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Phase 1 Land Contamination Assessment

Sterling Inks UK Ltd, Netherley Road, Tarbock Green, Prescott, L35 1QE



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March 2020
Report QA 20/015



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1.0 Executive Summary

Peak Associates Environmental Consultants Ltd (Peak Associates) was commissioned by Sterling Inks UK Ltd to undertake a Phase 1 land contamination assessment at Netherley Road, Tarbock Green, Prescott, as advised by the planning pre-application advice for a 14-plot residential development. Woodford Industries Limited (WI) undertook a combined Phase 1 and 2 investigation in 2000 and succeeding this, Peak Associates were previously commissioned to update the results of such investigation and produced Phase 2 and 3 reports in 2015. Since the initial Phase 1 investigation by WI was carried out in 2000, a revised report is required for the planning application.

The key objectives to this assessment are to identify potentially significant constraints to redevelopment of the site due to the environmental setting, historical use and current condition of the site and surrounding area with respect to contaminated land.

This report is based upon observations made on site during a walkover undertaken on 28th February 2020, previously conducted Phase 2 (QA15019a) and Phase 3 (QA15036) investigations and upon archival research including the analysis of historical maps, geological, hydrogeological and hydrological data and other relevant Third Party environmental information. Peak Associates can accept no liability for any inaccuracies contained within the Third Party information referenced.

The Ordnance Survey historical mapping reveals that the site is located within a predominately rural area comprised of agricultural land, farm buildings and numerous residential dwellings in Tarbock Green village. The area surrounding the site undergoes minimal industrial/residential change in this time aside from expanding farms and several new dwellings. In 1999 the A5300 is constructed stretching from the north to the south-east of site, approximately 560 m at its closest.

The historic mapping shows five structures on site from 1955 and increased to twelve by 1959. In 1969 the sites structures are redeveloped into what appears to be todays current set-up of three large adjoining buildings aligned NNE/SSW. The historical on-site use could not be determined to specific dates, but it is known to have occupied R & B Roadtank Repairers Ltd until 1993. Sterling Inks UK Ltd, once called Rotoflex Ltd, also occupied the site as a production facility.

This assessment has identified several medium risks of contamination on or beneath the site originating from former activities on and off the site and current materials storage on site. These sources include:

- Potential for contamination from previous operations and current storage of chemicals by Rotoflex Ltd and Sterling Inks UK Ltd).
- Potential hydrocarbon contamination from historic fuel storage on site by R & B Roadtank Repairers Ltd, as well as known underground fuel storage tanks.
- Potential ACMs from neighbouring properties, old on-site structures (built between 1930-1980), industrial and fly-tipped waste.

The extent of asbestos containing materials (ACMs) on site is to be determined. Cement bound asbestos roofing sheets was identified in the north-west of the site amongst piles of mixed waste (industrial, household, fly-tipped etc), this should be covered until appropriate removal to prevent dispersal of fibres. It is known that there was previously a fire in the middle building which had an asbestos cement roof, this likely resulted in the release of fibres as the roof was damaged. The former Phase 3 report identified Chrysotile (white asbestos) in two of the ten soil samples, these are likely from demolition wastes used as a subbase for the concrete slabs or resulting from the fire. Asbestos cements sheets are firmly bound ACMs do not release fibres as easily as friable ACMs, unless crushed, as they take longer to degrade and therefore there is a lower risk of fibres becoming airborne. The asbestos fibres found appeared to be localised to the centre/SW of the site and it was recommended that ACM found remains in situ with a capping layer (or covered) in accordance to the current CIRIA C733 guidance.

It is recommended that a survey of the buildings is undertaken by an asbestos specialist, and a watching brief for any Asbestos Containing Materials (ACMs) is in place during demolition of buildings. Prior to any construction works it is recommended that upon removal of the concrete hardstanding and foundations a watching brief is also undertaken. Given the nature and age of the site it is expected that some of the subbase beneath foundations and concrete hardstanding will be material from demolition of previous buildings and structures on site. Given this expectation it would be recommended that a sampling survey is undertaken across the site to determine where any natural or made ground can be reused across the site, and what capping measures may be required. This recommendation is made in accordance to the Control of Asbestos Regulations (CAR) 2012 and Healthy and Safety Executive. Due to the age and extensive use of concrete it is expected that any contamination would be from historic fill, or from contaminants mobilised from the surface during removal of the concrete. As such it is recommended that the site is cleared prior to removal of concrete.

The site is currently occupied by various types of waste including household items, wooden pallets, other wood waste and general waste from fly tippers. These waste types are heavily integrated with industrial waste of known and unknown chemical content, and appropriate PPE should be worn during their removal from site. IBC and chemical storage drums of known contents should be removed off site and disposed of appropriately according to the recommended method on the associated safety data sheet. If chemical of unknown contents is encountered the appropriate hazardous waste removal companies should be appointed.

At current, approximately two thirds of the external site surface is concrete hardstanding with the remaining tarmac (NW corner of site). The floor slabs in two of the three accessible building appeared in good condition. Both internal and external flooring had minimal visible cracks/joints and no floor drains observed, based on this and its impermeable nature it is suspected that current pollutants are relatively retained above ground. However, the site comprised visible spillages of waste chemicals stored on site, including pollution of surface water primarily within bunded

areas. Given the volume of the surface water due to ongoing heavy rainfall it is assumed that the bunded areas remain intact as far as could be ascertained during the walkover. In such case, appropriate PPE and method statements are to be used during its removal, and an approved contractor appointed. As stated above, the sites waste needs to be cleared prior to removal of the concrete hardstanding. During this a watching brief for any further evidence of potential contaminants is required and it is recommended that a survey of the site is undertaken following its removal.

Given the history of the site there is a high potential for hydrocarbons present, and or other contaminants associated with the activities of R & B Roadtank Repairers Ltd, on site. It is known that four underground storage tanks are located underneath the car park area as shown in Plan 1. It was reported (but not yet supported by evidence) that these were filled with cement-based slurry in 1986 and that the tanks were last used pre-1984. Previous sampling on the site identified elevated concentrations in four samples of which two were groundwater samples and it was recommended that a trench is excavated to collect impacted groundwater and removal off site until acceptable concentrations are attained. Whilst these contaminants were previously attributed to the former underground storage tanks in the SE of site, it has since been understood that tankers may have been emptied in the SW of the site which corresponds to the location of the sampling with elevated concentrations. In addition to the disposal of impacted groundwater, the disposal of impacted soils should be undertaken and a watching brief for any further evidence of hydrocarbons and other pollutants is required.

Furthermore, three isolated phytotoxic concentrations of copper, zinc and lead were previously. If the area whereby these contaminants were found are within planned garden or planting areas, it was recommended that topsoil is brought into a sufficient depth (typically 0.6m). If such recommendation is carried out it is unlikely that these phytotoxic concentrations will affect the growth of plants. Whilst trace concentrations of solvents were identified in the Phase 2 report, they were not in the Phase 3 investigation. However, since BTEX and VOCs were present in certain samples, a ground gas survey is recommended, and the design of floor should consist of vapour barriers and passive venting. Once remediation work is undertaken, validation sampling is required to ensure acceptable concentrations of pollutants prior to construction work.

A summary of the recommendations is as follows. Demolishment of any current buildings or structures on site should be undertaken and the site cleared prior to removal of the concrete and tarmac hardstanding. Following the removal of the hardstanding, further sampling should be undertaken to quantify the extent of asbestos fibres and other contaminants. Depending on the results attained from such sampling a review of the recommended remediation work, as proposed in the Phase 3 report (QA15036) and highlighted above, should be carried out. As a watching brief has been recommended the watching brief guide has been included as Appendix 4.

2.0 Introduction

Peak Associates Environmental Consultants Ltd (Peak Associates) was commissioned by Sterling Inks UK Ltd to undertake a Phase 1 land contamination assessment at Netherley Road, Tarbock Green, Prescott, as advised by the planning pre-application advice for a 14-plot residential development. Woodford Industries Limited (WI) undertook a combined Phase 1 and 2 investigation in 2000 and succeeding this, Peak Associates were previously commissioned to update the results of such investigation and produced Phase 2 and 3 reports in 2015. Since the initial Phase 1 investigation by WI was carried out in 2000, a revised report is required for the planning application.

The assessment includes the site areas shown within the red line boundary on Plan 1.

The key objectives to this assessment are to identify potentially significant constraints to redevelopment of the site due to the environmental setting, historical use and current condition of the site and surrounding area with respect to contaminated land.

2.1 Previous Investigations

This report is based upon observations made on site during a walkover undertaken on 28th February 2020, previously conducted Phase 2 (QA15019a) and Phase 3 (QA15036) investigations and upon archival research including the analysis of historical maps, geological, hydrogeological and hydrological data and other relevant Third Party environmental information. Peak Associates can accept no liability for any inaccuracies contained within the Third Party information referenced.

Peak Associates conducted Phase 2 (QA15019a) and Phase 3 (QA15036) investigations and subsequent reports in May and July 2015, respectively. Plan 1 – Site Plan in ‘Plans’ illustrates the borehole locations from these two reports and are referenced in the text below.

The Phase 2 report presented the results from excavating eight boreholes and obtaining thirteen soil samples. Potentially phytotoxic concentrations of copper and zinc were identified however that the samples were not representative of the entire site. Due to the depth of detection (0.4-0.6 m), it was concluded that these concentrations are unlikely to affect the growth of plants especially if material were to remain capped and topsoil brought in for any planting scheme. Elevated concentrations of extractable petroleum hydrocarbons (WS03 and WS04) and petrol range organic compounds were detected, suspected to be from leaks/spills of on-site vehicles/machinery and the former underground fuel tanks/associated pipe works respectively. In addition to this, when on site it was brought to our attention that road tankers were previously emptied in the south-east corner of site. Trace concentrations of solvents were identified (WS04 and WS04) and on-site use of solvents was considered to be the likely source; improved storage and removal of shallow contaminated soil was recommended. Since higher concentrations of petrol organics have the potential to be inhaled as vapours and adversely impact human health, further investigation was required for delineation and potential migration of such. It

was concluded that an assessment of the extent of contamination from asbestos fibres (in areas of open ground) and further investigation with additional boreholes and sampling within the vicinity of located contaminants was required.

The Phase 3 report outlines the results of an additional eight boreholes, ten soil samples and two groundwater samples (as recommended in the Phase 2 report). Further investigation into hydrocarbon contamination likely from the underground storage tanks determined additional elevated concentrations (WS08, WS22, WS23 and WS27). Since an elevated Benzo(a)Pyrene was determined (WS25) it was stated that some ground remediation will be required in this area prior to development. No further trace concentrations of solvents were identified from soil samples within the area of prior detection. BTEX (WS22 and WS27) and VOCs (WS23 and WS25) were detected therefore a ground gas survey for VOCs and CO₂ (degradation product from hydrocarbons), as well as design of floor slabs with vapour barriers and passive venting, is likely to be required. It was recommended that remedial work entails trench excavation to collect contaminated groundwater for off-site disposal until acceptable concentrations are attained. Impacted soils are also to be removed from site and disposed of appropriately. Following such, validation sampling to confirm soil and groundwater are at acceptable levels of residual hydrocarbon prior to the proposed development commencing. Elevated concentrations of PAH were also detected (WS22, WS23, WS25) and analysis of the PAH double ratio plot indicated that it likely originated from coal ash or tarmac. Recommendation of removing this type of made ground and disposing of appropriately or using beneath a building/hard stand. Additionally, one elevated concentration of lead was determined (WS25) to be above the screening level for residential use with home grown produce. Hard stand or a building should ideally be located in this area, if it is a proposed garden area then the soil is to be removed and relocated. Chrysotile (white asbestos) was detected in two soil samples (WS03 and WS26) and the source identified as roofing materials on a previous site building that contaminated the site after a fire. Whilst most of the asbestos containing materials was removed, fibre remain in shallow soils and unsurfaced ground but appeared not widespread. It was recommended that the site layout is designed for ACS's in situ and capped according to the current guidance, if removal is required this should be carried out under the requirements of CAR 2010. Such capping layer would also deal with any metal or inorganic contaminants such as lead, copper and zinc as found in localised samples.

3.0 Site Description

The site is located in a predominantly rural area, approximately 5 km south of Prescott, and is surrounded by agricultural land, residential properties and a small number of industrial sites.

The site comprises several buildings that are not currently in operational use for production but are used to store various types of waste from Sterling Ink UK Ltd.'s other operational site. The site area is level in relation to the adjacent road (Photo 1).

The site is approximately rectangular in shape aligned NNE/SSW, with the total site area covering approximately 0.7 hectares and is shown on Figure 1.0 below.



Figure 1.0: Site Location Plan (source: Landmark)

Access to the site is via an old locked gate in the southern end of the site (Photo 1), set back approximately 19 m from the site boundary and the adjacent Netherley Road.

The site comprises three adjoining (1,300 m²) buildings (Photo 2), a lean-to (Photo 3), an open covered storage area (Photo 4) and a closed storage area (Photo 5), all of which are situated in the north-east of the site.

The most northern building of the three is currently unoccupied and access was not granted due to health and safety issues. The external brickwork of the building is in poor condition and roof drainage pipes are missing as shown in Photo 3.

The middle building (Photo 6) currently is housing waste products and raw materials from Sterling Inks UK Ltd and is locked when not in use. It was reported that a fire occurred within this building causing damage to the adjoined buildings and resulting in redevelopment to its current state. ACM's, specifically asbestos containing roofing material, was known to have been spread across the site during this incident. The structure of the building and roof appear in good condition (Photo 7). Various types of waste including open and closed drums of varying size and chemical content (Photos 8-11, 14), multiple IBC's (Photos 11-14) and generic business waste (Photo 8, 10, 12, 14) such as wooden pallets, cardboard, plastic, office furniture etc. The concrete floor is subjected to noticeable ink spillages as shown in Photos 9, 11, and 15, however there are no floor drains or visible cracks in the joints observed (Photo 15). The

following CLP hazard pictograms were identified on multiple drums and IBC's: flammable, corrosive, health hazard, and hazardous to the environment.

The most southern building of the three once occupied the labs, office and toilets and is currently accessible and used to store waste (Photo 16-17). The old tiled floor is free of noticeable spillages and floor drains. The flat roof towards the west of this building is damaged as shown from internally in Photo 18.

The south-east of the site is tarmac (Photos 19-22), one potential borehole from either the Phase 2 or 3 previously conducted (Photo 22) and a manhole at the south-east corner of the three large buildings is observed (Photo 21). The area is not utilised for waste by Sterling Inks UK Ltd however is often subjected to fly-tipping.

The southern boundary is not defined by any fencing, trees or hedge line. In the south-east of the site there is a metal fence set back approximately 10 m from the road (Photo 23).

The eastern boundary is defined by a tree line with a small amount of metal fencing in the southern section, views into the neighbouring field can be seen (Photo 24). There is approximately 10 m between the east boundary and buildings however this area could not be accessed due heavy rainfall as shown in Photo 25. Numerous IBCs (couldn't access to see chemical contents) and general household waste that is potentially fly-tipped are located here (Photo 25).

The northern boundary is not defined by a fence, tree or hedge line and views into the field and protected woodlands can be seen (Photo 26). Recent and ongoing heavy rainfall blocked access to the entire north boundary due to large excess of surface water. From our limited view it is observed that a bund defines at least the western half of the northern boundary, fuel is visible in the surface water (Photo 27). Whilst it was not a significant amount of visible fuel and therefore likely to be run-off from the carpark. The north-east of the site was also not able to be accessed for the same reason.

The north and north-west of the site is subjected to fly-tipping (tyres, general household waste etc., Photo 27 and 28) and waste assumed to be associated with Sterling Inks UK Ltd (Photo 29). A bunded area, approximately 100 m², contains surface water polluted with ink/dye and visibly stores 20 IBC's and several chemical storage drums (Photo 30 and 31). Access was limited therefore contents within these chemical containers could not be assessed.

The western boundary is adjacent to woodland (no definitive boundary line, Photo 30) and a neighbouring property (wooden fence and concrete wall, Photo 32 and 33). Within 10 m of the bunded area aforementioned, along the western boundary, there is numerous types of waste including potentially fly-tipped household waste and industrial waste as shown in Photo 34 and 35. An asbestos roof sheet (Photo 35 and 36), approximately seven IBC's (Photo 34) and two green fuel tanks (Photo 37) are

located amongst the waste. The IBC's and fuel tanks appeared upright, their contents if any could not be determined due to lack of access via the piles of waste.

There is a second mostly bunded area adjacent to the concrete wall (western boundary) and its surface water is noticeably polluted with ink associated with the company's industrial waste (Photo 38). Within and surrounding the bund is various waste types including: blue drums, IBC's, wooden pallets, plastic waste and potential MDF boards as shown in Photo 38, 39 and 40. No identification of chemicals presently/previously stored in the drums and IBCs due to lack of access and unreadable labels (Photo 41).

The south-west area of the site includes the gated entrance, this area contained excessive surface water at the time of the site visit (Photo 42), and is subject to fly-tipped waste and industrial waste presumably from Sterling Inks UK Ltd. The area is primarily filled with chopped down trees (unknown source) and its associated wood waste as shown in Photo 43. Potential MDF boards (Photo 44), a skip with unknown contents in the bottom (Photo 45), vehicle tyres (Photo 46), IBC's with unknown chemical contents (Photo 47 and 48), wood chip piles (Photo 47) and stagnant water (Photo 48) are located in this area.

Outside the three large adjoining buildings are several drum chemical storage and IBCs (Photo 49) with clear ink spillages in the vicinity and visible in nearby surface water (Photo 50). The open roofed storage is housing more industrial waste (Photo 52) and numerous drums with readable labels are located directly outside the storage area as shown in Photo 53. Aside from the tarmac area in the south-west of the site, the rest of the site that could be accessed/seen is concrete, a manhole is located next the two external storage areas (Photo 54) and in the SE of the site as previously stated. The roofed storage area contains industrial waste including tyres, containers, disused door and windows alongside other litter (Photo 55).

4.0 Site History

A review of the site history has been undertaken in order to identify previous potentially significant contaminative uses located on site or in the surrounding area. Potential on site sources of contamination may present a risk to future users of the site, and also to off-site receptors, potentially including controlled waters.

The history of the site is recorded over selected periods by inspected maps, copies of which are presented in Appendix 3. The account presented below in Table 4.1 is restricted by the specific time periods represented by these maps only.

Table 4.1: Details of historic site use

Dates	On Site Use	Off-Site Uses	Potential For Contamination To Affect The Site
1849-1850	No current uses on site.	Two sandstone quarries within +1000 m N and SE. Tarbock Brewery 160 m W, Brick Wall Inn 70 m SW, Tarbock Hall (and moat) 500 m NE. Four farms (clear properties) are situated within 1000 m of the site. Potentially infilled land – water (pond) 35 m SE in adjacent field. Dog Clog Brook (N) flowing east to west approximately 340 m at its closest point. Around 1000 m SW from site this brook changes to Mill Brook and flows SW for approximately 660 m. The brook changes flow to SE and is named Netherley Brook. Ochre Brook and Dog Clog Brook confluence 385 m NNW. Unnamed watercourse east of the site, flowing W to E until Tarbock Green village junction then flowing SW along field boundaries, and approximately 160 m at its closest. Mixed wood (Brick wall Covert) bordering site boundary and deciduous wood (The Coppice) 120 m north-east of site.	Potential for spoil from continued use of the quarries. Potential contaminants from construction of the brewery and its associated industrial activities. Keep a watching brief regarding materials from this industry being spread.
1894	No visible changes to site use.	There was a Dry Pit to the north-west, no longer identifiable. Well-defined dwellings in Tarbock Green village. Additional properties at Green Bridge Farm, 670 m SW. Brick Wall Covert boundary change to 10 m W from site boundary and 5 ponds shown in the mixed wood.	No additional impact to the site.
1907-1908	No visible changes to site use.	Two new residential developments approximately 170 m NE and 180 m E.	Potential impact from construction of residential dwellings in the local vicinity.
1928	No visible changes to site use.	Tarbock Cottage 130 m W. Tarbock Brewery renamed to Tarbock Farm and additional structure(s) built. Residential development at Tarbock Hall, Green Bridge Farm and Wood Lane Farm. New watercourse from Wood Lane Farm flowing east to west, two confluences with new watercourses: 550 m SE from site flowing south and 410 m SW flowing south west from Tarbock Green T-junction. New watercourse flowing north to south, 870 m NW, another flowing west to east approximately 60 m NE of the site. Pond in The Coppice 275 m N.	Potential impact from construction of residential dwelling (Tarbock Cottage) and other residential developments in the local vicinity. Potential contaminants from further construction at Brewery Farm and its associated industrial activities. Keep a watching brief regarding materials from this industry being spread.

Dates	On Site Use	Off-Site Uses	Potential For Contamination To Affect The Site
1938	No visible changes to site use.	Neighbouring property built approximately 5 m W of the site boundary. Tarbock Church Hall built 300 m SE from site.	Potential impact from construction of residential dwelling, and deposited wastes (including asbestos given the age of the building) due to its proximity.
1955-1956	Five structures appear on site. Unknown occupancy, inactive registered trading companies include: Rotoflex Ltd (to become Sterling Inks UK Ltd) and R&B Roadtank Repairers Ltd.	New residential structure(s) at Brunt Boggart, Tarbock Hall and Dye House Farm.	Potential impact from construction of residential dwellings in the local vicinity. Potential for unknown material (including asbestos given the age of the building) to be transported onto site during construction of structures.
1959	Twelve structures shown on site, primarily in the NW and NE/centre of site. Some of which may be connected to make up larger structures/buildings. Field boundary along sites eastern boundary is now defined.	No visible changes to off-site use.	Potential for unknown material (including asbestos) to be transported onto site during construction of additional structures.
1967	Redevelopment as structures now shown as three in the same location on site as above.	Three new structures in the field adjacent to east boundary, 40 m at its closest point. Residential developments at 290 m NW, 270 m NE and 720 m SW. Two additional drains to watercourse 660 m NE and 550 m SE.	Potential unknown material (including asbestos) from demolition of structures on site and subsequent reconstruction. Potential impact and deposited materials from construction of structures in the adjacent fields due to its proximity. Potential impact from construction of residential dwellings in the local vicinity.

Dates	On Site Use	Off-Site Uses	Potential For Contamination To Affect The Site
1974-1977	No visible changes to site use.	Presumably residential dwellings built 30 m SW, 350 m SW and five within 230-260 m NW. Brewery farm approximately doubled in structural size, 150 m NW. Pumping station 460 m NE. Large residential estate built approximately 830 m SWW. Mill Bridge by-pass built 850 m NW.	Potential impact from construction of residential dwellings and other residential developments in the local vicinity. Potential for deposited wastes from construction of housing estate but source is too far to be considered.
1990	No visible changes to site use.	Redevelopment of structures in field adjacent to west boundary of site, approximately 20 m at its closest. Riding School identified approximately 300 m NE. Demolishment of structures at Brewery Farm with three left remaining, 150 m W. Several structures built: 90 m SW, 510 m SWW and 880 m NWW. Nine new small bodies of water within 1000 m all presumed to be ponds (potentially infilled land – water).	Potential impact and deposited materials from redevelopment of structures in the adjacent fields due to its proximity. Potential impact from demolition of structures at Brewery Farm.
1999	Demolition of smaller structures in NW and S of site.	Construction of A5300 (Knowsley Expressway) from north of the site to south east and approximately 560 m at its closest.	Potential unknown material (including asbestos) from demolition of structures on site. Potential impact from construction of A5300 however not considered to be a large impact due to the date of construction.
2006	No visible changes to site use.	Redevelopment at Brewery Farm. Addition drain to watercourse 860 m E.	Potential impact from redevelopment and associated construction at Brewery Farm.
2020	No visible changes to site use.	Several new small waterbodies within 1000 m all presumed to be pond.	Potential unknown materials from current fly-tipped waste on site.

In summary, the Ordnance Survey historical mapping reveals that the site is located within a predominately rural area comprised of agricultural land, farm buildings and numerous residential dwellings in Tarbock Green village. The area surrounding the site undergoes minimal industrial/residential change in this time aside from expanding farms, several new dwellings. In 1999 the A5300 is constructed stretching from the north to the south-east of site, approximately 560 m at its closest.

The historic mapping shows five structures on site from 1955 and increased to twelve by 1959. In 1969 the sites structures are redeveloped into what appears to be today's current set-up of three large adjoining buildings aligned NNE/SSW. The historical on-site use could not be determined to specific dates, but it is known to have occupied R

& B Roadtank Repairers Ltd until 1993. Sterling Inks UK Ltd, once called Rotoflex Ltd, also occupied the site as a production facility.

5.0 Geology, Hydrogeology and Hydrology

An Envirocheck geology report is presented in Appendix 2. The Envirocheck reports no made ground in the vicinity of the site.

The natural deposits beneath the site are superficial sedimentary deposits of Devensian Till underlain by solid geology of sandstone of the Wilmslow Sandstone Formation.

The wider area is primarily Devensian Till with areas of Alluvium, consisting of clay, silt, sand and gravel around certain watercourses to the N, W and SW of the site. The wider area is underlain by Wilmslow Sandstone Formation and Kinnerton Sandstone Formation divided by faulting with a NW/SE alignment, approximately 119 m at its closest point. The area to the right of the fault line aforementioned is Kinnerton Sandstone Formation and has four faulting's of either NW/SE or N/S alignment within this area.

The British Geological Survey (BGS) have estimated background soil chemistry for the site, based on recorded background data. The estimated soil chemistry for the site is presented in Table 5.1 below. Anthropogenic deposits are likely to differ from this.

Table 5.1: BGS on-site estimated background soil chemistry

Determinand	Estimated concentration (mg/kg)
Arsenic	<15
Cadmium	<1.8
Chromium	90 - 120
Nickel	15 - 30
Lead	<100

The site is within a lower probability Radon Affected Area, as <1% of homes are above the action level. No radon protection measures are required in the construction of new dwellings or extensions.

The Envirocheck mapping database shows no active surface or underground workings recorded within 1,000 m of the study site. There are no sites of historic surface workings within 1,000 m of the site:

The on-site risks for of natural subsidence are presented in Table 5.2 below.

Table 5.2: Summary of Ground Stability Hazard Potential

Hazard	Moderate	Low	Very Low	No Hazard
Collapsible Ground			X	
Compressible Ground				X
Ground Dissolution				X
Landslides			X	
Running Sands			X	
Shrinking or Swelling Clay			X	

The bedrock deposits are described as Principal aquifer, these are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.

The superficial Till deposits are classified as Secondary Undifferentiated strata.

The nearest surface water feature is a pond located approximately 40 m east of the site. The nearest visible surface water feature is Dog Clog Brook, at its nearest located 340 m north of the site, flowing from east to west.

There are fourteen discharge consents located within 1,000 m of the site:

- Martin James (WWTW, sewage discharge - final treated effluent), Trib Greensbridge Lane Bk, 120 m W.
- Mrs I. Langton (WWTW, sewage discharge - final treated effluent), Greensbridge Lane Brook, 150 m SE.
- John Higgins (Domestic property, sewage discharge - final treated effluent), Greensbridge Lane Brook, 175 m E.
- Mr Darbyshire (Domestic property, sewage discharge - final treated effluent), Greensbridge Brook, 190 m SE.
- Mr Alfred Terence Worthington (Multiple domestic property, sewage discharge – final treated effluent), Unnamed Trib. Stonehaugh Bk, 195 m W.
- Mr Eric Mahoney (Multiple domestic property, sewage discharge – final treated effluent), Unnamed Trib. Stonehaugh Bk, 195 m W.
- Nicholas & Diane Jones (Domestic property, sewage discharge - final treated effluent), Stoneclough Bk, 240 m SE.
- Mrs Sandra Jean Pyne (Domestic property, sewage discharge - final treated effluent), Drain to Stone Hough Brook, 270 m W.
- Brian Funston (Multiple domestic property, sewage discharge – final treated effluent), Drain to Stone Hough Brook, 280 m W.
- Derek Boyles (Multiple domestic property, sewage discharge – final treated effluent), Drain to Stone Hough Brook, 280 m W.
- Park Farm (WWTW, sewage discharge - final treated effluent), Trib Greensbridge Lane Bk, 390 m NW.
- Mr T. H. Critchley (Farms, sewage discharge – final treated effluent), Ochre Bk, 445 m N.

- Belpool Developments Limited (Multiple domestic property, sewage discharge – final treated effluent), Sur Water Drain to Ochre Brook, 550 m NW.
- Greensbridge Farm (Multiple domestic property, sewage discharge – final treated effluent), Stonehaugh Brook T. Ditton Bk, 640 m SW.

The site is located within a Zone II and III Source Protection Zone for a public water supply.

There is one active groundwater abstraction licence within 1,000 m of the site:

- United Utilities Water Ltd/PLC (Public water supply), 460 m NE.

There are two active surface water abstraction licences within 1,000 m of the site:

- T & O Harrison (Agricultural spray irrigation), 515 m NE.
- Belpool Developments Ltd (General agriculture: spray irrigation), 920 m N.

6.0 Key Environmental Considerations

The Envirocheck report contains a summary of statutory data held in public registers, identifying potential sources of contamination surrounding the site and also environmentally sensitive receptors within the vicinity of the site. A copy of the Envirocheck report is presented in Appendix 2, and the salient information is summarised below.

Environmental Permits, Incidents and Registers

There are no Contaminated Land Register Notices within 1,000 m of the site.

There are no Integrated Pollution Prevention and Control permitted activities within 1,000 m of the site.

There are two Local Authority Pollution Prevention and Control permitted activities or enforcements within 1,000 m of the site.

- Woodend, Air pollution control enforcement notice (section 13 enforcement and second notice), 0 m E and NE.

There are no other Integrated Pollution Control or Integrated Pollution Prevention and Control Authorisations, LAPPC Controls or Enforcement Notices or any other environmental permits and/or authorisations within 1,000 m of the site.

There are no Control of Major Accident Hazard and no Notification of Installations Handling Hazardous Substances sites within 1,000 m.

There is one Pollution Incidents to Controlled Waters within 500 m of the site:

- Unknown Location, Misc., Category 3 (minor), 375 m NE.

There are a further seven Pollution Incidents to Controlled Waters within 1,000 m of the site, one of which is a Category 2 (significant) listed below and the others are Category 3 (minor):

- Unknown Location, Oils – Diesel (including agricultural), Category 2 (significant), 710 m E.

Landfills and Other Waste Sites

There is no historic landfill site within 500 m of the site:

There is one historic landfill within 1,000 m of the site.

- Greens Bridge Farm, EAHLD16925, 645 m S.

There are two active licensed waste management facilities within 1,000 m of the site:

- Eric Langton and Janet Langton (Composting), 70 SE.
- Mr & Mrs Langton (Composting), 100 m E.

There is one Local Authority recorded Landfill site within 1,000 m of the site:

- Greens Bridge Farm, Types of Waste not supplied, 765 m SW.

There is one Registered Landfill Site within 1,000 m of the site:

- W F Doyle & Co Ltd (inert), 855 m S.

There is one Registered Waste Transfer Site within 500 m of the site:

- Mr & Mrs Langton (authorised waste: leaves, grasses, manure, organic veg. matter, uncontaminated soil), 100 m E.

There is one Potentially Infilled Land Site (Non-water) within 1,000 m of the site:

- Unknown Filled Ground (Pit, quarry etc.), 780 m NW.

There are seven Potentially Infilled Land Sites (Water) within 500 m of the site:

- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 25 m NW.
- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 150 m NW.
- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 270 m E.
- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 290 m W.
- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 430 m SW.
- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 470 m NE.
- Unknown Filled Ground (Pond, marsh, river, stream, dock etc.), 490 m N.

There are a further seventeen Potentially Infilled Land Sites (Water) within 1,000 m of the site.

Current Land Uses

There are two currently active potentially contaminative industrial sites within 1,000 m of the site:

- Rotoflex Ltd (Sterling Inks UK Ltd), 0 m, NE.
- Instant Pest Solutions (pest & vermin control), 783 m NE.

There are three currently inactive potentially contaminative industrial sites within 1,000 m of the site:

- R & B Roadtank Repairers Ltd (commercial vehicle servicing, repair, parts & accessories), 0 m, NE.
- K G B Skip Hire (chemical recycling & disposal services), 175 m E.
- Radial Ltd (electrical engineers), 760 m NE.

There are no active fuel stations within 1,000 m of the site:

Flooding

The site is not located on an Environment Agency indicative floodplain and is not within 500 m of any flood defences or in an area used for flood storage.

The site is located within Flood Zone 1 with the nearest area of Zone 2 and 3 along Dog Clog Brook, flowing east to west to the north of site.

There is a low risk of surface water flooding along Netherley Road and low to high risk in the adjacent property and Brick Wall Covert, to the west of the site.

The site is subject to limited groundwater flooding. It is recommended that the risk from flooding (including groundwater flooding) will need to be investigated.

Designated Environmentally Sensitive Sites

There is an area of adopted green belt as designated by Knowsley Metropolitan Borough Council located on the site.

There are two additional areas of adopted green belt as designated by Liverpool City Council approximately 605 m W.

There is also a Nitrate Vulnerable Zone within 1000 m of the site.

The site is situated in the buffer zone of the SSSI Impact Risk Zone for the River Mersey Estuary. We are not aware of any other sites with a conservation designation within 1,000 m of the site.

7.0 Preliminary Conceptual Model

7.1 Introduction

A **Site Conceptual Model** is a simplified representation of the ground conditions beneath the site that enables a qualitative risk assessment to be carried out. The Site Conceptual Model identifies the potential sources of contamination, the potential contaminant migration pathways and the potential receptors of contamination.

Sources of contamination include contaminating current or historical uses, activities, events or substances at the site or within the surrounding area that may impact on underlying soils or groundwater.

Contaminant Migration Pathways are the routes that contaminants follow from sources to receptors.

Receptors of contamination include human and non-human organisms, controlled waters (groundwater or surface water) and building materials (concrete or plastic) that experience adverse effects on exposure to contaminated materials.

A **Pollutant Linkage** occurs when a contaminant is able to travel from a source, via a pathway, to a receptor. Each element may exist in isolation and pose no environmental risk. It is only when all three elements are linked to each other that a pollutant linkage exists and poses an environmental risk.

7.2 Site Model

Based on the findings of the Peak Associates desk top study and site walkover survey, a preliminary conceptual model for the site has been produced, which identifies the potentially significant sources of contamination, the principal receptors for the contamination and the available pathways through which contamination may reach the receptors.

Table 7.1 Site Model

Potential Source	Pathways	Receptors	Comments	Risk
Potential contamination from construction of A5300	Ingestion, dermal contact.	Construction workers, future site occupants.	Low susceptibility due to distance from site and age of construction.	Very Low
	Migration through soils to groundwater.	Principal aquifer.	Significant impact is unlikely.	Very Low.
Potential ACMs from neighbouring properties, on-site structures (built between 1930-1980) and modern fly-tipping.	Ingestion, dermal contact, inhalation.	Construction workers, future site occupants.	Visible asbestos sheets identified during site walkover need to be removed using appropriate PPE and methods statement. The previous phase 3 investigation determined chrysotile (white asbestos) in shallow soil samples. It was recommended that the site layout is designed for ACS's to be left in situ (capped and covered) otherwise shallow soil contaminated with asbestos fibres must be removed in accordance with CAR 2012.	Medium
Potential contamination from historic construction of dwellings and farm buildings in the local area.	Underlying soils.	Principal aquifer (underlying groundwater), fauna and vegetation.	Keep a watching brief during construction for indications of deleterious materials.	Low

Potential Source	Pathways	Receptors	Comments	Risk
Potential contamination from local land use, including agricultural and historical.	Ingestion, dermal contact, inhalation.	Construction workers, future site occupants.	Potential historic use of pesticides and herbicides on site as was historically a field, however significant impact is unlikely due to how long ago the site was last used as a field. Given the local industries are no longer active there is an unlikely significant impact. Keep a watching brief during construction for deleterious materials or contaminated land.	Low
	Migration through soils to groundwater.	Principal aquifer.	No historical record of use of site for farming so likely that minimal agricultural chemicals used on the field. Significant impact unlikely given distance from site and inactivity of historical businesses. Keep a watching brief during construction for deleterious materials or contaminated land.	Low
Potential contamination from active industries in the local area, including waste management facilities.	Surface water.	Fauna and vegetation, construction workers, future site occupants.	Given the only active industry is approximately 800 m this is unlikely to be a signification risk. Waste management facility is less than 100 m away but only accepts green waste (leaves, grass, soil etc). Unlike impact as low risk of surface water. Keep a watching brief during storm events for excessive surface water.	Low
	Ingestion, dermal contact, inhalation.	Construction workers, future site occupants.	Significant impact unlikely given distance from site. Keep a watching brief during construction for contaminants.	Low
	Migration through soils to groundwater.	Principal aquifer.	Significant impact unlikely given distance from site, closest waste management facility only accepts green waste. Keep a watching brief during construction for contaminants.	Low
Potential hydrocarbon contamination from historic fuel storage on site leaking (R & B Roadtank Repairers Ltd, 1994).	Surface water.	Fauna and vegetation, construction workers, future site occupants.	Fuel in surface water unlikely to be from this historic source as the company moved location in 1993. Significant impact unlikely as suspected to be run-off from car parked on site. Keep a watching brief during removal of surface water for indications of hydrocarbon source.	Low

Potential Source	Pathways	Receptors	Comments	Risk
	Ingestion, dermal contact, inhalation.	Construction workers, future site occupants.	Known underground historic fuel tanks. Phase 2 and 3 indicated locations of elevated hydrocarbons, PAHs, BaP and VOCs. Ground gas survey for VOCs and CO ₂ (degradation product of hydrocarbons) recommend and remediation to include removal of impacted soils. Made ground containing PAH to be removed from garden areas and disposed of appropriately off site.	Medium
	Migration through soils to groundwater.	Principal aquifer.	Possible migration in to soils likely from historic fuel storage. This was confirmed by the sampling undertaken in the Phase 2 and 3 investigations and certain locations identified. Trench excavation and removal of shallow groundwater is recommended until acceptable concentrations are attained.	Medium
Potential for contamination from previous operations and current storage of chemicals (Rotoflex Ltd then Sterling Inks UK Ltd).	Surface water.	Fauna and vegetation, construction workers, future site occupants.	Low risk of surface water in area but site subjected to surface water particular in bunded areas during events of heavy rainfall. Use appropriate PPE and methods statement when handling surface water, appropriate removal of contaminated surface water required before construction.	Medium
	Ingestion, dermal contact, inhalation.	Construction workers, future site occupants.	Use appropriate PPE and methods statement when clearing current housed waste from site for construction. Trace solvent concentrations identified in previous phase 2 and 3 therefore design of floor slabs with vapour barriers and passive venting is likely required. Trace concentrations of copper, lead and zinc determined if these areas are planned to be gardens, they will need to be capped and topsoil brought in.	Medium
	Migration through soils to groundwater.	Principal aquifer.	Site primarily concrete with bunded areas (excessive surface water seen to mostly collect here on-site visit) and minimal cracks/joints. Therefore, unlikely that current on-site contaminants will permeate via hardstanding cracks/joints to soil and groundwater. Keep a watching brief.	Low

8.0 Conclusions and Recommendations

This assessment has identified several medium risks of contamination on or beneath the site originating from former activities on and off the site and current materials storage on site. These sources include:

- Potential for contamination from previous operations and current storage of chemicals by Rotoflex Ltd and Sterling Inks UK Ltd).
- Potential hydrocarbon contamination from historic fuel storage on site by R & B Roadtank Repairers Ltd, as well as known underground fuel storage tanks.
- Potential ACMs from neighbouring properties, old on-site structures (built between 1930-1980), industrial and fly-tipped waste.

The extent of asbestos containing materials (ACMs) on site is to be determined. Cement bound asbestos roofing sheets was identified in the north-west of the site amongst piles of mixed waste (industrial, household, fly-tipped etc), this should be covered until appropriate removal to prevent dispersal of fibres. It is known that there was previously a fire in the middle building which had an asbestos cement roof, this likely resulted in the release of fibres as the roof was damaged. The former Phase 3 report identified Chrysotile (white asbestos) in two of the ten soil samples, these are likely from demolition wastes used as a subbase for the concrete slabs or resulting from the fire. Asbestos cements sheets are firmly bound ACMs do not release fibres as easily as friable ACMs, unless crushed, as they take longer to degrade and therefore there is a lower risk of fibres becoming airborne. The asbestos fibres found appeared to be localised to the centre/SW of the site and it was recommended that ACM found remains in situ with a capping layer (or covered) in accordance to the current CIRIA C733 guidance.

It is recommended that a survey of the buildings is undertaken by an asbestos specialist, and a watching brief for any Asbestos Containing Materials (ACMs) is in place during demolition of buildings. Prior to any construction works it is recommended that upon removal of the concrete hardstanding and foundations a watching brief is also undertaken. Given the nature and age of the site it is expected that some of the subbase beneath foundations and concrete hardstanding will be material from demolition of previous buildings and structures on site. Given this expectation it would be recommended that a sampling survey is undertaken across the site to determine where any natural or made ground can be reused across the site, and what capping measures may be required. This recommendation is made in accordance to the Control of Asbestos Regulations (CAR) 2012 and Healthy and Safety Executive. Due to the age and extensive use of concrete it is expected that any contamination would be from historic fill, or from contaminants mobilised from the surface during removal of the concrete. As such it is recommended that the site is cleared prior to removal of concrete.

The site is currently occupied by various types of waste including household items, wooden pallets, other wood waste and general waste from fly tippers. These waste types are heavily integrated with industrial waste of known and unknown chemical

content, and appropriate PPE should be worn during their removal from site. IBC and chemical storage drums of known contents should be removed off site and disposed of appropriately according to the recommended method on the associated safety data sheet. If chemical of unknown contents is encountered the appropriate hazardous waste removal companies should be appointed.

At current, approximately two thirds of the external site surface is concrete hardstanding with the remaining tarmac (NW corner of site). The floor slabs in two of the three accessible building appeared in good condition. Both internal and external flooring had minimal visible cracks/joints and no floor drains observed, based on this and its impermeable nature it is suspected that current pollutants are relatively retained above ground. However, the site comprised visible spillages of waste chemicals stored on site, including pollution of surface water primarily within bunded areas. Given the volume of the surface water due to ongoing heavy rainfall it is assumed that the bunded areas remain intact as far as could be ascertained during the walkover. In such case, appropriate PPE and method statements are to be used during its removal, and an approved contractor appointed. As stated above, the sites waste needs to be cleared prior to removal of the concrete hardstanding. During this a watching brief for any further evidence of potential contaminants is required and it is recommended that a survey of the site is undertaken following its removal.

Given the history of the site there is a high potential for hydrocarbons present, and or other contaminants associated with the activities of R & B Roadtank Repairers Ltd, on site. It is known that four underground storage tanks are located underneath the car park area as shown in Plan 1. It was reported (but not yet supported by evidence) that these were filled with cement-based slurry in 1986 and that the tanks were last used pre-1984. Previous sampling on the site identified elevated concentrations in four samples of which two were groundwater samples and it was recommended that a trench is excavated to collect impacted groundwater and removal off site until acceptable concentrations are attained. Whilst these contaminants were previously attributed to the former underground storage tanks in the SE of site, it has since been understood that tankers may have been emptied in the SW of the site which corresponds to the location of the sampling with elevated concentrations. In addition to the disposal of impacted groundwater, the disposal of impacted soils should be undertaken and a watching brief for any further evidence of hydrocarbons and other pollutants is required.

Furthermore, three isolated phytotoxic concentrations of copper, zinc and lead were previously. If the area whereby these contaminants were found are within planned garden or planting areas, it was recommended that topsoil is brought into a sufficient depth (typically 0.6m). If such recommendation is carried out it is unlikely that these phytotoxic concentrations will affect the growth of plants. Whilst trace concentrations of solvents were identified in the Phase 2 report, they were not in the Phase 3 investigation. However, since BTEX and VOCs were present in certain samples, a ground gas survey is recommended, and the design of floor should consist of vapour barriers and passive venting. Once remediation work is undertaken, validation

sampling is required to ensure acceptable concentrations of pollutants prior to construction work.

A summary of the recommendations is as follows. Demolishment of any current buildings or structures on site should be undertaken and the site cleared prior to removal of the concrete and tarmac hardstanding. Following the removal of the hardstanding, further sampling should be undertaken to quantify the extent of asbestos fibres and other contaminants. Depending on the results attained from such sampling a review of the recommended remediation work, as proposed in the Phase 3 report (QA15036) and highlighted above, should be carried out. As a watching brief has been recommended the watching brief guide has been included as Appendix 4.

Plans

NOTES

- 1. DO NOT SCALE.
- 2. This drawing is to be read in conjunction with all other relevant drawings.
- 3. All boundaries are approximate.

KEY

 WS01

Approximate location of borehole.



Site boundary.



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DESCRIPTION	REV	DATE	DRN	PM
-------------	-----	------	-----	----



CLIENT
Sterling Colours Limited

PLAN NO.
Plan 2

PLAN TITLE
Approximate borehole location plan.

DRAWN	PS	PROJECT MANAGER	JM
CHECKED	JM	APPROVED	JM
DATE	1 July 2015	SCALE	1:500 @ A3
DRAWING NUMBER	657/002	REVISION	-

Appendix 1:

Site Photos



Photo 1: View from the south of the site (looking S) showing gated entrance and the adjacent Netherley Road.



Photo 2: View of three adjoining buildings, from the centre of the site looking NE.



Photo 3: View of lean-to adjoining large building (looking NE), showing poor condition of brickwork.



Photo 4: View of open, roofed storage area (looking NE) showing the middle and most northern building in the background.



Photo 5: View of closed storage area from the centre of site looking E.



Photo 6: View of middle building, looking to the east of the site.



Photo 7: View of internal roof of the middle building.



Photo 8: View of inside the middle building (looking E), showing chemical storage drums and other waste.



Photo 9: Northern wall of inside the middle building, showing chemical storage drums and noticeable spillages on the floor.



Photo 10: Northern wall of inside the middle building, showing chemical storage drums and generic business waste.



Photo 11: Southern wall of inside the middle building, showing chemical storage drums/IBC and noticeable spillages on the floor.



Photo 12: North-west corner of inside the middle building, showing IBCs and other waste.



Photo 13: Western wall of inside the middle building, showing IBCs containing chemical waste.



Photo 14: View of IBC, chemical storage drums, cardboard and wood waste.



Photo 15: Floor of middle building showing spillages and floor joints.



Photo 16: View of unoccupied laboratory in the most southerly building.



Photo 17: View of unoccupied office room in the most southerly building.



Photo 18: View of damaged roof in the west area of the most southerly building.



Photo 19: View of most south building and tarmac area to the south of it (taken from SE looking N).



Photo 20: View of most south building and tarmac area to the south of it (taken from SE looking NW), also showing view over eastern boundary).



Photo 21: View of tarmac, south boundary of site and entrance (taken from SE looking SW).



Photo 22: View of potential borehole from prior Phase 2 and 3 investigations (taken in SE of site).



Photo 23: Fencing set 10 m back from south boundary line (taken from SE of site looking S).



Photo 24: View over eastern boundary line taken from SE of site.



Photo 25: View between buildings and east boundary showing waste.



Photo 26: View of north-east of site, showing field and woodland adjacent to north boundary.



Photo 27: View of fuel contaminated surface water, taken from NW of site looking NW.



Photo 28: Visible waste in the north of the site.



Photo 29: Blue drums located in NW of site.



Photo 30: Bunded area in NW of site (looking across west boundary) showing polluted surface water and IBC's.



Photo 31: Bunded area in NW of site (looking across north boundary) showing polluted surface water and IBC's.



Photo 32: View of southern section of west boundary showing neighbouring property and wooden fence (looking W).



Photo 33: View of middle section of west boundary showing wooden fence and concrete wall (looking W).



Photo 34: View of various types of waste along northern section of west boundary (looking W).



Photo 35: View of various types of waste along northern section of west boundary (looking W), including asbestos sheet.



Photo 36: Close-up view of asbestos sheet found in NW of site.



Photo 37: Close-up view of fuel tank located in NW of site.



Photo 38: View of bunded area in W of site, showing polluted surface water and various waste types (looking SW).



Photo 39: View of bunded area in W of site, showing various waste types (looking W).



Photo 40: View of area surrounding bund in W of site, showing various waste types (looking SW).



Photo 41: Close-up of blue chemical storage drum in bunded area in W of site, showing unknown contents due to poor condition label.



Photo 42: View of SW of site showing gated entrance and surface water (looking W).



Photo 43: View of SW of site showing wood waste and concrete floor (looking SW).



Photo 44: Close-up view of potential MDF boards in SW of site (looking S).



Photo 45: View of skip, and wood waste in SW of site (looking W).



Photo 46: View of NW of site showing vehicle tyre and IBC (looking W).



Photo 47: View of IBC's and wood chip pile in SW of site (looking W).



Photo 48: View of IBC's and stagnant surface water in SW of site (looking W).



Photo 49: View of IBC's and chemical drum storage outside buildings and associated spillage on concrete floor (looking E).



Photo 50: View of ink within surface water on site, approximate location is outside the most southern large building.



Photo 51: Visible fuel within surface water on site, approximate location is outside the middle large building.



Photo 52: View of waste stored in the open roofed storage are shown in Photo 4.



Photo 53: View of waste next to open roofed storage area shown in Photo 4.



Photo 54: View of manhole next to roofed storage area in N of site.



Photo 55: View inside of roofed storage area showing various types of waste.

Appendix 2:

Landmark Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

236322359_1_1

Customer Reference:

SCT

National Grid Reference:

346250, 387640

Slice:

A

Site Area (Ha):

0.7

Search Buffer (m):

1000

Site Details:

Sterling Inks UK, Woodend
Netherley Road
TARBOCK GREEN
L35 1QE

Client Details:

Mr M Matthews
Peak Associates
38 Padgate Lane
Warrington
Cheshire
WA1 3RU

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	25
Hazardous Substances	-
Geological	28
Industrial Land Use	30
Sensitive Land Use	32
Data Currency	33
Data Suppliers	38
Useful Contacts	39

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/Natural Resources Wales 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 this 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 v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes			n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		7	5	6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 5	1			
Local Authority Pollution Prevention and Control Enforcements	pg 5	2			
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 6			1	7
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 7			2	1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 7	1			
Water Abstractions	pg 8			3	5 (*22)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 15	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Source Protection Zones	pg 15	2		1	1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 16		3	15	54

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 25				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 25		2		
Local Authority Landfill Coverage	pg 25	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 25				1
Potentially Infilled Land (Non-Water)	pg 25				1
Potentially Infilled Land (Water)	pg 25		2	5	17
Registered Landfill Sites	pg 27				1
Registered Waste Transfer Sites	pg 27		1		
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 28	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 28	Yes		Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 29	Yes	n/a	n/a	n/a
Mining Instability	pg 29	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 29	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 30	3	2		2
Fuel Station Entries					
Points of Interest - Commercial Services	pg 30	1	1		2
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 31	2			6
Points of Interest - Public Infrastructure	pg 31				2
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 32	1			1
Areas of Unadopted Green Belt	pg 32				1
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 32	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	0	1	346252 387639
1	Discharge Consents Operator: Martin James Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Brewery Farm, Netherley Road, Tarbock, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990104 Permit Version: 1 Effective Date: 7th September 1983 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Greensbridge Lane Bk Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (W)	122	2	346100 387700
2	Discharge Consents Operator: Mrs I. Langton Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: 1 Lilac Cottage, Netherley Road, Tarbock Green, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990532 Permit Version: 1 Effective Date: 27th October 1984 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Greensbridge Lane Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	153	2	346400 387500
2	Discharge Consents Operator: Mr Darbyshire Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 2 Barn Cottage Netherley Rd, Tarbock Green, Prescot, Merseyside, L35 1qf Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 0166/285 Permit Version: 1 Effective Date: 2nd June 1966 Issued Date: 2nd June 1966 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Greensbridge Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	188	2	346424 387473
3	Discharge Consents Operator: John Higgins Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Cherry Tree Cottage Water La, Tarbock Green, Prescot, Merseyside, L35 1re Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 01m/187 Permit Version: 1 Effective Date: 29th August 1963 Issued Date: 29th August 1963 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Greensbridge Lane Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13SE (E)	174	2	346470 387620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Mr Alfred Terence Worthington (Breckfield Prop.) Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: The Old Post Office Greenbridge Lane, Tarbock Green, Prescot, Merseyside Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993428 Permit Version: 1 Effective Date: 29th January 2002 Issued Date: 29th January 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib. Stonehaugh Bk Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (W)	194	2	346010 387630
4	Discharge Consents Operator: Mr Eric Mahoney (Breckfield Properties) Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: The Old Post Office Greenbridge Lane, Tarbock Green, Prescot, Merseyside Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993428 Permit Version: 1 Effective Date: 29th January 2002 Issued Date: 29th January 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib. Stonehaugh Bk Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (W)	194	2	346010 387630
5	Discharge Consents Operator: Nicholas & Diane Jones Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Arthog Water La, Tarbock Green, Prescot, Merseyside, L35 1re Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 0174/2441 Permit Version: 1 Effective Date: 1st October 1996 Issued Date: 1st October 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stoneclough Bk Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	243	2	346500 387500
6	Discharge Consents Operator: Mrs Sandra Jean Pyne Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Mole End 1 Greensbridge Lane, Tarbock Green, Prescot, Merseyside, L35 1qh Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993815 Permit Version: 1 Effective Date: 2nd November 2005 Issued Date: 2nd November 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Drain To Stone Hough Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NW (W)	273	2	345938 387670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Brian Funston Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 2a And 3 Greensbridge Lane, Tarbock Green, Prescot, Merseyside, L35 1qh Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993816 Permit Version: 1 Effective Date: 2nd November 2005 Issued Date: 2nd November 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Drain To Stone Hough Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NW (W)	277	2	345933 387669
6	Discharge Consents Operator: Derek Boyles Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 2a And 3 Greensbridge Lane, Tarbock Green, Prescot, Merseyside, L35 1qh Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993816 Permit Version: 1 Effective Date: 2nd November 2005 Issued Date: 2nd November 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Drain To Stone Hough Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NW (W)	277	2	345933 387669
7	Discharge Consents Operator: Park Farm Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Park Farm Stp, Ox Lane, Tarbock Green, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990480 Permit Version: 1 Effective Date: 19th April 1984 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Greensbridge Lane Bk Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	388	2	346060 388040
8	Discharge Consents Operator: Mr. T.H. Critchley Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Tarbock Hall Farm, Tarbock, Prescot, Merseyside, L35 1qa Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 0171/1518 Permit Version: 1 Effective Date: 5th June 1971 Issued Date: 5th June 1971 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ochre Bk Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A18SW (N)	445	2	346150 388130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Belpool Developments Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tarbock Hall Farm Ox Lane, Tarbock, Knowsley, Merseyside, L35 1qa Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993913 Permit Version: 1 Effective Date: 13th August 2007 Issued Date: 7th March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Sur Water Drain To Ochre Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	551	2	346020 388200
10	Discharge Consents Operator: Whiston Rdc Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Greensbridge Lane Stw, Whiston, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01M/1340 Permit Version: 1 Effective Date: 3rd February 1964 Issued Date: Not Supplied Revocation Date: 1st April 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib 69-50-801-30 Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	604	2	345712 387252
10	Discharge Consents Operator: Knowsley Metropolitan Borough Council Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Greensbridge Lane Stp, Greensbridge Lane, Tarbock, Merseyside Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993408 Permit Version: 1 Effective Date: 7th July 2001 Issued Date: 7th July 2001 Revocation Date: 7th July 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stonehaugh Bk (Ditton Bk Trib) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	607	2	345710 387250
10	Discharge Consents Operator: Knowsley Metropolitan Borough Council Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Greensbridge Lane Stp, Greensbridge Lane, Tarbock, Merseyside Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993362 Permit Version: 1 Effective Date: 27th October 1999 Issued Date: 27th October 1999 Revocation Date: 31st December 2000 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stonehaugh Bk (Ditton Bk Trib) Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	607	2	345710 387250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Greensbridge Farm Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Greensbridge Lane Farm (9 Homes) Greensbridge Lane, Tarbock, Knowsley, Merseyside Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993442 Permit Version: 1 Effective Date: 7th May 2002 Issued Date: 7th May 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stonehaugh Brook T. Ditton Bk Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	638	2	345800 387110
12	Discharge Consents Operator: Mr J P Heron Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Alderley Stp Water Lane, Tarbock Green, Near Prescot, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 0165/22 Permit Version: 1 Effective Date: 8th June 1993 Issued Date: Not Supplied Revocation Date: 8th June 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Ditton Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8NW (S)	638	2	346000 387000
13	Prosecutions Relating to Controlled Waters Location: Avis Way Industrial Estate, HAILSHAM, East Sussex, BN27 Prosecution Text: Environment Times Volume 5 Issue 3 (Spring 1999), Allowing chemicals to enter a watercourse at the northern edge of Avis Way Industrial Estate on 22nd January 1998. Prosecution Act: WRA91 Hearing Date: 6th January 1999 Verdict: Guilty Fine: 2000 Cost: 1185 Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	601	2	345739 387222
14	Local Authority Pollution Prevention and Controls Name: Sterling Colours Location: Woodend, Netherley Road, Tarbock Green, PRESCOT, Merseyside, L35 1QE Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B/0993/6.5/1 Dated: 1st September 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/11 Manufacture of printing ink Status: Site Closed Positional Accuracy: Automatically positioned to the address	A13SE (E)	0	3	346274 387635
15	Local Authority Pollution Prevention and Control Enforcements Location: Woodend, Netherley Road, Tarbock Green, PRESCOT, Merseyside, L35 1QE Type: Air Pollution Control Enforcement Notice Reference: B/0993/6.5/1 Date Issued: 21st June 1999 Enforcement Date: Not Supplied Details: Section 13 Enforcement Positional Accuracy: Automatically positioned to the address	A13SE (E)	0	3	346274 387635
15	Local Authority Pollution Prevention and Control Enforcements Location: Woodend, Netherley Road, Tarbock Green, Merseyside, L35 1qe Type: Air Pollution Control Enforcement Notice Reference: 04/02001/EPA Date Issued: 21st June 1999 Enforcement Date: Not Supplied Details: Second Notice Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	0	3	346270 387651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A13NE (E)	42	-	346346 387675
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Millbrook Incident Date: 9th April 1995 Incident Reference: 95740760 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	374	2	346600 387900
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Dog Clogg Brook Incident Date: 4th August 1993 Incident Reference: 93440115 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	511	2	346700 387995
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Dog Clogg Brook Incident Date: 10th April 1995 Incident Reference: 95740768 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	708	2	347000 387800
19	Pollution Incidents to Controlled Waters Property Type: Chemical industry Location: Ditch At Georgesons Farm, Greensbridge Lane Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Water Is Blue Incident Date: 3rd August 1998 Incident Reference: SO981390 Catchment Area: Ditton Brook Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	786	2	345600 387100
20	Pollution Incidents to Controlled Waters Property Type: Chemical industry Location: Netherley Brook, Greennside Lane Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Not Supplied Incident Date: 21st April 1998 Incident Reference: SO980722 Catchment Area: Ditton Brook Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	811	2	345500 387200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Ditton Brook, Merseyside Authority: Environment Agency, North West Region Pollutant: Other Note: Not Supplied Incident Date: 28th July 1999 Incident Reference: 30695 Catchment Area: Ditton Brook (Mill Brook) Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	814	2	345500 387195
21	Pollution Incidents to Controlled Waters Property Type: Manufacturing: Publishing / Printing / Recording Location: Netherley Brook, Off Winster Drive, Merseyside Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Aqueous Note: Not Supplied Incident Date: 20th October 1999 Incident Reference: 33410 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unauthorised Activity : Unconsented Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	908	2	345300 387700
22	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Other Sewage Note: Mill Brook Incident Date: 11th May 1995 Incident Reference: 95741104 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	971	2	345400 388200
	River Quality Name: Dog Clog Bk GQA Grade: River Quality F Reach: Qsl At Hall Lane Cronton To Ditton Bk Estimated Distance (km): 3.8 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A18SE (N)	322	2	346351 387997
	River Quality Name: Ditton Bk GQA Grade: River Quality E Reach: Fox'S Bank Bk To Netherley Bk Estimated Distance (km): 2.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A18SW (N)	362	2	346173 388050
	River Quality Name: Ditton Bk GQA Grade: River Quality E Reach: Netherley Bk To Halewood Bk Estimated Distance (km): 1.3 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A12SW (W)	840	2	345401 387354
23	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 24th January 2006 Incident Reference: 373263 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inorganic Chemicals : Other	A13NE (NE)	0	2	346268 387655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: R A Humphries Licence Number: 2569028019 Permit Version: Not Supplied Location: Dog Clog Brook, Marklands Farm, Tarbock Green, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 255 Yearly Rate (m3): 5910 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SE (N)	312	2	346300 388000
25	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028011 Permit Version: 101 Location: B/Holes (2) At Water La Pumping Station, Whiston, Merseyside Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	457	2	346700 387900
25	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028011 Permit Version: 100 Location: B/Holes (2) At Water La Pumping Station, Whiston, Merseyside Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 11400 Yearly Rate (m3): 1750000 Details: Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	457	2	346700 387900
26	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Mill And Dog Clog Brks Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Childwall Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	514	2	346700 388000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Water Abstractions Operator: J B Garton Licence Number: 2569028016 Permit Version: Not Supplied Location: Mill Brk And Trib Of Whittle Brk, Tarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 191 Yearly Rate (m3): 4091 Details: Licence Status : Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	606	2	345900 388200
28	Water Abstractions Operator: Belpool Developments Ltd Licence Number: 2569028018 Permit Version: 102 Location: Ochre And Dog Clog Brooks Tarbock Hall Farm Prescot Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Tarbock Hall Farm, Tarbock, Prescot, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st January 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	920	2	346400 388600
28	Water Abstractions Operator: Belpool Developments Ltd Licence Number: 2569028018 Permit Version: 101 Location: Ochre And Dog Clog Brooks Tarbock Hall Farm Prescot Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 6 Yearly Rate (m3): 2098 Details: Tarbock Hall Farm, Tarbock, Prescot, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	920	2	346400 388600
29	Water Abstractions Operator: R A Humphries Licence Number: 2569028019 Permit Version: Not Supplied Location: Dog Clog Brook, Marklands Farm, Tarbock Green, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 255 Yearly Rate (m3): 5910 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	997	2	347300 387700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Mill And Dog Clog Brks Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Childwall Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1044	2	345200 387900
	Water Abstractions Operator: J B Garton Licence Number: 2569028016 Permit Version: Not Supplied Location: Mill Brook & Tributary Of Whittle Brook, Tarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 191 Yearly Rate (m3): 4091 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	1087	2	345600 386700
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Childwall Mill And Dog Clog Brooks, Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 7728 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1260	2	345001 387996
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Mill And Dog Clog Brks Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 7728 Details: Childwall Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SE (W)	1262	2	345001 388001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028014 Permit Version: 101 Location: Boreholes (2) At Greensbridge Lane Pumping Station, Whiston Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NE (S)	1271	2	345800 386400
	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028014 Permit Version: 100 Location: Boreholes (2) At Greensbridge Lane Pumping Station, Whiston Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 11400 Yearly Rate (m3): 1500000 Details: Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NE (S)	1271	2	345800 386400
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Childwall Mill And Dog Clog Brks, Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Licence Status : Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NW (E)	1302	2	347600 387800
	Water Abstractions Operator: T H Critchley & Son Licence Number: 2569028018 Permit Version: 100 Location: Ochre And Dog Clog Brooks Tarbock Hall Farm Prescott Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 6 Yearly Rate (m3): 2098 Details: Tarbock Hall Farm, Tarbock, Prescott, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NW (N)	1451	2	346600 389100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028024 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1595	2	347880 387920
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028024 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1595	2	347880 387920
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028023 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Alder Lane, Cronton, Widnes Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1595	2	347880 387920
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024r01 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1596	2	347880 387926

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024r01 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1596	2	347880 387926
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024 Permit Version: 2 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1596	2	347880 387926
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024 Permit Version: 2 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1596	2	347880 387926
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Childwall Mill And Dog Clog Brks, Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 7728 Details: Licence Status : Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1684	2	344700 388400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028012 Permit Version: 101 Location: Boreholes X 3 At Netherley Pumping Station Liverpool Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SW (W)	1703	2	344600 388200
	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028012 Permit Version: 100 Location: Boreholes (3) At Netherley Pumping Station, Liverpool Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 11400 Yearly Rate (m3): 4127000 Details: Boreholes (3) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SW (W)	1703	2	344600 388200
	Water Abstractions Operator: C.White Limited Licence Number: 2569028015 Permit Version: Not Supplied Location: Chapel Brook, Cronton Colliery, Merseyside Authority: Environment Agency, North West Region Abstraction: Mining Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1964 Yearly Rate (m3): 227300 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1744	2	346600 389400
	Water Abstractions Operator: C.White Limited Licence Number: 2569028002 Permit Version: Not Supplied Location: Reservoir Fed By Fox's Bank Brook, Cronton Colliery, Whiston, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Cooling & Boiler Feed & Coal Washing & Dust Suppression Abstraction Type: Not Supplied Source: River Daily Rate (m3): 1309 Yearly Rate (m3): 454600 Details: Additional Purposes: Boiler feed; Coal washing; Dust suppression; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NW (NE)	1824	2	347300 389200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028009 Permit Version: 101 Location: Boreholes (3) At Stockswell Pumping Station, Whiston Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1904	2	348200 387500
	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028009 Permit Version: 100 Location: Boreholes (3) At Stockswell Pumping Station, Whiston Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 10900 Yearly Rate (m3): 3360000 Details: Boreholes (3) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th July 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1904	2	348200 387500
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Intergranular Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13NW (NW)	0	4	346252 387639
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NW (NW)	0	4	346252 387639
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (NW)	0	4	346252 387639
30	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13NW (NW)	0	2	346252 387639
31	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13NE (NE)	0	2	346277 387657
32	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13NE (NE)	347	2	346586 387874

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A8SW (SW)	719	2	345929 386940
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 348.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (SE)	93	5	346326 387509
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (SE)	108	5	346345 387505
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SW (SW)	209	5	346132 387408
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SW (S)	306	5	346132 387308
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 404.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dog Clog Brook Catchment Name: Ditton Primacy: 1	A18SE (N)	340	5	346400 387998
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ochre Brook Catchment Name: Ditton Primacy: 1	A18SW (N)	383	5	346201 388075
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 732.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ochre Brook Catchment Name: Ditton Primacy: 1	A18SW (N)	383	5	346201 388075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 225.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dog Clog Brook Catchment Name: Ditton Primacy: 1	A13NE (NE)	407	5	346582 387969
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 245.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13NE (NE)	407	5	346582 387969
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ochre Brook Catchment Name: Ditton Primacy: 1	A18SW (N)	407	5	346126 388085
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 587.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ochre Brook Catchment Name: Ditton Primacy: 1	A18SW (N)	409	5	346122 388086
45	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 38.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	415	5	346419 387196
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	422	5	346011 387229
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 591.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	422	5	346011 387229
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	444	5	346404 387160
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	448	5	346402 387156

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	462	5	346053 387168
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 324.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	467	5	346059 387161
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dog Clog Brook Catchment Name: Ditton Primacy: 1	A14NW (NE)	551	5	346799 387914
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 460.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	563	5	346345 387027
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	563	5	346345 387027
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 409.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	570	5	346343 387019
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	573	5	346815 387401
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 313.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dog Clog Brook Catchment Name: Ditton Primacy: 1	A14NW (E)	603	5	346867 387887
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SW (NE)	620	5	346608 388212

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SW (NE)	666	5	346688 388217
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SW (NE)	680	5	346742 388191
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SW (NE)	695	5	346778 388181
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	706	5	346956 387399
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	717	5	346966 387394
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SW (NE)	733	5	346780 388229
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19NW (NE)	746	5	346606 388354
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SW (NE)	758	5	346819 388228
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 238.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SW (S)	767	5	345983 386870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 900.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19NW (NE)	798	5	346689 388370
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 209.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Netherley Brook Catchment Name: Ditton Primacy: 1	A12SW (W)	801	5	345445 387345
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 421.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	808	5	345421 387404
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Netherley Brook Catchment Name: Ditton Primacy: 1	A12SW (W)	808	5	345421 387404
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 295.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	816	5	345490 387207
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 192.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Netherley Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	816	5	345490 387207
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	828	5	345381 387505
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	829	5	347080 387378
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 307.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Netherley Brook Catchment Name: Ditton Primacy: 1	A12SW (W)	829	5	345380 387503

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	841	5	347091 387376
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	846	5	346944 388225
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 421.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Netherley Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	846	5	345576 387037
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dog Clog Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	852	5	347152 387756
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	852	5	347152 387756
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	855	5	346957 388224
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	869	5	347168 387770
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 518.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	882	5	345598 388308
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 271.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Mill Brook Catchment Name: Ditton Primacy: 1	A17SE (NW)	882	5	345598 388308

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 219.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	889	5	347105 388057
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	907	5	347160 387372
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	918	5	347207 387839
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	920	5	347050 388210
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 515.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	926	5	347177 387366
91	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	939	5	346183 388632
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 525.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	942	5	345471 387012
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 371.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Mill Brook Catchment Name: Ditton Primacy: 1	A17SW (NW)	946	5	345364 388078
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 319.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	950	5	346168 388641

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Mill Brook Catchment Name: Ditton Primacy: 1	A17SW (NW)	957	5	345385 388144
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	964	5	345438 387019
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	969	5	345273 387333
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	970	5	346368 386619
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	984	5	347143 388187
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	984	5	347143 388187
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (W)	995	5	345260 387286
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	995	5	345849 386675
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A11NE (W)	996	5	345219 387760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Netherley Brook Catchment Name: Ditton Primacy: 1	A11NE (W)	998	5	345215 387751
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	1000	5	345381 387036

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	Historical Landfill Sites Licence Holder: W F Doyle and Company Limited Location: Netherley Road, Tarbock, Merseyside Name: Greens Bridge Farm Operator Location: 83 Haileybury Road, Liverpool 25 Boundary Accuracy: As Supplied Provider Reference: EAHLD16925 First Input Date: 1st October 1982 Last Input Date: 1st February 1983 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: GDO M016,116/01,16927, 120	A8NW (S)	646	2	345994 386994
107	Licensed Waste Management Facilities (Locations) Licence Number: 50087 Location: Tarbock Green Nurseries, Netherley Road, Tarbock, Prescot, Merseyside, L35 1QE Operator Name: Eric Langton And Janet Langton Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Composting Licence Status: Modified Issued: 5th July 2002 Last Modified: 5th November 2013 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	71	2	346341 387565
108	Licensed Waste Management Facilities (Locations) Licence Number: 53872 Location: Oaklands, Netherley Road, Tarbock Green, Prescot, Merseyside, L35 1QE Operator Name: Mr & Mrs Langton Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Composting Licence Status: Expired Issued: 17th January 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (E)	100	2	346400 387700
	Local Authority Landfill Coverage Name: Knowsley Metropolitan Borough Council - Has supplied landfill data		0	6	346252 387639
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	7	346252 387639
	Local Authority Landfill Coverage Name: Liverpool City Council - Has no landfill data to supply		807	8	345421 387405
109	Local Authority Recorded Landfill Sites Location: Greens Bridge Farm, Knowsley Reference: K001 Authority: Merseyside Waste Disposal Authority Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable	A7SE (SW)	767	7	345900 386900
110	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	780	-	345605 388162
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NW (NW)	26	-	346204 387702

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NW (NW)	149	-	346089 387747
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A13NE (E)	271	-	346575 387680
114	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A13NW (W)	290	-	345922 387678
115	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SE (SW)	429	-	345829 387393
116	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A18SE (NE)	470	-	346590 388045
117	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (N)	492	-	346117 388171
118	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A14NW (NE)	549	-	346774 387956
119	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SE (SW)	566	-	345691 387363
120	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SE (W)	615	-	345595 387511
121	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A14SW (E)	625	-	346901 387488
122	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12NE (W)	633	-	345609 387839
123	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SW (W)	652	-	345553 387548
124	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A9NW (SE)	686	-	346783 387126
125	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12NE (NW)	697	-	345585 387963
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12NW (NW)	715	-	345556 387937
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A9NW (SE)	717	-	346827 387131
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SW (W)	734	-	345469 387605
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SW (W)	857	-	345366 387421
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A7SE (SW)	862	-	345706 386901
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A19SE (E)	880	-	347125 387987
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A19SE (NE)	887	-	347099 388065

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A14NE (E)	926	-	347179 387975
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12SW (W)	963	-	345252 387455
135	Registered Landfill Sites Licence Holder: W F Doyle & Co Ltd Licence Reference: 116/01 Site Location: Greens Bridge Farm, Netherley Road, Tarbock, Prescot, Merseyside Licence Easting: 346020 Licence Northing: 386770 Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st October 1982 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert Demol. Waste Prohibited Waste: Inflammable Waste Liquid/Sludge Wastes Putrescible Waste Special Wastes	A8SW (S)	853	2	346020 386770
136	Registered Waste Transfer Sites Licence Holder: Mr & Mrs Langton Licence Reference: 30356 (356/01) Site Location: Tarbock Green Nurseries, Netherly Road, Tarbock, PRESCOT, Merseyside, L35 1QE Operator Location: Oaklands, Netherly Road, Tarbock, Merseyside Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st January 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Leaves, Grasses, Manure Max.Storage In Working Plan Max.Waste Permitted By Licence Organic Veg.Matter Including Uncontam. Soil Prohibited Waste: Waste N.O.S.	A13NE (E)	100	2	346400 387700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A13NW (NW)	0	1	346252 387639
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	0	1	346252 387639
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13NE (N)	306	1	346379 387971
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	372	1	345849 387487
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	391	1	346273 388084
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	524	1	346089 388196
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	640	1	345702 387207

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SW (W)	837	1	345372 387500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17NE (NW)	884	1	345867 388497
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (NW)	0	9	346252 387639
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (NW)	0	-	346252 387639
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	346252 387639

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Contemporary Trade Directory Entries Name: Rotoflex Ltd Location: Woodend, Netherley Road, Tarbock Green, PRESCOT, Merseyside, L35 1QE Classification: Printers - Glass, Metal, Plastics Etc. Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	346270 387651
137	Contemporary Trade Directory Entries Name: R & B Roadtank Repairers Ltd Location: Woodend, Netherley Road, Tarbock Green, Prescott, Merseyside, L35 1QE Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	346270 387651
137	Contemporary Trade Directory Entries Name: R & B Roadtank Location: Woodend, Netherley Road, Tarbock Green, Prescott, Merseyside, L35 1QE Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	346270 387651
138	Contemporary Trade Directory Entries Name: K G B Skip Hire Location: The Cottage, Water Lane, Tarbock Green, Prescott, Merseyside, L35 1RD Classification: Chemical Recycling & Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	177	-	346481 387674
138	Contemporary Trade Directory Entries Name: K G B Skip Hire Location: The Cottage, Water Lane, Tarbock Green, Prescott, L35 1RD Classification: Chemical Recycling & Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	177	-	346481 387674
139	Contemporary Trade Directory Entries Name: Radial Ltd Location: Water La, Tarbock Green, Prescott, Merseyside, L35 1RD Classification: Electrical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	761	-	346958 388060
139	Contemporary Trade Directory Entries Name: Instant Pest Solutions Location: 8 Stable Court Business Centre, Water Lane, Tarbock Green, Prescott, L35 1RD Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	783	-	346969 388085
140	Points of Interest - Commercial Services Name: R & B Roadtank Location: Woodend, Netherley Road, Tarbock Green, Prescott, L35 1QE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	0	10	346270 387651
141	Points of Interest - Commercial Services Name: K G B Skip Hire Location: The Cottage, Water Lane, Tarbock Green, Prescott, L35 1RD Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A13NE (E)	176	10	346480 387673
142	Points of Interest - Commercial Services Name: Instant Pest Solutions Location: 8 Stable Court Business Centre, Water Lane, Tarbock Green, Prescott, L35 1RD Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A19SE (NE)	749	10	346954 388043
143	Points of Interest - Commercial Services Name: Mobile Valeting Location: 21 Appleby Lawn, Liverpool, L27 5RF Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A11NE (W)	970	10	345235 387672

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	0	10	346273 387658
144	Points of Interest - Manufacturing and Production Name: Works Location: L35 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	0	10	346265 387656
145	Points of Interest - Manufacturing and Production Name: A Humphries & Son Ltd Location: Barn Hey Farm, Netherley Road, Tarbock Green, Prescott, L35 1QG Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NW (SE)	585	10	346682 387167
145	Points of Interest - Manufacturing and Production Name: A Humphries & Sons Ltd Location: Barn Hey Farm, Netherley Road, Tarbock Green, Prescott, L35 1QG Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A9NW (SE)	585	10	346681 387166
146	Points of Interest - Manufacturing and Production Name: T & O Harrison Location: Water Lane Farm, Water Lane, Tarbock Green, Prescott, L35 1RD Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A19SE (NE)	749	10	346954 388044
147	Points of Interest - Manufacturing and Production Name: A Garton & Sons Location: Millbridge Farm, Netherley Road, Tarbock Green, Prescott, L35 1RF Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A12NW (W)	913	10	345350 387949
147	Points of Interest - Manufacturing and Production Name: J C Garton Pope Location: Millbridge Farm, Netherley Road, Tarbock Green, Prescott, L35 1RF Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A12NW (W)	913	10	345350 387949
147	Points of Interest - Manufacturing and Production Name: A Garton & Sons Location: Millbridge Farm, Netherley Road, Tarbock Green, Prescott, L35 1RF Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A12NW (W)	913	10	345349 387949
148	Points of Interest - Public Infrastructure Name: Outfall Location: L35 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	990	10	345225 387762
148	Points of Interest - Public Infrastructure Name: Outfall Location: L35 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	996	10	345219 387761

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	Areas of Adopted Green Belt Authority: Knowsley Metropolitan Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 6th January 2016	A13NW (NW)	0	6	346252 387639
150	Areas of Adopted Green Belt Authority: Liverpool City Council Plan Name: Liverpool Unitary Development Plan Status: Adopted Plan Date: 30th November 2002	A12SW (W)	806	12	345422 387405
151	Areas of Unadopted Green Belt Authority: Liverpool City Council Plan Name: Liverpool Local Plan Status: Submission Draft Plan Date: 22nd May 2018	A12SW (W)	807	12	345421 387404
152	Nitrate Vulnerable Zones Name: Dittton Brook (Halewood To Mersey Estuary) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (NW)	0	4	346252 387639

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices St Helens Metropolitan Borough Council - Environmental Protection Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Department of Planning and Development Halton Borough Council - Environmental Health Department	December 2014 December 2015 January 2015 October 2017	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	October 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	October 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division	April 2013 December 2015 February 2013 June 2013	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 December 2015 January 2015 November 2014	Annual Rolling Update Annually Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 December 2015 January 2015 November 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2020	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North West Region Environment Agency - Southern Region	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Environment Agency - North West Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area	October 2019	Quarterly
Water Abstractions Environment Agency - North West Region	October 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2019	Quarterly
Flood Defences Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area	November 2019	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	October 2019	Quarterly
Local Authority Landfill Coverage Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Liverpool City Council	August 2015 August 2015 February 2016 January 2016	Variable Variable Variable Variable
Planning Hazardous Substance Consents Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Liverpool City Council	August 2015 August 2015 February 2016 January 2016	Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	December 2019	Quarterly
Points of Interest - Education and Health PointX	December 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2019	Quarterly
Points of Interest - Public Infrastructure PointX	December 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council	February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified
Areas of Unadopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council	February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

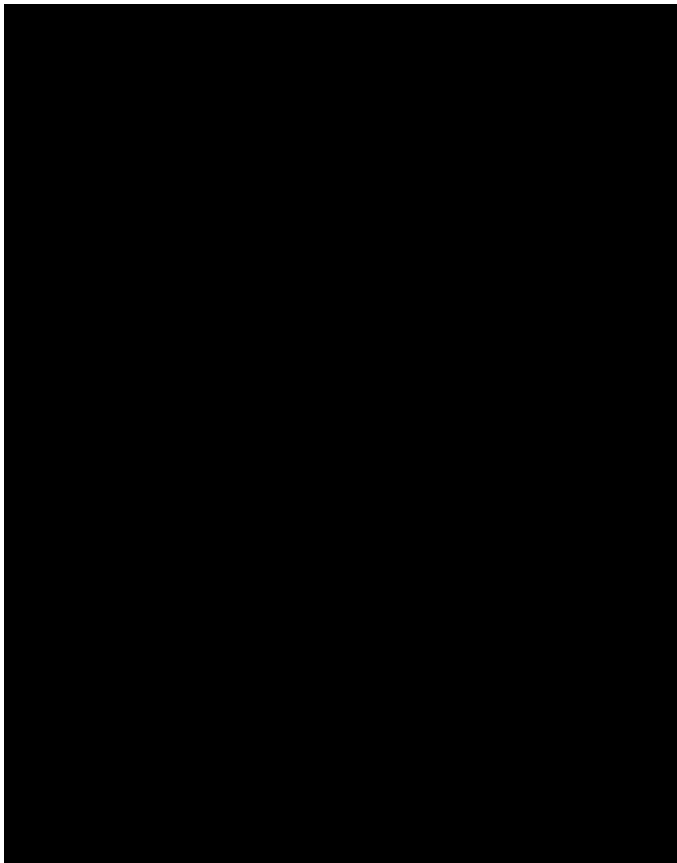
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

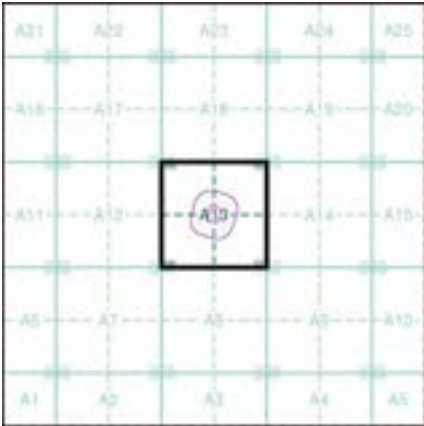
Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Municipal Buildings, Cherryfield Drive, Kirkby, Knowsley, Merseyside, L32 1TX	Telephone: 0151 443 4731 Fax: 0151 289 7488 Website: www.knowsley.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Knowsley Metropolitan Borough Council Archway Road, Huyton, Liverpool, Merseyside, L36 9YU	Telephone: 0151 489 6000 Fax: 0151 443 2298 Website: www.knowsley.gov.uk
7	Merseyside Waste Disposal Authority 2nd Floor, North House, 17 North John Street, Liverpool, Merseyside, L2 5QY	Telephone: 0151 2551444 Fax: 0151 2271848 Email: enquiries@merseysidewda.gov.uk
8	Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Millenium House, 60 Victoria Street, Liverpool, Merseyside, L1 6LD	Telephone: 0151 233 3000 Email: environmental.health@liverpool.gov.uk Website: www.liverpool.gov.uk
9	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
10	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	Liverpool City Council 5th floor, Steers House, Canning Place, Liverpool, Merseyside, L1 8JA	Telephone: 0151 227 3911 Fax: 0151 709 1481 Website: www.liverpool.gov.uk
13	St Helens Metropolitan Borough Council Town Hall, Corporation Street, St Helens, Merseyside, WA10 1HP	Telephone: 01744 456000 Fax: 01744 733337 Website: www.sthelens.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Contact	Name and Address	Contact Details
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Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



Site Sensitivity Map - Segment A13

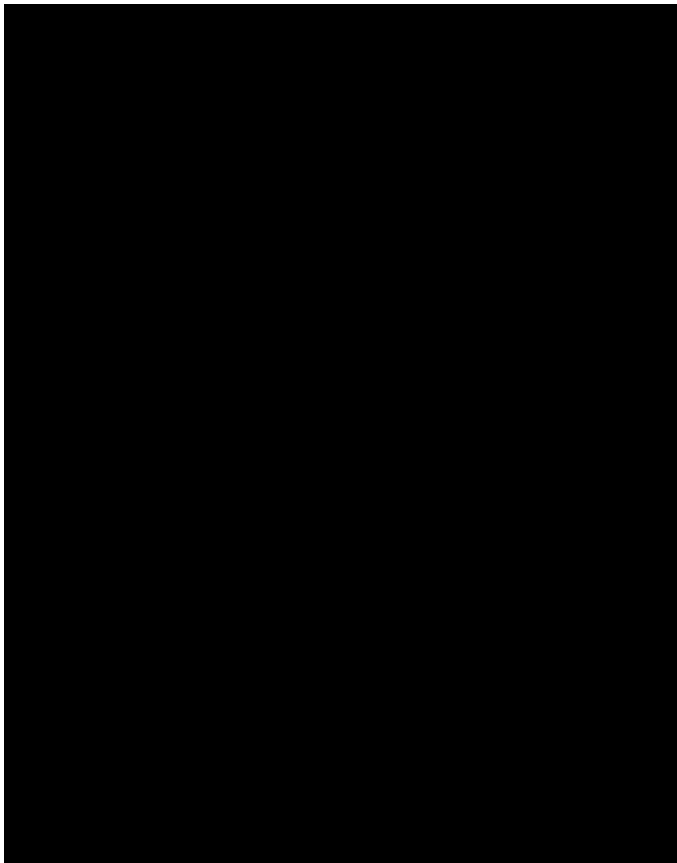


Order Details

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Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Plot Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



Site Sensitivity Map - Slice A



Order Details

Order Number:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Industrial Land Use Map



Industrial Land Use Map - Slice A

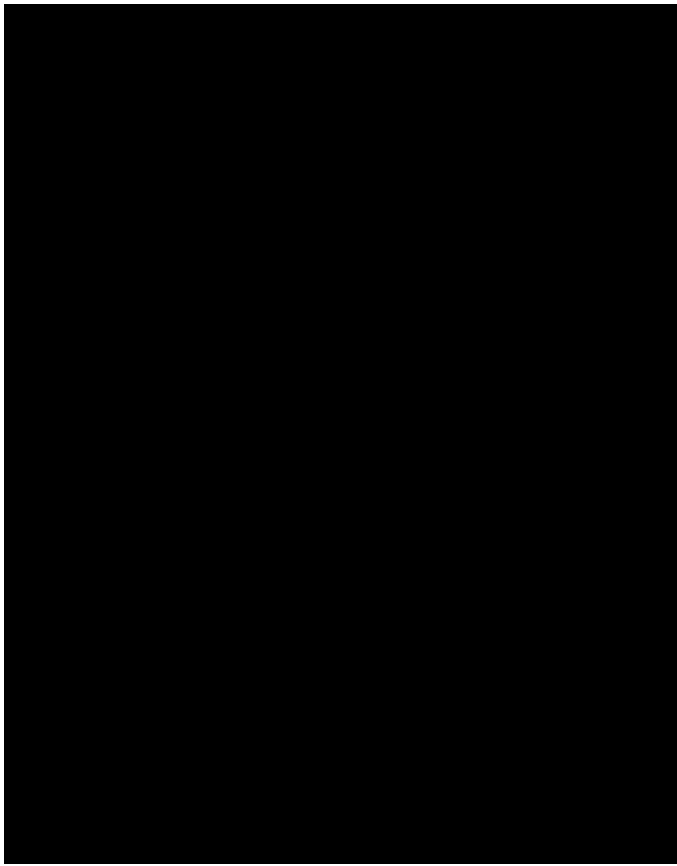


Order Details

Order Number: 236322359_1_1
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National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
GREEN, L35 1QE



Flood Map - Slice A

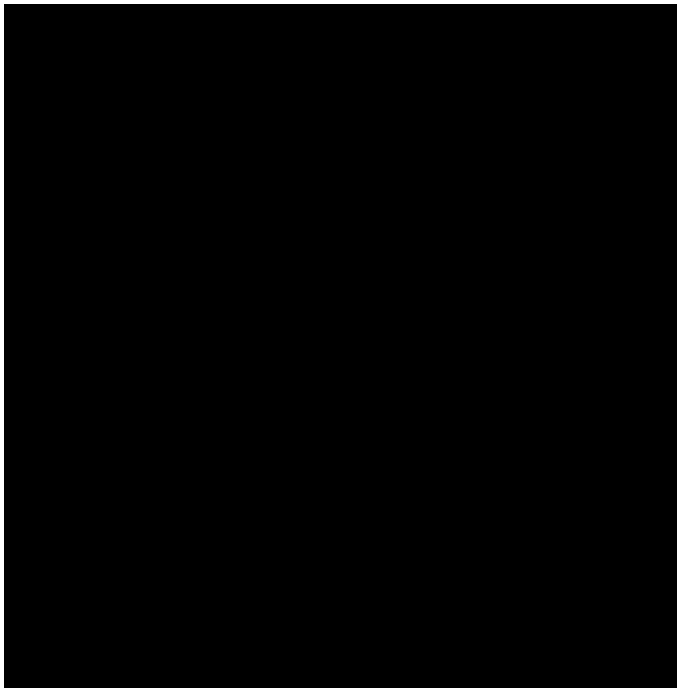


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National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

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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

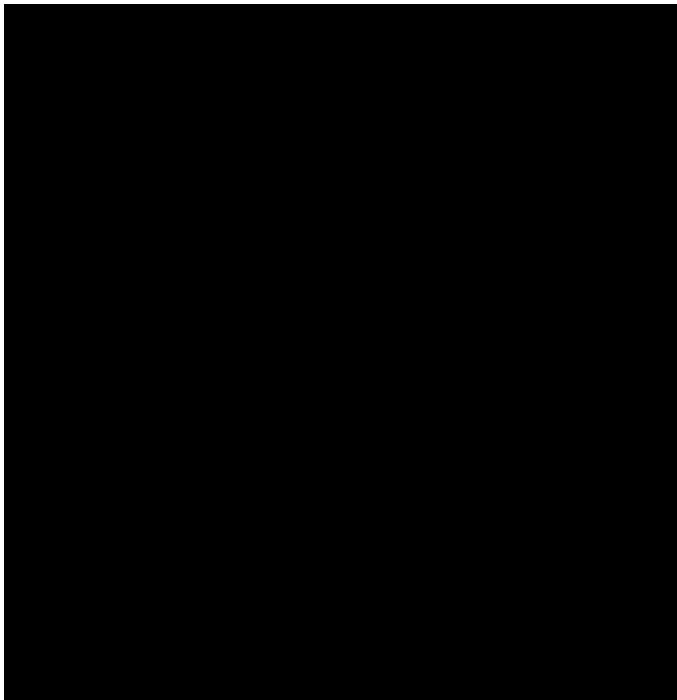


Order Details

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Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

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OS Water Network Map - Slice A

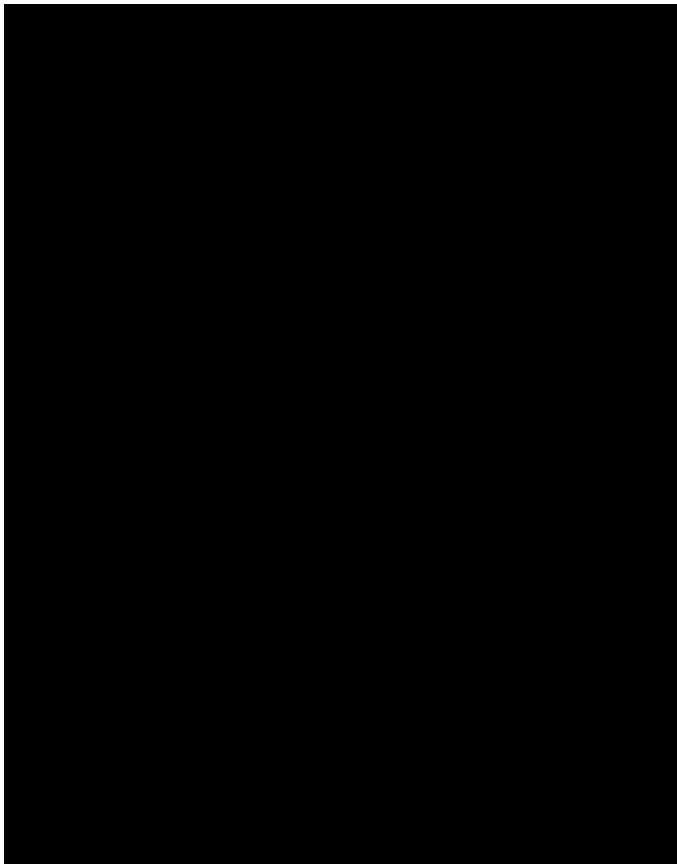


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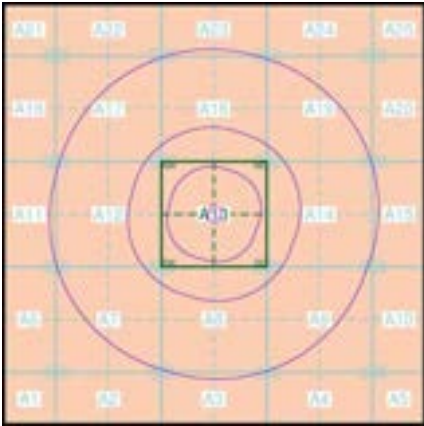
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Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
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EA/NRW Suitability Map - Slice A

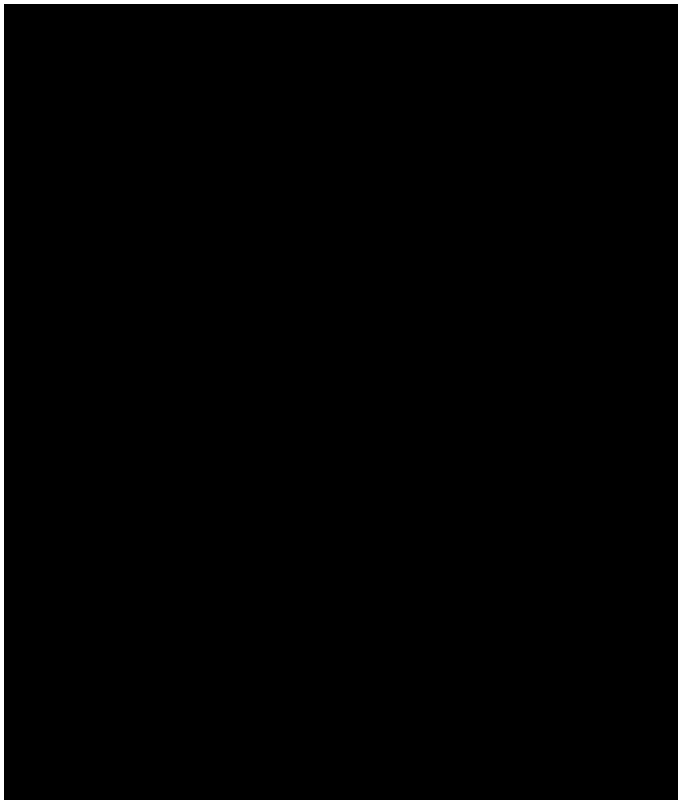


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National Grid Reference: 346250, 387640
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Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



Estimated Soil Chemistry Arsenic - Slice A

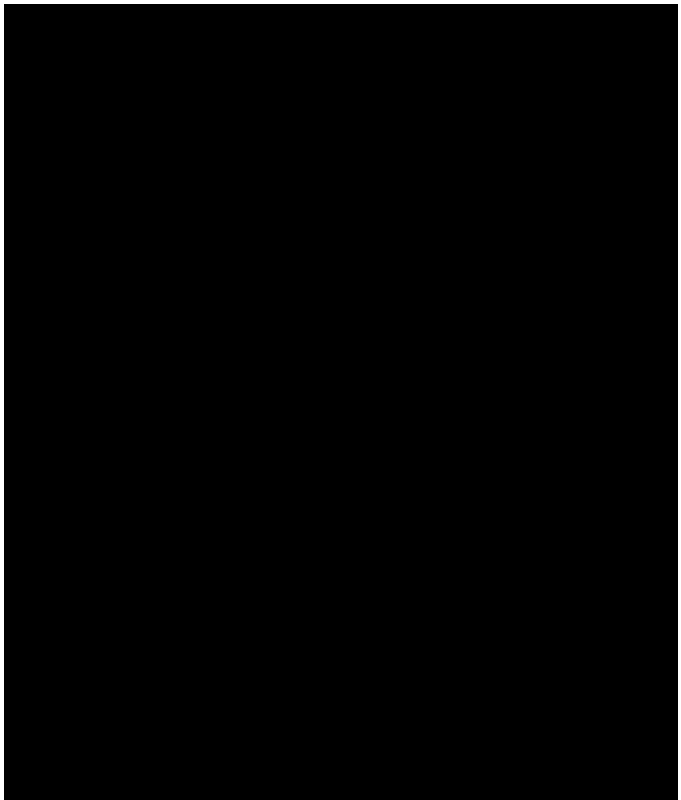


Order Details

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Customer Ref: SCT
National Grid Reference: 346250, 387640
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Site Area (Ha): 0.7
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Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



Estimated Soil Chemistry Cadmium - Slice A

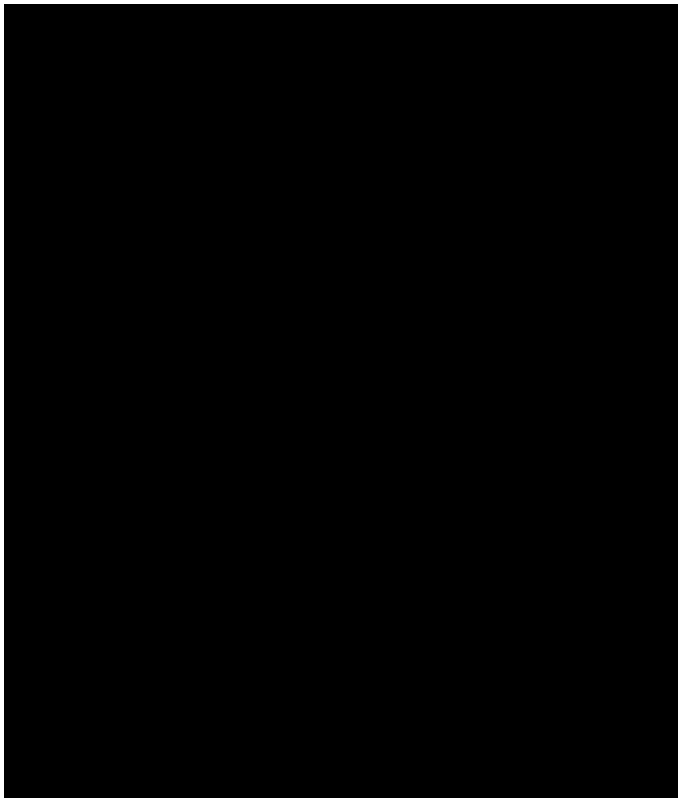


Order Details

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Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
GREEN, L35 1QE



Estimated Soil Chemistry Chromium - Slice A

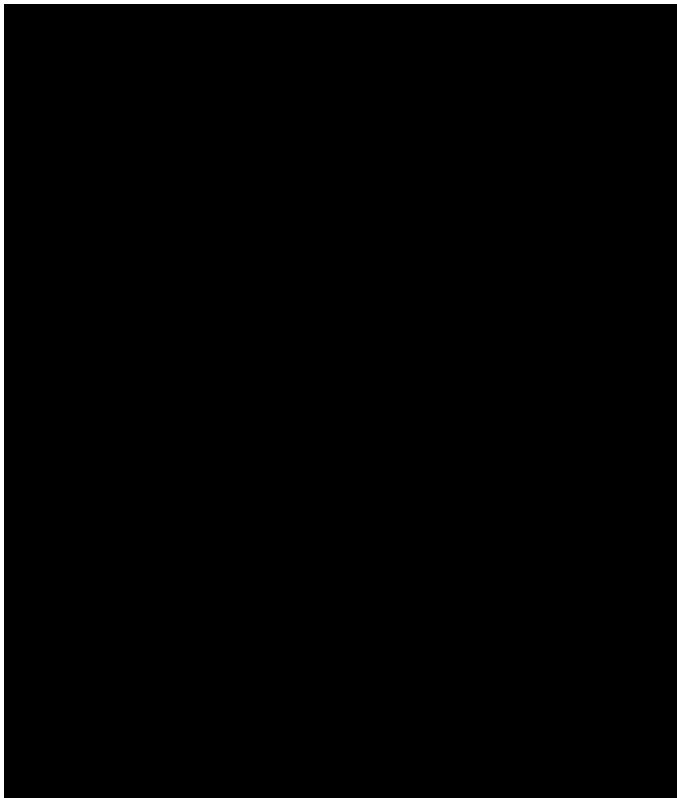


Order Details

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Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
GREEN, L35 1QE



Estimated Soil Chemistry Lead - Slice A

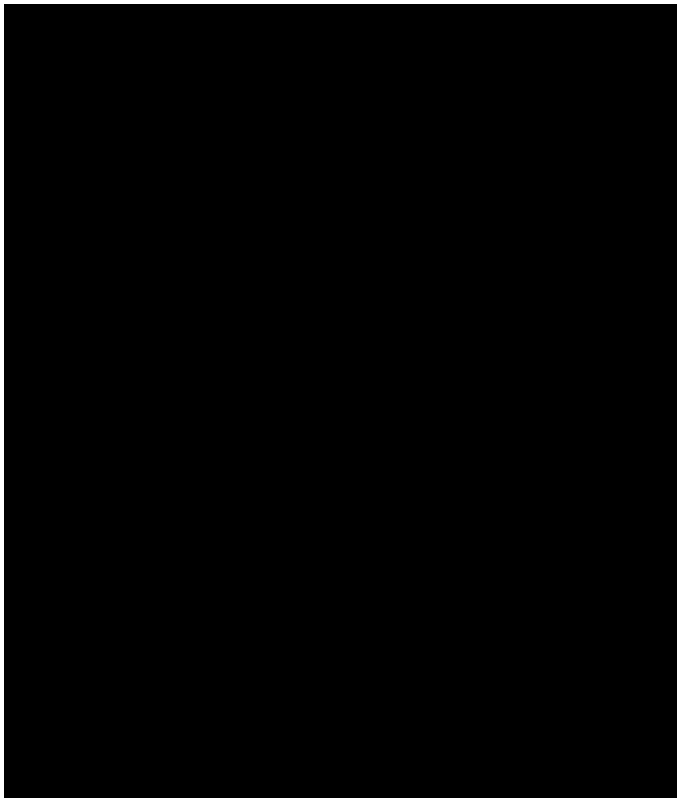


Order Details

Order Details: 236322359_1_1
Customer Ref: SCT
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Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
GREEN, L35 1QE



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
GREEN, L35 1QE

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 - Pleistocene
	TILLD	Till, Devensian	Diamicton	Devensian - Ipswichian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Ryazanian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WLSF	Wilmslow Sandstone Formation	Sandstone	Early Triassic - Early Triassic
	KNSF	Kinnerton Sandstone Formation	Sandstone	Early Triassic - Early Triassic
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovian - Duckmantian
	ETM	Etruria Formation	Mudstone, Sandstone and Conglomerate	Westphalian - Westphalian
	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:		Map ID:	1
Map Name:	SJ48NW	Map Name:	SJ48NE
Map Date:	1946	Map Date:	1951
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Not Available	Artificial Geology:	Not Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Not Available	Landslip:	Not Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:10,000 Maps - Slice A



Order Details

Order Number:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

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 foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details

Order Number:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

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:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Bedrock and Faults

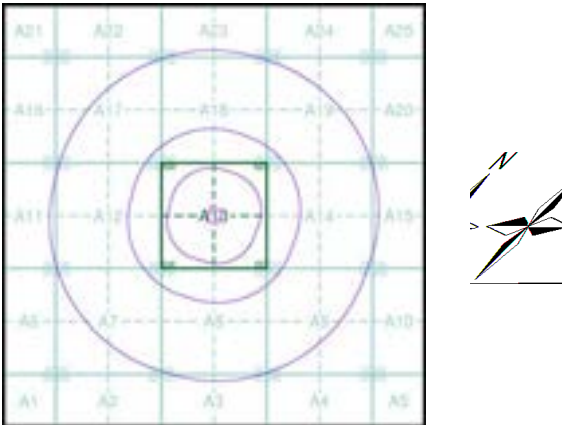
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

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

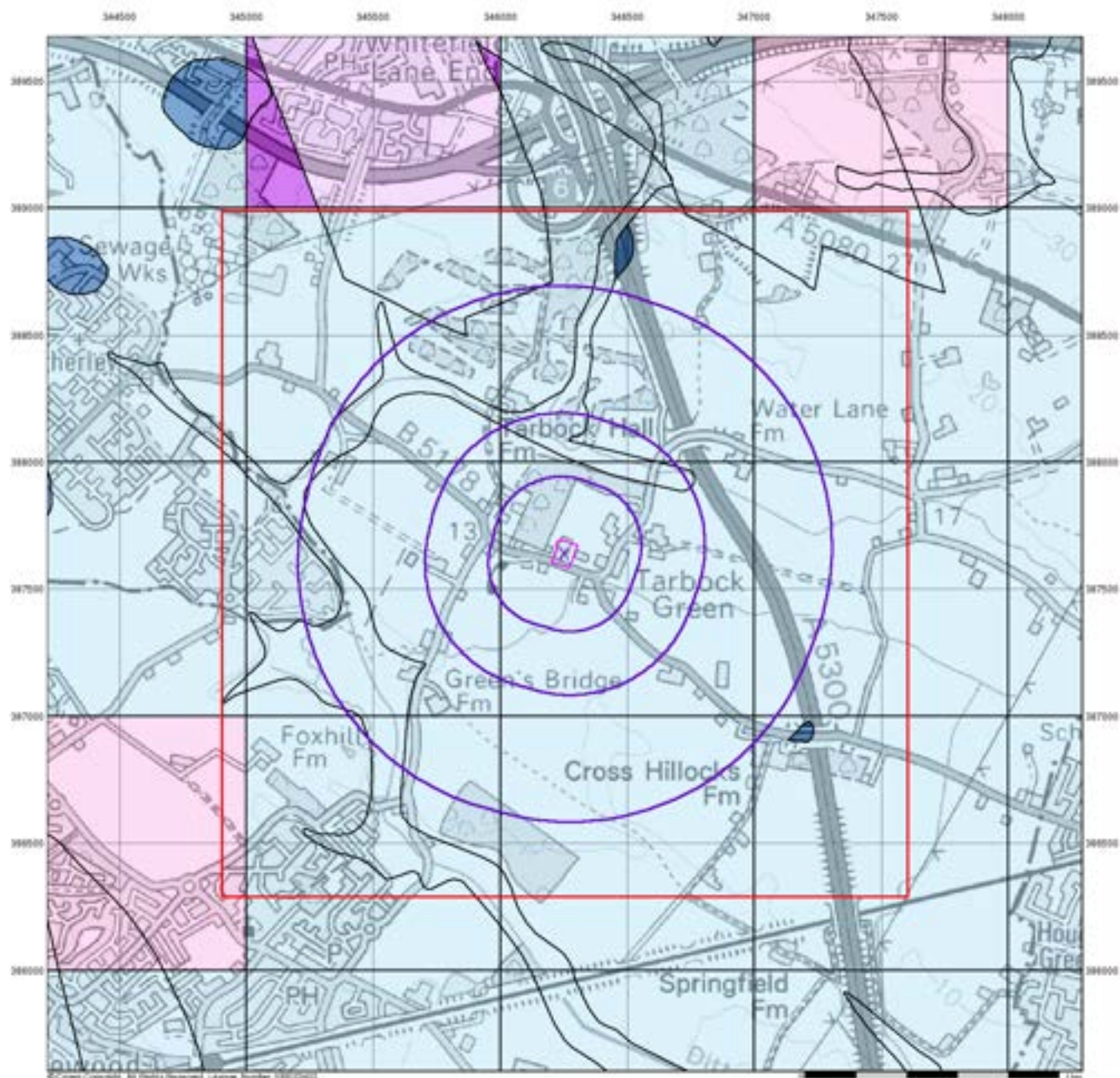


Order Details

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Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



Envirocheck®

LANDMARK INFORMATION GROUP®

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

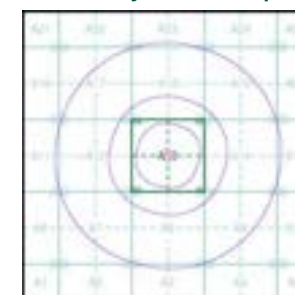
High Vulnerability, Principal Aquifer
 High Vulnerability, Secondary Aquifer
 Medium Vulnerability, Principal Aquifer
 Medium Vulnerability, Secondary Aquifer
 Low Vulnerability, Principal Aquifer
 Low Vulnerability, Secondary Aquifer

Superficial Aquifers

High Vulnerability, Principal Aquifer
 High Vulnerability, Secondary Aquifer
 Medium Vulnerability, Principal Aquifer
 Medium Vulnerability, Secondary Aquifer
 Low Vulnerability, Principal Aquifer
 Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
 Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

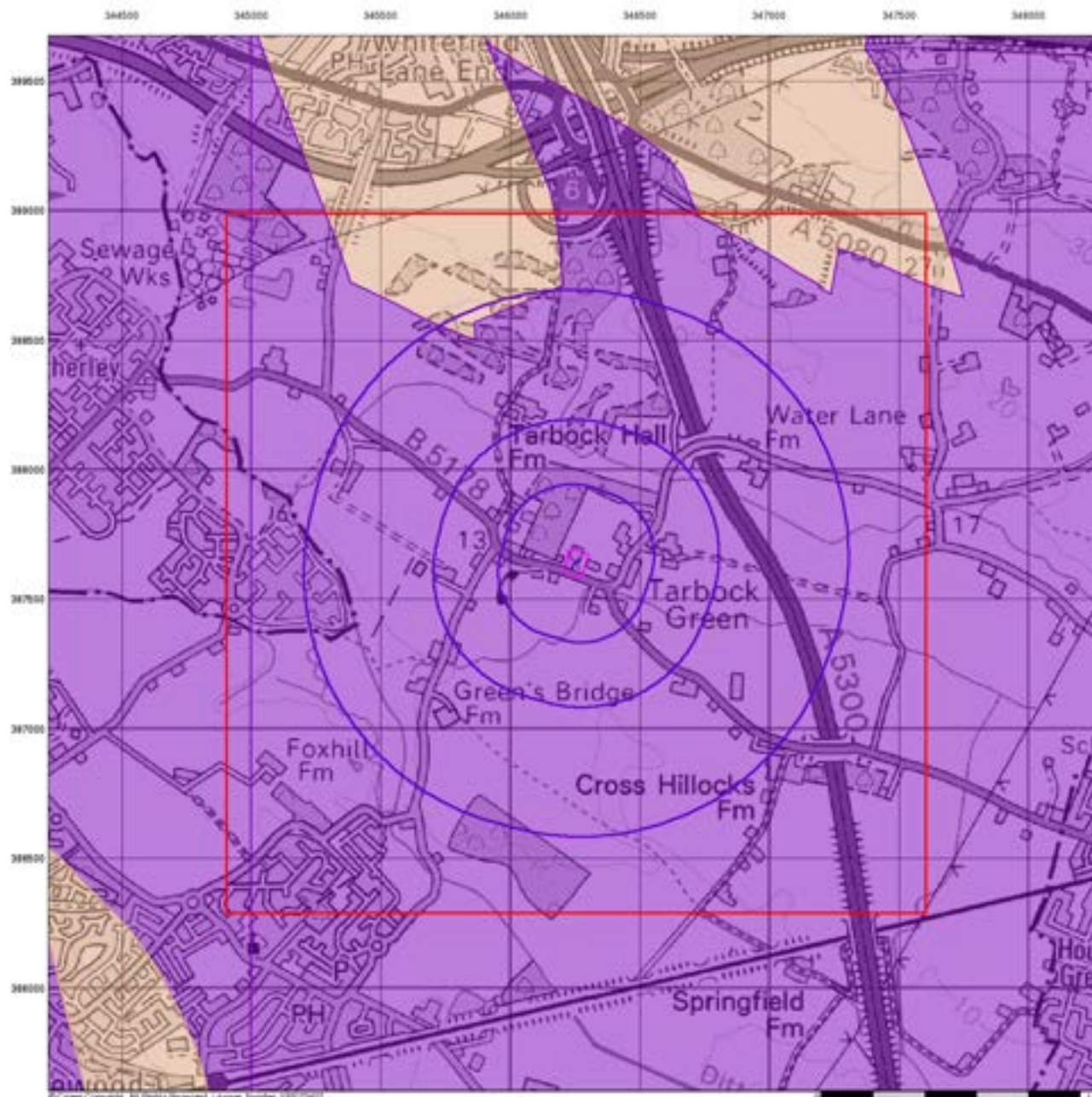
Order Number: 236322359_1_1
 Customer Ref: SCT
 National Grid Reference: 346250, 387640
 Slice: A
 Site Area (Ha): 0.7
 Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Landmark
 LANDMARK INFORMATION GROUP

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



Bedrock Aquifer Designation

General

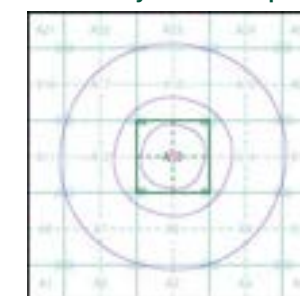
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

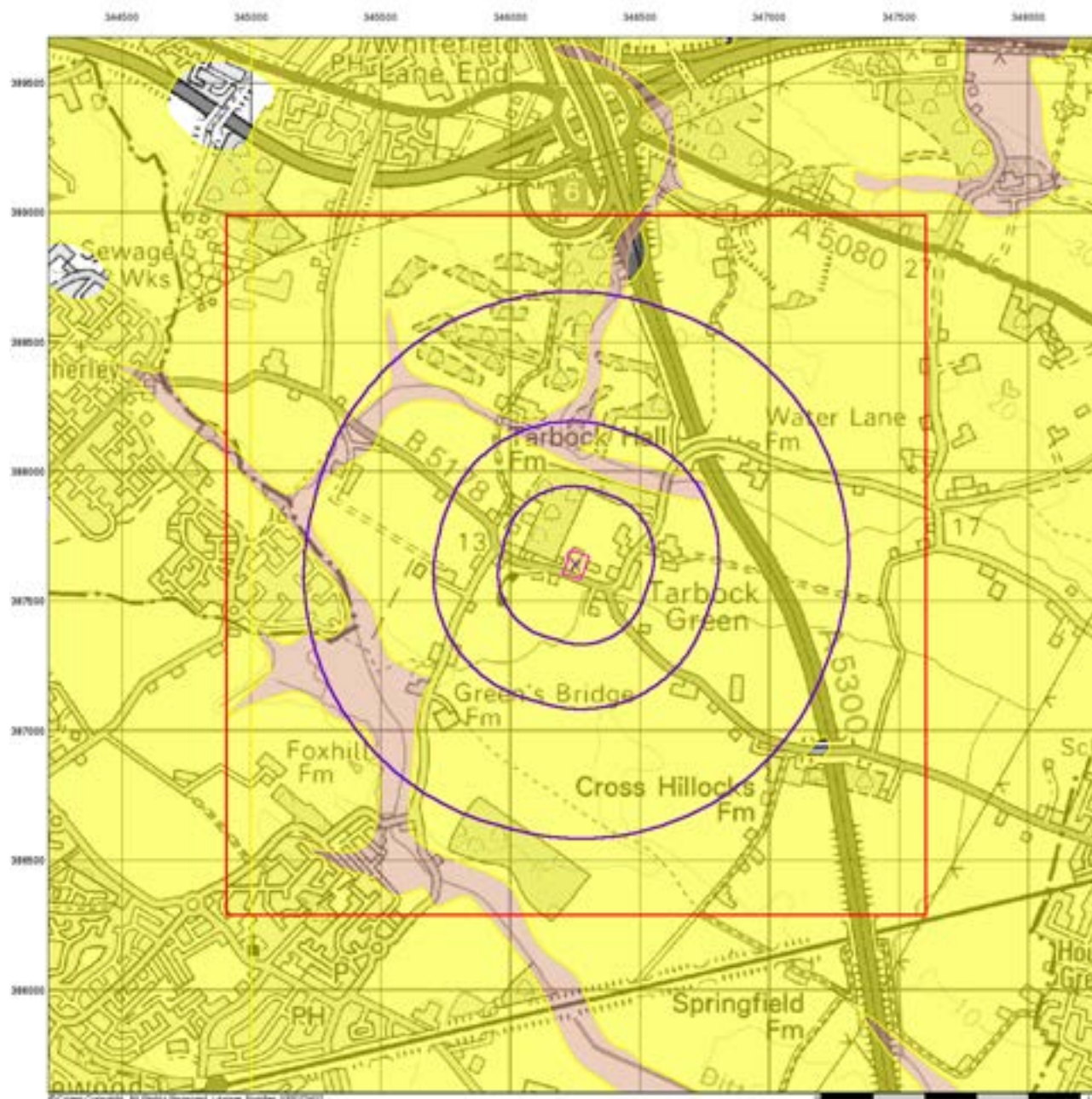


Order Details

Order Number: 236322359_1_1
 Customer Ref: SCT
 National Grid Reference: 346250, 387640
 Slice: A
 Site Area (Ha): 0.7
 Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



Superficial Aquifer Designation

General

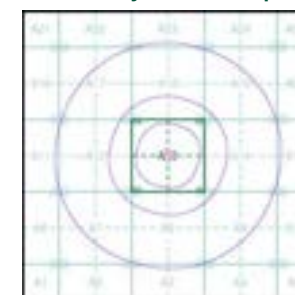
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

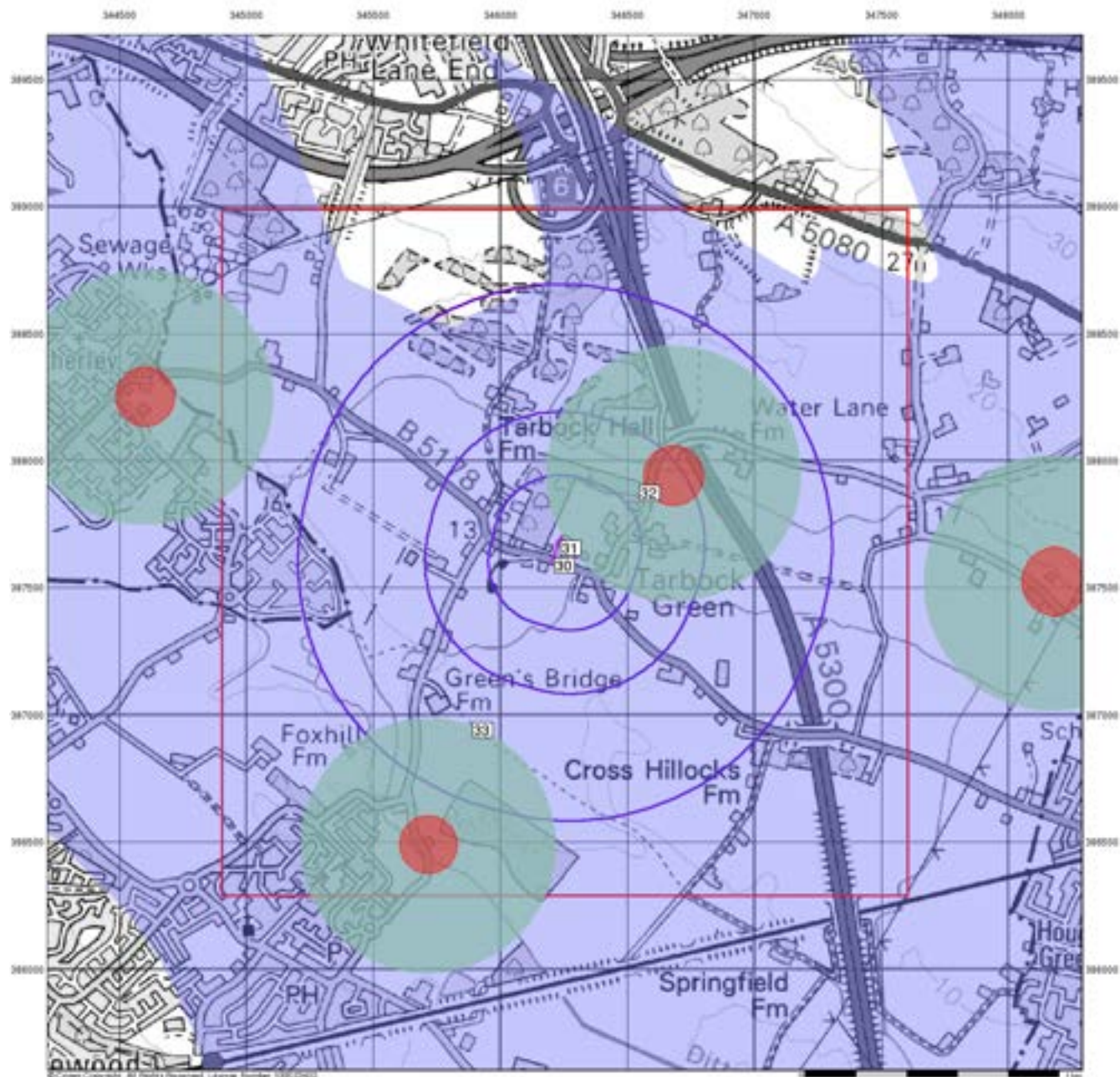


Order Details

Order Number: 236322359_1_1
 Customer Ref: SCT
 National Grid Reference: 346250, 387640
 Slice: A
 Site Area (Ha): 0.7
 Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



Source Protection Zones

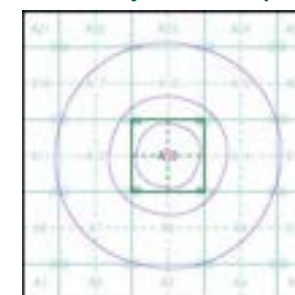
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- ▨ Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- ▨ Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- ▨ Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A

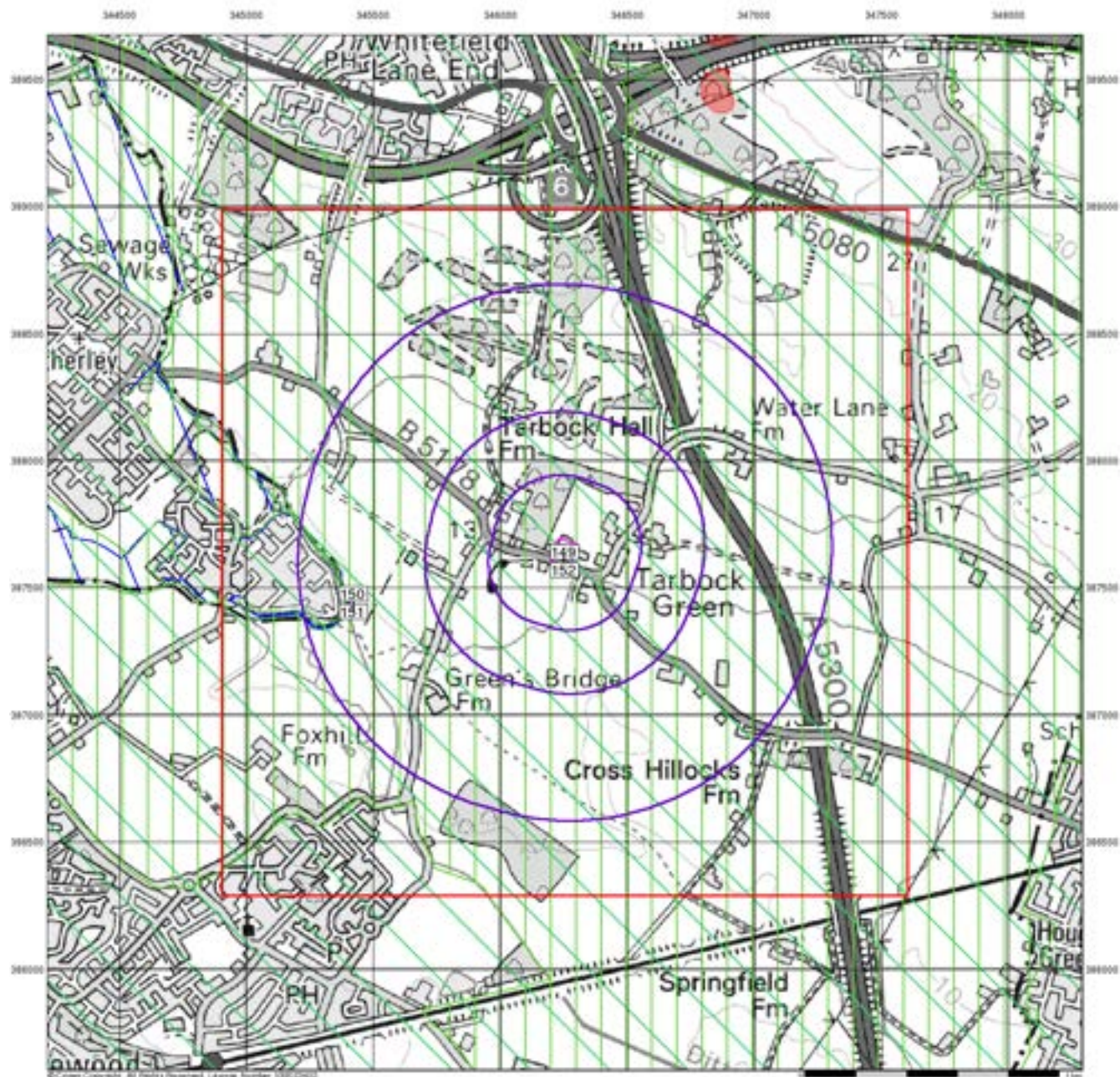


Order Details

Order Number: 236322359_1_1
 Customer Ref: SCT
 National Grid Reference: 346250, 387640
 Slice: A
 Site Area (Ha): 0.7
 Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE



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Sensitive Land Uses

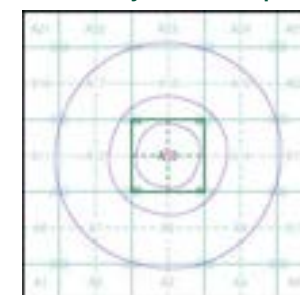
General

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

Sensitive Land Uses

- Ancient Woodland
- 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
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

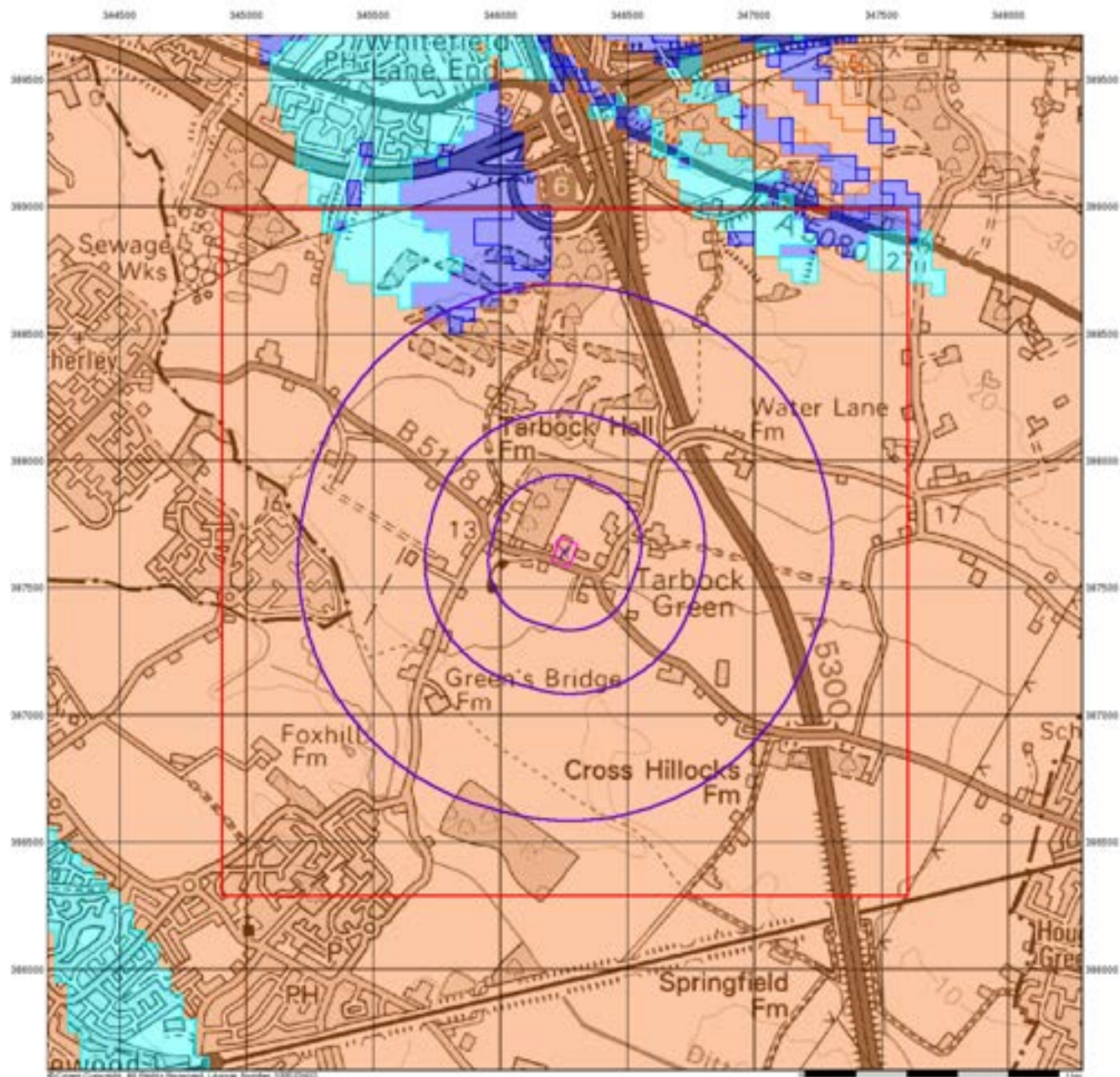
Order Number: 236322359_1_1
 Customer Ref: SCT
 National Grid Reference: 346250, 387640
 Slice: A
 Site Area (Ha): 0.7
 Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Landmark[®]
 LANDMARK INFORMATION GROUP

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



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LANDMARK INFORMATION GROUP®

BGS Flood GFS Data

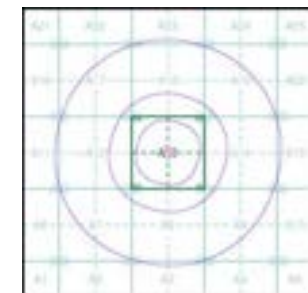
General

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

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 236322359_1_1
 Customer Ref: SCT
 National Grid Reference: 346250, 387640
 Slice: A
 Site Area (Ha): 0.7
 Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Landmark
 LANDMARK INFORMATION GROUP

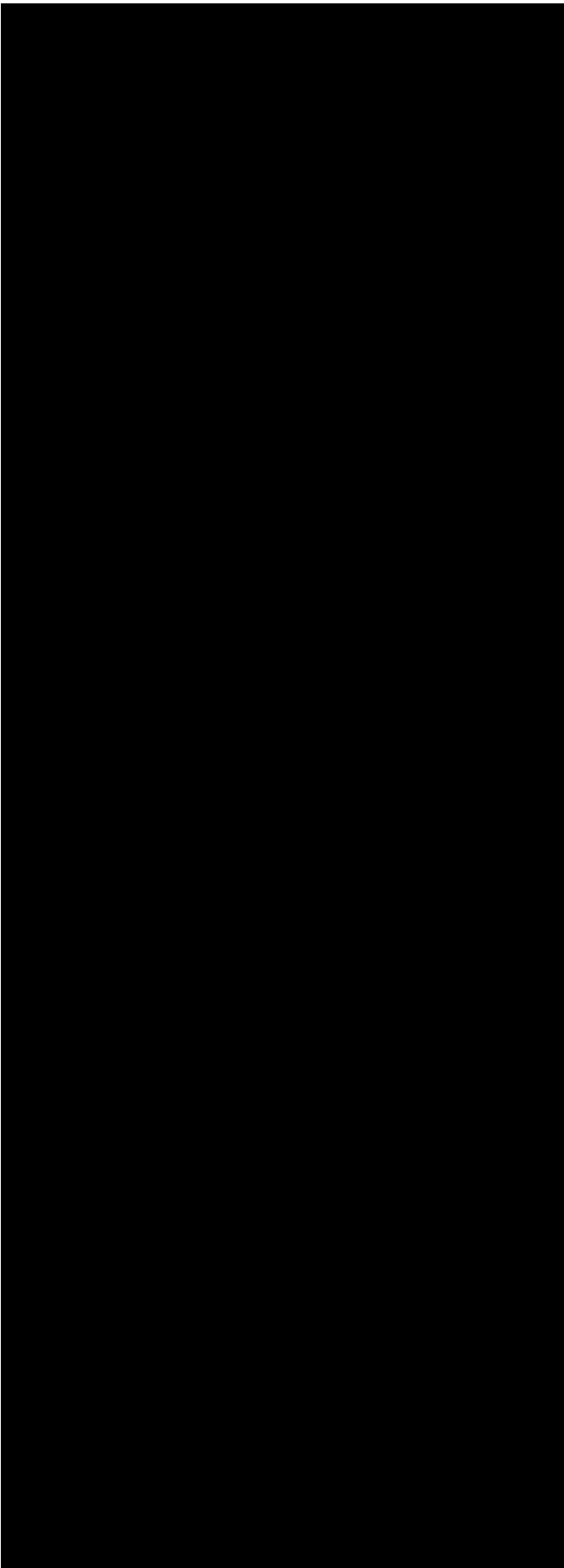
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

Appendix 3:

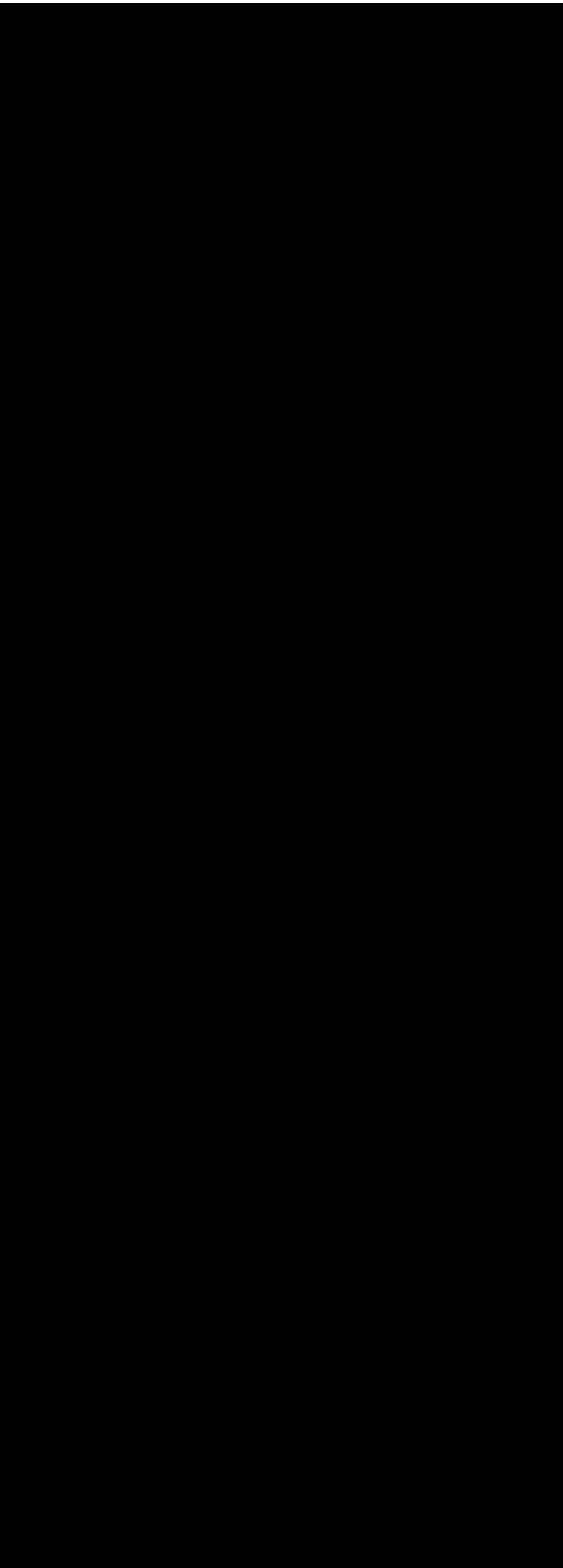
Historical Maps

Historical Mapping Legends

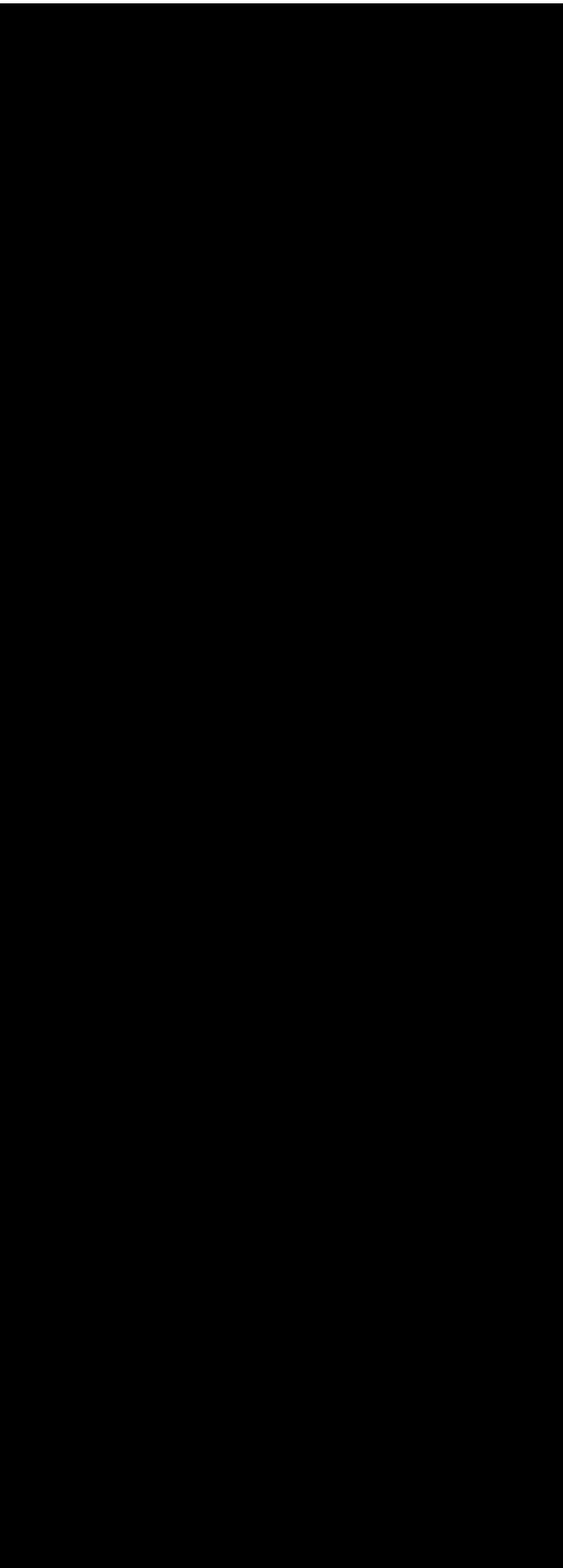
Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and
Supply of Unpublished Survey Information
1:2,500 and 1:1,250



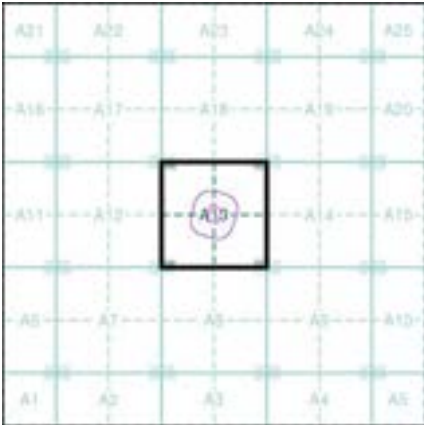
Large-Scale National Grid Data 1:2,500 and
1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1907	3
Lancashire And Furness	1:2,500	1927	4
Ordnance Survey Plan	1:2,500	1959	5
Additional SIMs	1:2,500	1959	6
Supply of Unpublished Survey Information	1:2,500	1975	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:1,250	1993	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1993	11
Historical Aerial Photography	1:2,500	2000	12

Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK
GREEN, L35 1QE



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

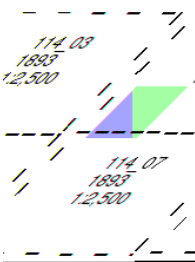
Lancashire And Furness

Published 1893

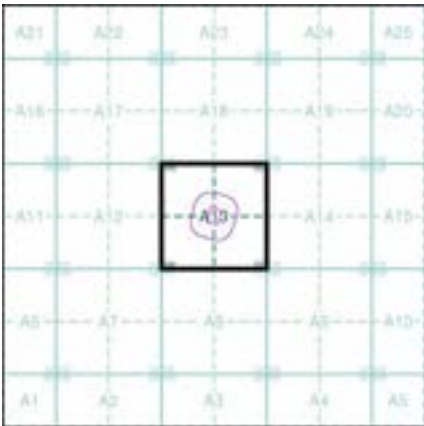
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

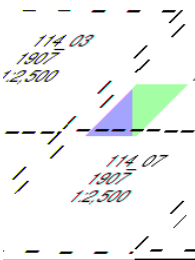
Lancashire And Furness

Published 1907

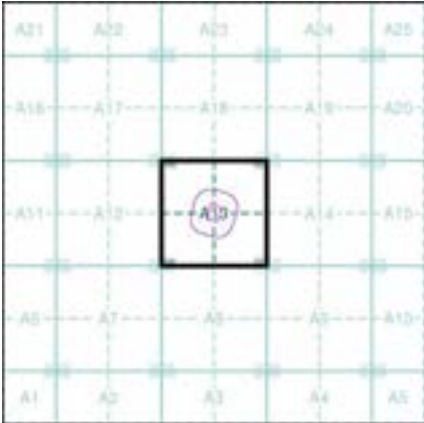
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

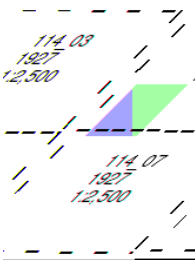
Lancashire And Furness

Published 1927

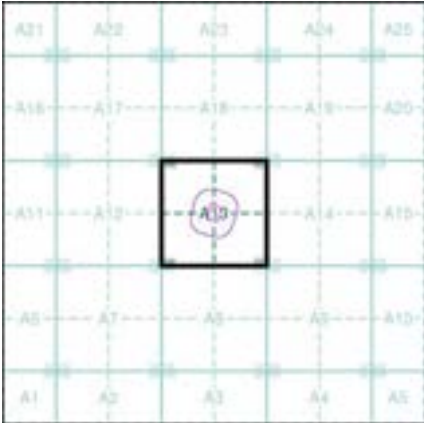
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

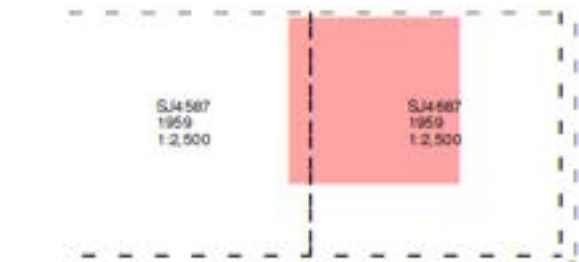
Ordnance Survey Plan

Published 1959

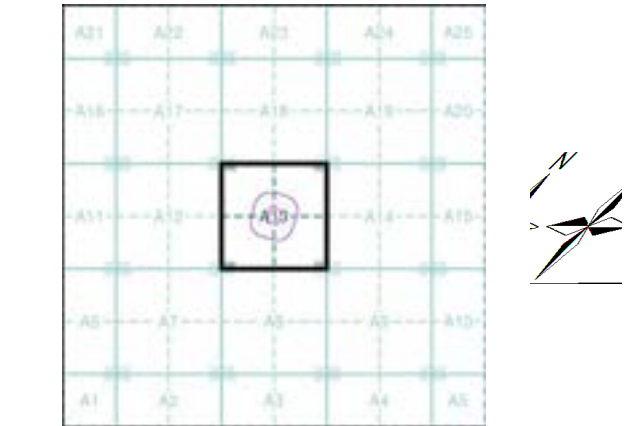
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1

Customer Ref: SCT

National Grid Reference: 346250, 387640

Slice: A

Site Area (Ha): 0.7

Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Additional SIMs

Published 1959

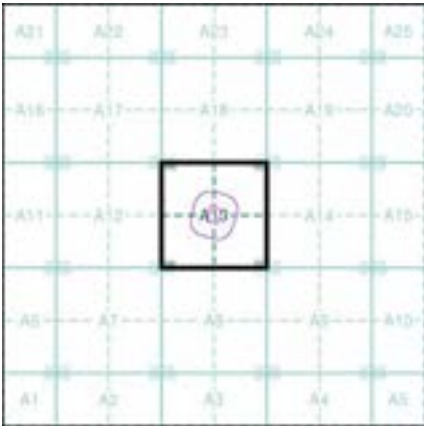
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:236322359_1_1

Customer Ref:SCT

National Grid Reference:346250, 387640

Slice:A

Site Area (Ha):0.7

Search Buffer (m):100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

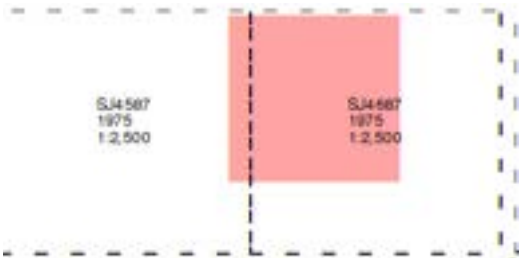
Supply of Unpublished Survey Information

Published 1975

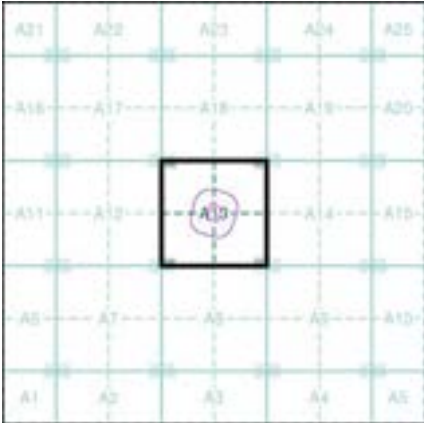
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Additional SIMs

Published 1989

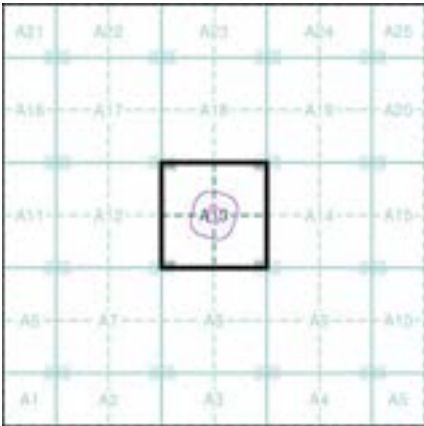
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

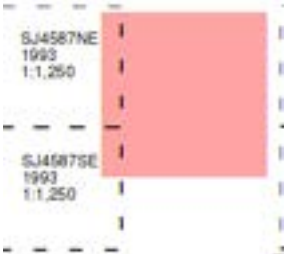
Large-Scale National Grid Data

Published 1993

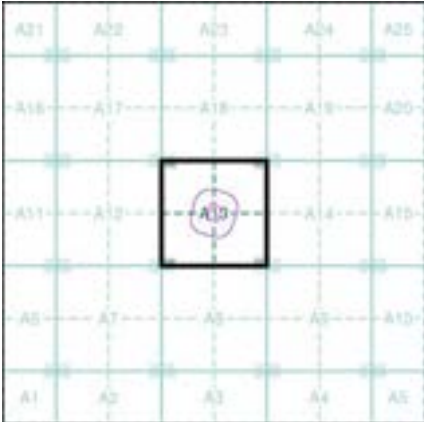
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

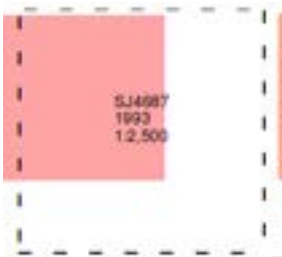
Large-Scale National Grid Data

Published 1993

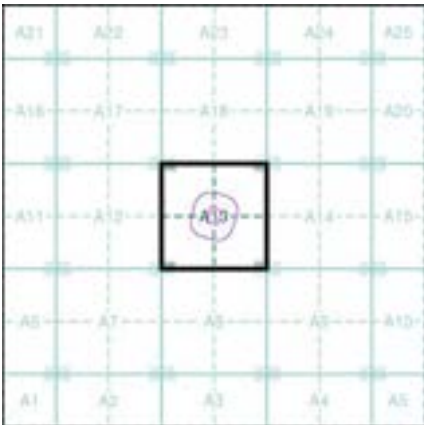
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

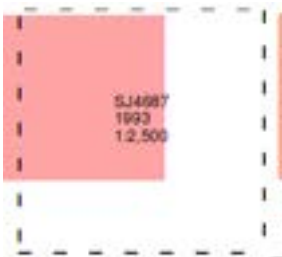
Large-Scale National Grid Data

Published 1993

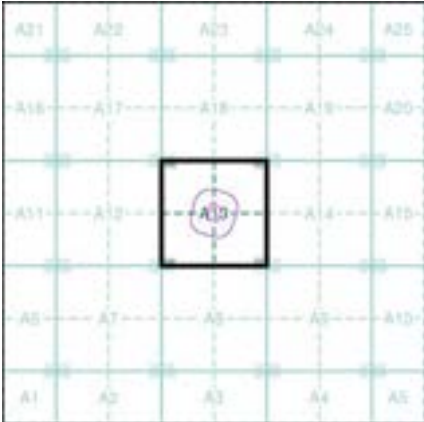
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	236322359_1_1
Customer Ref:	SCT
National Grid Reference:	346250, 387640
Slice:	A
Site Area (Ha):	0.7
Search Buffer (m):	100

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

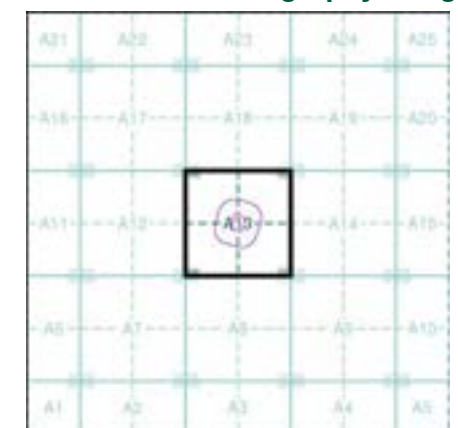


Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

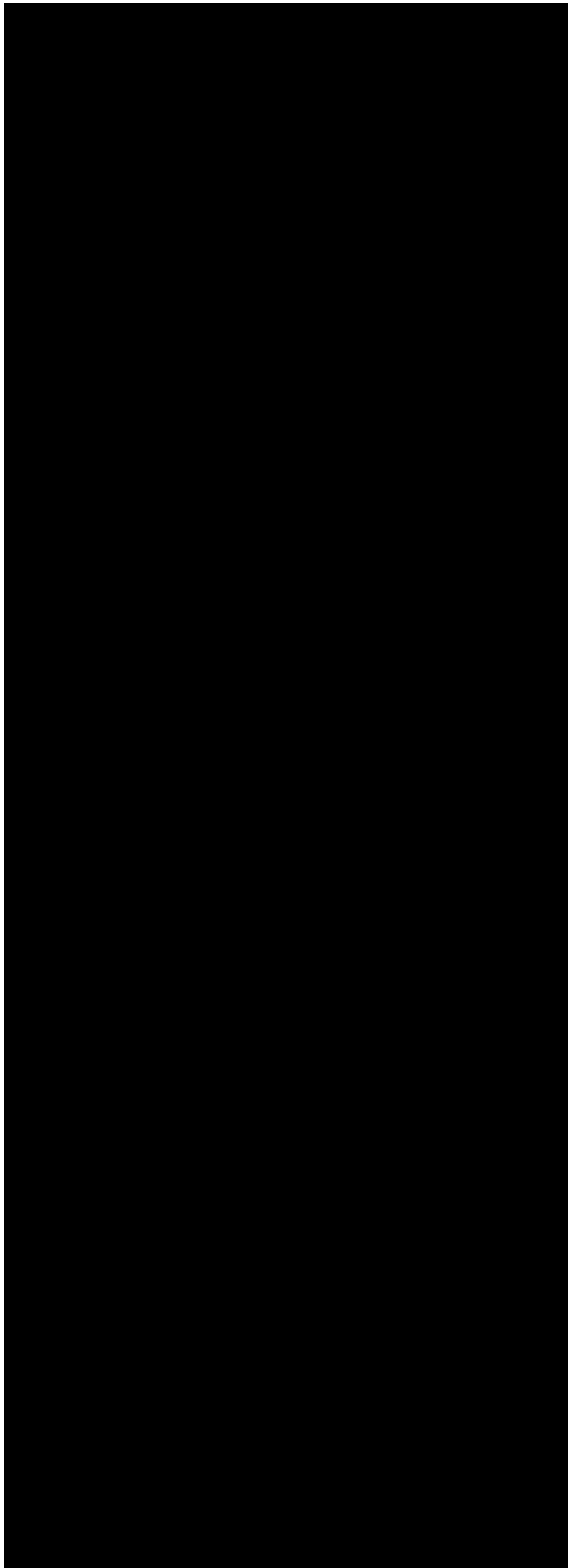
Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 100

Site Details

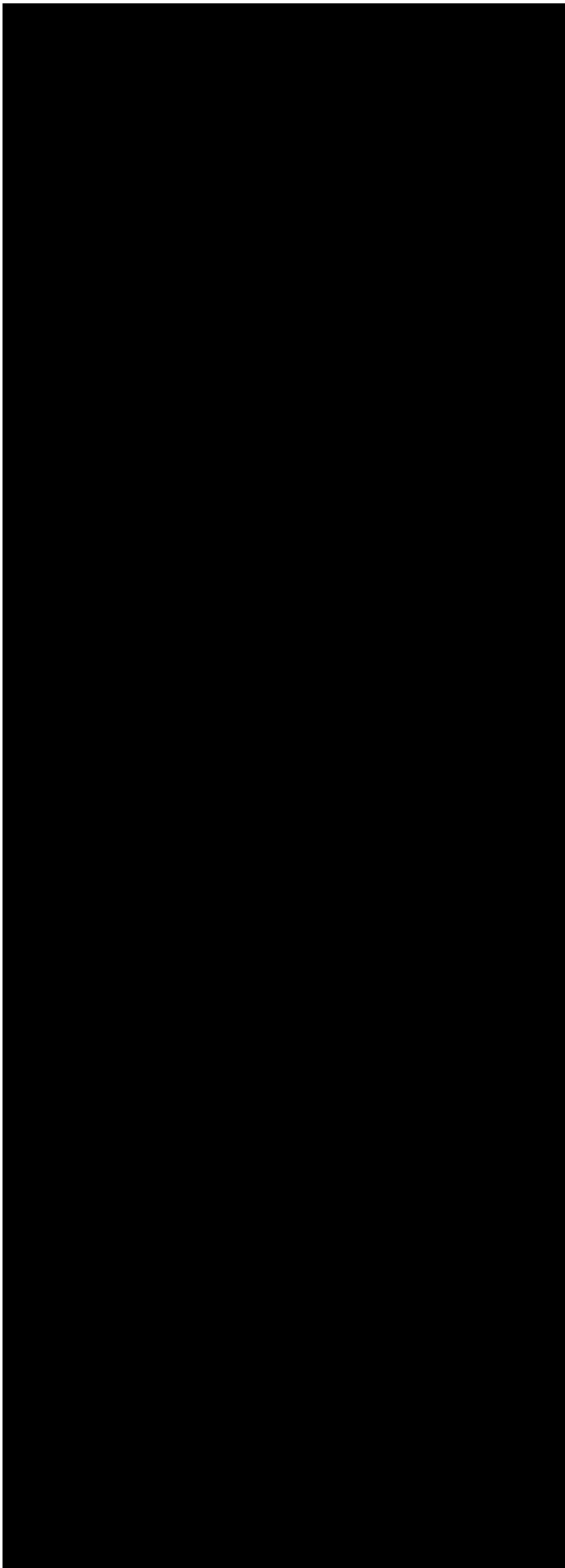
Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Historical Mapping Legends

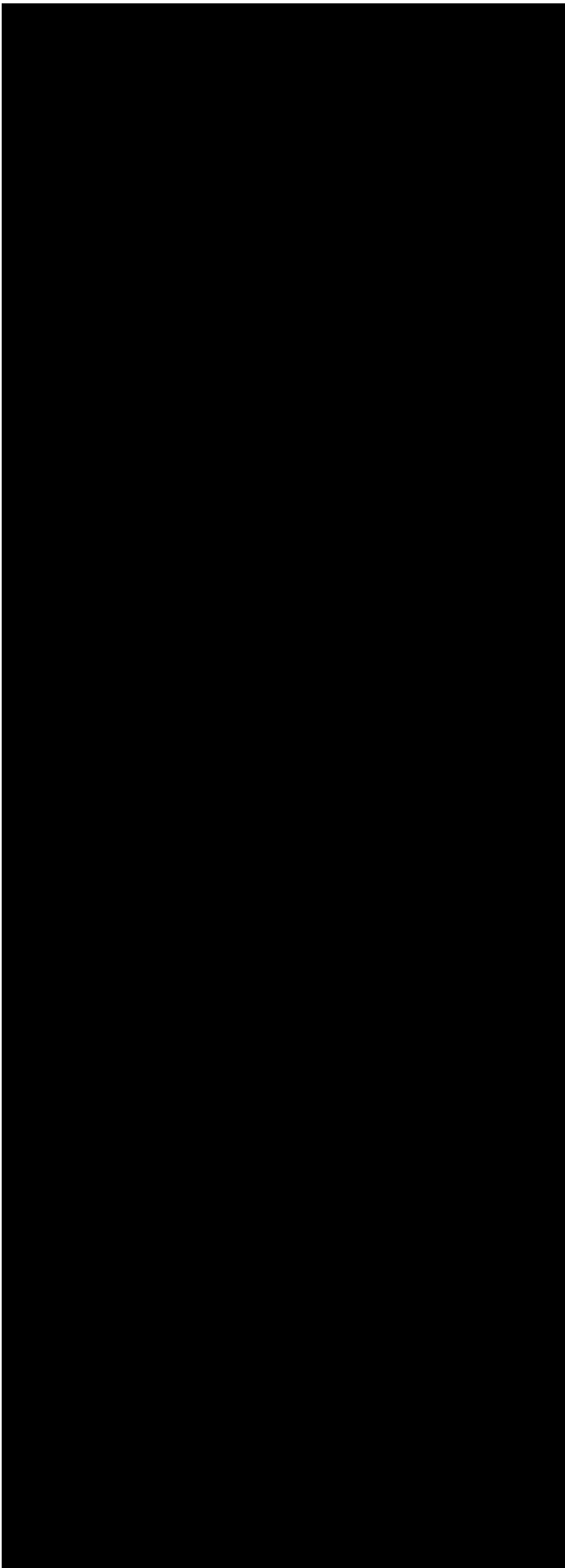
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1908	7
Cheshire	1:10,560	1911	8
Cheshire	1:10,560	1911	9
Lancashire And Furness	1:10,560	1928	10
Lancashire And Furness	1:10,560	1928	11
Lancashire And Furness	1:10,560	1938	12
Cheshire	1:10,560	1938	13
Lancashire And Furness	1:10,560	1938 - 1951	14
Ordnance Survey Plan	1:10,000	1955 - 1956	15
Ordnance Survey Plan	1:10,000	1967	16
Ordnance Survey Plan	1:10,000	1974 - 1977	17
Liverpool	1:10,000	1974	18
Ordnance Survey Plan	1:10,000	1982	19
St Helens	1:10,000	1984	20
Ordnance Survey Plan	1:10,000	1990	21
10K Raster Mapping	1:10,000	1999	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2020	24

Historical Map - Slice A



Order Details

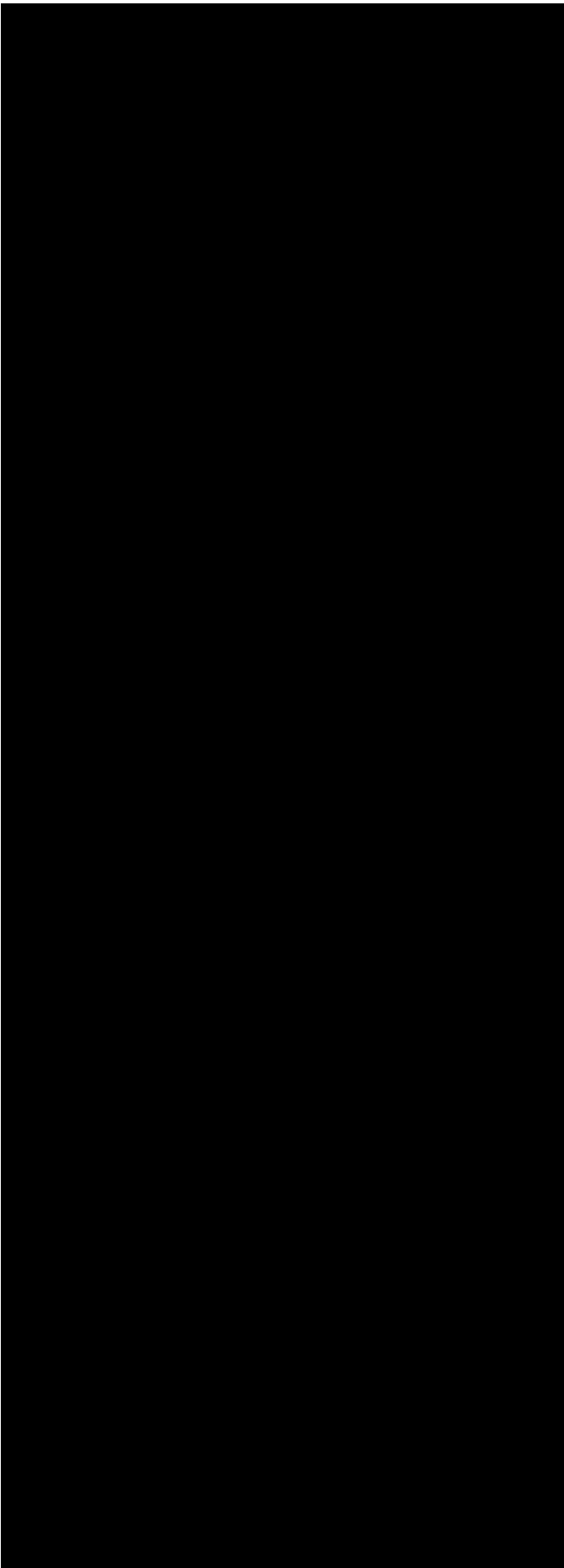
Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

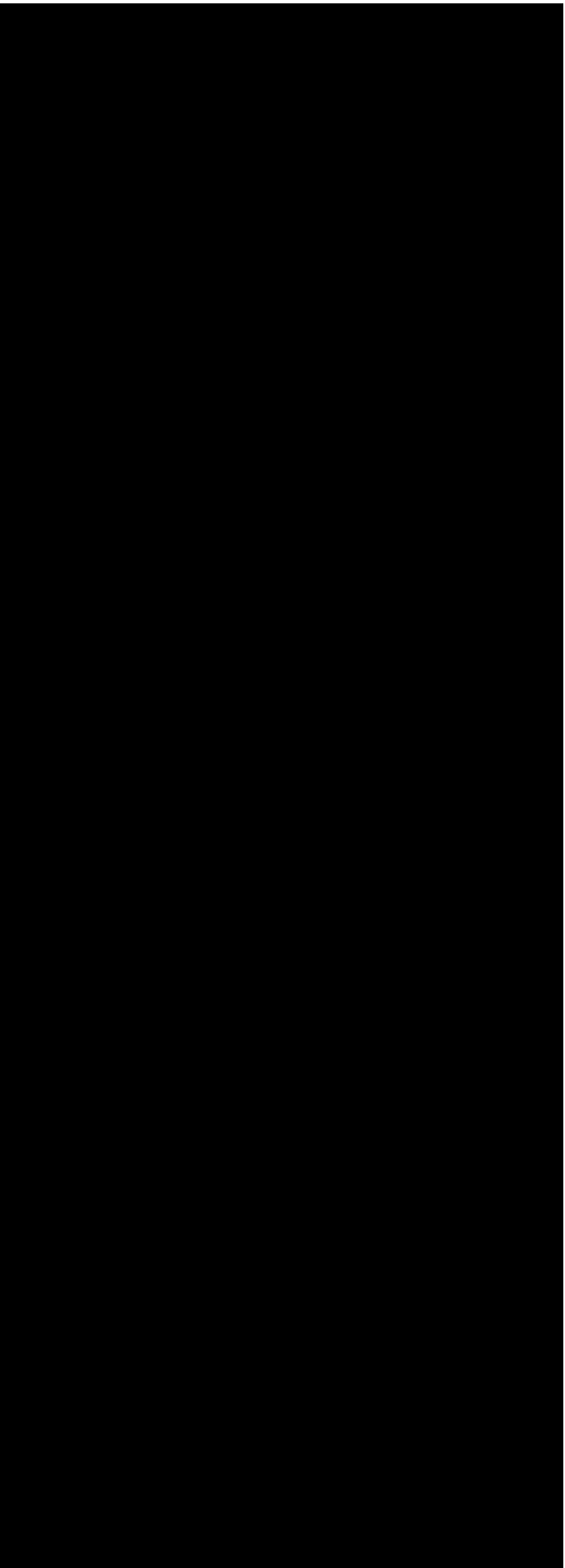
Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping



1:25,000 mapping



Key to Numbers on Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1908	7
Cheshire	1:10,560	1911	8
Cheshire	1:10,560	1911	9
Lancashire And Furness	1:10,560	1928	10
Lancashire And Furness	1:10,560	1928	11
Lancashire And Furness	1:10,560	1938	12
Cheshire	1:10,560	1938	13
Lancashire And Furness	1:10,560	1938 - 1951	14
Ordnance Survey Plan	1:10,000	1955 - 1956	15
Ordnance Survey Plan	1:10,000	1967	16
Ordnance Survey Plan	1:10,000	1974 - 1977	17
Liverpool	1:10,000	1974	18
Ordnance Survey Plan	1:10,000	1982	19
St Helens	1:10,000	1984	20
Ordnance Survey Plan	1:10,000	1990	21
10K Raster Mapping	1:10,000	1999	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2020	24

Russian Map - Slice A



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

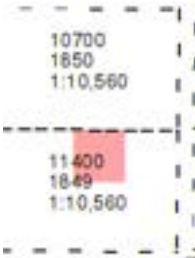
Lancashire And Furness

Published 1849 - 1850

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

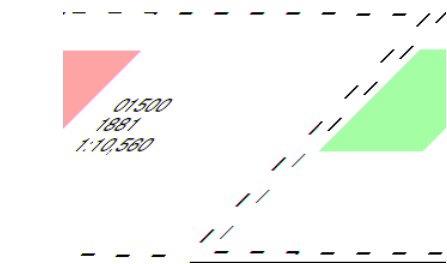
Cheshire

Published 1881

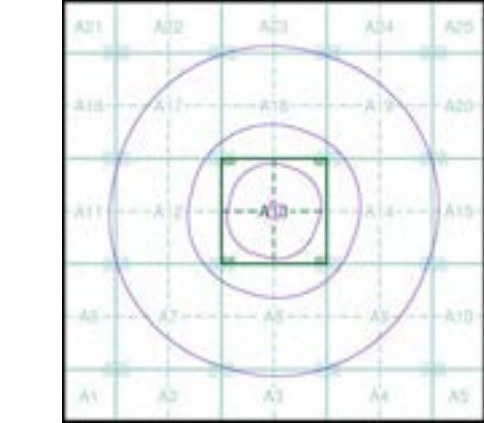
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

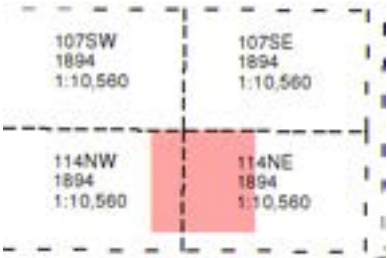
Lancashire And Furness

Published 1894

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



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Order Number: 236322359_1_1
Customer Ref: SCT
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Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

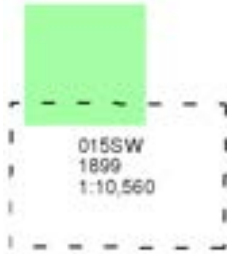
Cheshire

Published 1899

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Slice: A
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Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

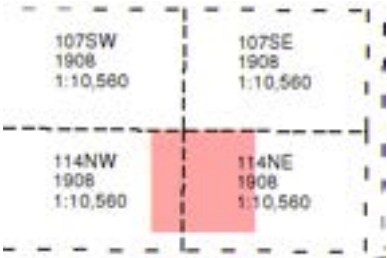
Lancashire And Furness

Published 1908

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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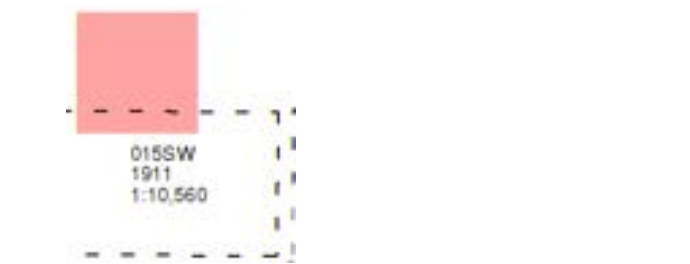
Cheshire

Published 1911

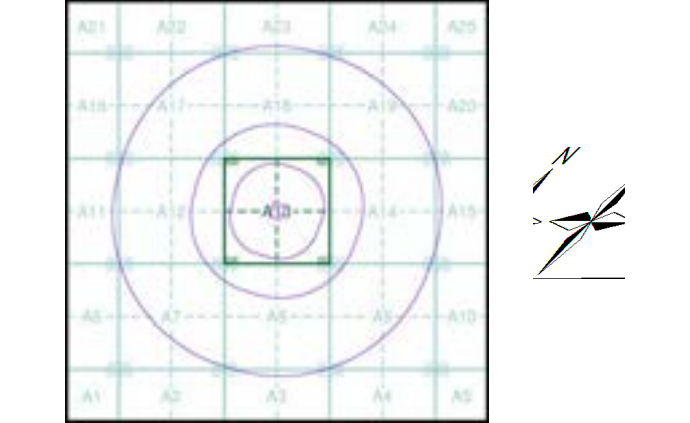
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Site Details

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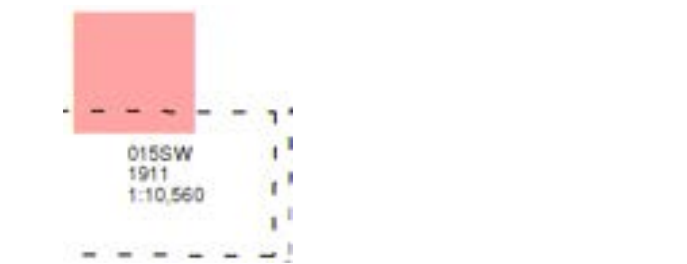
Cheshire

Published 1911

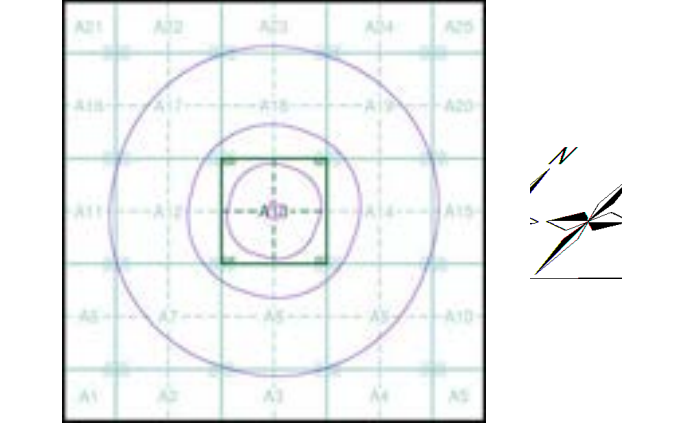
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840’s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940’s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Site Details

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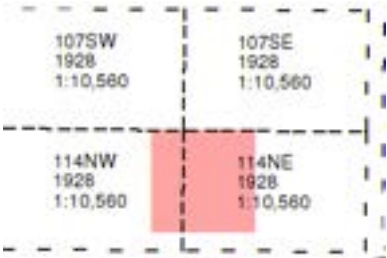
Lancashire And Furness

Published 1928

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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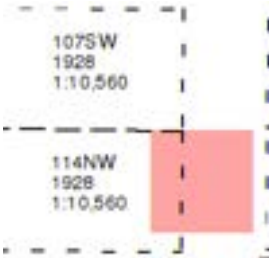
Lancashire And Furness

Published 1928

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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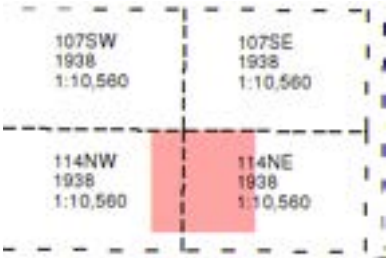
Lancashire And Furness

Published 1938

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Site Details

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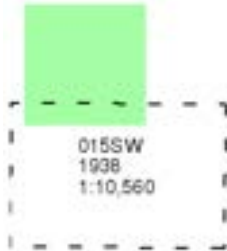
Cheshire

Published 1938

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Site Details

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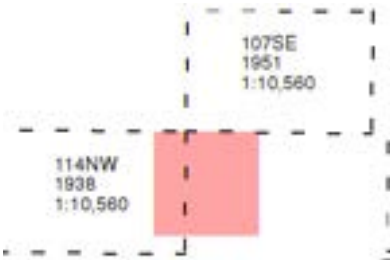
Lancashire And Furness

Published 1938 - 1951

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



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Order Number: 236322359_1_1
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National Grid Reference: 346250, 387640
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Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

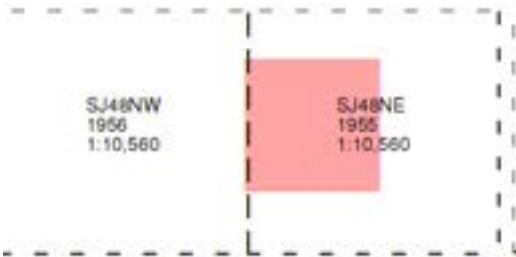
Ordnance Survey Plan

Published 1955 - 1956

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



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Site Details

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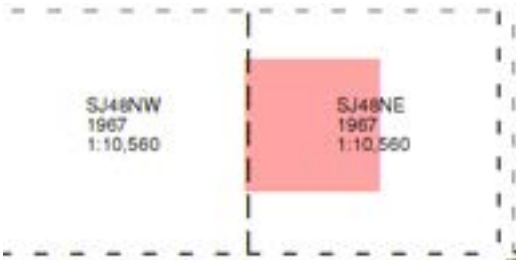
Ordnance Survey Plan

Published 1967

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



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National Grid Reference:

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Site Area (Ha):

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Site Details

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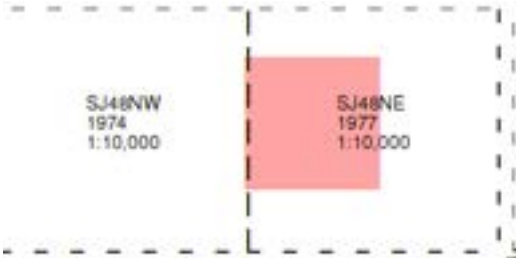
Ordnance Survey Plan

Published 1974 - 1977

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Customer Ref:	SCT
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Slice:	A
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Site Details

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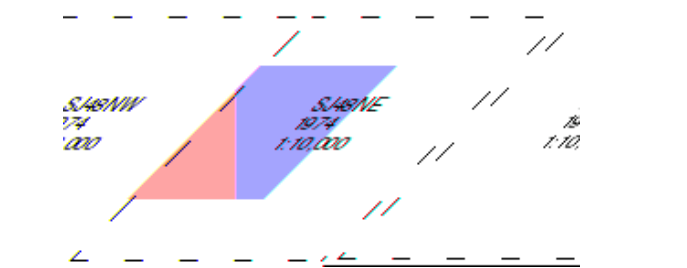
Liverpool

Published 1974

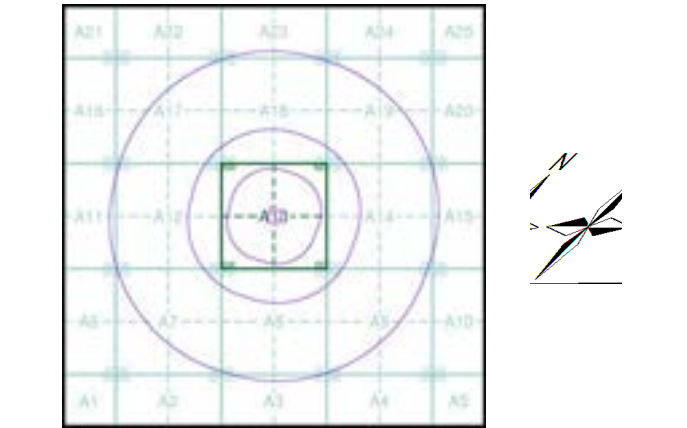
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

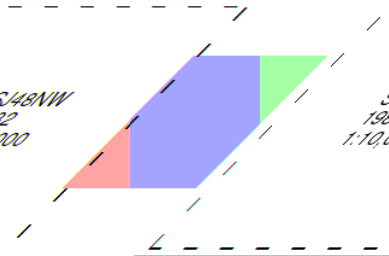
Ordnance Survey Plan

Published 1982

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



Order Details

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236322359_1_1

Customer Ref:

SCT

National Grid Reference:

346250, 387640

Slice:

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Site Area (Ha):

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Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

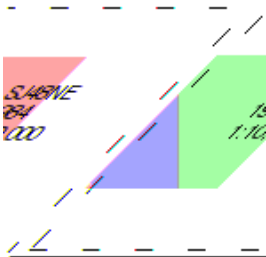
St Helens

Published 1984

Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

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Russian Map - Slice A



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Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

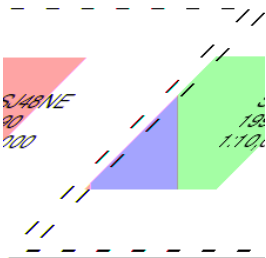
Ordnance Survey Plan

Published 1990

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Site Details

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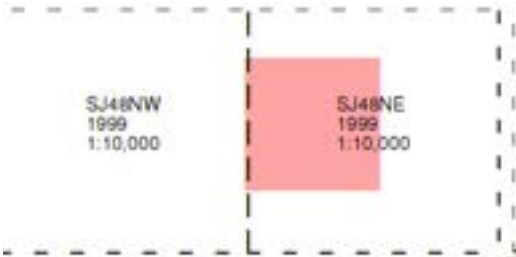
10k Raster Mapping

Published 1999

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:

236322359_1_1

Customer Ref:

SCT

National Grid Reference:

346250, 387640

Slice:

A

Site Area (Ha):

0.7

Search Buffer (m):

1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

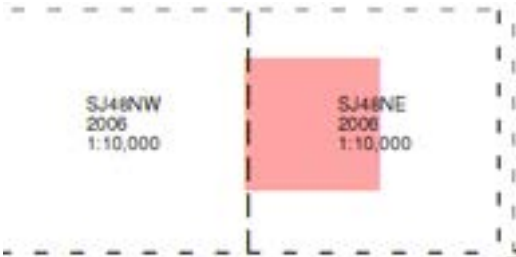
10k Raster Mapping

Published 2006

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



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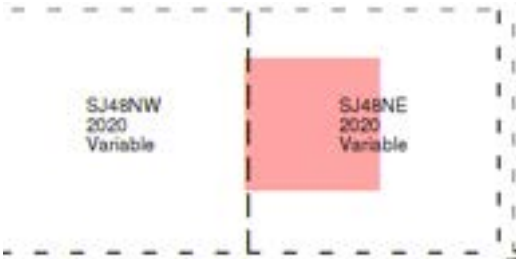
VectorMap Local

Published 2020

Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 236322359_1_1
Customer Ref: SCT
National Grid Reference: 346250, 387640
Slice: A
Site Area (Ha): 0.7
Search Buffer (m): 1000

Site Details

Sterling Inks UK, Woodend, Netherley Road, TARBOCK GREEN, L35 1QE

Appendix 4:

Watching Brief

Warrington Office
38 Padgate Lane
Padgate
Warrington
WA1 3RU
Tel: 01925 491011

Lancaster Office
2nd Floor, Gordon
Manley Building
Lancaster Environment
Centre
Lancaster University
Lancaster
LA1 4YQ
Tel: 01524 510475



Watching Brief for the Proposed Development at Sterling Inks UK Ltd, Netherley Road, Tarbock Green, Prescott, L35 1QE

During all stages of the development at Sterling Inks UK Ltd, Netherley Road, Tarbock Green, Prescott, L35 1QE, it shall be the responsibility of the on-site manager to certify that the watching briefs are undertaken and documented. The on-site manager will need to keep a record of any observations of contamination, including any made during construction. This includes a photographic record throughout the different stages of construction, for example: formation of landscaped or garden areas or any reduced level dig/mass excavation.

Conditions of the Watching Brief:

1. Written Statement

As the works are ongoing or upon completion, it is required that the Ground Works Contractor, the On-site Manager and the appointed Environmental Consultant at Peak Associates all provide a written statement following the template below. The statement must clearly state whether there was evidence that the site was contaminated or not and whether the appropriate actions were taken.

Table 1. Examples of evidence of contamination

Evidence	Example Description
Visual	Asbestos Fibres Marked unusual variation in colour e.g. blue soil Waste materials e.g. tar, ash Fuel/oil/chemical substances within the soil or within ground or surface waters
Odours	Fuel/oil/chemical like odours Unusual odours e.g. fishy odour
Physical	Reaction of skin from contact with soil or surface waters Burning of eyes or nasal passages

Written Statement for the Site at Sterling Inks UK Ltd, Netherley Road, Tarbock Green, Prescot, L35 1QE

Forename:

Surname:

Company Name:

Type of Work Undertaken:

Start Date:

Finish Date (if known):

During the course of work at Sterling Inks UK Ltd, Netherley Road, Tarbock Green, Prescot, L35 1QE, we observed (tick the appropriate box);

- ☐ No potential contamination
- ☐ Evidence of contamination
- ☐ Significant evidence of contamination

If evidence of contamination was found please provide information on the following;

- Location of where the observation of contamination was identified (mark the areas affected on the site plan)

- The type of contamination identified (include a description of the observations of the contamination)

- Who was notified of the observations

- What action was taken to mitigate/clear up the contamination

- The on-site manager statement must include confirmation of whether all site staff and contractors received an appropriate brief regarding the potential presence olfactory contamination

Signed:

Date:

2. Staff Training

All site staff, contractors and site visitors are to be briefed on the potential for contamination before entering the site and commencing work. This will include the following information:

- Health & Safety considerations, as well as any standard Health & Safety practices
- The type of contamination expected at the development site based on the Phase 1 site investigation
- Particular areas susceptible to contamination
- Staff responsibilities (Outlined in Section 4)

3. Construction Workers Risk Assessment

A thorough Health & Safety risk assessment, in line with current guidance and Health & Safety rules, must be undertaken before the work is commenced and appropriate PPE must be worn by members on site.

4. Discovery Strategy

If contamination is found on site at any time then it must be reported to Knowsley Metropolitan Borough Council within seven days of identification. Development on-site must be stopped immediately until further notice from the council. The discovery strategy in Table 2 sets out the actions required if evidence of contamination is found.

Table 2. Actions that must be taken if evidence of contamination is found.

Person Observing Contamination	To be reported to:	Action Required
Site Visitor	The on-site manager	All work to be stopped immediately where possible and is safe to do so before reporting it to the on-site manager.
Contractor	The on-site manager	All work to be stopped immediately where possible and is safe to do so before reporting it to the on-site manager.
On-site Manager	To their direct manager, the appointed Environmental Consultant at Peak Associates, the Planning Authority and the Contaminated Land Officer at Knowsley Metropolitan Borough Council	All work to be stopped immediately where possible and is safe to do so before reporting it to others and ensure the area is safe and secure and marked as a potential hazard.
Environmental Consultant	The site manager, the Planning Authority and the Contaminated Land Officer at Knowsley Metropolitan Borough Council	Ensure that work is stopped the site manager and ensure the area is safe and secure and marked as a potential hazard.

In case of an emergency or where pollution to controlled waters or nuisance is occurring contact the following contacts in Table 3.

Table 3. List of contacts in case of an emergency or pollution risk.

Occurrence	Contact
Nuisance to residents/the public	• Emergency services if there is a risk to life • Contaminated Land Officer at Knowsley Metropolitan Borough Council • Health & Safety Executive
Risk to the public e.g. dust, odours etc.	• Pollution Control Team at Knowsley Metropolitan Borough Council
Pollution of controlled waters e.g. chemical spillage entering a river	• Environmental Agency • Planning Authority and Contaminated Land Officer at Knowsley Metropolitan Borough Council
Pollution of adjoining land	• The owner of the land • Planning Authority and Contaminated Land Officer at Knowsley Metropolitan Borough Council

It would be advised that if any remedial works that become required on site, that you contact the assigned Environmental Consultant at Peak Associates as the works will need to be agreed with the council before being applied.