

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	Contemporary Trade Directory Entries Name: Evans Halshaw Location: Southam Road, Banbury, Oxfordshire, OX16 2RR Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	325	-	445538 241727
106	Contemporary Trade Directory Entries Name: Paul Claydon Location: 11, Neithrop Close, Banbury, Oxfordshire, OX16 2NU Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	329	-	444871 241069
107	Contemporary Trade Directory Entries Name: Spectrum Auto Solutions Location: 2a, Cope Road, Banbury, Oxfordshire, OX16 2EH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	334	-	445324 240979
107	Contemporary Trade Directory Entries Name: Reids Location: 2a, Cope Road, Banbury, Oxfordshire, OX16 2EH Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	334	-	445324 240979
107	Contemporary Trade Directory Entries Name: Spectrum Auto Solutions Location: 2a Cope Rd, Banbury, Oxfordshire, OX16 2EH Classification: Car Body Repairs Status: Active Positional Accuracy: Manually positioned to the address or location	A8NE (S)	334	-	445324 240979
108	Contemporary Trade Directory Entries Name: Hartwell Ford Location: Southam Rd, Banbury, Oxfordshire, OX16 2AD Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (SE)	396	-	445360 240920
109	Contemporary Trade Directory Entries Name: Pete Scarsbrook Location: 4, Neithrop Avenue, Banbury, Oxfordshire, OX16 2NF Classification: Washing Machines - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	400	-	444979 240956
110	Contemporary Trade Directory Entries Name: Currys Location: 9, Lockheed Close, Banbury, Oxfordshire, OX16 1LX Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	402	-	445178 241982
111	Contemporary Trade Directory Entries Name: Encase Ltd Location: Beaumont Road, Banbury, Oxfordshire, OX16 1RE Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	426	-	444943 242028
111	Contemporary Trade Directory Entries Name: Encase Holdings Location: Beaumont Road, Banbury, Oxfordshire, OX16 1RE Classification: Paper & Cardboard Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	426	-	444943 242028
111	Contemporary Trade Directory Entries Name: Encase Location: Beaumont Road, Banbury, Oxfordshire, OX16 1RE Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	426	-	444943 242028
112	Contemporary Trade Directory Entries Name: Charlie Browns Autocentres Location: 14, Ruscote Avenue, Banbury, Oxfordshire, OX16 2NW Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	436	-	444574 241197

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113	Contemporary Trade Directory Entries Name: P R G Powerhouse Location: 8, Lockheed Close, Banbury, Oxfordshire, OX16 1LX Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	481	-	445378 241960
113	Contemporary Trade Directory Entries Name: Tesco Petrol Filling Station Location: 8, Lockheed Close, Banbury, Oxfordshire, OX16 1LX Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	481	-	445378 241960
114	Contemporary Trade Directory Entries Name: Tarmac Ltd Location: Water Works Rd, Banbury, Oxfordshire, OX16 3JJ Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A14NW (NE)	486	-	445757 241728
115	Contemporary Trade Directory Entries Name: Fortress Technology Location: Beaumont Road, Banbury, Oxfordshire, OX16 1RH Classification: Industrial Instrument & Apparatus Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SW (N)	500	-	445082 242107
115	Contemporary Trade Directory Entries Name: M T S Location: Beaumont Rd, Banbury, Oxfordshire, OX16 1RF Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	543	-	445058 242152
115	Contemporary Trade Directory Entries Name: Iron & Wood Location: Unit 1, Mallorie House, Beaumont Road, Banbury, Oxfordshire, OX16 1RH Classification: Woodburning Stoves Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	547	-	445092 242153
116	Contemporary Trade Directory Entries Name: Schenck Location: Unit G188-G191, Cherwell Business Village, Southam Rd, Banbury, Oxfordshire, OX16 2ED Classification: Engineering Machine Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	502	-	445378 240816
117	Contemporary Trade Directory Entries Name: Lafarge Aggregates Ltd Location: Water Works Road, Banbury, Oxfordshire, OX16 3JJ Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	532	-	445727 241838
117	Contemporary Trade Directory Entries Name: Lafarge Location: Water Works Road, Banbury, Oxfordshire, OX16 3JJ Classification: Asphalt & Macadam Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	532	-	445727 241838
117	Contemporary Trade Directory Entries Name: Lafarge Aggregates Location: Water Works Road, BANBURY, Oxfordshire, OX16 3JJ Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	532	-	445727 241838
117	Contemporary Trade Directory Entries Name: Lafarge Aggregates Ltd Location: Water Works Road, Banbury, Oxfordshire, OX16 3JJ Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	532	-	445727 241838

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117	Contemporary Trade Directory Entries Name: Lafarge Readymix Location: Water Works Rd, Banbury, Oxfordshire, OX16 3JJ Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Manually positioned within the geographical locality	A19SW (NE)	532	-	445727 241838
118	Contemporary Trade Directory Entries Name: Motormarket Location: Warwick Rd, Banbury, Oxfordshire, OX16 2AB Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	547	-	445221 240772
119	Contemporary Trade Directory Entries Name: Clark'S Press Ltd Location: Beaumont Road, Banbury, Oxfordshire, OX16 1RF Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	555	-	445023 242165
119	Contemporary Trade Directory Entries Name: Air Conditioning & Electrical Ltd Location: 16, Penhill Industrial Park, Beaumont Road, Banbury, Oxfordshire, OX16 1RW Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	555	-	445023 242165
119	Contemporary Trade Directory Entries Name: Holden Plant Services Location: 15, Penhill Industrial Park, Beaumont Road, Banbury, Oxfordshire, OX16 1RW Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	555	-	445023 242165
120	Contemporary Trade Directory Entries Name: Texaco Location: Warwick Road, Banbury, Oxfordshire, OX16 2AB Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	566	-	445056 240786
121	Contemporary Trade Directory Entries Name: Mark Regent Ltd Location: 49c Castle St, Banbury, Oxfordshire, OX16 5NU Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	570	-	445482 240771
121	Contemporary Trade Directory Entries Name: Motorway Tyres & Exhaust Ltd Location: Bolton Road, Banbury, Oxfordshire, OX16 5UL Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	613	-	445471 240722
121	Contemporary Trade Directory Entries Name: Hi-Q Location: Bolton Rd, Banbury, Oxfordshire, OX16 5UL Classification: Tyre Repairs & Retreading Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	616	-	445486 240724
121	Contemporary Trade Directory Entries Name: Hiq Location: Bolton Rd, Banbury, Oxfordshire, OX16 5UL Classification: Tyre Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	625	-	445486 240714
122	Contemporary Trade Directory Entries Name: Lake & Co Location: 7, Penhill Industrial Park, Beaumont Road, Banbury, Oxfordshire, OX16 1RW Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	581	-	444966 242188
123	Contemporary Trade Directory Entries Name: Cookerburra Location: 286, Warwick Road, Banbury, Oxfordshire, OX16 1AZ Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	596	-	444377 241199

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124	Contemporary Trade Directory Entries Name: Decoma Exterior Systems Location: Beaumont Road, Banbury, Oxfordshire, OX16 1TR Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	597	-	445424 242069
125	Contemporary Trade Directory Entries Name: Marsden Mobility Location: Castle Quay, Banbury, Oxfordshire, OX16 5UN Classification: Disability Equipment - Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	611	-	445667 240821
126	Contemporary Trade Directory Entries Name: 5 Star Cleaining Team Location: 1, Forsythia Walk, Banbury, Oxfordshire, OX16 1YR Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	616	-	444747 242160
127	Contemporary Trade Directory Entries Name: Jewson Ltd Location: Beaumont Road, Banbury, Oxfordshire, OX16 1RZ Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	619	-	445063 242229
128	Contemporary Trade Directory Entries Name: Little B Engineering Location: North Bar Pl, Banbury, Oxfordshire, OX16 0TD Classification: Engineering Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	654	-	445309 240658
128	Contemporary Trade Directory Entries Name: Phillips Autos Location: North Bar Place, Banbury, Oxfordshire, OX16 0TD Classification: Mot Testing Centres Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	655	-	445328 240658
129	Contemporary Trade Directory Entries Name: The Phone Stall Ltd Location: Kiosk K9, Castle Quay, Banbury, Oxfordshire, OX16 5UN Classification: Mobile Phone Accessories and Car Kits Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	672	-	445689 240761
129	Contemporary Trade Directory Entries Name: The Developing Co Ltd Location: 30, Castle Quay, Banbury, Oxfordshire, OX16 5UN Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	687	-	445684 240739
130	Contemporary Trade Directory Entries Name: Mettix Electric Co Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1TP Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	679	-	445278 242240
131	Contemporary Trade Directory Entries Name: Sai Automotive Sal Location: Finance House, Beaumont Road, Banbury, Oxfordshire, OX16 1RN Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	683	-	445500 242138
132	Contemporary Trade Directory Entries Name: Twenty 4 Seven Services Ltd Location: 44, Forgeway, BANBURY, Oxfordshire, OX16 1QS Classification: Engineering Materials Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	691	-	444395 241970
132	Contemporary Trade Directory Entries Name: 24 7 Services Location: 44, Forgeway, Banbury, Oxfordshire, OX16 1QS Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	691	-	444395 241970

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133	Contemporary Trade Directory Entries Name: R Babbs Location: 7, Hydrangea Walk, Banbury, Oxfordshire, OX16 1XX Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	695	-	444755 242250
134	Contemporary Trade Directory Entries Name: Potter & Soar Ltd Location: Beaumont Road, Banbury, Oxfordshire, OX16 1SD Classification: Wire Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	697	-	445221 242278
135	Contemporary Trade Directory Entries Name: Watermans Location: 50, Parsons Street, Banbury, Oxfordshire, OX16 5NB Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	702	-	445518 240643
135	Contemporary Trade Directory Entries Name: Photo Finish Location: 46, Parsons Street, Banbury, Oxfordshire, OX16 5NA Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	706	-	445491 240631
135	Contemporary Trade Directory Entries Name: Buzzards Location: 16, Parsons Street, Banbury, Oxfordshire, OX16 5LY Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	731	-	445491 240606
136	Contemporary Trade Directory Entries Name: Cleenol Group Ltd Location: Neville House, Beaumont Road, Banbury, Oxfordshire, OX16 1RB Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	720	-	445353 242251
136	Contemporary Trade Directory Entries Name: Dreumex (Uk) Ltd Location: Neville House, Beaumont Road, Banbury, Oxfordshire, OX16 1RB Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	720	-	445353 242251
136	Contemporary Trade Directory Entries Name: British Nova Works Ltd Location: Neville House, Beaumont Road, Banbury, Oxfordshire, OX16 1RB Classification: Floor Cleaning & Polishing Equipment - Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	720	-	445353 242251
137	Contemporary Trade Directory Entries Name: Hygiene Services Location: 23a, Parsons Street, Banbury, Oxfordshire, OX16 5LY Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	721	-	445447 240605
138	Contemporary Trade Directory Entries Name: Quality Cleaners Location: 26, Cornhill, Market Place, Banbury, Oxfordshire, OX16 5NG Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	722	-	445631 240668
138	Contemporary Trade Directory Entries Name: Bodycare Location: 27, Castle Quay, Banbury, Oxfordshire, OX16 5UH Classification: Toiletries Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	735	-	445656 240667
139	Contemporary Trade Directory Entries Name: Karcher (Uk) Ltd Location: Karcher House, Beaumont Road, Banbury, Oxfordshire, OX16 1TB Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	740	-	445416 242238

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140	Contemporary Trade Directory Entries Name: L P G Kits Location: 6, Ivatt Walk, Banbury, Oxfordshire, OX16 3WE Classification: Autogas Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	740	-	446100 241495
141	Contemporary Trade Directory Entries Name: Avonchem Ltd Location: Beaumont Clo, Banbury, Oxfordshire, OX16 1RQ Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18NE (N)	743	-	445284 242306
142	Contemporary Trade Directory Entries Name: Tooleys Location: Spiceball Park Road, Banbury, Oxfordshire, OX16 2PQ Classification: Boatbuilders & Repairers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	743	-	445793 240752
143	Contemporary Trade Directory Entries Name: Wrap Location: 21, Horse Fair, Banbury, Oxfordshire, OX16 0AH Classification: Reclaiming - Waste Products Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	756	-	445311 240556
143	Contemporary Trade Directory Entries Name: Waste & Resources Action Programme Location: 21, Horse Fair, Banbury, Oxfordshire, OX16 0AH Classification: Recycling Centres Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	756	-	445311 240556
144	Contemporary Trade Directory Entries Name: Ideas Location: 22, Castle Quay, Banbury, Oxfordshire, OX16 5UH Classification: Homefurnishings - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	762	-	445705 240664
144	Contemporary Trade Directory Entries Name: The Fragrance Shop Ltd Location: Castle Quay, Banbury, Oxfordshire, OX16 5UH Classification: Perfume Suppliers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	765	-	445714 240666
144	Contemporary Trade Directory Entries Name: Hoods Location: 35, Bridge Street, Banbury, Oxfordshire, OX16 5QA Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	785	-	445759 240672
145	Contemporary Trade Directory Entries Name: Hgv Sales Solutions Location: 5, Butchers Row, Banbury, Oxfordshire, OX16 5JH Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	779	-	445551 240574
145	Contemporary Trade Directory Entries Name: Xtreme Location: 8, Church Lane, Banbury, Oxfordshire, OX16 5LR Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	783	-	445539 240565
145	Contemporary Trade Directory Entries Name: Reynolds Blinds Location: 9 Butchers Row, Banbury, Oxfordshire, OX16 5JH Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	784	-	445593 240583
145	Contemporary Trade Directory Entries Name: Reynolds Blinds Location: Flat Above, 9, Butchers Row, Banbury, Oxfordshire, OX16 5JH Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	785	-	445592 240582

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145	Contemporary Trade Directory Entries Name: Spot On Design & Print Ltd Location: Offices 1 & 2, Pearl House, Butchers Row, Banbury, Oxfordshire, OX16 5JH Classification: Printers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	794	-	445592 240572
145	Contemporary Trade Directory Entries Name: Klick Location: 73-74, High Street, Banbury, Oxfordshire, OX16 5JG Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	803	-	445589 240561
145	Contemporary Trade Directory Entries Name: Alexander Kennedy & Sons1 Location: 73-74, High Street, Banbury, Oxfordshire, OX16 5JG Classification: Photographic Processors Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	803	-	445589 240561
146	Contemporary Trade Directory Entries Name: Banbury Boat Builders Location: 68, Bath Road, Banbury, Oxfordshire, OX16 0TR Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	784	-	445042 240568
147	Contemporary Trade Directory Entries Name: Chris Davies Location: 40, Fergusson Road, Banbury, Oxfordshire, OX16 3HQ Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	785	-	446127 241266
148	Contemporary Trade Directory Entries Name: Supasnaps Location: 12, Market Place, Banbury, Oxfordshire, OX16 5LG Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	786	-	445651 240607
149	Contemporary Trade Directory Entries Name: Corsair Manufacturing Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1SH Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	794	-	445379 242320
149	Contemporary Trade Directory Entries Name: Hotlock Food Conveyors Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1SH Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	794	-	445379 242320
149	Contemporary Trade Directory Entries Name: Corsair Engineering Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1SH Classification: Catering Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	794	-	445379 242320
150	Contemporary Trade Directory Entries Name: Ats Euromaster Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1SJ Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	-	445299 242357
151	Contemporary Trade Directory Entries Name: Synflex Ltd Location: Unit 1, Banbury Park, Banbury, Oxfordshire, OX16 7TR Classification: Enamelling Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	798	-	445136 240532
152	Contemporary Trade Directory Entries Name: Johnson Dry Cleaners (Uk) Ltd Location: 76, High Street, Banbury, Oxfordshire, OX16 5JG Classification: Dry Cleaners Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	799	-	445601 240570

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153	Contemporary Trade Directory Entries Name: Railtons Sandpiper Footwear Location: Sandpiper House, Beaumont Close, BANBURY, Oxfordshire, OX16 1TG Classification: Footwear Manufacturers & Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	811	-	445354 242352
153	Contemporary Trade Directory Entries Name: Mettex Electrical Ltd Location: Sandpiper House, Beaumont Close, Banbury, Oxfordshire, OX16 1TG Classification: Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18NE (N)	811	-	445354 242352
153	Contemporary Trade Directory Entries Name: J C R Engineering (Banbury) Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1TG Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	840	-	445377 242373
154	Contemporary Trade Directory Entries Name: Barclay Services Location: White Lion Walk, Banbury, Oxfordshire, OX16 5DZ Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SW (S)	815	-	445505 240522
155	Contemporary Trade Directory Entries Name: Total Laundry Care Location: 68, Ferriston, Banbury, Oxfordshire, OX16 1XE Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	822	-	444255 242009
155	Contemporary Trade Directory Entries Name: Total Laundry Care Location: 68, Ferriston, Banbury, Oxfordshire, OX16 1XE Classification: Laundries & Launderettes Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	822	-	444255 242009
156	Contemporary Trade Directory Entries Name: Scientific Detectors Ltd Location: 7, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Scientific Apparatus & Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	830	-	445420 242341
156	Contemporary Trade Directory Entries Name: Advanced Communication Solutions Ltd Location: Unit 22, Beaumont CI, Banbury, Oxfordshire, OX16 1TG Classification: Radio Communication Equipment Status: Active Positional Accuracy: Manually positioned to the address or location	A18NE (N)	830	-	445408 242346
156	Contemporary Trade Directory Entries Name: Bambury Air Conditioning Location: 9, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	835	-	445439 242335
156	Contemporary Trade Directory Entries Name: Encapsulating Services Location: 6, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Print Finishers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	841	-	445421 242352
156	Contemporary Trade Directory Entries Name: A P C Cleaning & Maintenance Services Ltd Location: 4, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	853	-	445425 242364

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156	Contemporary Trade Directory Entries Name: Mit Handling Systems Ltd Location: 2, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Conveyors & Conveyor Belts Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	865	-	445428 242375
156	Contemporary Trade Directory Entries Name: Tailored Blinds Location: 12, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	870	-	445429 242381
156	Contemporary Trade Directory Entries Name: Tailored Blinds Of Banbury Location: 12, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	870	-	445429 242381
156	Contemporary Trade Directory Entries Name: Mouchel Parkman Rail Ltd Location: Unit 15, Beaumont Close, Banbury, Oxfordshire, OX16 1TG Classification: Railways Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	871	-	445464 242362
156	Contemporary Trade Directory Entries Name: Bourton Drain Services Location: 15, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Drain & Sewer Clearance - Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	871	-	445464 242362
156	Contemporary Trade Directory Entries Name: Timesync Controls Ltd Location: 16, Beaumont Business Centre, Beaumont Close, Banbury, Oxfordshire, OX16 1TN Classification: Electronic Equipment - Manufacturers & Assemblers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	876	-	445465 242368
157	Contemporary Trade Directory Entries Name: Envirobridge Ltd Location: 29-30, Horse Fair, Banbury, Oxfordshire, OX16 0AE Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	851	-	445376 240464
157	Contemporary Trade Directory Entries Name: Mabor Ltd Location: 29-30, Horse Fair, Banbury, Oxfordshire, OX16 0AE Classification: Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	851	-	445376 240464
157	Contemporary Trade Directory Entries Name: The Magnesite Syndicate Ltd Location: 29-30, Horse Fair, Banbury, Oxfordshire, OX16 0AE Classification: Mineral Merchants Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	851	-	445376 240464
157	Contemporary Trade Directory Entries Name: Wall To Wall Warmth Location: 29-30, Horse Fair, Banbury, Oxfordshire, OX16 0BW Classification: Electrical Heating Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	851	-	445376 240464
157	Contemporary Trade Directory Entries Name: Ferrostaal Metals Location: 29-30, Horse Fair, Banbury, Oxfordshire, OX16 0AE Classification: Steel Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	851	-	445376 240464

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	Contemporary Trade Directory Entries Name: Mobile Radio Ltd Location: 14-16, Horse Fair, Banbury, Oxfordshire, OX16 0AH Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	852	-	445303 240461
158	Contemporary Trade Directory Entries Name: Kall Kwik Location: 2a, West Bar Street, Banbury, Oxfordshire, OX16 9RR Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A3NE (S)	888	-	445286 240424
159	Contemporary Trade Directory Entries Name: Active Predator Location: 30, Mold Crescent, Banbury, Oxfordshire, OX16 0EZ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	853	-	444407 240778
160	Contemporary Trade Directory Entries Name: John F Horton & Sons Ltd Location: 24, Fergusson Road, Banbury, Oxfordshire, OX16 3HQ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A15SW (E)	857	-	446186 241201
161	Contemporary Trade Directory Entries Name: Slide Solutions Ltd Location: 5, Colville Walk, Banbury, Oxfordshire, OX16 3NF Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	857	-	446102 240997
162	Contemporary Trade Directory Entries Name: F R Services (Uk) Ltd Location: 5, George Street, Banbury, Oxfordshire, OX16 5BH Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	857	-	445575 240499
163	Contemporary Trade Directory Entries Name: Pulse Utilities Location: 40, Red Poll Close, Banbury, Oxfordshire, OX16 1UG Classification: Electricity Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	870	-	444159 241954
164	Contemporary Trade Directory Entries Name: A D I Mechanical Location: The Shades, Banbury, Oxfordshire, OX16 9RS Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	876	-	445181 240445
165	Contemporary Trade Directory Entries Name: Prontaprint Location: 9, Broad Street, Banbury, Oxfordshire, OX16 5BN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	897	-	445725 240520
166	Contemporary Trade Directory Entries Name: Parchment Location: 19, Bridge Street, Banbury, Oxfordshire, OX16 5PN Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	913	-	445848 240579
166	Contemporary Trade Directory Entries Name: Toggs Of Banbury Location: 19, Bridge Street, Banbury, Oxfordshire, OX16 5PN Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	913	-	445848 240579
166	Contemporary Trade Directory Entries Name: Wilkinson Location: Unit 1, 20-23, Bridge Street, Banbury, Oxfordshire, OX16 5PN Classification: Hardware Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	924	-	445832 240554

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	Contemporary Trade Directory Entries Name: Star Location: 14, Bridge Street, Banbury, Oxfordshire, OX16 5PN Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	927	-	445887 240592
167	Contemporary Trade Directory Entries Name: Rentacure Location: High St, Banbury, Oxfordshire, OX16 5ET Classification: Timber Preservation Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A3NE (S)	913	-	445410 240405
168	Contemporary Trade Directory Entries Name: Banbury Print & Design Ltd Location: 57, George Street, Banbury, Oxfordshire, OX16 5BH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	915	-	445659 240469
168	Contemporary Trade Directory Entries Name: Banbury Print & Design Ltd Location: The Print Centre, George Street, Banbury, Oxfordshire, OX16 5BH Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	915	-	445655 240467
169	Contemporary Trade Directory Entries Name: Signet International Ltd Location: Unit 6, The I O Centre, Jugglers Close, Banbury, Oxfordshire, OX16 3TA Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A20SW (E)	922	-	446196 241834
170	Contemporary Trade Directory Entries Name: Cherwell Garden Machinery Ltd Location: 10 Bridge St, Banbury, Oxfordshire, OX16 5PN Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A9SE (SE)	929	-	445904 240602
170	Contemporary Trade Directory Entries Name: Banbury Appliance Centre Location: 12, Bridge Street, Banbury, Oxfordshire, OX16 5PN Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	939	-	445903 240589
171	Contemporary Trade Directory Entries Name: Higham Solid Fuel Location: Calthorpe Manor Gatehouses, Calthorpe St, Banbury, Oxfordshire, OX16 5EX Classification: Fuel Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A3NE (S)	968	-	445440 240354
171	Contemporary Trade Directory Entries Name: Higham Solid Fuels Location: Calthorpe St, Banbury, Oxfordshire, OX16 5EX Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A3NE (S)	981	-	445433 240340
172	Contemporary Trade Directory Entries Name: Leisure Interiors 2000 Ltd Location: 47f, Broad Street, Banbury, Oxfordshire, OX16 5BT Classification: Tent Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A4NW (SE)	969	-	445668 240414
172	Contemporary Trade Directory Entries Name: Banbury Gunsmiths Location: 47b, Broad Street, Banbury, Oxfordshire, OX16 5BT Classification: Gunsmiths Status: Active Positional Accuracy: Automatically positioned to the address	A4NW (SE)	991	-	445661 240388
172	Contemporary Trade Directory Entries Name: Minuteman Press Location: 47a, Broad Street, Banbury, Oxfordshire, OX16 5BT Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A4NW (SE)	997	-	445659 240380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	Contemporary Trade Directory Entries Name: I G A A Ltd Location: Mercia House, 51, South Bar Street, Banbury, Oxfordshire, OX16 9AB Classification: Gate Manufacturers - Automated Status: Active Positional Accuracy: Automatically positioned to the address	A3NE (S)	973	-	445270 240340
173	Contemporary Trade Directory Entries Name: Bowe Ltd Location: 51 The Green South Bar St, Banbury, Oxfordshire, OX16 9AB Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A3NE (S)	974	-	445269 240339
174	Contemporary Trade Directory Entries Name: Benbry Halal Meat Location: 69, Bridge Street, Banbury, Oxfordshire, OX16 5QF Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	979	-	445977 240601
175	Contemporary Trade Directory Entries Name: Paul Clarke Auto Services Location: Cherwell St, Banbury, Oxfordshire, OX16 2BB Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9SE (SE)	979	-	445905 240539
175	Contemporary Trade Directory Entries Name: Paul Clarke Location: Cherwell Street, Banbury, Oxfordshire, OX16 2BB Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	979	-	445905 240539
175	Contemporary Trade Directory Entries Name: Total Location: Cherwell St, Banbury, Oxfordshire, OX16 2BB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SE (SE)	992	-	445903 240521
176	Contemporary Trade Directory Entries Name: Banbury Cross Veterinary Farm Supplies Location: West Bar St, Banbury, Oxfordshire, OX16 9SA Classification: Agricultural Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A3NE (S)	990	-	445156 240334
177	Contemporary Trade Directory Entries Name: Emward Fastenings Ltd Location: Beaumont Close, Banbury, Oxfordshire, OX16 1TG Classification: Hose, Tubing & Fittings Status: Active Positional Accuracy: Automatically positioned to the address	A24SW (N)	992	-	445495 242483
178	Contemporary Trade Directory Entries Name: Oxford Sealants Location: 6, South Bar Street, Banbury, Oxfordshire, OX16 9AA Classification: Adhesives, Glues & Sealants Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	998	-	445352 240315
178	Contemporary Trade Directory Entries Name: P L Clothing Location: 6, South Bar Street, Banbury, Oxfordshire, OX16 9AA Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A3NE (S)	998	-	445352 240315
178	Contemporary Trade Directory Entries Name: Sales Solutions Location: 6, South Bar Street, Banbury, Oxfordshire, OX16 9AA Classification: Painting & Decorating Supplies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A3NE (S)	998	-	445352 240315
178	Contemporary Trade Directory Entries Name: Energy Intelligence Group Location: 6, South Bar Street, Banbury, Oxfordshire, OX16 9AA Classification: Air Conditioning Equipment & Systems Status: Active Positional Accuracy: Automatically positioned to the address	A3NE (S)	998	-	445352 240315

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	Contemporary Trade Directory Entries Name: Time Travel Location: 6 South Bar St, Banbury, Oxfordshire, OX16 9AA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A3NE (S)	999	-	445352 240314
179	Fuel Station Entries Name: Hartwell Ford Banbury Location: Southam Road, Banbury, Oxfordshire, OX16 2AD Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13SE (SE)	73	-	445375 241295
180	Fuel Station Entries Name: Tesco Banbury Extra Location: Lockheed Close, Banbury, Oxfordshire, OX16 1LX Brand: Tesco Extra Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A18SE (NE)	401	-	445328 241892
181	Fuel Station Entries Name: Cockhorse Service Station Location: 98 Warwick Road, Banbury, Oxfordshire, OX16 2AJ Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8NW (S)	535	-	445025 240817
182	Fuel Station Entries Name: Morrisons Banbury Location: Cherwell Street, Banbury, Oxfordshire, OX16 2BB Brand: Morrisons Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	992	-	445903 240521

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	Nitrate Vulnerable Zones Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SE (N)	0	5	445133 241452
184	Sites of Special Scientific Interest Name: Neithrop Fields Cutting Multiple Areas: N Total Area (m2): 12452.31 Source: Natural England Reference: 1002934 Designation Details: Geological Conservation Review Designation Date: 14th March 1986 Date Type: Notified	A16SE (W)	884	4	444078 241824

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Cherwell District Council - Environmental Health Department South Northamptonshire Council - Environment Division Stratford-on-Avon District Council - Environmental Services	February 2011 July 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	October 2011	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	November 2011 November 2011 November 2011	Quarterly Quarterly Quarterly
Integrated Pollution Controls Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	October 2008 October 2008 October 2008	Not Applicable Not Applicable Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	October 2011 October 2011 October 2011	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control South Northamptonshire Council - Environmental Health Department Stratford-on-Avon District Council - Environmental Health Department Cherwell District Council - Environmental Health Department	March 2011 November 2011 September 2010	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls South Northamptonshire Council - Environmental Health Department Stratford-on-Avon District Council - Environmental Health Department Cherwell District Council - Environmental Health Department	March 2011 November 2011 September 2010	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Northamptonshire Council - Environmental Health Department Stratford-on-Avon District Council - Environmental Health Department Cherwell District Council - Environmental Health Department	March 2011 November 2011 September 2010	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	September 2011	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	November 2011 November 2011 November 2011	Monthly Monthly Monthly
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	November 2011 November 2011 November 2011	Monthly Monthly Monthly
Registered Radioactive Substances Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	October 2011 October 2011 October 2011	Quarterly Quarterly Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2011	Annually



Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register		
Environment Agency - Anglian Region - Northern Area	October 2011	Quarterly
Environment Agency - Midlands Region - Central Area	October 2011	Quarterly
Environment Agency - Midlands Region - Lower Severn Area	October 2011	Quarterly
Environment Agency - Thames Region - West Area	October 2011	Quarterly
Water Abstractions		
Environment Agency - Thames Region	October 2011	Quarterly
Water Industry Act Referrals		
Environment Agency - Anglian Region	October 2011	Quarterly
Environment Agency - Midlands Region	October 2011	Quarterly
Environment Agency - Thames Region	October 2011	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones		
Environment Agency - Head Office	July 2011	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	November 2011	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	November 2011	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	November 2011	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	November 2011	Quarterly
Flood Defences		
Environment Agency - Head Office	November 2011	Quarterly

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Central Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Thames Region - West Area	October 2011 October 2011 October 2011 October 2011	Quarterly Quarterly Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region Environment Agency - Midlands Region Environment Agency - Thames Region	October 2008 October 2008 October 2008	Not Applicable Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Central Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Thames Region - West Area	October 2011 October 2011 October 2011 October 2011	Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Central Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Thames Region - West Area	July 2011 July 2011 July 2011 July 2011	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Cherwell District Council - Environmental Health Department Northamptonshire County Council Oxfordshire County Council South Northamptonshire Council - Environmental Health Department Stratford-on-Avon District Council Warwickshire County Council	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cherwell District Council - Environmental Health Department Northamptonshire County Council Oxfordshire County Council South Northamptonshire Council - Environmental Health Department Stratford-on-Avon District Council Warwickshire County Council	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Thames Region - West Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Thames Region - West Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Thames Region - West Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	July 2011	Bi-Annually
Explosive Sites Health and Safety Executive	January 2011	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Stratford-on-Avon District Council Warwickshire County Council Cherwell District Council South Northamptonshire Council Northamptonshire County Council Oxfordshire County Council	February 2011 July 2007 May 2011 May 2011 November 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Stratford-on-Avon District Council Warwickshire County Council Cherwell District Council South Northamptonshire Council Northamptonshire County Council Oxfordshire County Council	February 2011 July 2007 May 2011 May 2011 November 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2011	Bi-Annually
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	August 2011	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2011	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Cherwell District Council Stratford-on-Avon District Council	May 2011 May 2011	As notified As notified
Areas of Unadopted Green Belt Cherwell District Council Stratford-on-Avon District Council	May 2011 May 2011	As notified As notified
Areas of Outstanding Natural Beauty Natural England	September 2011	Bi-Annually
Environmentally Sensitive Areas Natural England	September 2011	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	September 2011	Bi-Annually
Marine Nature Reserves Natural England	September 2011	Bi-Annually
National Nature Reserves Natural England	September 2011	Bi-Annually
National Parks Natural England	September 2011	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	March 2003	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2011	Annually
Ramsar Sites Natural England	September 2011	Bi-Annually
Sites of Special Scientific Interest Natural England	September 2011	Bi-Annually
Special Areas of Conservation Natural England	September 2011	Bi-Annually
Special Protection Areas Natural England	September 2011	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	Cherwell District Council - Environmental Health Department Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 extn 4511 Fax: 01295 270028 Website: www.cherwell-dc.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Natural England Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
5	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
6	Oxfordshire County Council County Hall, New Road, Oxford, Oxfordshire, OX1 1ND	Telephone: 01865 792422 Fax: 01865 810106 Email: environmental.services@oxfordshire.gov.uk Website: www.oxfordshire.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



- General**

Specified Site

Specified Buffer(s)

Severall of Type at Location

Pylon

Bearing Reference Point

Map ID

Overhead Transmission Line
- Agency and Hydrological**

Contaminated Land Register Entry or Notice (Location)

Contaminated Land Register Entry or Notice

Discharge Consent

Enforcement or Prohibition Notice

Integrated Pollution Control

Integrated Pollution Prevention Control

Local Authority Integrated Pollution Prevention and Control

Local Authority Pollution Prevention and Control

Local Authority Pollution Prevention and Control Enforcement

Pollution Incident to Controlled Waters

Prosecution Relating to Authorised Processes

Prosecution Relating to Controlled Waters

Registered Radioactive Substance

River Network or Water Feature

River Quality Sampling Point

Substantiated Pollution Incident Register

Water Abstraction

Water Industry Act Referral
- Geological**

BGS Recorded Mineral Site

Contemporary Trade Directory Entry

Fuel Station Entry
- Industrial Land Use**

Planning Hazardous Substance Consent

Planning Hazardous Substance Enforcement
- Hazardous Substances**

COMAH Site

Explosive Site

NIHS Site
- Waste**

BGS Recorded Landfill Site (Location)

BGS Recorded Landfill Site

EA Historic Landfill (Buffered Point)

EA Historic Landfill (Polygon)

Integrated Pollution Control Registered Waste Site

Licensed Waste Management Facility (Landfill Boundary)

Licensed Waste Management Facility (Location)

Local Authority Recorded Landfill Site (Location)

Local Authority Recorded Landfill Site

Registered Landfill Site (Point Buffered to 100m)

Registered Landfill Site (Point Buffered to 200m)

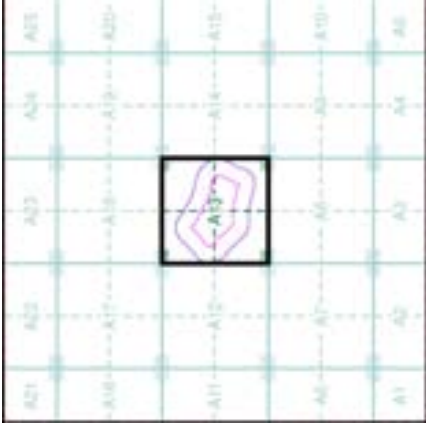
Registered Waste Transfer Site (Location)

Registered Waste Transfer Site

Registered Waste Treatment or Disposal Site (Location)

Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Plot Buffer (m): 100

Site Details

Southam Road Retail, Southam Road, BANBURY, Oxfordshire



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

- General**

 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location

Agency and Hydrological

 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral

Waste

 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 200m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Hazardous Substances

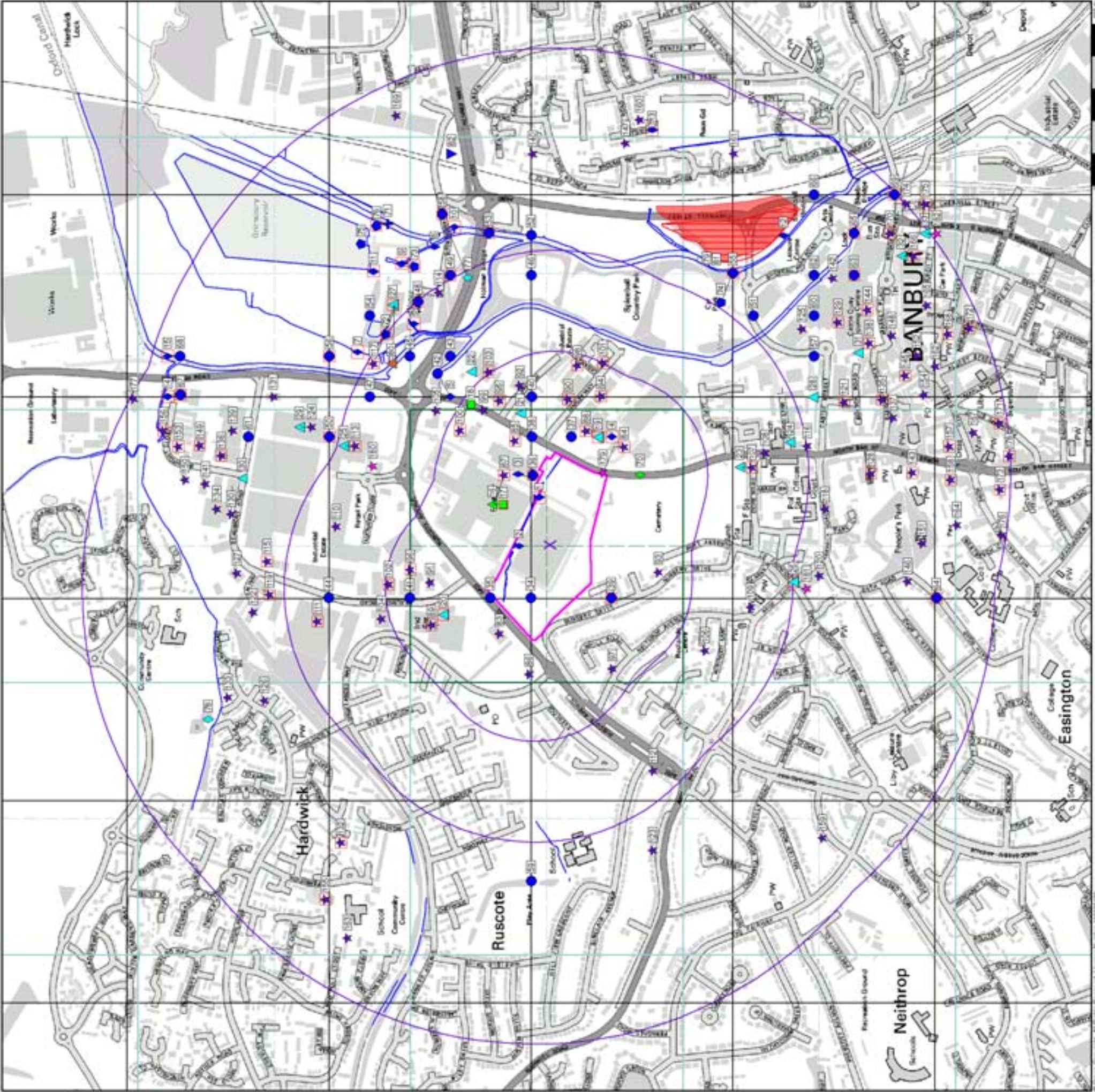
 - COMAH Site
 - Explosive Site
 - NIHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement

Geological

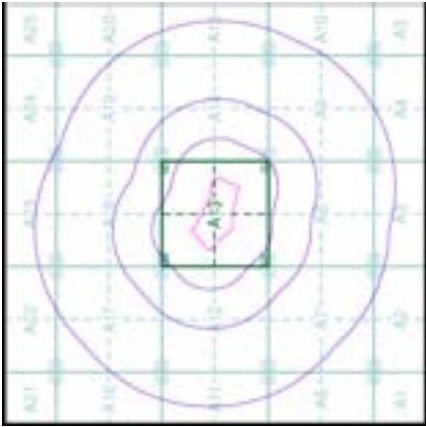
 - BGS Recorded Mineral Site

Industrial Land Use

 - Contemporary Trade Directory Entry
 - Fuel Station Entry



Site Sensitivity Map - Slice A



Order Details

Order Number: 36978294_1_1
 Customer Ref: 26004/006
 National Grid Reference: 445130, 241450
 Slice: A
 Site Area (Ha): 7.32
 Search Buffer (m): 1000

Site Details

Southern Road Retail, Southam Road, BANBURY, Oxfordshire

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

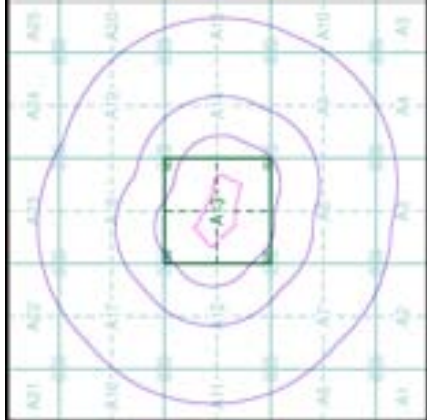
Agency and Hydrological (Boreholes)

- BCS Borehole Depth 0 - 10m
- BCS Borehole Depth 10 - 30m
- BCS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details


Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details









Southern Road Retail, Southam Road, BANBURY, Oxfordshire

Geology 1:10,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CNL	Chipping Norton Limestone Formation	Ooidial Limestone	Bathonian - Bathonian
	HYSa	Horsehay Sand Formation	Sandstone	Bathonian - Bajocian
	NS	Northampton Sand Formation	Sandstone, Limestone and Ironstone	Aalenian - Aalenian
	WHM	Whitby Mudstone Formation	Mudstone	Toarcian - Toarcian
	DYS	Dyrham Formation	Siltstone and Mudstone, Interbedded	Pliensbachian - Pliensbachian
	MRB	Marlstone Rock Formation	Ferruginous Limestone and Ironstone	Toarcian - Pliensbachian
	CHAM	Charmouth Mudstone Formation	Mudstone	Pliensbachian - Sinemurian
	Fault			



Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID:	1	2
Map Name:	SP44SE	SP44SW
Map Date:	1957	1955
Bedrock Geology:	Available	Available
Superficial Geology:	Available	Available
Artificial Geology:	Not Available	Available
Faults:	Available	Available
Landslip:	Not Available	Not Available
Rock Segments:	Not Available	Not Available

Geology 1:10,000 Maps - Slice A



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

Southam Road Retail, Southam Road, BANBURY, Oxfordshire



Artificial Ground and Landslip

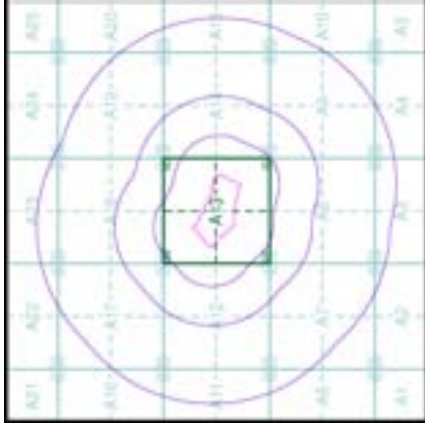
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes founded strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

Southam Road Retail, Southam Road, BANBURY, Oxfordshire



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



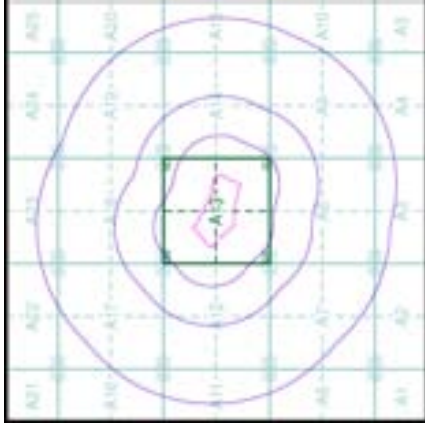
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Bedrock and Faults

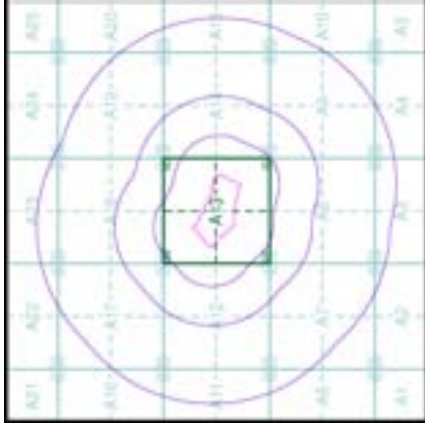
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice A



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire



Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

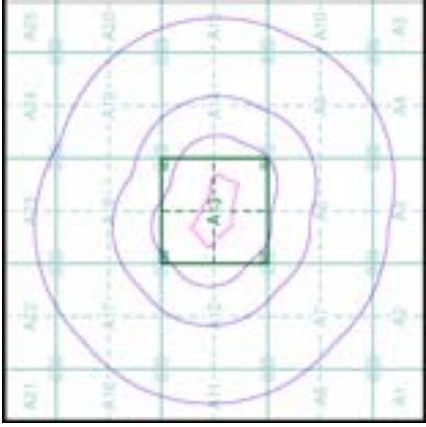
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire

Groundwater Vulnerability

General
Specified Site  Specified Buffer(s)  Bearing Reference Point 
Map ID 

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

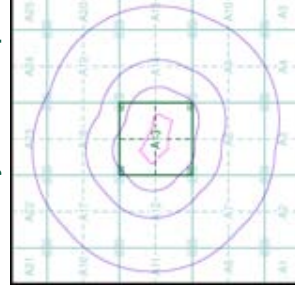
Drift Deposit

Soil Classes

High (H) 1, 2, 3, U
Intermediate (I) 1, 2
Low

High (H) 1, 2, 3, U
Intermediate (I) 1, 2
Low

Site Sensitivity Context Map - Slice A



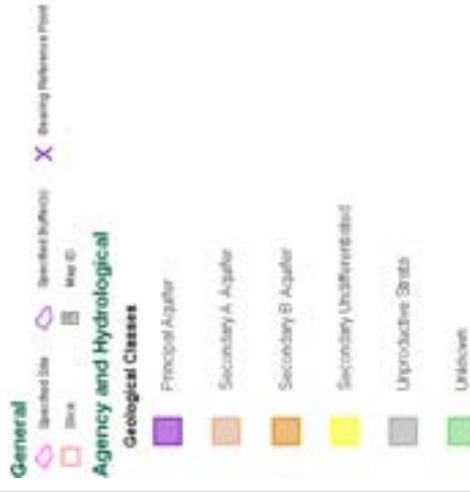
Order Details

Order Number: 36978294.1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

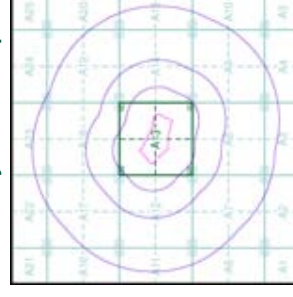
Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire

Bedrock Aquifer Designation



Site Sensitivity Context Map - Slice A



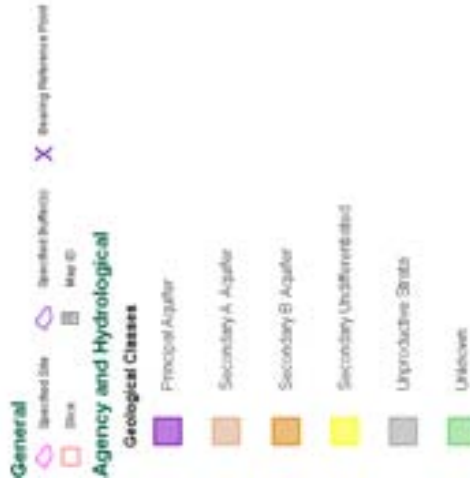
Order Details

Order Number: 36978294.1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

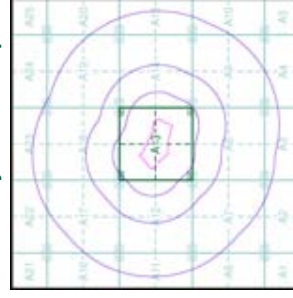
Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire

Superficial Aquifer Designation



Site Sensitivity Context Map - Slice A

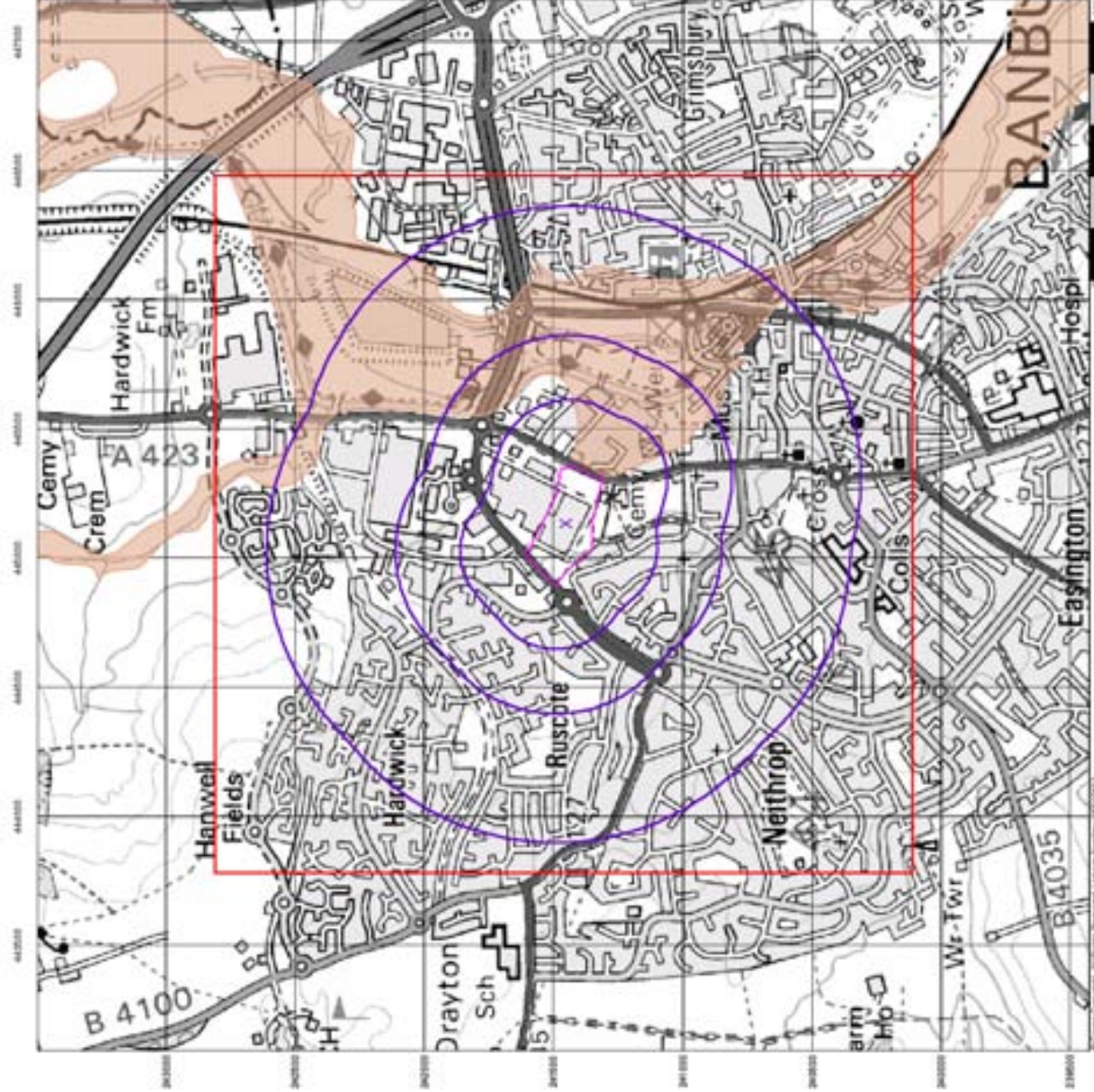


Order Details

Order Number: 36978294.1_1
 Customer Ref: 26004/006
 National Grid Reference: 445130, 241450
 Slice: A
 Site Area (Ha): 7.32
 Search Buffer (m): 1000

Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire








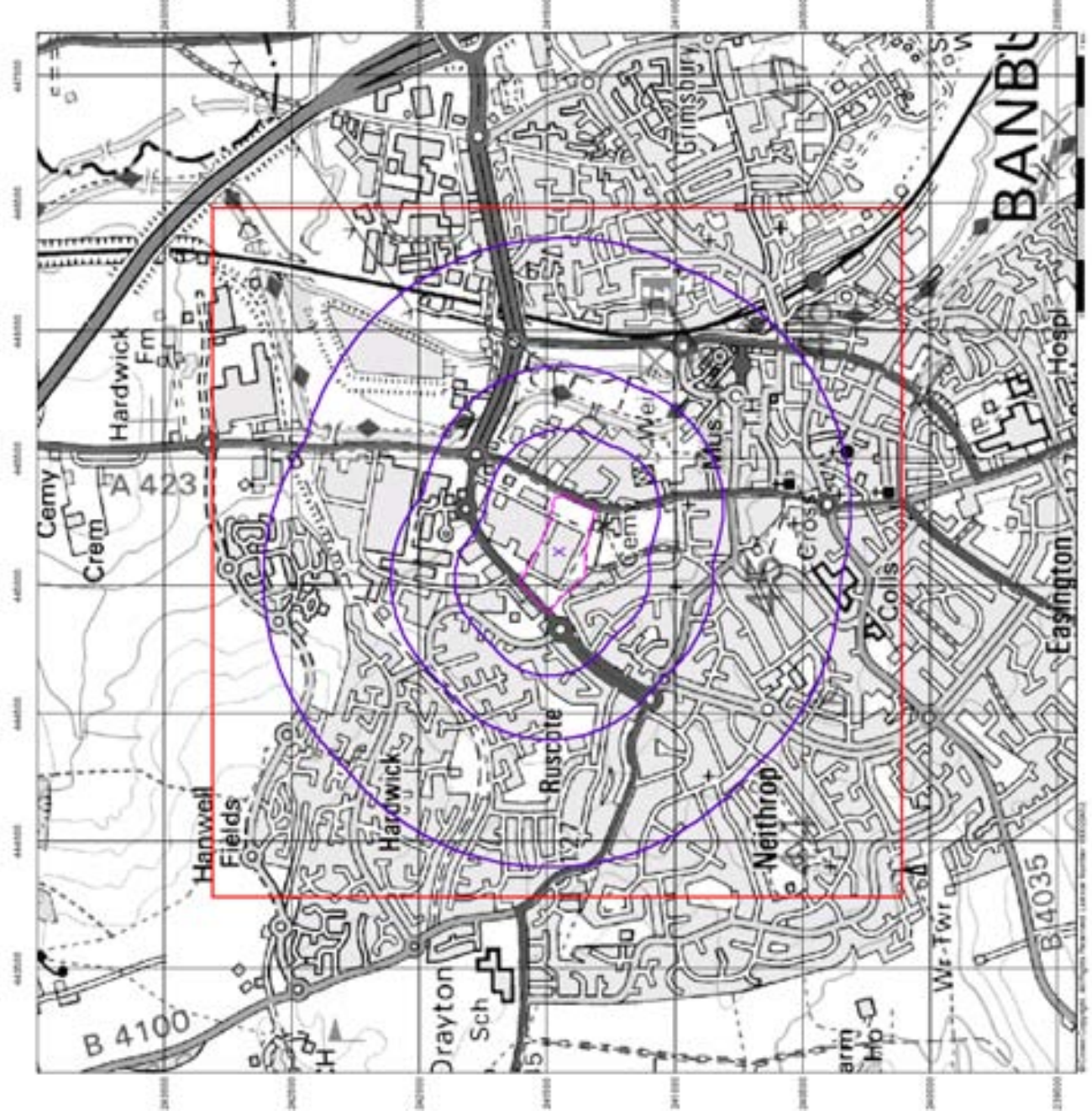
Source Protection Zones

General

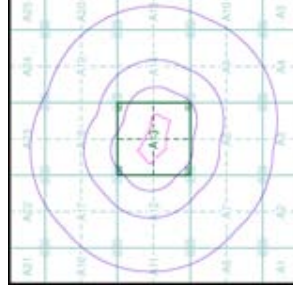
-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

Agency and Hydrological

-  Source Protection Zone I
-  Source Protection Zone II
-  Source Protection Zone III
-  Zone of Special Interest
-  Source Protection Zone Borehole



Site Sensitivity Context Map - Slice A



Order Details

Order Number: 36978294_1_1
 Customer Ref: 26004/006
 National Grid Reference: 445130, 241450
 Slice: A
 Site Area (Ha): 7.32
 Search Buffer (m): 1000

Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire

Sensitive Land Uses

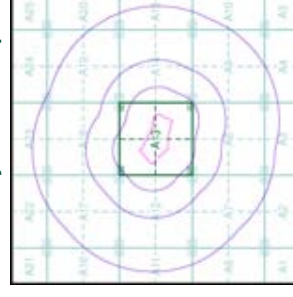
General

- Specified Site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 36978294.1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

Souham Road Retail, Souham Road, BANBURY, Oxfordshire

Envirocheck[®] Report:

Historical Data Report Datasheet

Order Details:

Order Number:

36978294_1_1

Customer Reference:

26004/006

National Grid Reference:

445130, 241450

Slice:

A

Site Area (Ha):

7.32

Search Buffer (m):

1000

Site Details:

Southam Road Retail

Southam Road

BANBURY

Oxfordshire

Client Details:

Ms K Riley

Peter Brett Associates LLP

Caversham Bridge House

Waterman Place

Reading

Berkshire

RG1 8DN

Report Section	Page Number
Summary	-
Historical Building Plans Information	-
Historical Land Use Information	1
Historical Tanks and Energy Facilities	3
Historical Map List	4
Useful Contacts and Further Information	6

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Building Plans Information					
Areas Cleared Due To Enemy Action					
Above Ground Fuel Tanks (100m)				n/a	n/a
Asbestos (100m)				n/a	n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a	n/a
Electricity Generation (100m)				n/a	n/a
Electricity Sub-Station (100m)				n/a	n/a
Gas Industry (100m)				n/a	n/a
Gas Storage (100m)				n/a	n/a
Gas Use (100m)				n/a	n/a
Oil Industry (100m)				n/a	n/a
Oil Storage (100m)				n/a	n/a
Oil Use (100m)				n/a	n/a
Paint based Oils (100m)				n/a	n/a
Paraffin (100m)				n/a	n/a
Petrol and Diesel Industry (100m)				n/a	n/a
Petrol and Diesel Storage (100m)				n/a	n/a
Petrol and Diesel Use (100m)				n/a	n/a
Potential Fuel Gas (100m)				n/a	n/a
Potential Fuel Oil (100m)				n/a	n/a
Potential Fuel Use (100m)				n/a	n/a
Potential Petrol and Diesel (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Potentially Fuel-related Tanks (100m)				n/a	n/a
Underground Fuel Tanks (100m)				n/a	n/a
Historical Land Use Information					
Former Marshes					
Historical Flood Liabilities	pg 1				4
Potentially Contaminative Industrial Uses (Past Land Use)	pg 1	1	4	5	16
Potentially Infilled Land (Non-Water)	pg 2			1	1
Potentially Infilled Land (Water)	pg 2				3

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Tanks and Energy Facilities					
Electrical Sub Station Facilities (100m)				n/a	n/a
Electricity Industry Facilities (100m)	pg 3	1		n/a	n/a
Gas Industry Facilities (100m)				n/a	n/a
Gas Monitoring Facilities (100m)				n/a	n/a
Miscellaneous Power Facilities (100m)				n/a	n/a
Oil Industry Facilities (100m)				n/a	n/a
Petroleum Storage Facilities (100m)				n/a	n/a
Potential Tanks (100m)	pg 3		1	n/a	n/a
Tanks (100m)				n/a	n/a

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Historical Flood Liabilities Use: Area liable to flood Date of Mapping: 1888	A14SE (E)	502	1	445864 241456
2	Historical Flood Liabilities Use: Area liable to flood Date of Mapping: 1900	A9NE (SE)	770	1	446032 241060
3	Historical Flood Liabilities Use: Area liable to flood Date of Mapping: 1886	A14SE (E)	805	1	446131 241201
4	Historical Flood Liabilities Use: Area liable to flood Date of Mapping: 1886	A9NE (SE)	854	1	446044 240885
5	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1994	A13SE (N)	0	1	445133 241452
6	Potentially Contaminative Industrial Uses (Past Land Use) Use: Cemetery or Graveyard Date of Mapping: 1887 - 1994	A13SE (S)	8	1	445142 241344
7	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1994	A13SE (SE)	15	1	445333 241351
8	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1994	A13NW (NW)	26	1	444995 241619
9	Potentially Contaminative Industrial Uses (Past Land Use) Use: Hospitals Date of Mapping: 1900 - 1955	A13SW (SW)	210	1	444798 241298
10	Potentially Contaminative Industrial Uses (Past Land Use) Use: Clay bricks & tiles [manufacture] Date of Mapping: 1887	A8NW (SW)	258	1	444943 241112
11	Potentially Contaminative Industrial Uses (Past Land Use) Use: Hospitals Date of Mapping: 1955	A8NW (SW)	293	1	444855 241123
12	Potentially Contaminative Industrial Uses (Past Land Use) Use: Transport support & cargo handling Date of Mapping: 1888 - 1955	A14NW (NE)	294	1	445497 241717
13	Potentially Contaminative Industrial Uses (Past Land Use) Use: Electricity production & distribution [inc large transformers] Date of Mapping: 1994	A14NW (E)	316	1	445676 241475
14	Potentially Contaminative Industrial Uses (Past Land Use) Use: Metal casting/foundries Date of Mapping: 1887 - 1900	A8NW (S)	430	1	445128 240913
15	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1923 - 1955	A17SE (NW)	510	1	444654 241971
16	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mining & quarrying general Date of Mapping: 1923 - 1955	A18NW (N)	534	1	445005 242157
17	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1923 - 1955	A14SE (E)	621	1	445978 241360
18	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1923 - 1994	A14SE (E)	622	1	445969 241303
19	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1888 - 1994	A14SE (E)	644	1	446002 241361
20	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1888 - 1994	A14SE (E)	646	1	446006 241388
21	Potentially Contaminative Industrial Uses (Past Land Use) Use: Mineral railway Date of Mapping: 1923 - 1955	A12NW (W)	683	1	444270 241763

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Potentially Contaminative Industrial Uses (Past Land Use) Use: Sawmilling, planing & impregnation [i.e. treatment of timber] Date of Mapping: 1923 - 1955	A9NE (SE)	686	1	445809 240847
23	Potentially Contaminative Industrial Uses (Past Land Use) Use: Natural and man-made textile manufacture and products Date of Mapping: 1886 - 1900	A9NE (SE)	688	1	445810 240845
24	Potentially Contaminative Industrial Uses (Past Land Use) Use: Transport support & cargo handling Date of Mapping: 1885	A9SE (SE)	768	1	445812 240736
25	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1938	A17NE (NW)	829	1	444474 242229
26	Potentially Contaminative Industrial Uses (Past Land Use) Use: Road haulage Date of Mapping: 1994	A9SE (SE)	834	1	445838 240671
27	Potentially Contaminative Industrial Uses (Past Land Use) Use: Railways Date of Mapping: 1888 - 1994	A19SE (NE)	885	1	446128 241885
28	Potentially Contaminative Industrial Uses (Past Land Use) Use: Factory or works - use not specified Date of Mapping: 1994	A20SW (E)	966	1	446255 241810
29	Potentially Contaminative Industrial Uses (Past Land Use) Use: Sawmilling, planing & impregnation [i.e. treatment of timber] Date of Mapping: 1886	A9SE (SE)	973	1	446077 240721
30	Potentially Contaminative Industrial Uses (Past Land Use) Use: Technical & environmental testing & analysis Date of Mapping: 1994	A23SE (N)	979	1	445391 242518
31	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A8NW (SW)	258	1	444943 241112
32	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A17NE (NW)	829	1	444474 242229
33	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8SE (S)	629	1	445156 240701
34	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1994	A14SE (E)	648	1	445948 241162
35	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NW (SW)	932	1	444200 240871

Historical Tanks and Energy Facilities

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Electricity Industry Facilities Scale of Mapping: 1:1,250 Date of Mapping: 1970	A13NW (W)	0	1	444910 241489
37	Potential Tanks Scale of Mapping: 1:1,250 Date of Mapping: 1965 - 1970	A13SE (E)	79	1	445412 241363

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

1:10,560	Mapsheet	Published Date
Oxfordshire	006_00	1885
Northamptonshire	058_SW	1886
Oxfordshire	005_00	1887
Northamptonshire	058_NW	1888
Warwickshire	055_NE	1892
Oxfordshire	005_NE	1900
Oxfordshire	005_SE	1900
Oxfordshire	006_NW	1900
Oxfordshire	006_SW	1900
Warwickshire	055_NE	1900
Northamptonshire	058_NW	1900
Northamptonshire	058_SW	1900
Oxfordshire	005_NE	1923
Oxfordshire	005_SE	1923
Oxfordshire	006_00	1923
Northamptonshire	058_NW	1923
Northamptonshire	058_SW	1923
Oxfordshire	005_NE	1938
Oxfordshire	005_SE	1938
Oxfordshire	006_NW	1938
Warwickshire	055_NE	1938
Northamptonshire	058_NW	1938
Northamptonshire	058_SW	1938
Oxfordshire	006_SW	1944
Ordnance Survey Plan	SP44SE	1955
Ordnance Survey Plan	SP44SW	1955
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SP44SE	1994
Ordnance Survey Plan	SP44SW	1995

The following mapping has been analysed for Historical Tanks and Energy Facilities:

1:1,250	Mapsheet	Published Date
Ordnance Survey Plan	SP4541NW	1965
Ordnance Survey Plan	SP4541SW	1965
Ordnance Survey Plan	SP4441SE	1966
Ordnance Survey Plan	SP4441SE	1970
Ordnance Survey Plan	SP4541SW	1970
Ordnance Survey Plan	SP4541NW	1971
Ordnance Survey Plan	SP4441NE	1973
Ordnance Survey Plan	SP4441NE	1979
Ordnance Survey Plan	SP4541NW	1991

Contact	Name and Address	Contact Details
1	Landmark Information Group Limited 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.



General

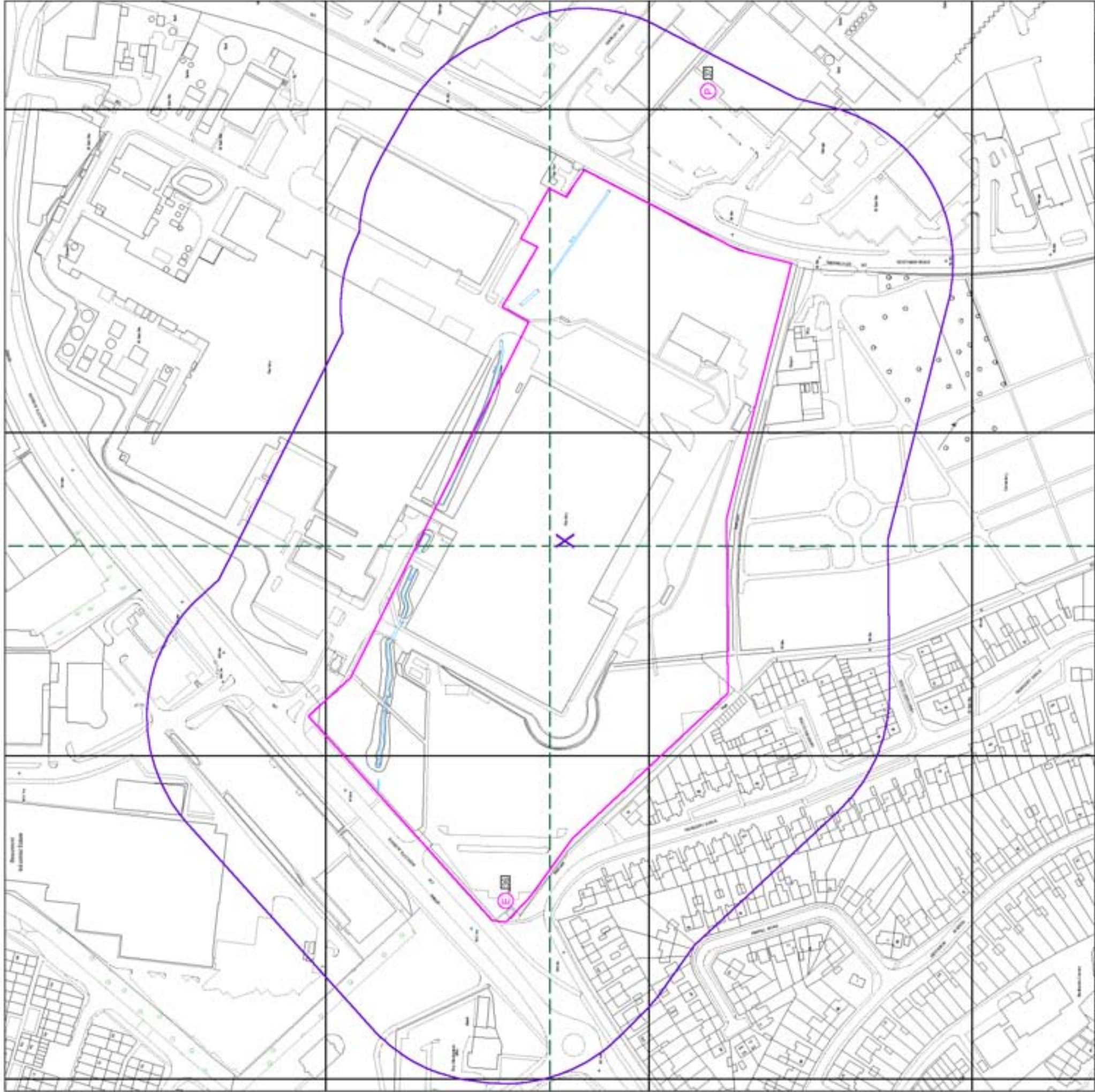
- Specified Site
- Specified Buffer(s)
- Several of Type at Location
- Bearing Reference Point
- Overhead Transmission Line
- Map ID

Historical Building Plans

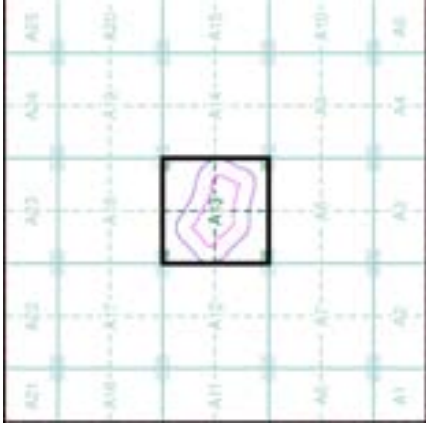
- Area Cleared due to Enemy Action

Historical Tanks and Energy Facilities

- Asbestos
- Above Ground Fuel Tanks
- Benzene/Benzole/Napthalene
- Naphthalene/Kerosene
- Electricity Generation
- Electricity Sub-Stations
- Gas Industry
- Gas Storage
- Gas Use
- Oil Industry
- Oil Storage
- Oil Use
- Paint based Oils
- Paraffin
- Petrol and Diesel Industry
- Petrol and Diesel Storage
- Petrol and Diesel Use
- Potential Fuel Gas
- Potential Fuel Oil
- Potential Fuel Use
- Potential Petrol and Diesel
- Potential Tanks
- Potentially Fuel-related Tanks
- Underground Fuel Tanks
- Electrical Sub Station Facility
- Electricity Industry Facility
- Gas Industry Facility
- Gas Monitoring Facility
- Miscellaneous Power Facility
- Oil Industry Facility
- Petroleum Storage Facility
- Potential Tank
- Tank



Historical Data Report - Segment A13



Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Plot Buffer (m): 100

Site Details

Southam Road Retail, Southam Road, BANBURY, Oxfordshire



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



- General

Specified Site

Several of Type at Location

Bearing Reference Point

Map ID

Historical Building Plans

Area Cleared due to Enemy Action

Historical Land Use

Former Marsh

Historical Flood Liability

Historical Flood Liability (Location)

Potentially Contaminative Industrial Use (Past Land Use)

Potentially Contaminative Industrial Use (Past Land Use) (Linear)

Potentially Contaminative Industrial Use (Past Land Use) (Location)

Potentially Infiltrated Land (Non-Water)

Potentially Infiltrated Land (Non-Water) (Linear)

Potentially Infiltrated Land (Non-Water) (Location)

Potentially Infiltrated Land (Water)

Potentially Infiltrated Land (Water) (Linear)

Potentially Infiltrated Land (Water) (Location)

Historical Building Plans

Area Cleared due to Enemy Action

Historical Land Use

Former Marsh

Historical Flood Liability

Historical Flood Liability (Location)

Potentially Contaminative Industrial Use (Past Land Use)

Potentially Contaminative Industrial Use (Past Land Use) (Linear)

Potentially Contaminative Industrial Use (Past Land Use) (Location)

Potentially Infiltrated Land (Non-Water)

Potentially Infiltrated Land (Non-Water) (Linear)

Potentially Infiltrated Land (Non-Water) (Location)

Potentially Infiltrated Land (Water)

Potentially Infiltrated Land (Water) (Linear)

Potentially Infiltrated Land (Water) (Location)

Historical Data Report - Slice Map A

Order Details

Order Number: 36978294_1_1
Customer Ref: 26004/006
National Grid Reference: 445130, 241450
Slice: A
Site Area (Ha): 7.32
Search Buffer (m): 1000

Site Details

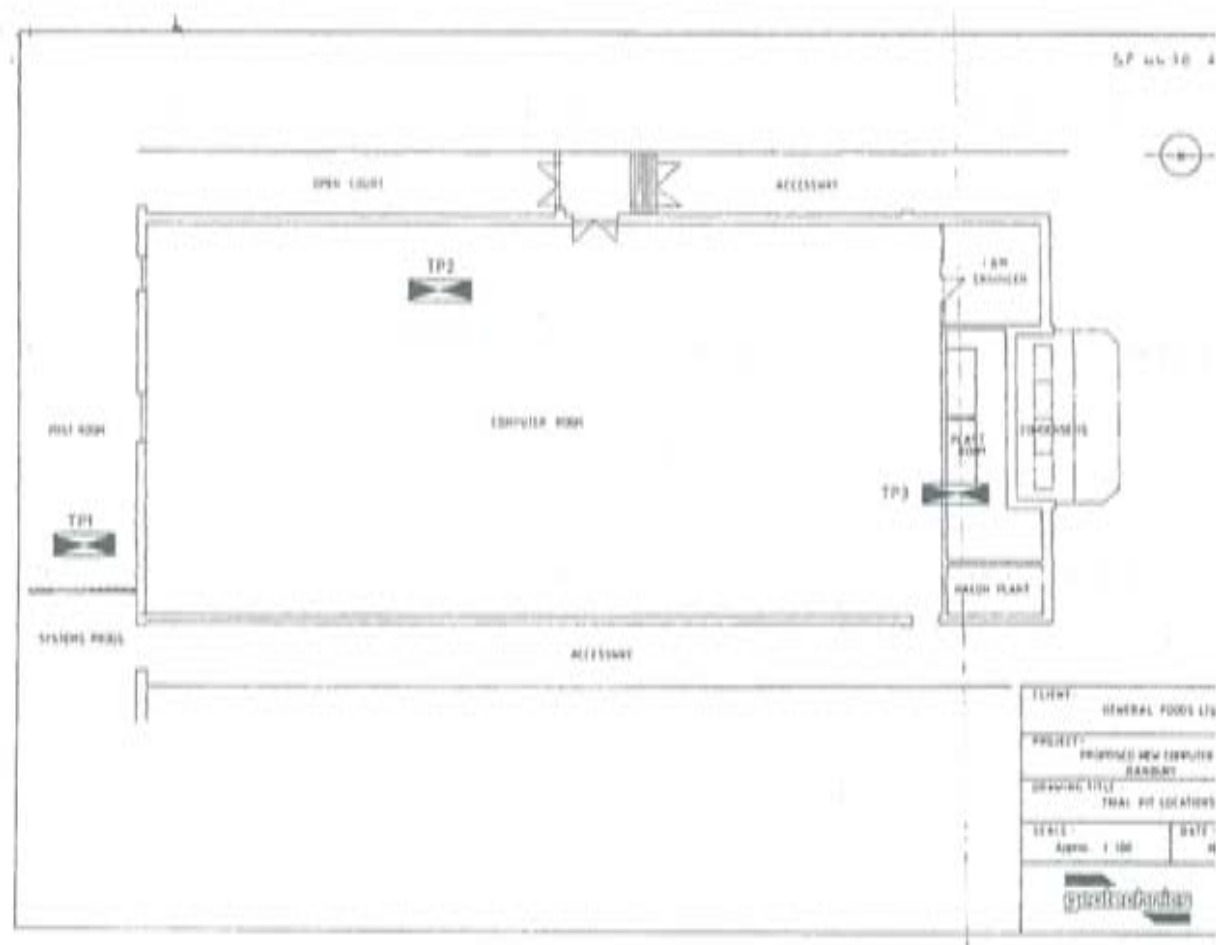
Southern Road Retail, Southam Road, BANBURY, Oxfordshire

Landmark
Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

A Landmark Information Group Service v43.0 09-Dec-2011 Page 1 of 1

Appendix 4 Selected Information from Kraft Foods Ltd

Southam Road Retail Park, Banbury
Ground Stability and Phase 1 Contaminated Land Desk Study



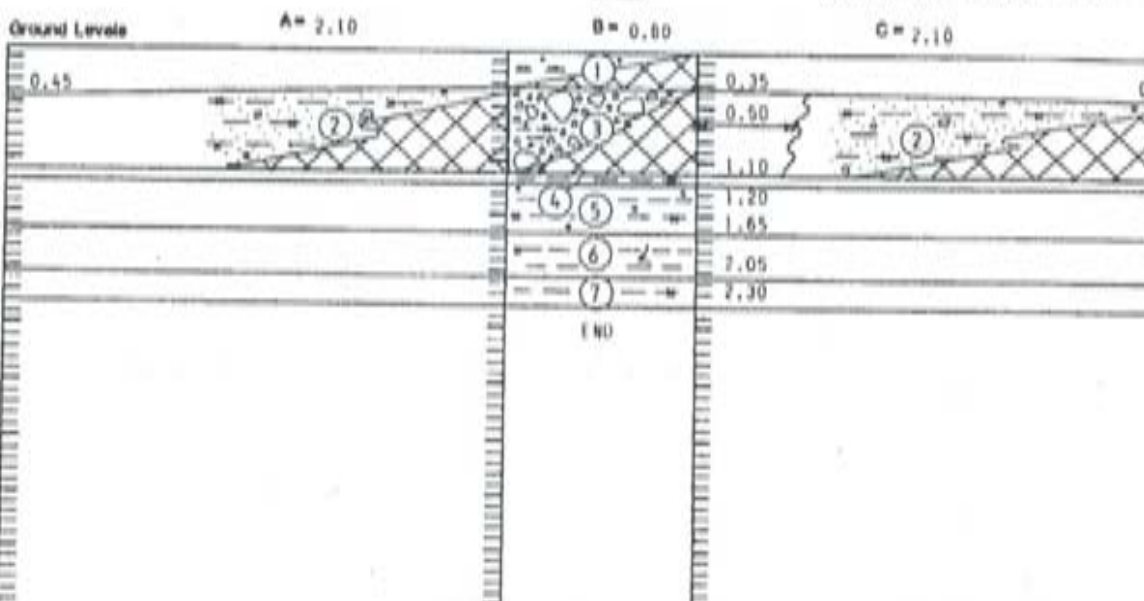
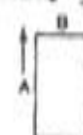
SP 44 SE 23:

L 5 2 4 1 6

TRIAL PIT RECORD

Project PROPOSED NEW COMPUTER ROOM Client GENERAL FOODS Trial Pit 1
 Location RUSCOTE AVENUE, BANBURY Engineer D G I INTERNATIONAL PLC Project No. 87-5535
 Location Plan Trial Pit Plan

Bearing SW Date 20.2.87
 Plant Case
 Shoring None
 Stability Spalling to 1.10m, overbreak 0.1m
 Water No groundwater encountered



Samples and Tests			Strata	
Depth	Type	Strength	Reference	Description
		kN/m ²		
			1	Topsoil, occasional gravel. MADE GROUND.
			2	Soft to firm dark orange brown very sandy very silty clay with much angular sandstone gravel, some brick and concrete fragments upto cobble size. Occasional wire and reinforcement bars. MADE GROUND.
			3	'Loose' angular gravel cobble and boulder sized fragments of brick and concrete, planks of wood, wire plastic etc. with some dark orange brown v sandy very silty clay. Lenses of soft light grey silty clay. MADE GROUND.
1.0	J			
1.20	H/V	130		
1.3	H/V	85		
1.4	H/V/J	85		
1.5	H/V	95		
			4	Firm dark grey green silty CLAY, organic rich, with traces of roots and decaying vegetation.
1.80	J.H.P	100		
1.95	H.P	130		
2.3	J.H/V	80		
		(Disturbed)	5	Firm light grey and orange brown silty CLAY/clayey SILT with some fine to coarse angular rounded gravel. Occasional shell fragments. DISTURBED LIAS CLAY.
			6	Firm to stiff light blue grey and orange brown very closely fissured silty CLAY/clayey SILT. Root traces present. LOWER LIAS CLAY (WEATHERED).
			7	Stiff becoming very stiff light blue grey thickly laminated very closely fissured silty CLAY/clayey SILT. Hard in parts. Discoloured orange brown along fissures. LOWER LIAS CLAY.

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SP 44 SE 23
452 416**TRIAL PIT RECORD**

Project PROPOSED NEW COMPUTER ROOM

Client GENERAL FOODS

Trial Pit 2

Location RUSCOTE AVENUE, DANDURY

Engineer D G I INTERNATIONAL PLC

Project No. 87-5535

Location Plan

Trial Pit Plan

Bearing SW Date 20.2.87
 Plant Case
 Shoring None
 Stability Stable
 Water Very slight seepages along wall below 2.20m

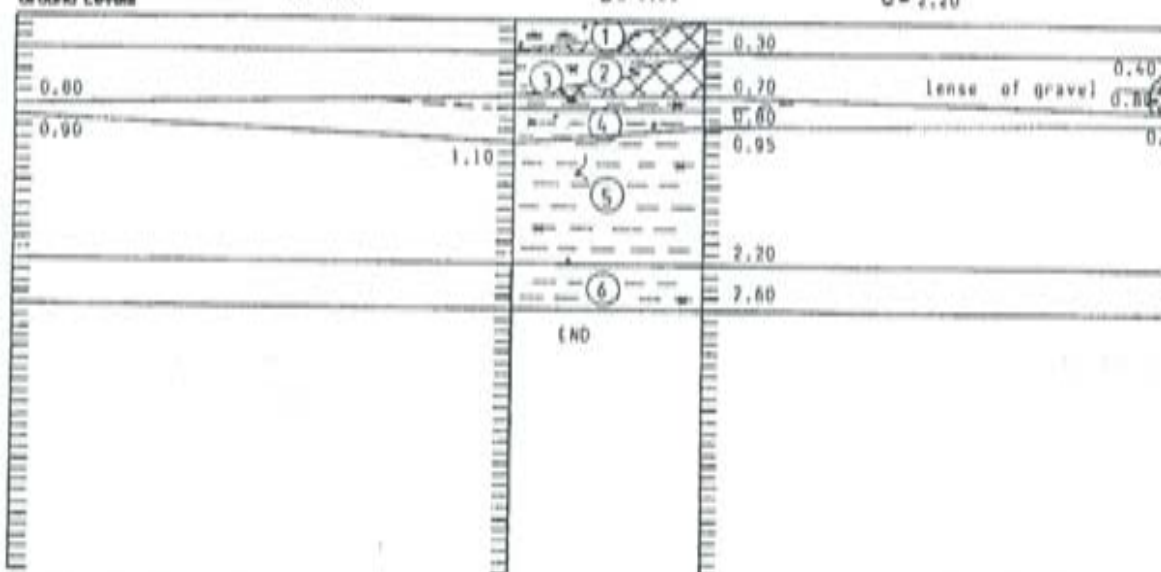


Ground Levels

A = 2.70

B = 0.80

C = 2.20



Sample and Tests			Strata	
Depth	Type	Strength	Reference	Description
		kN/m ²		
0.50	J.H/V	124	1	Topsoil, some rounded gravel. MADE GROUND.
0.70	H/V	94	2	Fine light brown grey and orange brown silty clay, very sandy in parts with occasional small pockets of topsoil and gravel. MADE GROUND.
			3	Fine dark grey green silty CLAY, organic rich with traces of decaying root and vegetation.
0.90	H/V	100	4	Fine to stiff light orange brown, grey and green brown silty CLAY/clayey SILT with some fine to coarse rounded gravel. Occasional sand sized comminuted shell fragments. GLACIALLY DISTURBED LIAS CLAY.
1.0	J.H/V	90		
1.1	H/V	112	5	Fine to stiff and stiff light blue grey discoloured orange brown poorly laminated very closely fissured silty CLAY/clayey SILT. Occasional root traces. WEATHERED LOWER LIAS CLAY.
1.2	H/P	150		
1.3	H/P	190		
1.4	H/P	160		
1.5	H/V	110	6	Stiff to very stiff light blue grey thickly laminated closely to very closely fissured silty CLAY/clayey SILT. Discoloured orange brown along fissures. Becoming hard and very thinly bedded from 2.30m. LOWER LIAS CLAY.
1.6	H.H/V	130		
1.7	H/V	128		
2.25	J			

geotechnic

SP 44 56 23
452 416**TRIAL PIT RECORD**

Project PROPOSED NEW COMPUTER ROOM Client GENERAL FOODS Trial Pit 3
 Location RUSCOTE AVENUE, BANBURY Engineer D G I INTERNATIONAL PLC Project No. 87-5535
 Location Plan

Trial Pit Plan

Bearing NE

Date

20.2.87

Plant

Case

Shoring

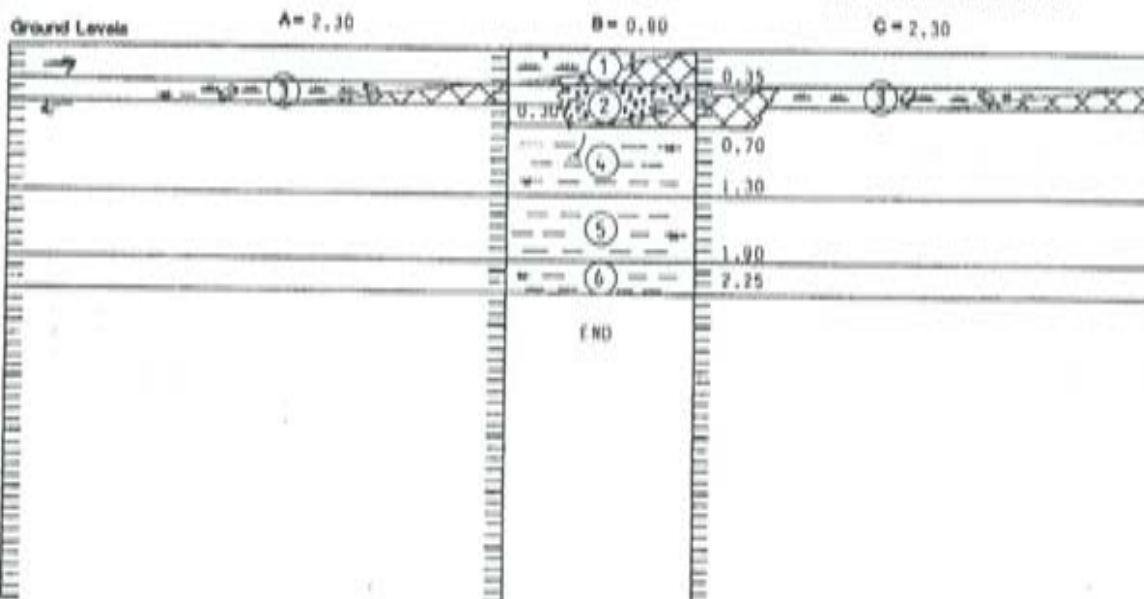
None

Stability

Stable

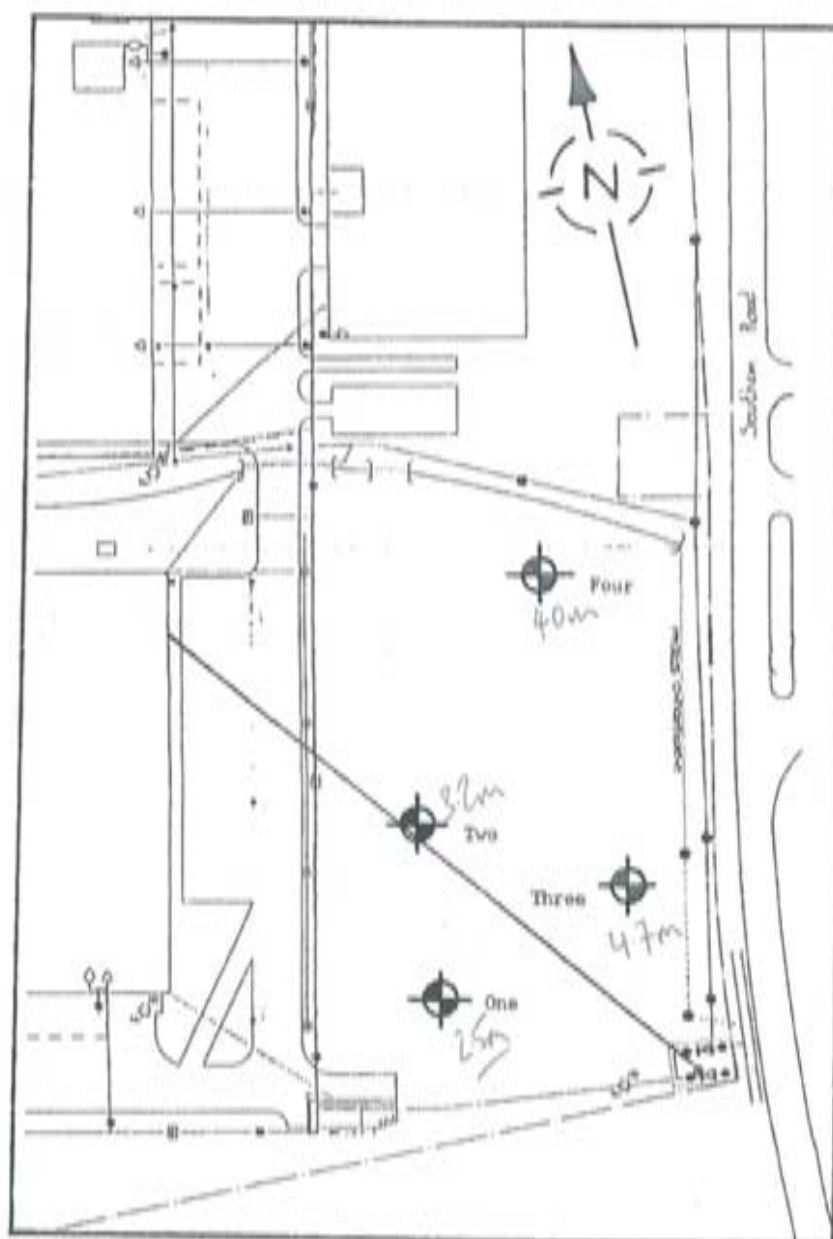
Water

Very slight water seepage along laminations below 1.90m



Samples and Tests			Strata	
Depth	Type	Strength	Reference	Description
		kN/m ²	1	Topsoli, some rounded gravel. MADE GROUND.
			2	Land drain 100mm diameter in gravel surround. Soft light grey clay used backfill. Land drain dry. MADE GROUND.
0.70	H/V	135	3	Topsoli intermixed with bricks with lenses of firm orange brown sandy silty clay and gravel. MADE GROUND.
0.9	H/V	160	4	Firm to stiff and stiff light blue grey, orange brown and grey green poorly laminated, very closely fissured silty CLAY/clayey SILT. Root traces present. WEATHERED LIAS CLAY.
1.0	J,H/P	190		
1.1	H/V	190		
1.2	H/V	130		
1.3	H/V	110		
1.4	H/V	105		
1.5	H/P	175	5	Stiff light blue grey very close to closely fissured thickly laminated silty CLAY/clayey SILT. Discoloured orange brown along fissures. LOWER LIAS CLAY.
1.6	J,H/V	150		
2.25	J		6	Hard light to dark blue grey thickly laminated and closely fissured silty CLAY/clayey SILT. Fissures ironstained, tending to very weak mudstone to base. LOWER LIAS CLAY.

geotechnic



Borehole Location

Scale Unknown

Date
February 1989

BOREHOLE LOCATION PLAN

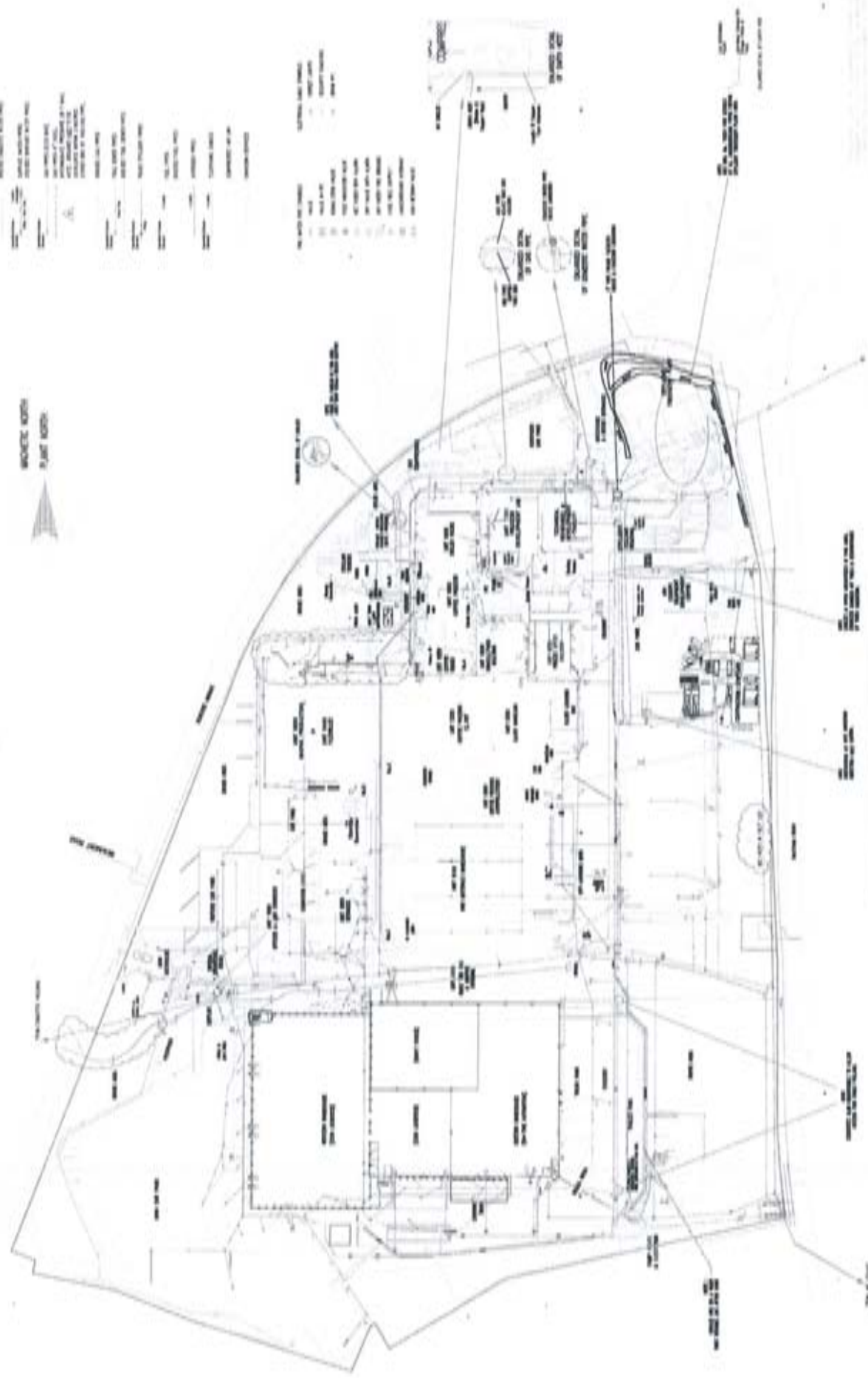
Report
S. 111

LOCATION : Southam Road, Banbury			BOREHOLE No. One			DATE OF BORING: 10.02.1989		
Description of Strata	STRATA CHANGE			SAMPLES		SPT CPT		
	LEGEND	DEPTH M	O.B. LEVEL M	DEPTH M	TYPE	N-VALUE		
SUPERFICIAL DEPOSITS Soft, dark brown silty CLAY with occasional fine rootlets, wood and fine gravel. - occasional orange brown mottling and orange sand pockets		1.00		1.00	J	6		
		2.00		2.00	U100/J	(18)		
		3.00		3.00	J	8		
		4.00		4.00 4.10	J U100	(25)		
LOWER LIAS CLAY Stiff, blue grey silty fissured CLAY with occasional fine rootlets. - very stiff, with occasional mudstone fragments		5.00		5.00	J	19		
		6.00		6.00	J			
		6.50		6.50	U100	(35)		
		7.00						
		8.00						
		9.00						
		10.00						
		BOREHOLE DIAMETER : 150mm						Z = Water strike
		LINING TUBES : 150mm to 3.00m						X = Water (standing level)
		GROUND LEVEL :						W = Water Sample
REMARKS : Borehole drilled from existing ground level						B/J = Bulk/Jar Sample		
						SPT = Standard Penetration Test		
						CPT = Cone Penetration Test		
						(U) = Undisturbed Sample (38mm)		
Date, February 1989	BOREHOLE LOG					Report S.1153		

LOCATION : Southam Road, Banbury			BOREHOLE No. Two			
			DATE OF BORING : 09.02.1985			
Description of Strata	STRATA CHANGE			SAMPLES		S P T C P T
	LEGEND	DEPTH M	O.D. LEVEL M	DEPTH M	TYPE	N-VALUE
SUPERFICIAL DEPOSITS Fine, dark orange brown silty CLAY with rootlets, black organic material and gravel fragments. - occasional grey clay veins - olive dark grey - orange brown		1.00		1.00	J	8
		2.00		2.00	U100/J	(18)
		3.00		3.00	J	11
LOWER LIAS CLAY Very stiff, blue grey fissured silty CLAY with occasional fine gravel. - hard with occasional shell debris and mudstone fragments		4.00		4.00	J	
		4.30		4.30	U100	(30)
		5.00		5.00	J	62
		6.00		6.00	J	
		6.50		6.50	U100	(50)
		7.00				
		8.00				
		9.00				
		10.00				
BOREHOLE DIAMETER : 150mm			X - Water strike			
LINING TUBES : 150mm to 4.50m			W - Water (standing level)			
GROUND LEVEL :			W - Water Sample			
REMARKS : Borehole drilled from existing ground level			S/J - Bulk/Jar Sample			
			S.P.T. - Standard Penetration Test			
			C.P.T. - Cone Penetration Test			
			(U) - Undisturbed Sample 130mm			
Date, February 1989	BOREHOLE LOG					Report S.1153

LOCATION : Southam Road, Banbury				BOREHOLE No. Three		
DATE OF BORING : 13.02.1985						
Description of Strata	STRATA CHANGE			SAMPLES		S P T C P T
	LEGEND	DEPTH M	Q D LEVEL M	DEPTH M	TYPE	H-VALUE
SUPERFICIAL DEPOSITS Firm, light orange brown sandy CLAY with grey silty clay veins.		1.00		1.00	J	(U100 blows)
- dark grey green, with fine gravel		2.00		2.00	U100/J	(18)
- orange brown sandy with fine medium gravel		3.00		3.00	J	12
- with coarse gravel and blue clay veins		4.00		4.00	J	13
LOWER LIAS CLAY Stiff, blue grey, fissured silty CLAY.		5.00		5.00	U100/J	(30)
		6.00		6.00	J	
		6.50		6.50	U100	(30)
		7.00				
		8.00				
		9.00				
		10.00				
BOREHOLE DIAMETER : 150mm				V = Water strike		
LINING TUBES : 150mm				X = Water (standing level)		
GROUND LEVEL :				W = Water Sample		
REMARKS : Borehole drilled from existing ground level				B/J = Bulk/Jar Sample		
				S.P.T. = Standard Penetration Test		
				C.P.T. = Cone Penetration Test		
				(U) = Undisturbed Sample (38mm)		
Date, February 1989	BOREHOLE LOG					Report S.1153

LOCATION : Southam Road, Banbury				BOREHOLE No. Four		
				DATE OF BORING: 14.02.198		
Description of Strata	STRATA CHANGE			SAMPLES		S P T C P T
	LEGEND	DEPTH M	O.D. LEVEL M	DEPTH M	TYPE	N-VALUE
SUPERFICIAL DEPOSITS Firm, green grey brown, mottled orange silty CLAY with rootlets and fine medium gravel. - sandy, with black organic material and coarse gravel - red sandy clay veins - mottled grey with fine medium gravel and fine coarse sand - with fine medium coarse gravel		1.00		1.00	J	15
		2.00		2.00	U100/J	(18)
		3.00		3.00	J	21
		4.00		4.10	J	
LOWER LIAS CLAY Very stiff, blue grey fissured silty CLAY with occasional fine gravel. - with occasional shell debris		4.20		4.20	U100	(30)
		5.00		5.00	J	37
		6.00		6.00	J	
		6.50		6.50	U100	(40)
		7.00				
		8.00				
		9.00				
		10.00				
BOREHOLE DIAMETER : 150mm LINING TUBES : 150mm to 4.00m GROUND LEVEL : REMARKS : Borehole drilled from existing ground level				Z = Water strike W = Water (standing level) W = Water Sample S/J = Bulk/Jar Sample S.P.T. = Standard Penetration Test C.P.T. = Cone Penetration Test (U) = Undisturbed Sample 100mm		
Date, February 1989		BOREHOLE LOG				Report S.1153





**FLOOD RISK ASSESSMENT,
PROPOSED DEVELOPMENT AREA,
BANBURY**

SCALE	CAN	KG0080205A
AS SHOWN	DRAWN	APR
CONTENT	DATE	JAN 2007
CHECKED	POH	

KRAFT Kraft Foods
Banbury

ENVIROS

KEY:

	Proposed development area
	Culverted watercourse
	Open watercourse
	Major piped inflows to Birds Brook

FIGURE 3
PLAN SHOWING COURSE OF
BIRDS BROOK

**INTERPRETATIVE REPORT ON
GROUND INVESTIGATION
FOR NEW EVAPORATORS AT
KRAFT FOODS
RUSCOTE AVENUE
BANBURY**

REPORT REF: 25186/01



Report No: 25186/01
Date: 28th March 2011
Status: Final


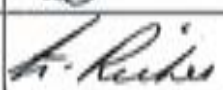
Prepared on behalf of Kraft Foods UK Production Limited

GENERAL NOTES

1. The assessment made in this report is based on the information obtained during this investigation. There may be special conditions appertaining to the site, however, which have not been revealed by the investigation and which, therefore, have not been taken into account in this report
2. It should be appreciated that any desk study information is not necessarily exhaustive and that further information relevant to the proposed site usage may be available.
3. The accuracy of any map extracts cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.
4. Whilst the report may express an opinion on possible configurations of strata between or beyond the exploratory holes or on the possible presence of features based on either visual, verbal or published evidence, this is for guidance only and no liability can be accepted for its accuracy.
5. It should also be noted, that any ground gases and contaminants monitored and analysed for are those most likely to give rise to the principal hazards for the proposed use of the site. However, no liability can be accepted for the presence of contaminants, explosive or toxic gases not analysed for.
6. The comments on ground conditions are based on observations made at the time of the investigation, unless otherwise stated. It should be noted, however, that groundwater levels vary due to seasonal or other effects.
7. Any qualitative risk assessment included in this report considers the significance of any contamination based on generic standards for the stated end use, together with an assessment of the presence of a pollutant linkage between sources, pathways and receptors. A qualitative assessment of low or insignificant risk does not imply that elevated concentrations of various determinands are not present compared to background or 'green field' conditions. A different assessment may apply if a different end use were proposed. It should also be acknowledged that institutional bodies may consider the presence of 'contaminants' in other ways regardless of whether an apparent risk is present based on defined sources, pathways and receptors.

REPORT STATUS SHEET

Client	Kraft Foods UK Production Limited
Report Title	New Evaporators, Kraft Foods, Ruscote Avenue, Banbury
Report Type	Interpretative Geotechnical & Geo-environmental Report
Report Number	25186/01
Report Status	Final
Date:	28 th March 2011

		Date	Signature
Report Author	J Higgins BEng(Hons) CGeol EurGeol FGS Senior Geotechnical Engineer	28/3/11	
Checked	G Riches BSc FGS Senior Geoenvironmental Engineer	28/03/11	

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Olympus Park
Quedgeley
Gloucester GL2 4NF
Telephone : 01452 527743

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A DRAWINGS

Drawing No 25186/01 – TOPOGRAPHIC SURVEY, BURIED SERVICES &
EXPLORATORY HOLE LOCATION PLAN

B EXPLORATORY HOLE LOGS (GEL Pioneer Borehole BH01)

C GROUND GAS & GROUNDWATER MONITORING

D LABORATORY TEST RESULTS

- (i) Engineering Test Results
- (ii) Chemical Test Results

INTERPRETATIVE REPORT ON GROUND INVESTIGATION FOR NEW EVAPORATORS AT KRAFT FOODS, RUSCOTE AVENUE, BANBURY

1.0 INTRODUCTION

- 1.1 It is proposed by the client, Kraft Foods UK Production Limited, to alter an existing large coffee production building within the Ruscote Avenue facility in Banbury, Oxfordshire. An approximately 25m high pair of industrial evaporators are to be built alongside the eastern elevation of the building with a large concrete base to be formed and extend beneath the footprint of the building to house internal equipment associated with the evaporator towers.
- 1.2 Geotechnical Engineering Ltd was instructed directly by the client, Kraft Foods UK Production Limited, to undertake a review of an existing Phase 1 Desk Study and investigation on site by others and conduct a borehole investigation at the location of the new structural alterations. The investigation on site was then to be used to give comments and recommendations on the findings with respect to the new evaporator installation. The scope of works included within this report is in general accordance with our Estimate Ref: T12878.
- 1.3 This report contains a description of the site at the time of the fieldwork, the fieldwork results and laboratory testing undertaken, strata encountered, engineering and contamination laboratory test results and an interpretative assessment of the ground conditions with regards to the proposed development.
- 1.4 This report is confidential and is written solely for the benefit of the Client and the Client's representatives and agents. Any comments given are based on the understanding that the proposed development will be as detailed above. This report has been prepared following an intrusive investigation, which took place on 24th February 2011 and Geotechnical Engineering Ltd warrants this report based on the conditions at the time of the investigation. Additional information, improved practices, new guidance, changes in legislation or provision of detailed layout and design proposals will necessitate this report having to be reviewed in whole or in part after that date.

2.0 THE SITE

2.1 General

- 2.1.1 The site is located within the existing Kraft Foods facility on the southeastern side of Ruscote Avenue, near opposite its junction with Lockheed Close approximately 1km north of Banbury town centre. The National Grid Reference for the centre of the site is approximately SP 453 415.
- 2.1.2 The Kraft Foods site is near oval shaped and the location of the proposed new

evaporators is near central within the facility on an area of land with dimensions of approximately 10m by 10m. The site lies at an elevation of approximately 97m Above Ordnance Datum (AOD) and is situated on the western flank of the Cherwell Valley with land sloping gently down towards the east.

- 2.1.3 The site is accessed via a security gatehouse and access road off the southern side of Ruscote Avenue, close to the junction with Beaumont Road.
- 2.1.4 At the time of the intrusive investigation (24th February 2011) the site of the proposed evaporators was covered by hardstanding and was located against the eastern elevation of an existing coffee production building. The site was split level with an elevated area adjacent to the existing building which was approximately 1.0m higher than the pavement level to the east. The pavement area was concrete surfaced and dropped down to the facilities roadway some 0.1m lower. A set of steps leading to an access door were present on the southern boundary of the proposed evaporator location. Numerous manhole covers were noted in the vicinity of the site, although a buried services search and location exercise conducted on site found the footprint of the proposed evaporators to be generally clear. The site and its immediate surrounds were devoid of any deep rooting vegetation.
- 2.1.5 See Drawing Ref. No 25186/01, Appendix A for an appreciation of the site layout.
- 2.1.6 The main identified land uses in the immediate area surrounding the site of the proposed evaporators are as follows:
- North – Pavement, Roadway and Coffee Production Buildings
 - South – Roadway and Coffee Production Buildings
 - East – Roadway, parking and contractors yard
 - West – Coffee Production Buildings

3.0 **DESK BASED RESEARCH**

3.1 **Ground Sense Limited Report Ref: 1042/D1/1 Overview**

- 3.1.1 A copy of a previous site investigation conducted by Ground Sense Limited was provided by the Client for review and information purposes within this report. Report Ref: 1042/D1/1 was published in March 2006 and includes a desk study and borehole investigation for evaporator installation on site, some 80m west of the subject area for this investigation.
- 3.1.2 In summary the desk study indicated that the location of the new evaporators comprised undeveloped open fields used for agriculture with no features of note within an influencing distance. Several water courses were noted with land to the east noted to be liable to flooding. The 1965 Ordnance Survey map sheet shows the general site to have been developed with the construction of an industrial facility, presumably the existing Kraft Foods plant, with some earthworks indicated to create a level building platform. Subsequent map sheets indicate minor alterations on site but no further change of site usage.

3.2 Published Geology and Previous Findings

- 3.2.1 Reference to the 1:50,000 scale published British Geological Survey (BGS) Map Sheet 201 'Banbury' solid and drift edition indicates the site to be directly underlain by the solid geology of the Jurassic Lower Lias Formation. These strata typically comprise stiff fissured clay with occasional limestone bands. The desk study did not identify any previous uses for the site that would potentially generate significant thicknesses of Made Ground and hence any such material across the site could be expected to be relatively thin. Some ground disturbance could be expected in conjunction with the existing structures on site and services to the current buildings.
- 3.2.2 The previous investigation by Ground Sense Limited some 80m west of the new site consisted of two cable percussive boreholes to approximately 11.0m depth. The ground conditions encountered comprised a thin cover of Made Ground to a maximum depth of 0.60m underlain by the clay of the Lower Lias. The clay was found to be stiff, becoming very stiff and then hard and was proved to between 10.5m and 11.2m depth where a competent limestone layer was encountered. The previous boreholes were terminated within the limestone due to no further penetration after 30 minutes heavy chiselling.
- 3.2.3 It is understood that the existing evaporators, which are of a similar size and design to those proposed, located approximately 80m west of the site were constructed upon a 6.0m thick concrete base cast within the Lower Lias Clay. The large quantity of concrete and the depth of excavation was due to the tall slender structure installed and the need to anchor firmly in the ground.

4.0 FIELDWORK

4.1 General

- 4.1.1 A single exploratory position was included within the intrusive investigation comprising a combined dynamic sampled and rotary cored borehole through a diamond concrete cored hole and hand excavated starter pit taken down to 1.0m bgl. The location of the borehole was within the proposed footprint of the new evaporators in order to obtain the most representative ground profile for the project.
- 4.1.2 Fieldwork was generally carried out in accordance with BS5930 (1999) "Code of Practice for Site Investigations", BS10175 (2001) "Investigation of potentially contaminated sites - Code of practice", the Association of Geo-technical and Geo-environmental Specialist Guidelines for Good Practice in Site Investigations (August 1998), logged in accordance with BS EN ISO 14688-1:2004 and BS EN ISO 14688-2: 2004 and supervised by an experienced Geotechnical Engineer.

4.2 Surveying

- 4.2.1 The position of the borehole was defined by measuring from identifiable features on the site plan and correlation with the topographical survey conducted by Site Vision Surveys Ltd, upon instruction by Geotechnical Engineering Limited. The topographic survey was limited to the extent of the installation area and was

conducted on the 18th February 2011. The topographic information is presented on Drawing No: 25186/01, which is also marked with buried services information as determined on site using traditional methods and Ground Penetrating Radar to enable safe drilling.

4.2.2 Drawing No. 25186/01 is presented in Appendix A.

4.3 GEL Pioneer Borehole

4.3.1 Following the buried service clearance exercise a position for the proposed borehole by GEL Pioneer rig was identified and works commenced on 24th February 2011 within a coned and taped off work area. The drilling rig was moved onto position, a diamond tipped concrete coring barrel attached to the drill rods and the concrete hardstanding of the pavement cored at 225mm diameter.

4.3.2 On completion of coring and prior to drilling, a 1.0m deep service inspection pit was excavated utilising hand tools at the borehole locations to check further for the presence of buried services that may have otherwise been damaged by the investigation. A Cable Avoidance Tool (CAT) was used to check the base of the starter pit for any buried services beneath the base of the hand excavation.

4.3.3 The borehole was formed utilising a GEL Pioneer rig and was advanced using dynamic sampling equipment to a depth of 5.60m at initially 143mm diameter, reducing to 113mm diameter with depth. At 5.60m depth the dynamic sampling head was replaced with rotary equipment and the borehole continued at 116mm diameter using a water flush rotary core to 9.00m depth working within 140mm diameter steel casing installed to 3.90m depth.

4.3.4 Samples of the deposits encountered were recovered in 1.0m and 1.5m long clear plastic liners, which were sealed and transported back to GEL premises for subsequent logging and sub-sampling. Disturbed plastic pot, glass amber jar and 60ml glass vial samples were recovered from the various strata for chemical and engineering laboratory testing.

4.3.5 In situ Standard Penetration Tests, Split Spoon (SPT) were undertaken in the borehole at regular intervals to provide a measure of the relative in-situ strength of the cohesive deposits. The results are presented on the borehole record as SPT 'N' values and are an indicator of relative in-situ density of granular soils and shear strength in cohesive soils. These in-situ tests were alternated with 100mm diameter undisturbed (U100) samples taken using a sliding hammer with jarring link.

4.3.6 On completion of drilling, the borehole was backfilled with bentonite pellets to 8.0m bgl and then a 50mm standpipe was installed in the borehole and comprised UPVC casing from ground level to 1.0m bgl and slotted screen from 1.0m bgl to the base of the standpipe at 8.0m. An inert quartzitic gravel or recycled glass filter pack was placed around the slotted screen and a bentonite seal was placed above the filter pack. A push in rubber bung with gas valve was installed at the top of the standpipe with a flush stop-cock cover cemented at ground level such that no trip hazard exists within the concrete surfaced pavement.

- 4.3.7 Descriptions and depths of the various strata recovered are presented on the borehole records, reproduced in Appendix B, together with sample depths, comments on groundwater inflows and any other pertinent information.

4.4 Field Monitoring

- 4.4.1 Ground gas/groundwater level monitoring was carried out on three separate occasions commencing approximately one week after installation and with one week intervals between visits. The dates of the return visits were the 4th, 11th and 18th March 2011 from the standpipe installed within borehole BH01. The standpipe was monitored for methane, carbon dioxide, carbon monoxide, hydrogen sulphide, oxygen and atmospheric pressure using a Geotechnical Instruments Infra Red Gas Analyser 2000 and a GF60 flow meter.
- 4.4.2 Following measurement of soil gas concentrations and gas flow readings, the valve head assembly was removed to allow measurement of groundwater levels using a traditional dip meter.
- 4.4.3 The results of the gas concentration measurements, gas flow readings and groundwater level data obtained are reproduced in Appendix C.

5.0 LABORATORY TESTING

5.1 Engineering Laboratory Testing

- 5.1.1 Engineering laboratory testing was carried out in general accordance with BS1377 (1990) "Method of Test for Soils for Civil Engineering Purposes" at the UKAS accredited Geotechnical Engineering laboratory. The following tests were scheduled by Geotechnical Engineering Ltd:

- Natural Moisture Content
- Atterberg Limits – Liquid/Plastic Limits and Plasticity Index
- Water soluble sulphate content
- Acid soluble sulphate content
- Total sulphur
- pH value
- Quick undrained triaxial compression test (single stage)
- Consolidation test by Oedometer

- 5.1.2 The engineering laboratory test results are produced in Appendix D(i).

5.2 Chemical Contamination Testing

- 5.2.1 Laboratory testing of the shallow sub-soils was undertaken by a UKAS accredited laboratory, in accordance with MCERTS accreditation standards. No particular targets or 'hotspots' were identified during the desk study or on site during the visual assessment prior to the intrusive works being undertaken. The samples were analysed for some or all of the following determinands:-

- Arsenic, beryllium, boron, cadmium, chromium (total, trivalent, hexavalent), copper, cyanide, lead, mercury, nickel, selenium, vanadium and zinc
- pH
- USEPA 16 - Speciated Polycyclic Aromatic Hydrocarbons (PAHs)
- Phenols

5.2.2 The results are reproduced in Appendix D(ii) along with Table C1, which summarises the results and compares against current UK guidelines.

6.0 **GROUND CONDITIONS**

6.1 **General**

6.1.1 Based on former and current site use, published geological information and former intrusive investigations undertaken on site it was anticipated that the ground conditions across the site would comprise a variable thickness and composition of Made Ground overlying the solid geology of the Lower Lias at relatively shallow depth.

6.1.2 The above investigation agreed with the anticipated and published geological information.

6.2 **Made Ground**

6.2.1 The exploratory position on the Kraft Foods site in Banbury was covered by concrete and hence encountered 0.28m of concrete, which was noticed to be reinforced with steel. The concrete was cast upon a reddish brown slightly clayey, sandy granite gravel, which was found to extend down to 0.60m bgl and laid upon a geotextile membrane. Between 0.60m and 0.90m, the base of the fill material, the boreholes passed through a firm brown, grey and orange mottled slightly sandy, slightly gravelly clay, the gravel of which was sub-angular fine mudstone.

6.3 **Superficial – Head Deposit**

6.3.1 A superficial Head Deposit was met beneath the Made Ground within the borehole at a depth of 0.90m and was found to extend down to 1.90m bgl. This deposit generally consisted of a firm becoming stiff, friable, dark grey locally orange and brown slightly gravelly clay with occasional orange brown silt and fine sand lenses towards the base. The gravel fraction comprised sub-angular, fine and medium mudstone.

6.3.2 An SPT value for the Head Deposit of N=10 was obtained at a depth of 1.0m and is indicative of firm cohesive soils.

6.3.3 A plasticity index for the cohesive Head Deposit was recorded at 31% with 98% of the material tested passing the 425µm sieve. These results when modified in accordance with National House Building Council (NHBC) Standards Chapter 4.2 would indicate actual plasticity index for this stratum of 30%. Based on the NHBC document these deposits would be classed as having a medium volume change

potential. This stratum was determined as having a high plasticity and had results that plotted above the A-line hence representing cohesive soils.

6.4 Solid Geology – Lower Lias

6.4.1 The solid geology underlying the near surface soils and superficial deposits across the site comprises the Lower Lias Clay. This stratum, where weathered at near surface across the site, consisted of a generally stiff, friable, dark grey and brown mottled locally silty clay with rare selenite crystals, fossil shell and crinoids fragments. Occasional light brown lenses of fine sand were noted within the weathered zone between 3.50m and 3.90m depth. The less weathered Lower Lias Clay found below around 3.90m depth consisted of a stiff becoming very stiff, fissured, friable, dark grey silty clay with rare fossil shell and crinoids fragments, which were noted to be more prevalent at varying depths.

6.4.2 A medium strong, dark grey, argillaceous limestone was encountered within the borehole at a depth of 8.35m and was proved to at least 9.00m bgl, the completion depth of BH01. The limestone is thought to represent one of the competent limestone bands known to be present within the Lower Lias strata.

6.4.3 SPT values for the Lower Lias Clay ranging from N=23 to 48 were obtained at depths of 3.6m to 7.1m and were noted to increase with depth. These values are indicative of stiff becoming very stiff cohesive soils.

6.5 Groundwater

6.5.1 The borehole remained dry during and on completion of excavation of the starter pit and drilling of the borehole. However a slight seepage within the sub-base to the concrete and within the Lower Lias below 5.60m depth may have been masked by the water flush used during the coring process.

6.5.2 Three return visits were made to site on the 4th, 11th and 18th March 2011 in order to monitor the gas and groundwater levels within the standpipe installed within BH01. During the monitoring period allowed the standpipe within BH01 was found to have standing water levels ranging from 1.03m to 1.38m below ground level and were noted to be falling over the three week monitoring period.

6.6 Visual/Olfactory Evidence of Contamination

6.6.1 No obvious visual or olfactory evidence of TPH or solid phase contamination of the soils present on site was noted during the ground investigation.

6.7 Live Roots

6.7.1 No live or fibrous roots were noted within the soils revealed by BH01.

7.0 **ENGINEERING CONSIDERATIONS**

7.1 **Introduction**

7.1.1 It is understood that it is proposed to construct a new evaporator at the existing Kraft Foods site in Banbury with associated plant. The evaporators are approximately 25m tall and will be anchored in the ground by a considerable quantity of concrete, which is to be linked to the plant located internally within the existing coffee production building. Previous evaporators of a similar design on site were constructed upon a concrete base which was installed to a depth of 6.0m within the Lower Lias Clay. The Phase 1 desk study conducted by Ground Sense Limited for the Banbury site as a whole has not highlighted any significant potential for thickened deposits of worked or Made Ground and the intrusive investigation did not encounter any significant ground disturbance or cover of Made Ground other than that associated with the current occupation and ground levelling works.

7.1.2 A structural engineering specialist with experience in deep excavations and large mass concrete foundations should be appointed for all design and specification purposes.

7.2 **Material Properties**

7.2.1 The Made Ground found on site within BH01 to a depth of 0.90m below current site level at the location of the concrete pavement would not be suitable for use as a founding stratum due to its unknown history and compaction/strength characteristics and the potential for excessive total and differential settlements. Similarly the thin layer of superficial Head Deposits would not be considered suitable for use as a bearing stratum due to their locally potentially variable nature. The underlying Lower Lias Clay was noted to be stiff becoming very stiff with depth and the anticipated depth of excavation for the anchoring concrete would result in the very stiff clay being used as a founding stratum.

7.2.2 A single Atterberg Limit and Moisture Content test was undertaken on a sample of cohesive Head Deposit at a depth of 1.1m bgl. The results indicate a Moisture Content of 25%. The modified results indicate clays of a medium volume change potential and a high plasticity, the Head Deposit is derived from the underlying Lower Lias Clay and would possess similar volume change potential characteristics.

7.2.3 Geotechnical laboratory testing of the undisturbed 100mm diameter samples of Lower Lias Clay within the undrained triaxial compression apparatus determined estimates for shear strength ranging from 72kPa to 238kPa. These results are indicative of stiff and very fissured stiff clays, locally fissured to firm, and the results were noted to reduce with depth due to the increased fissuring of this stratum and the failure mode being fissure controlled.

7.2.4 The consolidation test within oedometer apparatus has indicated a low compressibility for the relatively less weathered Lower Lias Clay below 5.8m depth with a Coefficient of Compressibility (m_v) of 0.10m²/MN.

7.3 Foundation Assessment

- 7.3.1 The Made Ground and Head Deposits found across the site within BH01 up to 1.9m deep are not considered to be suitable founding strata due to their bearing properties, thickness and variability in composition and therefore unacceptable total and differential settlements are likely under loaded conditions. However the anticipated depth of excavation required for the evaporators would rule these strata out as a founding medium in any case. The underlying Lower Lias Clay is considered suitable as a founding stratum for the proposed structures on site given the anticipated loads to be imposed and excavations required. Deepened traditional mass concrete or piled foundations could be considered for use on site both installed within the Lias Clay.
- 7.3.2 No live roots were noted within the starter pit to the borehole or the samples recovered and the site plus its surrounds was devoid of deep rooting vegetation that may have an impact on the proposed structures design and construction. However the superficial deposits and solid geology strata beneath the site would be classed as having a medium volume change potential and this characteristic should be taken into account should any planting be planned within proximity to the new structure, although this is highly unlikely given the setting.
- 7.3.3 All existing/former foundations to buildings and the on site retaining wall within the footprint of the new evaporator base should be grubbed out and removed from site and careful consideration taken with respect to interaction between the new concrete base and the existing building on site.
- 7.3.4 The proposed evaporators are of a similar design to those installed previously on site and it is known that previously the concrete base was cast at 6.0m depth within the Lower Lias Clay. Therefore it can be assumed that a similar build will be required for the new evaporators on site in order for sufficient concrete to be placed in the ground to anchor the structures soundly. The Lower Lias Clay within BH01 was found to be less weathered below 3.9m and become very stiff below 5.8m bgl. Therefore it is recommended that the new concrete base be cast at a formation level of 6.0m bgl within the very stiff Lower Lias Clay. Such a depth would be well below the deepest thickness of made ground, disturbed ground associated with the existing structure removal and superficial deposits and the potential zone of seasonal influence based on a medium volume change potential clay. Also this depth would provide a minimum 200mm to 300mm embedment for foundations within the founding stratum.
- 7.3.5 Foundations formed at 6.0m depth within the Lower Lias Clay would possess an allowable bearing pressure of 400kN/m² for total settlements not exceeding 25mm and minimal differential settlement. The above stated allowable bearing pressure is considered adequate for the proposed structures on site for tolerable immediate and long term consolidation settlement. However should higher bearing pressures be required to support the new evaporators or total settlement to be kept to a minimum, then foundations could be extended down to a greater depth via piles, installed within the limestone of the Lower Lias, although this is considered unlikely. Further advice should be sought if piled foundations are to be considered. The Lower Lias

Clay has a bulk density of approximately 2.20Mg/m^3 and the removal of 6.0m of overburden from the excavation should be considered in design in conjunction with typical bulk density for structural concrete in the order of 2.40Mg/m^3 .

- 7.3.6 The plant associated with the evaporators that are to be located inside the existing coffee production building should be placed upon their own foundation, which is connected to the large external concrete base in order to reduce the potential for differential settlement. The two separate concrete bases should be provided with appropriately designed and installed steel reinforcement to further minimise potential differential settlement. The foundation for the internal plant should be taken through the existing floor and cast within the solid geology of the Lower Lias Clay at a minimum depth of 2.1m to provide a key into the founding strata. Such a concrete pad foundation would possess an allowable bearing pressure of 300kN/m^2 for total settlements not exceeding 25mm and minimal differential settlement.
- 7.3.7 For the allowable bearing pressures given above a Factor of Safety of 3.0 has been plied against shear failure.
- 7.3.8 Where foundation excavations are to be left open for any sustained period of time it is recommended that a blinding layer of concrete is placed within the base in order to prevent a deterioration in the founding strata and a reduction of the favourable bearing properties provided by the Lower Lias Clay.
- 7.3.9 The concrete base formation layer should be closely inspected for suitability and proof rolled with any 'soft spots' excavated and replaced with a suitable, compacted coarse granular material. Similarly any large limestone inclusions or lenses, which have not been considered in design, should be grubbed out and replaced as above, in order to remove any 'hard spots' from beneath the base area.

7.4 General Construction Advice

Exploratory Hole Positions

- 7.4.1 This borehole together with those from any previous investigations may represent soft spots and conduits/sumps for groundwater or surface water to migrate downwards or artesian water upwards. In excavations, such materials may also be loose and unstable. Unless specifically stated exploratory hole locations should be regarded as approximate. Consideration should be given to accurate location of such features where it is considered they may impact on the proposed development, although the GEL Pioneer borehole is of a minimal diameter and the Lower Lias Clay will prevent downward and lateral movement of waters beneath the site. However the limestone found beneath 8.30m depth within BH01 may introduce artesian water to the excavation. It is possible that the groundwater encountered within the standpipe installed in BH01 is derived from the limestone and that the bentonite seal placed at the base of the boreholes was not sufficient to contain the water pressure.

Excavation Plant

- 7.4.2 Conventional mechanical excavators should prove suitable for excavation through

the Made Ground and natural strata encountered at the site, although the access and size of the excavation may restrict the choice of such excavators for the ground works. A hydraulic breaker attachment will be required to break up the existing concrete and wall foundations on site prior to being grubbed out and removed from site.

Excavation Stability/Hazardous Gases

- 7.4.3 The borehole conducted during the site investigation was noted to remain stable during and on completion of its excavation and drilling, however it is likely that there will be some shallow spalling and partial collapse within excavations where the Made Ground is at a greater thickness, especially in the presence of perched water. The approximately 300mm thick layer of granite gravel hardcore beneath the concrete on site is likely to be unstable and prone to collapse once excavations commence on site. Beneath the Made Ground, foundation excavations are likely to stand well in the short term unsupported, however temporary support should be considered for all excavations where man entry is necessary, in compliance with statutory requirements to ensure safe working conditions. Some overbreak of pits and trenches is likely to occur in conjunction with existing foundations and within the Made Ground where larger fragments of concrete and other materials are encountered. The deep concrete base excavation for the evaporators will possibly require support during construction prior to the emplacement of the concrete due to the envisaged 6.0m depth.
- 7.4.4 It is unlikely that significant concentrations of landfill type gases such as carbon dioxide and methane are present on site at concentrations considered to be hazardous to human health. The gas monitoring exercise undertaken after the completion of the intrusive investigation identified slightly elevated levels of carbon dioxide, which is typical of inert Made Ground in the UK. Care should be taken when personnel enter excavations (or confined spaces), to ensure full ventilation is available and appropriate safety precautions taken, where necessary.

Dewatering/Soakaways

- 7.4.5 Significant groundwater issues are unlikely to occur within the proposed excavations on site based on the observations during the borehole exercise. However perched groundwater is likely to enter excavations during construction from within the Made Ground and sand/silt layers of the Head Deposits and Lower Lias Clay as was encountered during the standpipe monitoring visits. However as mentioned earlier, the water in the standpipe could be artesian water from within the limestone layer found below 8.3m depth, which has 'blown' through the bentonite seal at the base of the borehole. Slow groundwater ingresses from perched sources would be best dealt with by sump type pumping. It would be prudent to monitor standing water levels within the standpipe installed within BH01 prior to the commencement of ground works in order to determine any seasonal affect on the water table at the time of year of construction. If water is present within the standpipe during subsequent monitoring visits it may be prudent to bail or pump out the standpipe and observe recharge rates of groundwater to obtain an indication of recharge rates/flow rates for the perched groundwater.

- 7.4.6 No falling head tests were conducted on this site within the borehole during the investigation however it can be assumed that soakaway drainage would not be feasible within the relatively impermeable Lower Lias Clay. Any test results would fall within the poor soakaway potential range based on BS:8004 and would not be conducive to the use of soakaway drainage on this site.

Classification of Buried Concrete

- 7.4.7 The results of chemical analyses undertaken on soil samples recovered from the Made Ground and Oxford Clay indicate the Design Sulphate Class for the site to be "DS-3" based on the results of analytical testing and reference to BRE Special Digest 1 "Concrete in aggressive ground", Part I, in association with near neutral to slightly alkaline pH values. The BRE Digest suggests that buried concrete should be designed to an Aggressive Chemical Environment for Concrete (ACEC) site classification of "AC-3" based on mobile groundwater conditions and a 'Brownfield' site.

7.5 Ground Gas Assessment

- 7.5.1 Ground gas monitoring has been undertaken as part of this investigation on the 4th, 11th and 18th March 2011 with a total of three monitoring visits being undertaken, the results of which are included in Appendix C.
- 7.5.2 On all occasions, methane concentrations of <0.1% by volume were recorded in the standpipe installation. Carbon dioxide levels were recorded between 0.3% and 1.3% by volume and concentrations of oxygen were within the depleted to undepleted range (5.0% to 20.1%) for general atmospheric conditions. Minimal gas flow rates were detected during the return visits, recorded as between <0.1l/hr and 0.4l/hr. All three visits were undertaken at times of high atmospheric pressure (>1000mb).
- 7.5.3 In our experience, the gas concentrations recorded for the site are considered broadly typical of ground gas conditions recorded in generally inert Made Ground and variable natural strata.
- 7.5.4 In order to characterise the gas regime of the site, reference has been made to guidance given in British Standards document BS 8485:2007 'Code of Practice for the Characterisation and Remediation from ground gas in affected developments' which has evolved from previously published means of ground gas assessment published by CIRIA (C659/C665) and the NHBC (Report No 10627-R01 (04)). The methodology described in this document for determining whether methane and carbon dioxide could present a constraint to new development utilises a risk assessment based process in line with CLR11, taking into consideration the desk study findings, the data obtained during the phases of gas monitoring and the nature of the proposed development.
- 7.5.5 The data obtained during monitoring for gas concentrations and flow rates is utilised to calculate a 'site characteristic hazardous gas flow rate' (HGFR) based upon the data acquired for each monitoring point for each monitoring event. The maximum site characteristic hazardous gas flow rate recorded in the borehole together with the

range of gas concentrations recorded and typical flow rates are summarised in the following table.

Table 1 Characteristic Gas Situation Monitoring Results

Borehole	Max HGFR Q_{Hgs}	Min of Peak CH_4	Max of Peak CH_4	Min of Steady CO_2	Max of Steady CO_2	Min of Average Flow	Max of Peak Flow	Characteristic Gas Situation
	l/hr	%	%	%	%	l/hr	l/hr	
BH01	0.005	<0.1	<0.1	0.3	1.3	<0.1	0.4	1

7.5.6 Assessment of these results is then undertaken to determine a 'characteristic gas situation' for the site, which is then utilised in establishing the likely level of gas protection measures required dependent upon the nature of the proposed development. The types of development listed are similar to those previously identified in the CIRIA and NHBC documents, i.e. commercial/industrial and public buildings and residential properties (high-rise or low-rise)

7.5.7 Based on the monitoring and risk assessment process the site is classified as a Characteristic Gas Situation 1 (Very Low Hazard Potential) due to the low concentrations of methane/carbon dioxide and associated flow rates recorded. Based upon the British Standards guidance, no gas protection measures are recommended for the new development with respect to either methane or carbon dioxide.

8.0 TIER 1 CHEMICAL ASSESSMENT

8.1 **Published Guidelines**

8.1.1 The following assessment summarises the results of the chemical analyses, compared to available and relevant published guidelines. At present in the United Kingdom there are no statutory limits for the presence of contaminants in the solid deposits (soils) or groundwater. There are a number of documents available, which provide guidelines on acceptability criteria. Those that are considered to be most relevant are discussed below.

Human Health

8.1.2 In January 2009, the Environment Agency issued an updated version of the Contaminated Land Exposure Assessment (CLEA) model used in assessing the chronic risks to human health from long-term exposure to chemicals in soil. The CLEA model is used to derive Soil Guideline Values, a series of generic assessment criteria (GACs) that may be used to simplify human health risk assessment from chronic exposure to contaminants in soils. At the time of preparation of this report generic Soil Guideline Values (SGVs) have been produced for the following contaminants: arsenic, cadmium, nickel, mercury, selenium, phenols, benzene.

ethylbenzene, toluene and xylenes. These SGVs have been produced for a series of standard land uses such as residential, commercial/industrial and allotments.

- 8.1.3 SGVs have been produced using Health Criteria Values (HCVs) which are intended to indicate the concentration of a substance in soil below which human exposure can be considered to represent a 'tolerable' or 'minimal' level of risk. SGVs are not intended to indicate the presence of an 'unacceptable intake or direct bodily contact with a contaminant' (ref. CLAN 2/05) and therefore exceedance of SGVs does not necessarily indicate the 'Significant Possibility of Significant Harm' (SPOSH) and that the site would meet the statutory definition of contaminated land as defined under Part IIA of the Environmental Protection Act 1990. Instead, the exceedance of SGVs simply indicates that further assessment or remedial action may be required. The non-exceedance of an SGV indicates the presence of an acceptable risk and that the land is suitable for its intended use.
- 8.1.4 In a number of instances where no published or draft SGVs are available then reference has been made to assessment criteria published by the Chartered Institute of Environmental Health and Land Quality Management Limited in their document "Generic Assessment Criteria for Human Health Risk Assessment 2nd Edition" dated 2009. The CLEA Model software (version 1.04), together with toxicological and parameter data obtained from published documents/sources in accordance with the hierarchy set out in Environment Agency guidance documents SR2-4 & 7, has been used to derive Generic Assessment Criteria (GACs).
- 8.1.5 It is understood that the current proposals are to make structural alterations to an existing coffee production building on site installing new evaporators externally and associated plant internally on site of the borehole conducted during this investigation. The industrial site is currently covered by concrete and asphalt hardstanding and when completed the site will be wholly covered by hardstanding. Therefore it is considered appropriate to compare all of the results to those generic SGVs and GACs applicable to a 'commercial/industrial' setting. The SGVs and GACs are intended to be used purely as a guide to whether further assessment is required or remedial action should be taken.

Controlled Waters

- 8.1.6 Controlled Waters are defined by Section 104 of Part III of the Water Resources Act, 1991, and amended by the Water Act 2003. This is interpreted to include:
- 'all rivers, canals, lakes, groundwater, estuaries and coastal waters to three nautical miles from the shore. Groundwaters are defined as water contained in underground strata within the saturation zone, and includes saturated perched water bodies.'*
- 8.1.7 The site was found to be underlain by a cover of Made Ground and a thin layer of superficial Head Deposit with the solid geology of the Lower Lias Clay at relatively shallow depth. The Lower Lias Clay is classed as a non-aquifer and would act as an aquiclude protecting any groundwater within any underlying aquifers from vertical migration of any near surface contamination. The overlying Head Deposit was found to comprise a cohesive soil, which is likely to retard the migration of contaminants from the surface/near surface either laterally or downwards. Perched

groundwater was encountered within either the Made Ground or sand/silt lenses within the clay soils or as artesian water within the deeper limestone layer and are not thought to represent a significant pathway for any contaminants that may be present. Based on the above observations, the Phase 1 desk study information provided by the Client, former, existing and proposed site uses, no groundwater samples were submitted for chemical analysis due to the low risk posed to controlled waters.

8.2 Soil Chemical Test Results

- 8.2.1 Table C1 in Appendix D(ii) summarises all of the chemical tests carried out to date as part of this investigation and compares the results, where applicable, to published SGVs and other appropriate screening values as discussed above. Those determinands that exceed the identified screening values are assessed further below;

Arsenic, mercury, nickel, lead and selenium

- 8.2.2 A single sample of Made Ground and a single sample of Lower Lias Clay from the site were analysed for the above determinands. Concentrations were not recorded above generic commercial/industrial SGVs in either of the samples.

Beryllium, cadmium, chromium (total, trivalent and hexavalent), copper, vanadium and zinc

- 8.2.3 The soils results have been compared to the CLEA 1.04 derived GAC for a commercial/industrial end use. Neither of the samples tested for beryllium, cadmium, chromium, copper, vanadium and zinc exceeded the GACs.

Phenols

- 8.2.4 An SGV for phenol of 31,000mg/kg has been derived using the CLEA 1.04 model for a commercial/industrial end use assuming 1% Soil Organic Matter (SOM). Neither of the samples tested exceeded this value.

Polycyclic Aromatic Hydrocarbons

- 8.2.5 Two soil samples were submitted for analysis of concentrations of PAHs, which were speciated into sixteen compounds in accordance with USEPA guidelines.
- 8.2.6 Currently, there are no published finalised SGVs for either individual PAH compounds or for total PAH, however CIEH and Land Quality Management Ltd in their document "Generic Assessment Criteria for Human Health Risk Assessments 2nd edition" (2009), have derived generic assessment criteria for sixteen of the main PAH compounds.
- 8.2.7 The results for the two samples of CLEA 1.04 and Lower Lias Clay tested for the sixteen individual PAH compounds show that none of the sixteen PAHs had concentrations above the GAC for the proposed commercial/industrial end use.

8.3 **Summary of Chemical Contamination Assessment**

- 8.3.1 In summary, the Made Ground and Lower Lias Clay across the site was not found to contain any concentrations of contaminants in excess of those SGVs and GAC derived using CLEA methodology with respect to a commercial/industrial land use. Therefore there is considered to be a low potential for the possibility of harm to the health of future users of the proposed site and a low risk posed to ground workers during construction.

9.0 **QUALITATIVE RISK ASSESSMENT**

9.1 **Introduction**

- 9.1.1 In carrying out this assessment, the potential targets of any contaminated soil/groundwater and potential pathways for contaminant migration to the targets have been taken into account. The following targets, therefore can either be excluded or require further assessment. These will be discussed in more detail below:

- End users of the site
- Construction workers
- Surrounding properties
- Groundwater
- Underground services

9.2 **End Users**

- 9.2.1 In order to undertake an assessment of the potential risk to human health the results have been compared against generic SGVs and LQM GAC assuming the proposed development will comprise an industrial end use.
- 9.2.2 On the basis of the chemical analysis carried out on soils recovered from the site, end users are considered to be at a low risk from the soils present, especially since the soils are to be capped by permanent hardstanding and building floors. Therefore no plausible pathway could exist between any contaminants (source) and the end users (receptors).

9.3 **Construction workers**

- 9.3.1 The potential health hazard imposed on construction workers engaged in site works by the near surface soils encountered over the site area is considered to be low on the basis of the chemical analyses carried out and visual inspection. Standard Health and Safety measures are considered adequate and as such high standards of personal hygiene should always be maintained amongst site personnel. Washing facilities should also be provided and used prior to eating/smoking to prevent any hand to mouth transfer of soils. Further advice should be sought where visual or olfactory evidence of contaminated materials is discovered during ground works.

9.4 Surrounding Properties

- 9.4.1 On the basis of the ground and groundwater conditions encountered and the results of analytical testing, the risk of off site migration of contaminants presenting a risk to nearby residents/property is considered to be low.

9.5 Groundwater

- 9.5.1 Based on the findings during this investigation and the Phase 1 desk study information provided by the Client there is considered to be a low risk to groundwater from the near surface soils identified across this site.

9.6 Underground Services/Structures

- 9.6.1 Underground services on the site can be affected by the presence of a range of contaminants in the soil. Reference has been made to the Water Regulations Advisory Services information and guidance note 'The Selection of Materials for Water Pipes to be Laid in Contaminated Land' (Ref. No 9-04-03) dated October 2002.
- 9.6.2 Whilst only a limited number of the potential contaminants that could affect water supply pipes have been reviewed as part of the soil testing undertaken as part of this assessment, it has been established that the Made Ground does not contain concentrations of PAHs that may represent a hazard to certain types of water supply pipes. The near neutral/slightly alkaline pH values do not signify potential risks of corrosion from particularly acidic or alkaline conditions. The proposed structural alterations and new evaporators on site are unlikely to have buried potable water supply pipes associated with them in any case.
- 9.6.3 The results of chemical analyses undertaken on samples of soil recovered from the made ground and naturally occurring deposits encountered at the site indicate the Design Sulphate Class for the site to be "DS-3". The BRE Digest suggests that buried concrete should be designed to an Aggressive Chemical Environment for Concrete (ACEC) site classification of "AC-3" based on mobile groundwater conditions, a Brownfield site and near neutral/slightly alkaline pH values.

9.7 Disposal of Materials

- 9.7.1 We recommend that if off-site disposal is required, that analytical results relevant to the materials being disposed of should be provided to landfill operators to confirm whether it meets their license agreements and to confirm disposal costs. Given the chemical results obtained from BH01 it is likely that any near surface Made Ground disposed of from site will meet the criteria required for disposal as inert waste.
- 9.7.2 The waste producer is responsible for ensuring that basic characterisation of the waste has taken place to establish its key characteristics.
- 9.7.3 All waste materials should be handled in accordance with the Duty of Care for waste or relevant Waste Management Licensing. Materials should be classified and disposed off according to the Landfill Directive. Correct testing (e.g. Waste

Acceptance Criteria testing) may need to be undertaken prior to disposal.

10.0 **PROPOSED REMEDIAL ACTION/FURTHER WORKS**

- 10.1.1 No specific remedial requirements have been identified as a result of the investigation undertaken, however further advice should be sought if visual or olfactory evidence of potentially contaminated material is discovered during ground works.

Appendix A

Appendix B

BOREHOLE LOG



BH01

CLIENT KRAFT FOODS LIMITED

SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY

Sheet 1 of 2

Start Date 24 February 2011

Scale 1 : 50

End Date 24 February 2011

Depth 9.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru- ment	description	depth (m)	reduced level (m)	legend
24/02/11 0945hrs	1D	0.30					Concrete (250mm) with metal re-enforcement bar.	0.28		
	2D*	0.30					Reddish brown slightly clayey sandy granite GRAVEL.	0.60		
	3B	0.50								
	4D	0.65								
	5D*	0.65					Geotextile membrane over firm brown grey and orange slightly sandy slightly gravelly CLAY. Gravel is subangular fine mudstone. (MADE GROUND?)	0.90		
	6B	1.00								
	7D	1.00 - 1.45	Nil	S 10			Firm becoming stiff friable dark grey locally orange and brown slightly gravelly CLAY. Gravel is subangular fine occasionally medium mudstone. (HEAD DEPOSITS)	1.50		
	8X	1.00 - 2.10					1.50m: With occasional lenses of orangish brown silt and fine sand.	1.90		
	9D	1.10								
	10D*	1.10								
	11D	2.00					Stiff friable dark grey locally discoloured brown CLAY with rare fine gravel-sized selenite crystals and crinoid fossils. (LOWER LIAS CLAY)	2.65		
	12D*	2.00								
	13U	2.10 - 2.55	Nil							
	14X	2.10 - 3.60					Stiff friable dark grey silty CLAY. (LOWER LIAS CLAY)			
	15D	3.50								
	16D*	3.50					3.50m: With occasional light brown lenses of fine sand and rare fine gravel-sized selenite crystals.	3.90		
	17D	3.60 - 4.05	Nil	S 23						
	18X	3.60 - 4.60					Stiff fissured friable dark grey silty CLAY with rare fine and medium gravel-sized pinkish white shell fragments and rare crinoid fossils, locally abundant. (LOWER LIAS CLAY)			
	19D	4.50								
	20U	4.60 - 5.05	Nil							
	21X	4.60 - 5.60								
	22D	5.50								
	23D	5.60 - 6.05	Nil	S 40	100					
	24C	5.60 - 7.10					Very stiff friable fissured locally finely laminated silty CLAY with rare off-white fine gravel-sized shell fragments. (LOWER LIAS CLAY)	5.80		
	25D	6.50								
	26D	7.10 - 7.55	Nil	S 48	100					
	27C	7.10 - 8.00								
	28D	7.50								
Continued Next Page								(8.00)		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.00m. Dynamic sampled (143mm) 1.00-2.10m, (128mm) 2.10-4.60m, (113mm) 4.60-5.60m. Waterflush rotary core drilled (110mm) 5.60-9.00m.

CASING: 140mm diam to 3.90m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 8.00m, granular response zone 1.00-5.00m, bentonite seal 5.00-9.00m and 0.20-1.00m concrete and stopcock cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered prior to use of water flush



CONTRACT
25186

CHECKED
JPI

BOREHOLE LOG**BH01**

CLIENT KRAFT FOODS LIMITED

SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY


Sheet 2 of 2

Start Date 24 February 2011

Scale 1 : 50

End Date 24 February 2011

Depth 9.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru- ment	description	depth (m)	reduced level (m)	legend
24/02/11 1715hrs 0.40m	29C	8.00 - 9.00			60 55 55			8.35		
							Medium strong dark grey argillaceous LIMESTONE, (LOWER LIAS)	9.00		
							Borehole completed at 9.00m.			
								(18.00)		
water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	 CONTRACT 25186					CHECKED JH
Groundwater not encountered prior to use of water flush.										

Appendix C



SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY

[illegible]

denotes result exceeding capacity of gas monitoring equipment

CONTRACT
25186

CHECKED
JH

GAS AND GROUNDWATER LEVELS

CLIENT KRAFT FOODS LIMITED

SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY

borehole /trial pit no.	date & time	barometric pressure (mb)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)
BH01	18/03/11 08:51							0.0		
BH01	18/03/11 08:52							0.0		
BH01	18/03/11 08:53							-0.2		
BH01	18/03/11 08:54							0.0		
BH01	18/03/11 08:56	1010	1.3	0.0	5.7		0.0		7	
BH01	18/03/11 08:57		1.3	0.0	5.2		0.0			
BH01	18/03/11 08:58		1.3	0.0	5.2		0.0			
BH01	18/03/11 08:59		1.3	0.0	4.9		0.0			
BH01	18/03/11 09:00		1.3	0.0	4.7		0.0			1.38
general remarks: # denotes result exceeding capacity of gas monitoring equipment										
								CONTRACT 25186	CHECKED JM	

Appendix D(i)



2718

GEOTECHNICAL ENGINEERING LTD



For the attention of John Higgins

Date of Issue 25 March 2011

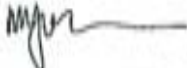
Page Number 1 of 7

TEST REPORT

PROJECT/SITE	PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY	Samples received	01/03/2011
GEL REPORT NUMBER	25186	Schedule received	01/03/2011
Your ref/PO:	**	Testing commenced	07/03/2011

SUMMARY OF RESULTS ATTACHED

TEST METHOD & DESCRIPTION	QUANTITY	ACCREDITED TEST
B51377: Part 2: 1990:3.2, Moisture Content	1	YES
B51377: Part 2: 1990:4.2-4.4&5.2-5.4, Liquid (Cone Penetrometer) & Plastic Limits	1	YES
B51377: Part 5: 1990:3, Consolidation	1	NO
B51377: Part 7: 1990:8&9, Undrained Triaxial Compression	3	NO
BRE SD1 Reduced Suite: pH, Sulphate - water and acid soluble, sulphur (Subcontracted)	3	YES

Remarks The report should not be reproduced except in full without written permission from this laboratory.	Approved Signatories: W Jones (Client Manager) R Pratt (Client Manager) J Hanson (Director) C Thomas (Consultant) 
---	--

Doc TR01 Rev No. 4 Revision date 14/03/11 DC/JH

Directors:

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 J C W Hansen BSc MSc CGeol FGS EurGeol N V Parry BEng MSc CEng MICE
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Geotechnical Engineering Limited

LIQUID AND PLASTIC LIMITS

BS.1377 : Part 2 : 1990 : 4 and 5

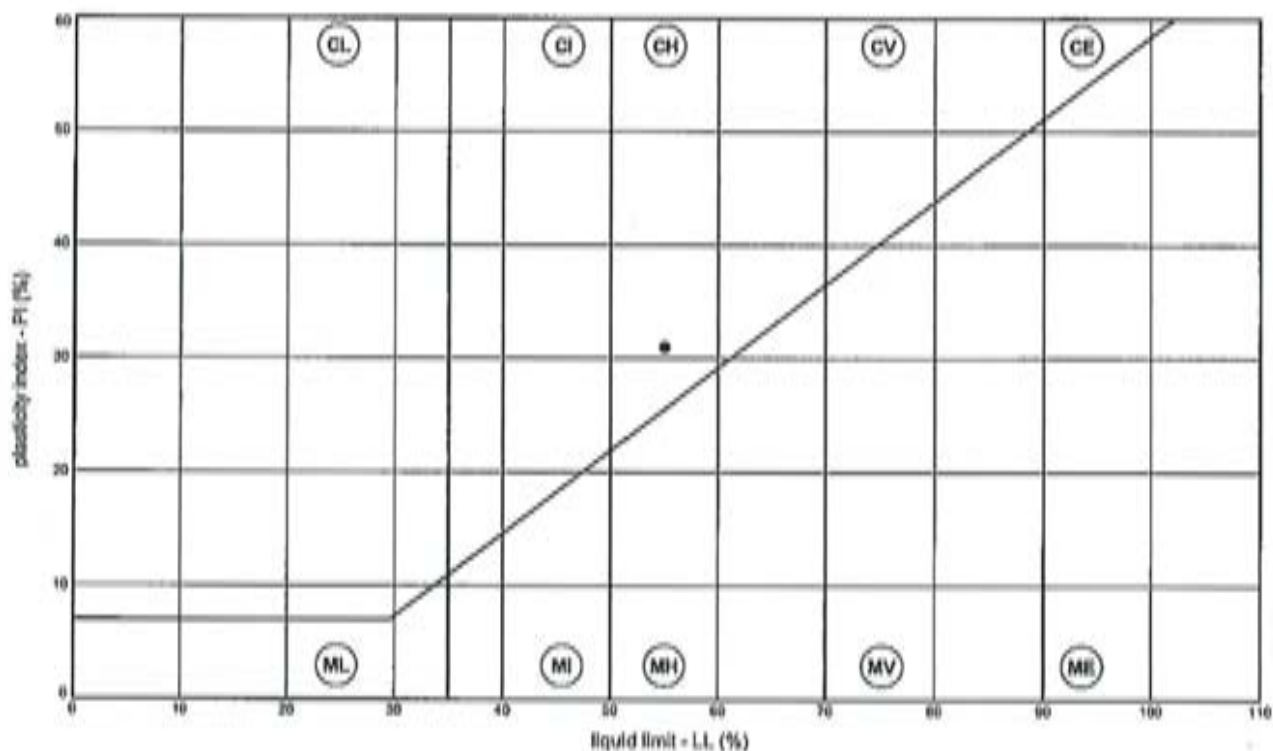
CLIENT KRAFT FOODS LIMITED

SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY



borehole /trial pit no.	sample		specimen depth (m)	natural moisture content (%)	specimen preparation and test method	fraction ≥0.425 mm (%)	liquid limit (%)	plastic limit (%)	plasticity index (%)	description and remarks
	no./type	depth (m)								
BH01	0X	1.00	1.10	25	0XE	2	55	24	31	Grey mottled brown slightly sandy CLAY with a little fine gravel
<p>general remarks: natural moisture content determined in accordance with BS1377 : Part 2 : 1990 : 3.2 (unless specified) NP denotes non-plastic # denotes sample tested is smaller than that which is recommended in accordance with BS1377</p>										
<p>specimen preparation: A - as received B - washed on 0.425mm sieve C - air dried D - oven dried (60°C) E - oven dried (105°C) F - not known</p>						<p>test method: X - cone penetrometer (test 4.3) Y - one point cone penetrometer (test 4.4) Z - Casagrande apparatus (test 4.5)</p>				
						<p>CONTRACT 25186</p>		<p>CHECKED WJ</p>		

SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY

[illegible]

CHECKED
WJ

UNDRAINED TRIAXIAL COMPRESSION

BS.1377 : Part 7 : 1990 : 8 and 9

CLIENT KRAFT FOODS LIMITED

SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY

borehole trial pit no.	sample		specimen depth (m)	code	moisture content (%)	density		cell pressure (kPa)	deviator stress (kPa)	failure strain (%)	failure mode	shear strength* (kPa)	description and remarks
	no./type	depth (m)				bulk (Mg/m ³)	dry (Mg/m ³)						
BH01	20U	4.60	4.60	UU70	17.6	2.20	1.87	80	475	5.7	S	238	Grey slightly sandy CLAY
BH01	24C	5.60	5.50	UU70	20.4	2.22	1.84	110	242	11.4	S	121	Grey slightly sandy CLAY
BH01	27C	7.10	7.50	UU38	24.2	2.01	1.62	150	143	15.8	I	72	Grey slightly sandy CLAY
general remarks: * shear strength taken as half deviator stress at failure for each stage. # denotes sample unsuitable to test.													
code: CD - Consolidated drained M - Multistage 38 - 38mm dia. x 76mm CU - Consolidated undrained S - Set of 3 specimens 70 - 89mm dia. x 140mm UU - Unconsolidated undrained R - Remoulded 100 - 106mm dia. x 200mm								membrane correction applied sample taken vertically (unless specified) rate of strain = 2%/min (unless specified)					
failure mode: B - barrelling (plastic failure) I - intermediate S - shear (brittle failure) O - other (see remarks)								membrane thickness 38 - 0.2mm 70 - 0.4mm 106 - 0.4mm				CONTRACT 25186	CHECKED WJ

CONSOLIDATION TEST

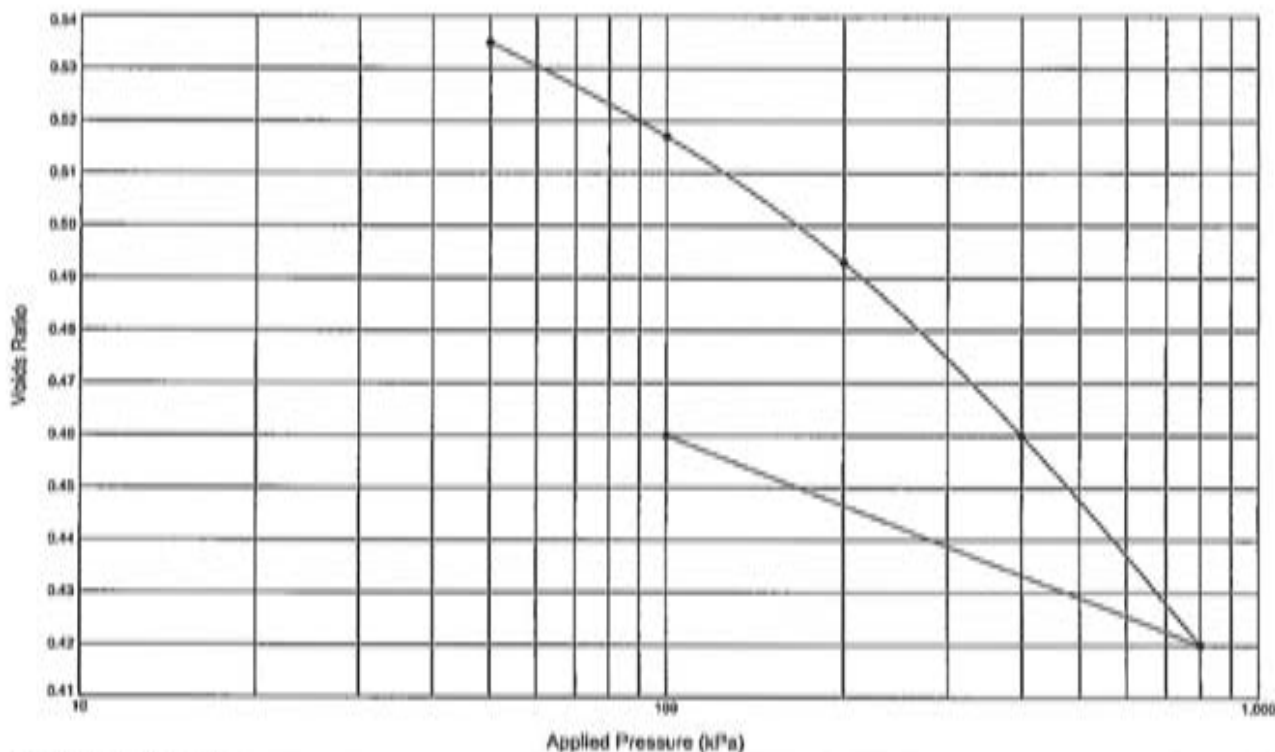
BS.1377 : Part 5 : 1990 : 3



CLIENT KRAFT FOODS LIMITED
 SITE PROPOSED EVAPORATORS, KRAFT FOODS, BANBURY

BH/TP No. BH01
 SAMPLE No./TYPE 24C
 SAMPLE DEPTH (m) 5.60
 SPECIMEN DEPTH (m) 6.80

DESCRIPTION Grey slightly sandy CLAY



Test and sample details			Test results			
			pressure stage (kPa)	voids ratio	laboratory coefficients of compressibility (m ² /MN)	consolidation (m ² /year)
specimen diameter	(mm)	63.48	50	0.535		
specimen height	(mm)	19.04	100	0.517	0.235	7.23
initial moisture content	(%)	16.1	200	0.493	0.161	4.80
final moisture content	(%)	20.3	400	0.460	0.110	4.93
initial bulk density	(Mg/m ³)	2.08	800	0.420	0.069	4.05
initial dry density	(Mg/m ³)	1.74	100	0.460	0.041	
initial voids ratio		0.548				
initial degree of saturation	(%)	94				
particle density	(Mg/m ³)	#2.70				
swelling pressure	(kPa)	N/A				
P ₀ to P ₀ +100 kPa	(kPa)	-				
laboratory temperature	(°C)	21				
method of time fitting		root time				
remarks: # denotes particle density has been assigned an assumed value Specimen swelled on first load stage at 50kPa					CONTRACT 25186	CHECKED WJ

Geotechnical Engineering Ltd
Centurion House
Olympus Park, Quedgeley
Gloucester
GL2 4NF

FAO Wendy Jones
14 March 2011

Dear Wendy Jones

Test Report Number 58679

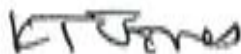
Your Project Reference Proposed Evaporators, Kraft Foods, Banbury - 25186

Please find enclosed the results of analysis for the samples received 4 March 2011.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

<input type="checkbox"/> Darrell Hall	Director
<input type="checkbox"/> Phil Hellier	Director
<input checked="" type="checkbox"/> Keith Jones	Technical Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Director



Notes to accompany report:

- The sign < means 'less than'
- Tests marked 'U' hold UKAS accreditation
- Tests marked 'M' hold MCertS (and UKAS) accreditation
- Tests marked 'N' do not currently hold UKAS accreditation
- Tests marked 'S' were subcontracted to an approved laboratory
- n/e means 'not evaluated'
- i/s means 'insufficient sample'
- u/s means 'unsuitable sample'
- Comments or interpretations are beyond the scope of UKAS accreditation
- The results relate only to the items tested

Geotechnical Engineering Ltd
 Centurion House
 Olympus Park, Quedgeley
 Gloucester
 GL2 4NF

FAO Wendy Jones

LABORATORY TEST REPORT

Results of analysis of 3 samples
 received 4 March 2011

Proposed Evaporators, Kraft Foods, Banbury - 25185



Report Date
 14 March 2011

Login Batch No

AFS1545

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP: Determinand

2610 pH

2175 Sulfur (total TPL report 447)

2120 Sulfate (2.1 water soluble) as SO₄

2430 Sulfate (total) by 5S1377 (HCl)

AFS1545		AFS1547		AFS1548	
BH1	BH1	BH1	BH1	BH1	BH1
2X	4X	4X	4X	4X	4X
03/03/2011	03/03/2011	03/03/2011	03/03/2011	03/03/2011	03/03/2011
1.1m	2.1m	2.1m	2.1m	4.5m	4.5m
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
CAS No.1		Units.1		Units.1	
		M		M	
		%		%	
		g l ⁻¹		g l ⁻¹	
		%		%	
		M		M	
		7.9		7.2	
		0.25		1.49	
		0.05		1.6	
		0.05		1.84	
		7.2		2.0	
		1.1		1.1	
		0.32		0.32	

All tests undertaken between 07/03/2011 and 14/03/2011

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Column page 1

Report page 1 of 1

LIMS sample ID range AFS1545 to AFS1548

Appendix D(ii)



PROJECT NO: 25105

4. Soil Organic Matter (SOM) calculated based on Total Organic Carbon analysis, assuming 58% carbon content. SOM mean is arithmetic mean.

Maximum Depth of Sample: 3.50m

Geotechnical Engineering Ltd
Centurion House
Olympus Park, Quedgeley
Gloucester
GL2 4NF

FAO Sam Bevins
14 March 2011

Dear Sam Bevins

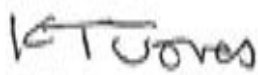
Test Report Number 58678
Your Project Reference Kraft Foods, Banbury - 25186/SB

Please find enclosed the results of analysis for the samples received 4 March 2011.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely


Authorised Signatory

<input type="checkbox"/> Darrell Hall	Director
<input type="checkbox"/> Phil Hellier	Director
<input checked="" type="checkbox"/> Keith Jones	Technical Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Director



Notes to accompany report:

- The sign < means 'less than'
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- The results relate only to the items tested

LABORATORY TEST REPORT

Results of analysis of 2 samples
 received 4 March 2011

Kraft Foods, Banbury - 25186/SB

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP / Determinand

2010 pH

2300 Cyanide (total)

2128 Boron (not water soluble)

2490 Sulfate (2.1 water soluble) as SO₄

2490 Chromium (hexavalent)

2490 Arsenic

Beryllium

Cadmium

Chromium

Copper

Mercury

Nickel

Lead

Selenium

Vanadium

Zinc

2490 Chromium (trivalent)

2700 Naphthalene

Acenaphthylene

Acenaphthene

Fluorene

Phenanthrene

Anthracene

Fluoranthene

Pyrene

Benzofluoranthene

Chrysene

58678

AFS1637 AFS1638

81401 81401

03/03/2011 03/03/2011

0.55m 3.5m

SOIL SOIL

SOIL SOIL

SOIL SOIL

SOIL SOIL

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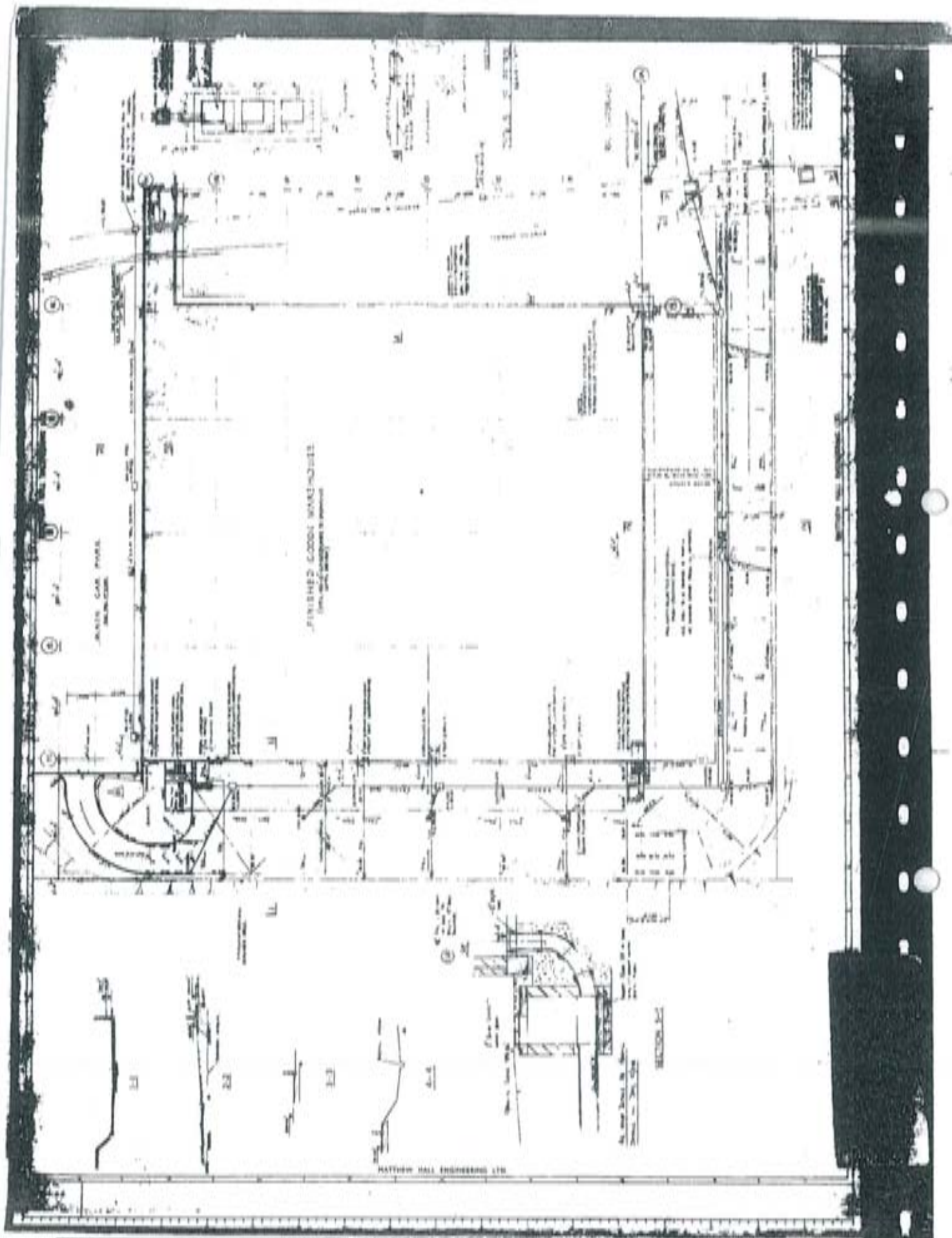
LABORATORY TEST REPORT

Results of analysis of 2 samples
received 4 March 2011

Kraft Foods, Banbury - 25186/5B

Report Date
14 March 2011

58578		AFS1537 AFS1538	
		BN01	BN01
		03/03/2011	03/03/2011
		0.05m	3.5m
		SOIL	SOIL
2700 Benzo(a)fluoranthene	2053952	<0.01	<0.01
Benzo(b)fluoranthene	267089	<0.01	<0.01
Benzo(a)pyrene	50328	<0.01	<0.01
Dibenz(a,h)anthracene	53703	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	193395	<0.01	<0.01
Benzo(g,h,i)perylene	191242	<0.01	<0.01
Total (of 16) PAHs		<0.2	<0.2
2920 Phenols (total)		<0.3	<0.3

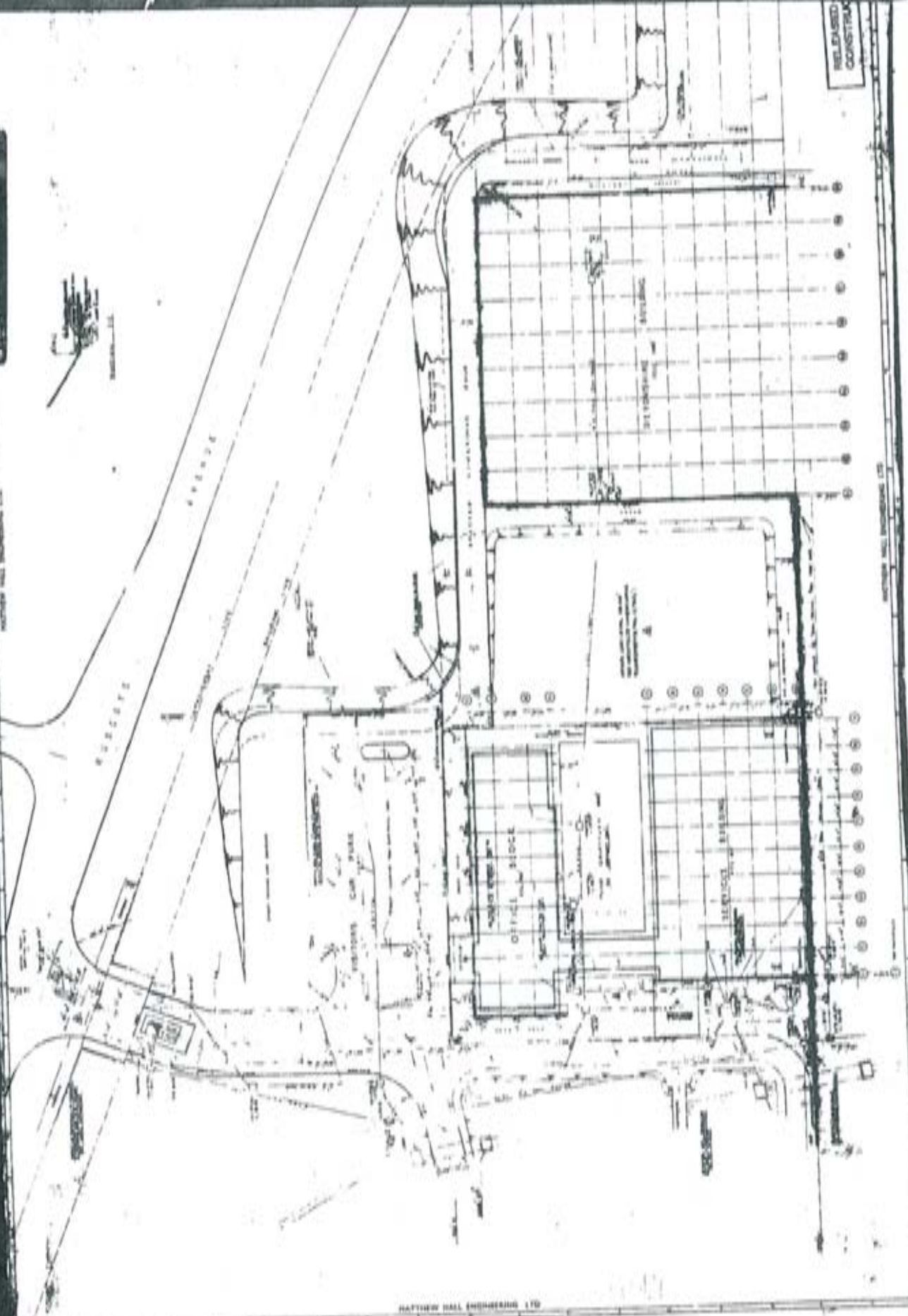


MATTHEW HALL ENGINEERING LTD

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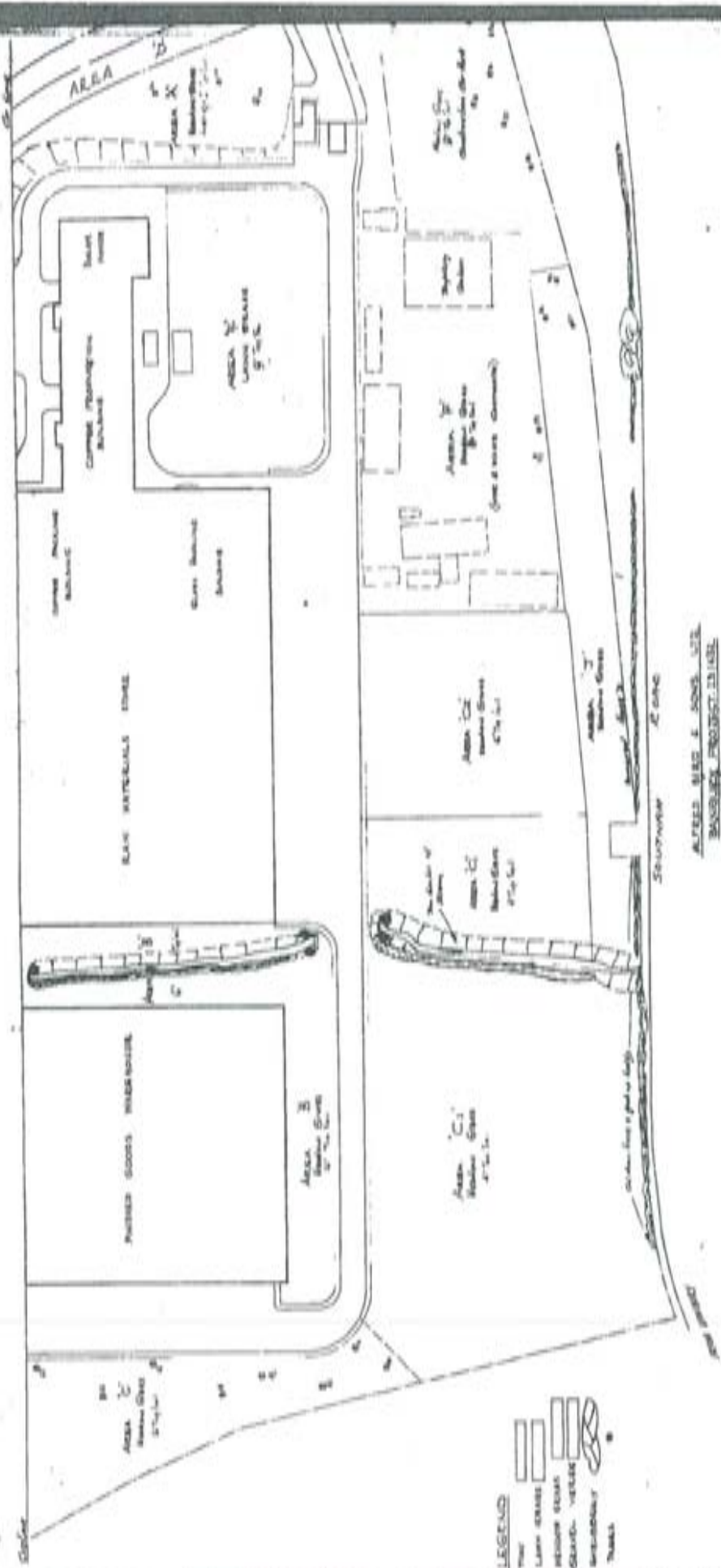
SECTION 11



HATFIELD HALL ENGINEERING LTD

RELEASED
CONSTRUCTION

HATFIELD HALL ENGINEERING LTD



ALFRED MIRO & SONS LTD.
 BANGOR PROJECT 23 HILL
 LANCASHIRE
 SCALE 1:1000





Appendix 5 Responses to Requests for Public Register Environmental Information

Southam Road Retail Park, Banbury
Ground Stability and Phase 1 Contaminated Land Desk Study

Robert Foster

From: WT Enquiries [WTenquiries@environment-agency.gov.uk]
Sent: 23 January 2012 17:51
To: Robert Foster
Subject: FW: Southam Road, Banbury (our ref WT003495)
Attachments: Southam Road_EA.pdf; nirs report 1.htm; nirs report 2.htm; nirs report 3.htm; nirs report 4.htm; nirs report 5.htm; nirs report 6.htm; discharges.htm; Licence-PP3533KB.htm; new standard notice 2011.pdf

Dear Mr Foster

With reference to your request; please find attached reports of pollution incidents (nirs reports) and discharge consents, within the 250 metre radius of the site you are interested in.

I have checked thoroughly and can confirm that there are no records of water abstractions licences within this search radius;

We have no groundwater and surface water quality monitoring data within this search radius;

We have no records of any landfill sites within this search radius;

We have no record of waste transfer and waste treatment sites within this search radius;

" Details of all current licences including radiological sources in force for Part A processes"- licence PP3533KB attached.

Please do not hesitate to contact me if you have any questions.

Kind regards

Tristan

Tristan Hayden
External Relations Officer
01491 828439

External Relations
Planning & Corporate Services
Environment Agency
South East region
West Thames Area
Red Kite House
Howbery Park
Wallingford
Ox10 8BD

From: Robert Foster [mailto:RFoster@peterbrett.com]
Sent: 21 December 2011 10:35
To: WT Enquiries
Subject: Southam Road, Banbury

20/02/2012

Dear EA,

Further to our earlier conversation, please find attached request for information for site at Southam Road, Banbury.

My direct dial is 0118 9520251

Regards,
Robert Foster
Engineer

For and on behalf of Peter Brett Associates LLP
Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN
Tel: +44 (0)118 950 0761
Fax: +44 (0)118 959 7498
E-mail: rfoster@peterbrett.com
Website: www.peterbrett.com

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Selection Results
MERS2 Pollution Incidents

Notification Identifier	Notification Date	EA Water Management Region	EA Water Management Area	EA Public Fact Region	EA Public Fact Area	Location	County	Unitary Authority	District Authority	National Grid Reference	Easting No
857571	11-Feb-2011	Thames Region	West - Thames	Thames Region	West	Spichell Country Park	OXFORDSHIRE COUNTY		CHEBWELL DISTRICT	SP 45112 41592	44513124

Selection Results
NERS2 Pollution Incidents

Notification Identifier	Notification Date	EA Water Management Region	EA Water Management Area	EA Public Face Region	EA Public Face Area	Location	County	Unitary Authority	District Authority	National Grid Reference	Easting No
852571	11-Feb-2011	Thames Region	West - Thames	Thames Region	West	Spetchell Country Park	OXFORDSHIRE COUNTY		CHERWELL DISTRICT	SP 45132 41562	445232 24

Selection Results
NRS2 Pollution Incidents

Notification Identifier	Notification Date	EA Water Management Region	EA Water Management Area	EA Public Fact Region	EA Public Fact Area	Location	County	Unitary Authority	District Authority	National Grid Reference	Listing No
051066	13-Oct-2011	South East Region	West Thames	South East Region	West Thames	Spichell Country Park	OXFORDSHIRE COUNTY		CHEBBELL DISTRICT	SP 45024 41798	44502424

Selection Results
NIRS1 Pollution Incidents

Notification Identifier	Notification Date	EA Water Management Region	EA Water Management Area	EA Public Fact Region	EA Public Fact Area	Location	County	Unitary Authority	District Authority	National Grid Reference	Ending No
214287	02-Feb-2004	Thames Region	West - Thames	Thames Region	West	Ruscombe Avenue, Banbury	OXFORDSHIRE COUNTY		CHELOWELL DISTRICT	SP 45036 41764	445036/24
042581	21-Nov-2011	South East Region	West Thames	South East Region	West Thames	Spexhall Country Park	OXFORDSHIRE COUNTY		CHELOWELL DISTRICT	SP 45036 41266	445036/24

Selection Results
NRS2 Pollution Incidents

Notification Identifier	Notification Date	EA Water Management Region	EA Water Management Area	EA Public Face Region	EA Public Face Area	Location	County	Unitary Authority	District Authority	National Grid Reference	Easting No
648770	21-Dec-2010	Thames Region	West - Thames	Thames Region	West	Hardwick	OXFORDSHIRE COUNTY		CHEWELL DISTRICT	SP 45326 41879	4485326/24

Selection Results
NIRS1 Pollution Incidents

Notification Identifier	Notification Date	EA Water Management Region	EA Water Management Area	EA Public Face Region	EA Public Face Area	Location	County	Unitary Authority	District Authority	National Grid Reference	Eastings
67069	14-Jun-2002	Thames Region	West - Thames	Thames Region	West	Roate Avenue, Banbury	OXFORDSHIRE COUNTY		CHEWELL DISTRICT	SP 45067 41560	44506
68278	26-May-2009	Thames Region	West - Thames	Thames Region	West	Spicehill Country Park	OXFORDSHIRE COUNTY		CHEWELL DISTRICT	SP 45065 41558	44506
681463	19-Jun-2011	Thames Region	West - Thames	Thames Region	West	Spicehill Country Park	OXFORDSHIRE COUNTY		CHEWELL DISTRICT	SP 45059 41558	44505
250081	10-Jul-2004	Thames Region	West - Thames	Thames Region	West	Banbury (Oxfordshire)	OXFORDSHIRE COUNTY		CHEWELL DISTRICT	SP 45051 41562	44505

Selection Results
WDM5 Active Discharge Consents

Consent Number	Version Number	Previous Number	Date Issued	Date Effective	Date Reviewed	Consent Comment	Short Name	Long Name	Address 1	Address 2	Address 3	Address 4	Post Code	Discharge
CAWM.0243	1		04-Sep-2000	10-Aug-2000	10-Aug-2004		KRAFT FOODS	KRAFT FOODS, OUTLET 2 NORTH SIDE	COFFEE OPERATIONS	BUSCOTE AVENUE	BANBURY	OXFORDSHIRE	OX16 2QU	SP45250
CNTM.0669	3		25-Sep-2000	01-Jan-2010	01-Jan-0014	OSM MODIFICATION	SETTLED DISC	SETTLED DISCHARGE, GROMSBURY WATER	SETTLED DISCHARGE, GROMSBURY WATER	ER WORKS, BANBURY, OXFORDSHIRE				SP45600
CNTM.1679	1		20-Dec-1994	20-Dec-1994		ConNo:WR1679 AppNo:7329 NoDis:100000000000 AsRel: ASMRGR Pc:TP: Expc:	KRAFT JACOBS	KRAFT JACOBS SUCHARD, BUSCOTE AVENUE	KRAFT JACOBS SUCHARD, BUSCOTE AV	ENUE, BANBURY, OXFORDSHIRE	OX16 2QU			SP45100
CNTM.1678	1		20-Dec-1994	20-Dec-1994		ConNo:WR1678 AppNo:7329 NoDis:100000000000 AsRel: ASMRGR Pc:TP: Expc:	KRAFT JACOBS	KRAFT JACOBS SUCHARD, BUSCOTE AVENUE	KRAFT JACOBS SUCHARD, BUSCOTE AV	ENUE, BANBURY, OXFORDSHIRE	OX16 2QU			SP45100
CTCR.2060	1		21-Nov-1983	21-Nov-1983		ConNo:2060 AppNo: NoDis:1 ASMRGR ASMRGR: PC:TP: Expc:	BATCHING PLANT	BATCHING PLANT, SOUTHAM ROAD, BANBU	BATCHING PLANT, SOUTHAM ROAD, BA	NEBURY, OXON, OX16 7SE				SP45400

Selection Results
PAS Active IPPC Authorisations

EA Region	EA Area	Original PAS Number	Current PAS Number	Operator Name	Permission Status	Local Authority	Installation Name	Address Line 1	Address Line 2	Address Street Name	Address Locality	Address Town	Address Post Town	Address
SouthEast	West Thames	PP151182B	PP151190B	Kraft Foods UK Production Limited	Transfer Effective	CHERWELL DISTRICT COUNCIL	Combustion Plant, Banbury		Kraft Foods UK Limited	Roscote Avenue		Banbury	Oxon	

