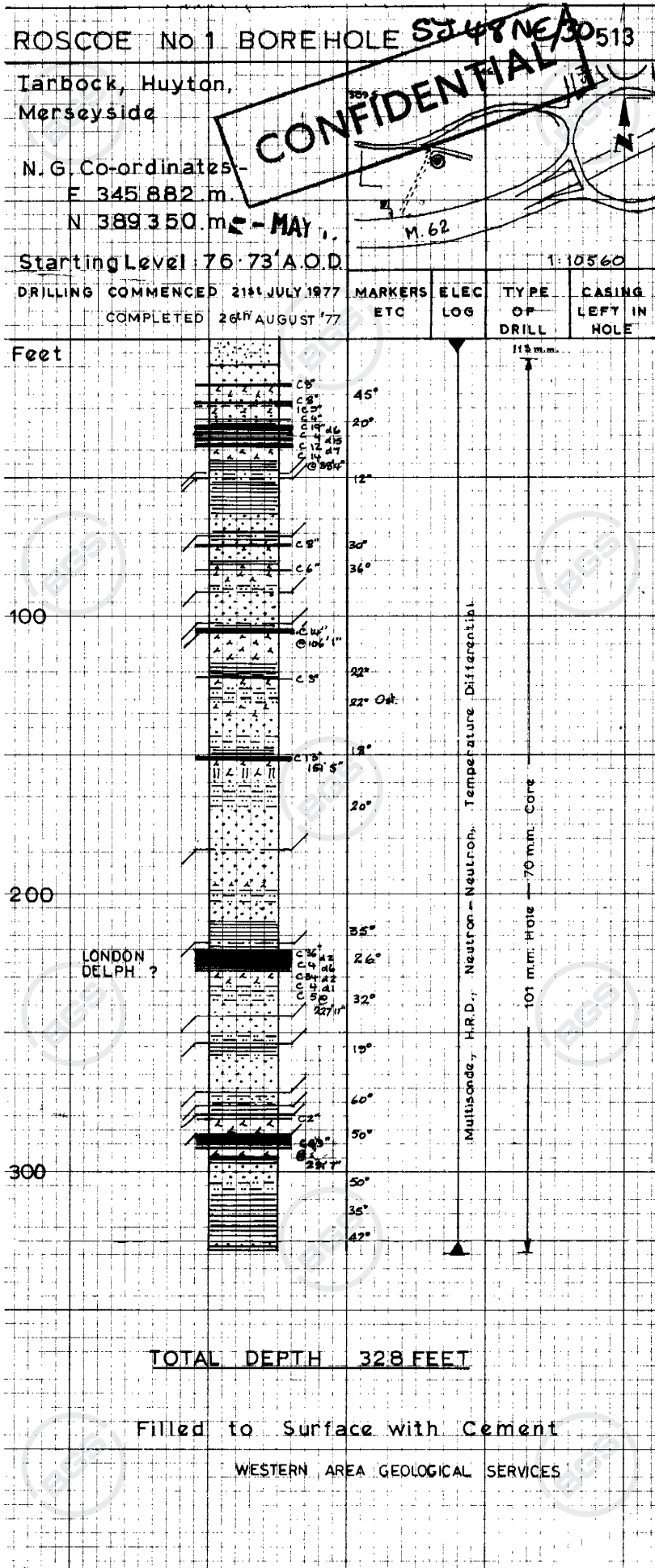
Section of ROSCOE No 1 BOREHOLE

6-INCH MAP	B/H
	513
85 48 NE	30

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	Delete as appropriate			
		THICKNESS		DEPTH	
		+ or ft*	- or in*	= or ft*	> or in*
	Siltstone, light grey. Occ. plant debris DIP 50°. 1" ironstone at 303'8 and 304'. Occ. calamites. 1" ironstone 304'10 and ironstone nodules 305'6 to 305'9			303	0
Mudstone,	grey, occ. plant debris. Some listric planes. Ferruginous patches. Slip plane 307'2. badly broken core with listric surfaces below 308'	3	0	306	0
Mudstone,	grey, strong. Occ. carbonised roots and layers of abundant plant debris	4	1	310	1
Mudstone,	dark grey, laminated DIP 35°. Abundant plant debris. Bedding plane slip with ½" gouge.	1	9	311	10
	1½" ironstone with plant debris at 313'2. Below 313'2 badly ground up weak material	2	11	314	9
Mudstone,	carbonaceous, laminated DIP 40° Plant debris, occ. thin ferruginous bands with 2" dark, coaly ironstone at 316'4". becomes cannaloid below, occ. fish debris mainly small specks	2	5	317	2
Mudstone,	light grey. Strong, occ. bands of slurry bedded sandstone up to 1" thick. High Angle Slip 319'. Interlaminated with quartz from 319'6"	3	8	320	10
Mudstone,	light grey, laminated. Strong Isolated plants. Slip 321'10" to 322'9" weakens below DIP 42° Quartz laminae from 325'	5	2	326	0
Sandstone,	fine grain, laminated		5	326	5
Mudstone,	slightly silty, medium gray Occ. quartz laminae. DIP 42° Vertical listric fracture	1	7	328	0
TOTAL DEPTH 328 FEET 99.97m					
Filled to surface with cement.					
Area Geological Service Stoke-on-Trent					

Area Preological Service
Stake-in-Twent



CONTRACT. LANCASHIRE YORKSHIRE MOTORWAY M62										SHEET No. 1			
LOCATION. TARBOCK TO CROFT (Site 2) BUN ² B10c										No. of sheets. 1			
CLIENT. SJ48NE/123 4598, 8923 MINISTRY OF TRANSPORT				PERCUSSION U D SPT B		Casing. Size to. Size to. 8"		Ground level. 78.28		Commenced. 25/10/67			
Weather. HEAVY SHOWERS				ROTARY Cored runs O/H		M.C. % Type of Test Core Rec. %		GRADING % PASSING SIEVE 3" 1 1/2" 2" 3" 4" 5" 6" 7" 8" 9" 10" 12" 15" 20" 25" 30" 35" 40" 45" 50" 60" 75" 100" 200"		TAQ. or UCT. Bulk Density p.c.f. Shear /o ^o p.s.f. Dev. Stress p.s.i. Lat. Pres. p.s.i. UCT. Pres. p.s.i. Shear /o ^o p.s.f.		WATER REMARKS	
STRATUM. (Scale: 1/4 inch to 1 foot)				SPT. Blow Count (N) LL/PL/PI		LEGEND		RESULTS OF ANY OTHER TESTS.					
1	Thickness	2	Depth	3	Sample No.	4	5	6	7	8	9	10	
Soil	1'3"	1'3"											
Loose brown sand	1'9"	3'0"											
Stiff brown clay with stone inclusions and coal traces	2'6"	5'0"	U1	28/10/18				15.9	UCT		135.3	2644	
Stiff reddish brown clayey shaley marl	6'0"	11'0"	M1	30/12/18 (CL)				13.8					
	7'6"		U2					11.8	TAQ		131.0	37.7 20	
	8'6"		A2					12.0			118.9	43.2 40	
	5'6"		M2					11.6				2016/7.0 ⁰	
Reddish grey shaley marl	12'0"		U3					7.3	TAQ		131.9	48.8 20	
	13'6"		A3					7.1			136.3	84.0 40	
	14'0"		M3					17.6				547/28.0 ⁰	
	15'0"		U4					8.6	TAQ		129.3	34.5 20	
Hard reddish grey marly shale	1'0"		CP1	75 for 4" (total)								4968/0 ⁰	
Grey shale	17'0"		M4					4.6					
	20'0"		CP2	75 for 3" (total)									
	20'3"												
BOREHOLE COMPLETED												Water table not encountered	



Norwest Holst Soil Engineering Ltd.

Borehole No.

3

Contract No. F7249
Location Hyton - Lucas Aerospace
Client Durkin Moran & Reynard
Method of Boring Percussion
Diameter of Borehole 150mm

BOREHOLE LOG

Sheet 1 of 1
Chainage
Ground Level m.A.O.D.
Date 4/2/87

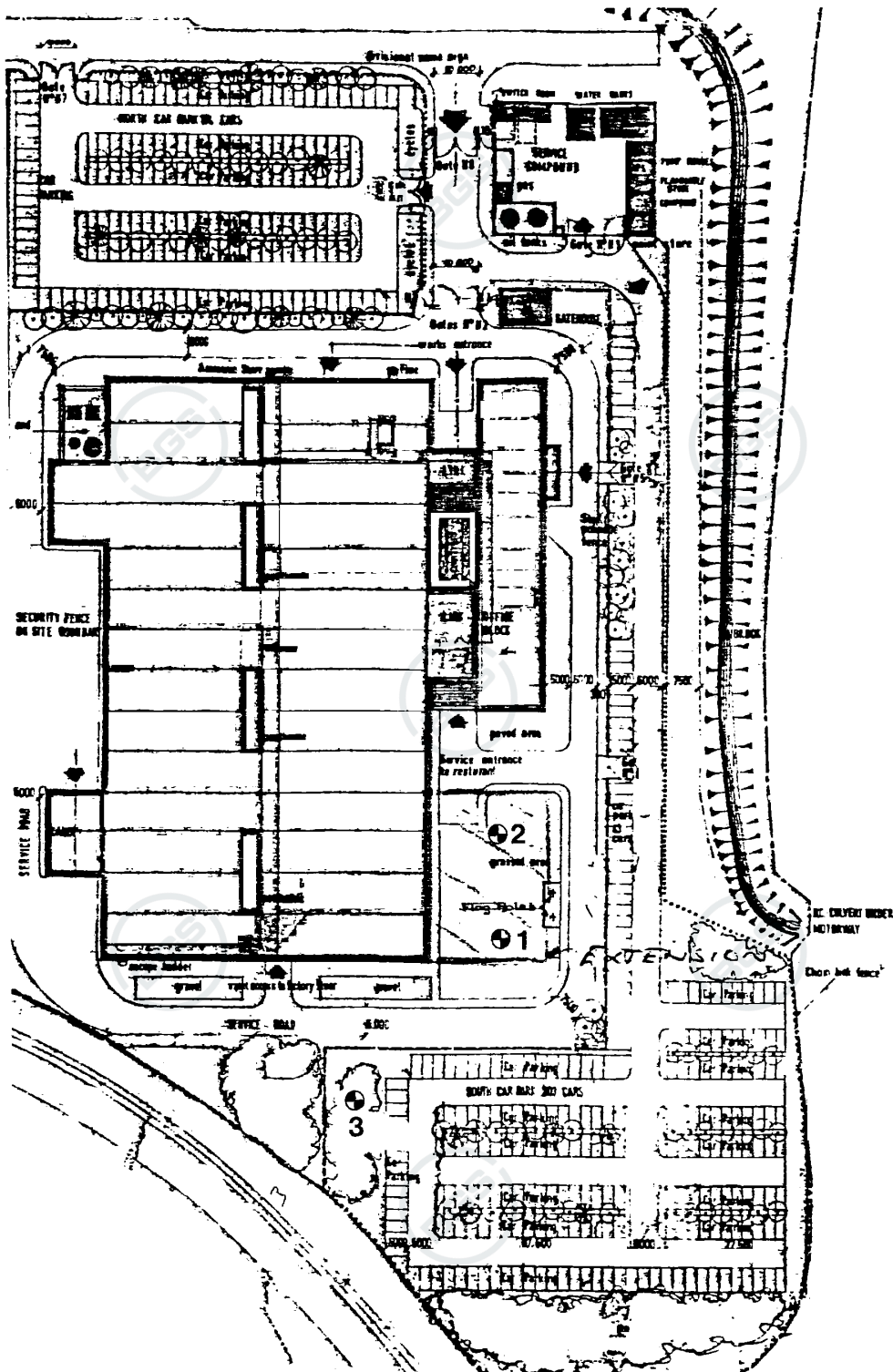
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D. %	Daily Progress
MADE GROUND: topsoil and clay		0.50			G.L. (30)		
MADE GROUND: firm brown clay with brick fragments etc.		1.00			0.50 (70)		
MADE GROUND: Loose black ash and clay		2.00			1.00 (40)	9	
Loose dark brown medium and coarse SAND		3.00			2.00 (2.50)	7 8	
Stiff red/brown silty sandy CLAY with gravel		4.00			3.00 (100)		
Completely weathered red/brown SANDSTONE		4.50			4.00 (100)		
Weathered purple/red SANDSTONE		5.00			4.50 (150mm)	90 for 150mm 80 for 150mm	

Type of Sample Is S.P.T. ☐ Undisturbed Ic. C.P.T. ☐ Vane O Jar ☐ Water ● Bulk ☐ Piezometer	Remarks (Observations of Ground Water etc.) () U100 blows Water struck at 2.00m, level rose after 20 mins to 1.90m *Seating blows only. Water levels are subject to seasonal or tidal variations and should not be taken as constant
---	---

Norwest Holst Soil Engineering Ltd

Client: DURKIN MORAN & REYNARD

Location: HYTON-LUCAS AEROSPACE LIMITED



Contract Number: F7249

GROUND INVESTIGATION

Fig;

Scale: 1:1250

Title:

BOREHOLE LOCATION PLAN

1

Appendix E

Regulatory Correspondence



Freedom of Information request

Title

Environmental Information

Reference number

6785

Request type

EIR

Request details

Fairhurst are undertaking environmental desk study assessments for the following site:
Halewood International Ltd,
Tarbock Green, Liverpool
Approximate postcode L36 6AW
OS Grid Reference: 345698, 389502
Can you please provide information on the environmental setting for the site from your records, including information on:
· Details of any groundwater and surface...
Show More

Response details

View

← Back

Page Title

Response Details

Thank you for your enquiry in relation to the address detailed below. I have provided answers to your questions below.

RE: Halewood International Ltd, Wilson Road, Huyton

Can you please provide information on the environmental setting for the site from your records, including information on:

Details of any groundwater and surface water abstractions and their purpose, at the site and within a 1km radius?;

We do not hold this information, please contact the EA.

Details of any landfills (current and / or historical) at the site and within 500m, including any information on infill materials, dates of infilling, and any groundwater / ground gas monitoring data. Also, have there been any issues relating to land contamination for the respective landfills?;

Landfills – Huyton Quarry – Brickfields 1 and 2, pre 1974, Tushingham
Metallic Brick works, filled from early to late 1970's – the former clay extraction pit was filled with putrescible waste. We have no information in relation to groundwater. No issues have been reported in relation to contaminated land.

Details of any contaminated land and pollution incidents at the subject site and within a 500m radius?;

No issues have been reported in relation to contaminated land.

If the site / portions of the site, and surrounding area within 1km radius, are designated as contaminated land under part 2a of the Environmental Protection Act 1990 (as amended), including whether any identifications are classified as

Page Title

Response Details

Thank you for your enquiry in relation to the address detailed below. I have provided answers to your questions below.



Freedom of Information request

Title	Environmental Information
Reference number	6785
Request type	EIR

Request details

Fairhurst are undertaking environmental desk study assessments for the following site:

Halewood International Ltd,

Tarbock Green, Liverpool

Approximate postcode L36 6AW

OS Grid Reference: 345698, 389502

Can you please provide information on the environmental setting for the site from your records, including information on:

- Details of any groundwater and surface...

Show More

Response details

View

← Back

Page Title



Act 1990 (as amended), including whether any identifications are classified as Special Sites?;

The site has not been identified as contaminated land under Part 2A of the Environmental Protection Act 1990. The Council has not yet determined any sites

as 'contaminated land' within this area of the County Borough. The process of identifying all the potential contaminated land sites will be carried out in the usual way that desk studies are carried out i.e., by checking historical maps and other sources of information to determine potentially contaminative uses.

The historical maps held by this department indicate that the site has been associated with a works – Halewood International.

In light of the former use of the land where the property is situated, if the site was to be redeveloped the potential contaminated land at the site would be address through the planning process. At this stage it would be unlikely that the site would be assessed under Part 2A.

The Knowsley Council Contaminated Land Strategy can be found on Knowsley Council website - please see link:

<http://www.knowsley.gov.uk/pdf/KMBC-contaminated-land-inspection-strategy-2014.pdf> (<http://www.knowsley.gov.uk/pdf/KMBC-contaminated-land-inspection-strategy-2014.pdf>)

Details of any water quality information at the site and within 500m?;

We do not hold this information, please contact the EA.

Details of any information on groundwater flow direction beneath the site?;

We do not hold this information, please contact the EA.

Details of any further pertinent information relating to contaminated land /

Page Title

Act 1990 (as amended), including whether any identifications are classified as Special Sites?;

The site has not been identified as contaminated land under Part 2A of the Environmental Protection Act 1990. The Council has not yet determined any sites



Freedom of Information request

Title	Environmental Information
Reference number	6785
Request type	EIR

Request details

Fairhurst are undertaking environmental desk study assessments for the following site:

Halewood International Ltd,

Tarbock Green, Liverpool

Approximate postcode L36 6AW

OS Grid Reference: 345698, 389502

Can you please provide information on the environmental setting for the site from your records, including information on:

- Details of any groundwater and surface...

Show More

Response details

View

← Back

Page Title

×

Details of any further pertinent information relating to contaminated land / controlled waters at the site and within 1km?; and

There are no known contamination issues at the site.

The Halewood International site has had site investigations undertaken as part of planning applications 22/00662/FUL and 23/00118/FUL The sites surrounding the site in question has had a contaminated land investigations undertaken through the planning process –

planning applications:

03/00492/FUL

02/00258/FUL

06/00207/FUL

06/00990/FUL

<https://www.knowsley.gov.uk/residents/building-and-planning/view-planning-applications> (<https://www.knowsley.gov.uk/residents/building-and-planning/view-planning-applications>)

Details of any information on groundwater level at and within 500m of the site.

We do not hold this information, please contact the EA.

If you are dissatisfied with the handling of your Freedom of Information request you may request an internal review which would be handled under the Council's complaints procedure. Internal review requests should be made within 40 working days of our initial response to your request. After this deadline the Council are not obliged to accept internal reviews. Details of the Council's complaints procedure

Page Title

Details of any further pertinent information relating to contaminated land / controlled waters at the site and within 1km?; and

There are no known contamination issues at the site.



Freedom of Information request

Title	Environmental Information
Reference number	6785
Request type	EIR

Request details

Fairhurst are undertaking environmental desk study assessments for the following site:

Halewood International Ltd,

Tarbock Green, Liverpool

Approximate postcode L36 6AW

OS Grid Reference: 345698, 389502

Can you please provide information on the environmental setting for the site from your records, including information on:

- Details of any groundwater and surface...

Show More

Response details

View

← Back

Page Title

×

06/00207/FUL

06/00990/FUL

<https://www.knowsley.gov.uk/residents/building-and-planning/view-planning-applications> (<https://www.knowsley.gov.uk/residents/building-and-planning/view-planning-applications>)

Details of any information on groundwater level at and within 500m of the site.

We do not hold this information, please contact the EA.

If you are dissatisfied with the handling of your Freedom of Information request you may request an internal review which would be handled under the Council's complaints procedure. Internal review requests should be made within 40 working days of our initial response to your request. After this deadline the Council are not obliged to accept internal reviews. Details of the Council's complaints procedure can be found on the Council's website at:

[https://secured.knowsley.gov.uk/Documents/HaveYourSay/Have Your Say Complaints Comments and Compliments.pdf](https://secured.knowsley.gov.uk/Documents/HaveYourSay/HaveYourSayComplaintsCommentsandCompliments.pdf)
([https://secured.knowsley.gov.uk/Documents/HaveYourSay/Have Your Say Complaints Comments and Compliments.pdf](https://secured.knowsley.gov.uk/Documents/HaveYourSay/HaveYourSayComplaintsCommentsandCompliments.pdf))

Should you make a complaint under this procedure but remain dissatisfied, I am also required to inform you that you can appeal against the decision by contacting the Information Commissioner. The Commissioner's postal address is Wycliffe House, Water Lane, Wilmslow SK9 5AF. The telephone number for the Information Commissioner's Office is 0303 123 1113 or 01625 545745. The e-mail address is: casework@ico.org.uk (<mailto:casework@ico.org.uk>).

Close

Page Title

06/00207/FUL

06/00990/FUL

Pippa Lee

From: GMMC Info Requests <InfoRequests.GMMC@environment-agency.gov.uk>
Sent: 10 August 2023 17:31
To: Pippa Lee
Subject: GMMC320324SW Response attached from the Environment Agency
Attachments: Tarbock Green, Waste Sites.csv; Tarbock Green, Liverpool Pollution Incidents.xlsx; Halewood International Ltd Site Map.pdf

Dear Pippa,

Thank you for your enquiry which was received on 25/07/23.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

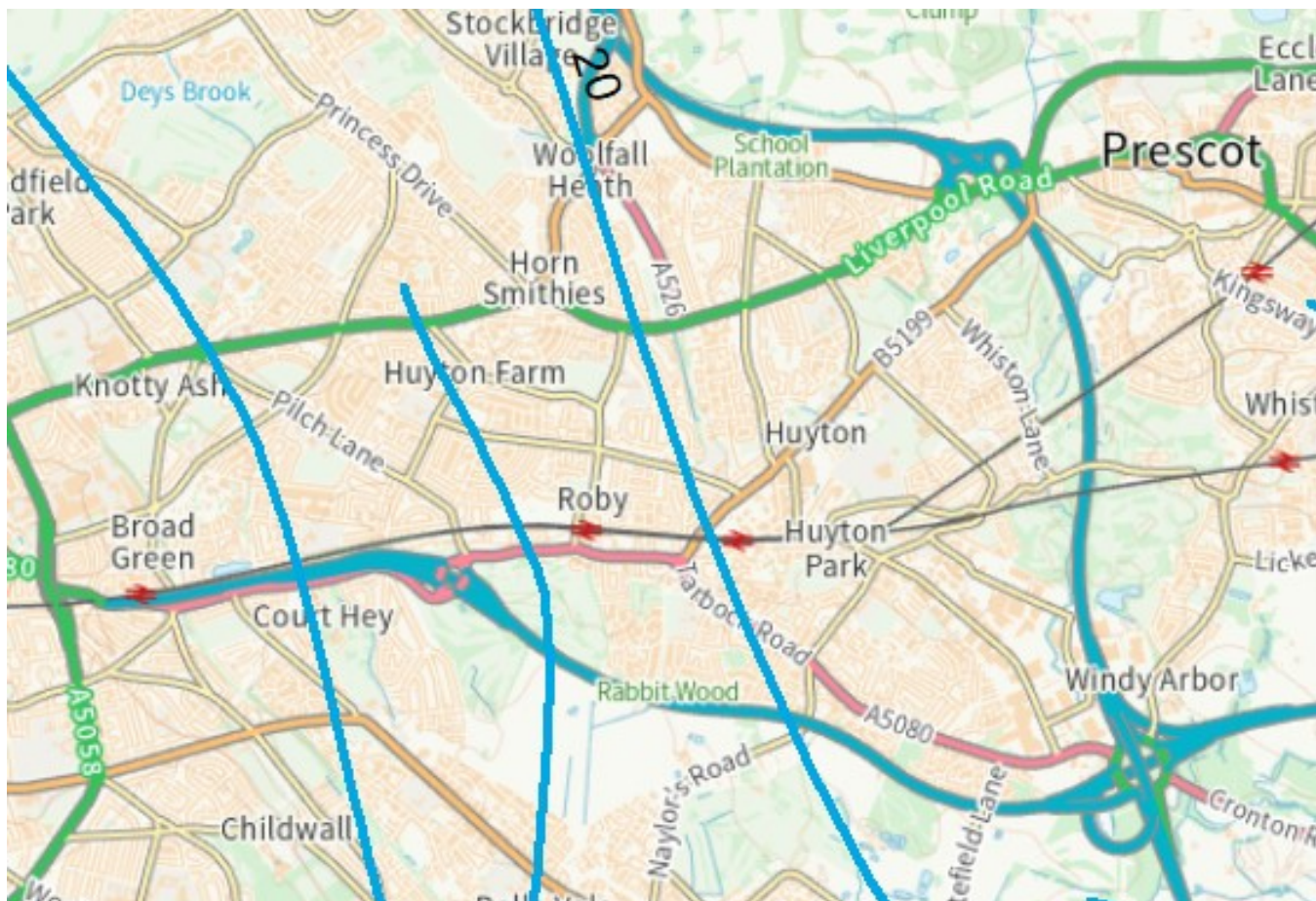
The Environment Agency's records do not indicate that the property has been designated as a Special Site and there is accordingly no entry relating to it on the register maintained by the Environment Agency under section 78R of the Environmental Protection Act 1990. For further information relating to land contamination it is recommended that you contact the relevant local authority

Local Authorities are the lead regulators for contaminated land with respect to Human Health and hold historic records/reports on potential sources of land contamination and within their boroughs. We recommend that you contact Warrington Council Contaminated Land/Environmental Health Team to see if they hold any relevant information in relation to the current use and potential sources of contamination on the site and adjacent land.

I have attached data for pollution incident and waste site data, one or both of the sites were the source of some of the incidents. I have also attached a map showing the location of these.

There are no current or historic landfill sites within the vicinity.

We have no Groundwater level or quality data from our monitoring networks at this location or within 500m, but we do have modelled data from the level network in this area see below:



I can confirm that there are no surface water or groundwater abstractions at the site or within a 1km radius.

Regarding water quality information this is Open Data. Please see the water quality data archive here; <https://environment.data.gov.uk/water-quality/view/landing>.

Please refer to the [Open Government Licence](#) which explains the permitted use of this information.

Please get in touch if you have any further queries or contact us within two months if you'd like us to review the information we have sent.

Kind regards,

Sarah

Sarah Walters | Customer and Engagement Officer
Greater Manchester, Merseyside and Cheshire

Direct email: Inforequests.GMMC@environment-agency.gov.uk

Office address: Richard Fairclough House, Knutsford Road, Latchford, Warrington, WA4 1HT

Please consider this a “thanks” in advance.

Every email has a carbon footprint. So if you don't hear back from me,
it's not because of you, it's because of the planet.

#WhatWeCanDo

From: Pippa Lee <pippa.lee@fairhurst.co.uk>

Sent: 25 July 2023 11:00

To: Enquiries, Unit <enquiries@environment-agency.gov.uk>

Subject: 230802/FG17:156463: Geo-Environmental Desk Study Request for Information

Hello,

Fairhurst are undertaking environmental desk study assessments for the following site:

**Halewood International Ltd,
Tarbock Green, Liverpool
Approximate postcode L36 6AW
OS Grid Reference: 345698, 389502**

Can you please provide information on the environmental setting for the site from your records, including information on:

- Details of any groundwater and surface water abstractions and their purpose, at the site and within a 1km radius?;
- Details of any landfills (current and / or historical) at the site and within 500m, including any information on infill materials, dates of infilling, and any groundwater / ground gas monitoring data. Also, have there been any issues relating to land contamination for the respective landfills?;
- Details of any contaminated land and pollution incidents at the subject site and within a 500m radius?;
- If the site / portions of the site, and surrounding area within 1km radius, are designated as contaminated land under part 2a of the Environmental Protection Act 1990 (as amended), including whether any identifications are classified as Special Sites?;
- Details of any water quality information at the site and within 500m?;
- Details of any information on groundwater flow direction beneath the site?;
- Details of any further pertinent information relating to contaminated land / controlled waters at the site and within 1km?; and
- Details of any information on groundwater level at and within 500m of the site.

Many thanks,
Pippa

Pippa Lee
Graduate Geo-Environmental Engineer



Harlequin Building
65 Southwark Street
London, SE1 0HR
Tel: 020 7828 7825 Mobile: 07415423946
Website: www.fairhurst.co.uk

Why not take a look at our Practice Profile to see the diverse range of skills we can offer. Just click [<HERE>](#)

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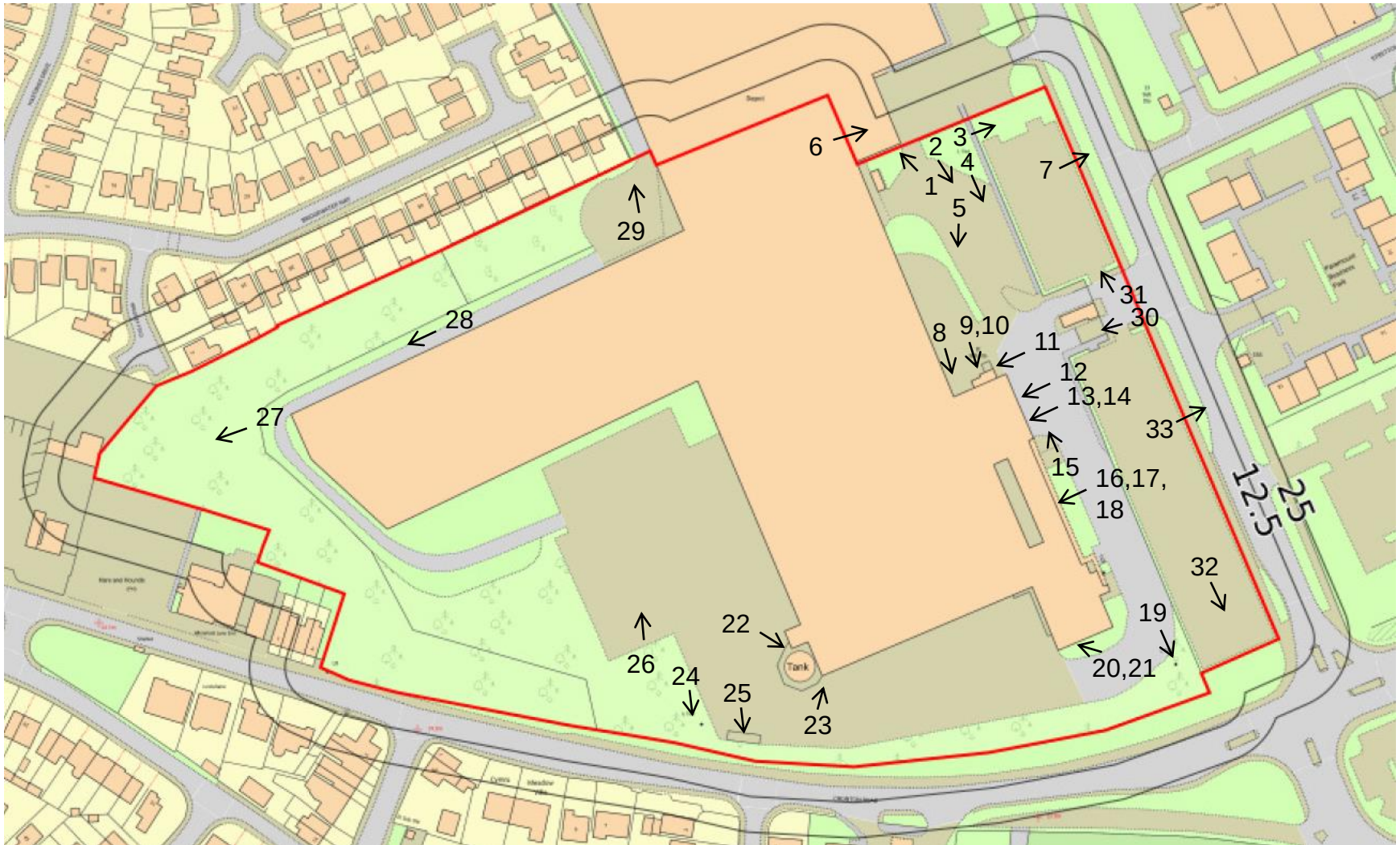
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Appendix F

Site Photographs



FAIRHURST

Desk Study Report

Site Photo Plan and Photos

156463 – Home Bargains, Huyton

Date:
Aug 2023

Initials:
PL

Appendix:
F



Photo 1: View looking north fo localised deterioration of hard surfacing on access road in north eastern part of site. The buildings beyond the palisade fencing are offsite. Soft landscaping areas partially border the northern site boundary on the eastern side.

FAIRHURST

Desk Study Report

Site Photo Plan and Photos

156463 – Home Bargains, Huyton

Date:
Aug 2023

Initials:
PL

Appendix:
F



Photo 2: View looking south along the eastern side of the buildings. The car park is located in the northern part of the site. A wet well is present, protruding above ground.

FAIRHURST

Desk Study Report

Site Photo Plan and Photos

156463 – Home Bargains, Huyton

Date:
Aug 2023

Initials:
PL

Appendix:
F



Photo 3: Palisade fencing creates barrier between onsite car park in eastern side of the site and access road visible in Photo 2. View is looking east.

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F