Moor Lane Service Station, Harton, South Shields	SUBADRA Environmental - Geotechnical - Laboratory - Foundations 13 Triangle Business Park, Stoke Mandeville, HP22 5BL Tel: 01296 739400 Email: consultants@subadra.com

PHASE ONE ENVIRONMENTAL DESK STUDY REPORT
(PRELIMINARY RISK ASSESSMENT)



Report Prepared By:	Report Reviewed By:
[redacted]	[redacted]
Will Atkins	James Edley

Contents

1 INTRODUCTION 3
1.1 The Purpose of This Assessment 3
1.2 The Scope of This Assessment 3
1.3 Previous Reports Relating to the Site 3
1.4 Proposed Development Plans 4
2 DESK STUDY INFORMATION 4
2.1 Site Description, Location and Setting 4
2.2 Geology, Hydrogeology and Hydrology 6
2.3 Site History 7
2.4 Additional Information 9
3 DATA GAPS AND UNCERTAINTIES 10
4 PRELIMINARY RISK ASSESSMENT 11
4.1 Review of Potential Contaminants Sources 11
4.2 Conceptual Site Model 11
5 CONCLUSIONS AND RECOMMENDATIONS 13
6 REFERENCES 14

List of Attachments

Attachment One: Notice to Interested Parties
Attachment Two: Environmental Data Report and Historical Maps

1 Introduction

1.1 The Purpose of This Assessment

We were commissioned by SRJ Energy Limited to undertake a Phase One Environmental Report (also known as a Preliminary Risk Assessment) for Moor Lane Service Station, located on Moor Lane in South Shields, Tyne and Wear. The site comprises an operational petrol filling station. We understand that our client proposes to purchase the site for continued use as a retail filling station.

The purpose of this assessment was to develop an initial conceptual site model of the site and establish whether or not there are potentially unacceptable risks to sensitive receptors from potential contaminants that may be present in the soil and/or groundwater under the site. We have not carried out any intrusive investigation of the site and have made no measurements of actual contamination levels that may be present.

Our assessment has been undertaken in accordance with the guidelines presented in the Environment Agency, 'Model Procedures for the Management of Land Contamination'[1]. and Environment Agency Guidance on Requirements for Land Contamination Reports[2].

All the activities comprising this assessment were carried out in accordance with the procedures set out in our Quality Manual. Your attention is drawn to the Notice to Interested Parties included as Attachment One.

1.2 The Scope of This Assessment

Our assessment included:

- A review of geological, hydrogeological and hydrological information to establish environmental sensitivities at the site and in its vicinity;
- A review of environmental data from previous environmental works.
- A review of available historical information to determine the historical use of the site and its immediate surroundings;
- Preparation of a report, outlining findings and recommendations, including requirements for any further work.

The findings and opinions in this review are based upon information obtained from the sources outlined above. Information obtained from third parties has been accepted at face value; we believe this information to be reliable but do not guarantee its authenticity. Where practicable the information provided was confirmed from a secondary source such as the review of available municipal records.

1.3 Previous Reports Relating to the Site

We do not hold, and have not been provided with, any previous reports relating to the site.

---

[1] DEFRA and Environment Agency (2004) "Model Procedures for the Management of Land Contamination" Report CLR 11 Environment Agency, Bristol.

[2] Environment Agency (2005) "Guidance on Requirements for Land Contamination Reports" Version 1.

1.4 Proposed Development Plans

Proposed Developments	We are not aware of any proposals to carry out redevelopment works at the site.

Table One: Proposed Development Plans

2 Desk Study Information

2.1 Site Description, Location and Setting

Site Description	The site is an operational petrol filling station and comprises a single storey shop building, a petroleum forecourt with overhead canopy.		
Grid Reference	437570 564910	Location	The site is located in a mixed residential and commercial area of Harton in South Shields, Tyne and Wear.
Elevation	26m AOD		
Size (approx)	~0.04ha		

Table Two: Site Location and Setting

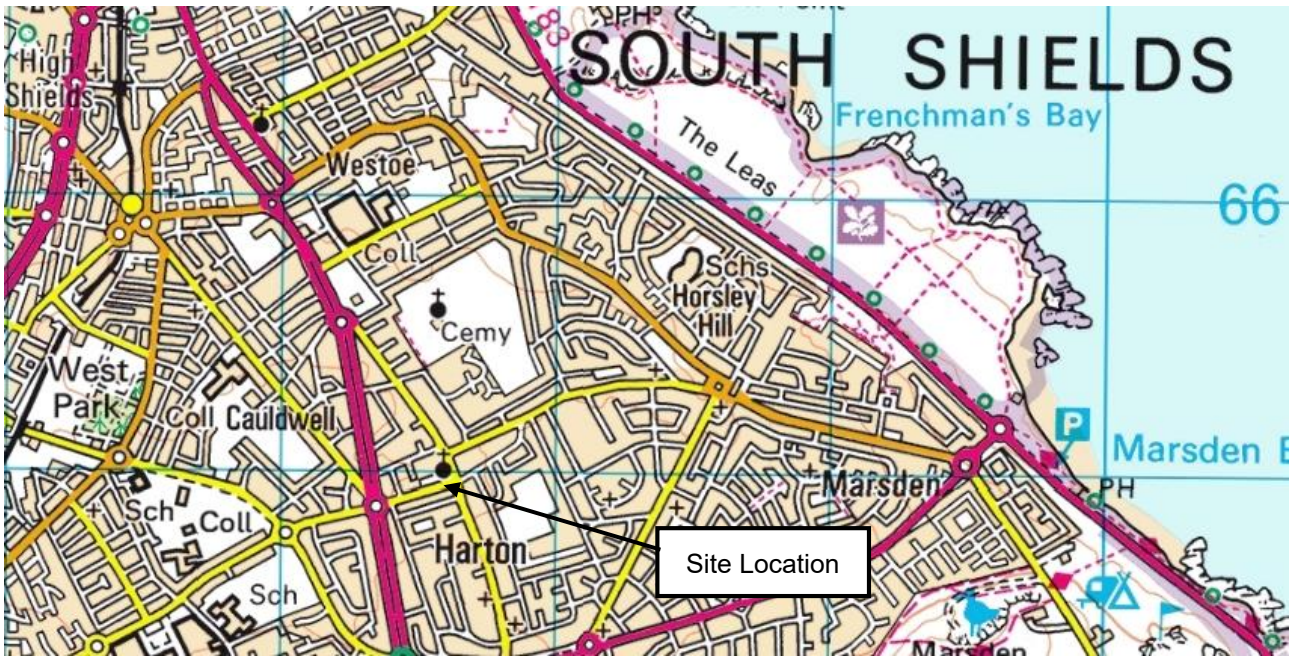


Figure One: Site Location Map



Figure Two: Aerial; Photograph Showing Site Layout

Direction	Details
North	St Peter's Church across Moor Lane (20m), beyond this, residential dwellings (130m)
East	Commercial buildings, including a car dealership (<10m), a dry cleaners and a hair salon (50m). Beyond this more commercial buildings across Sunderland Road (75m).
South	Residential dwellings, situated on Moor Avenue (<5m). Beyond this, more residential dwellings (30m).
West	Residential dwellings, situated on Moor Avenue (<5m). Beyond this, more residential dwellings (20m).

Table Three: Surrounding Land Use

2.2 Geology, Hydrogeology and Hydrology

	Geological Unit	Description	Estimated Thickness	Data Source
Drift Geology	Devensian Till - Diamicton [present at site location and locally in all directions]	Brown sand with beds of brown silty clay or brown and grey brown gritty stony clay.	<5m	British Geological Survey
	Pelaw Clay Member [Shown directly to the west, likely to overlie the Till]	Red brown to dark brown silty clay containing well dispersed pebbles and cobbles and small, shaped calcareous concretions.	<5m	
Solid Geology	Yellow Sand Formation [likely to be present at site location, but absent to west]	Medium and fine-grained, cross-stratified, yellow sand or sandstone	>25m	
	Pennine Middle Coal Measures Formation [shown as being present beneath the Yellow Sand]	Interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams	>25m	
Previous Investigation Data	BGS borehole log NZ36NE1125 located 130 metres to the north describes the geology in this location as ~0.5m of Made Ground over clay to 1.7m over sand to 5m below ground level. No coal measures were detected in this borehole. BGS borehole log NZ36NE78 located 330m to the north describes the geology in this location as inter bedded mudstone with seams of coal and shale to 5m over inter bedded sandstone and mudstone layers with frequent coal seams to 33m below ground level.			

Table Four: Regional Geology

	Geological Unit	Environment Agency Aquifer Classification	Data Source
Drift Geology	Devensian Till- Diamicton	Secondary Aquifer (Undifferentiated)	Environment Agency
	Pelaw Clay Member	Unproductive Strata	
Solid Geology	Yellow Sand Formation	Principal Aquifer	
	Pennine Middle Coal Measures Formation	Secondary Aquifer (Class A)	
Previous Investigation Data	BGS borehole logs NZ36NE1125 and NZ36NE78 both did not record groundwater strikes to 33m below ground level.		British Geological Survey

Table Five: Regional Hydrogeology

	Description	Data Source
Surface Water Features	None identified within 2km of the site	Ordnance Survey

Table Six: Regional Hydrology

Abstraction	Surface Water			Groundwater		
	Distance	Direction	Purpose	Distance	Direction	Purpose
Nearest Nearest Public Water Supply	None identified within 1km of the site			None identified within 1km of the site		
Drinking Water Safeguard Zone'	The site does not lie within a designated Drinking Water Safeguard Zone					
Source Protection Zone	Not applicable			The site does not lie within designated Source Protection Zone		

Data sourced from Environment Agency

Table Seven: Nearest Surface and Groundwater Abstractions

2.3 Site History

Date	Review of Map – Description of Land Use at Site and in the Immediate Surrounding Area	Potentially Contaminative Land-use	
		On-site	Off-site
1897	The site is developed with one dwelling on site, possibly residential. St Peter's church is present to the north and Harton Hall to the east. The Vigilante Inn and a school are located to the north east and west. A vicarage is shown to the south east.	None identified	None identified
1916	The dwellings shown on the previous map have been demolished. The site appears to have been split into two plots, with one showing a small building having been built. The buildings in the immediate vicinity remain unchanged.		

Table continued on following page

Table continued from previous page

1942	The site remains split into two plots. The previous building has been demolished and two dwellings now stand on each of the plots. Moor Lane is now labelled as a road. Immediately to the east, south and west, residential dwellings have been erected. Harton Hall has been demolished and on the land there are a total of five new buildings. The area surrounding the site has become densely populated with residential dwellings. St Peter's Church and the vicarage remain.	None identified	None identified
1956	There are no significant changes to the site or the majority of the surrounding land use. To the north west, the school has now changed to a church hall.		
1963-1974	The two plots of land on the site have been conjoined. There is only one building on site now, labelled as a garage. It is unknown whether this is just a retail filling station or whether a workshop is present. There are no significant changes surrounding the site	Contaminative activities associated with the garage e.g. Hydrocarbons, waste oil, mineral oil.	
1970	The site layout has changed, a square building that looks like a filling station canopy has been constructed. There are no other significant changes to the surrounding land use.		
1993	Site is still labelled as a garage; however the configuration has changed to a single building with no obvious canopy outline. There are no significant changes to the surrounding land use.		

Copies of each historical map are included as Attachment Two

Table Eight: Historical Maps Review

Date	Application Number	Local Planning Authority – Planning Records (from South Tyneside Council website)	Evidence of Development
11/08/1981	ST/0803/81 //DM	Redevelopment of petrol station forecourt to provide new central island incorporating 3 pumps, overhead canopy, new shop fronts to existing showroom, sales area and installation of underground storage	Application was granted with conditions in 1982. No related documents or correspondence between the two parties is available to view to confirm the development.

Table continued on following page

Table continued from previous page

15-04-1994	ST/0279/94 //DM	Proposed redevelopment of existing petrol filling station	Application was granted with conditions in 1994. No related documents or correspondence between the two parties is available to view to confirm the development.
08/02/1995	ST/0279/94 /01/DM	Submission of condition 3 details of lighting layout for proposed redevelopment of petrol filling station.	Application was granted in 1995. However, there is no evidence to confirm the development took place.
20/02/1995	ST/0091/95 //AD	Retrospective application for display of illuminated oil company identification and price display sign 1.3m x 4.075m	No - Permission refused
06/02/1996	ST/0024/96 //AD	Resubmission of ST/91/95/AD for display of illuminated pole sign 2.4m high	Yes - Application was granted with conditions in 1996 and there is a sign present on the forecourt.
17/03/2004	ST/0392/04 //AD	Retrospective application for advertisement consent for the erection of 1no internally illuminated single sided free standing display unit. (Adjacent to forecourt shop).	Yes - Application was granted with conditions in 2004 and a sign is present on the forecourt.
02/06/2004	ST/0786/04 //AD	Retrospective application for advertisement consent for 1no illuminated single sided free standing advertising display unit. (Adjacent to forecourt exit)	Yes- Application was granted with conditions in 2004 and an advertisement sign is now present by the forecourt exit.

Table Nine: Planning Records

2.4 Additional Information

Flood Risk Zone	Flood Risk	Data Source
Zone 1	An area where flooding from rivers and the sea is very unlikely. There is less than a 0.1 per cent (1 in 1000) chance of flooding occurring each year. The majority of England and Wales falls within this area. A flood risk assessment is not likely to be required as part of future planning applications.	Environment Agency

Table Ten: Preliminary Flood Risk Assessment

Risk	Description	Data Source
Radon Risk	The site is located in an area where the National Radiological Protection Board has determined that 1-3% of houses are affected by radon. This places the site in a medium risk area for radon. Current Building Regulations do not require any radon protective measures be included in the construction of new residential buildings or extensions.	Public Health England
Nearest Landfill	The Environment Agency records show that there are no current or past landfill sites within 250m of the site. The site is therefore unlikely to be at-risk of impact from elevated concentrations of hazardous ground gases that are commonly associated with landfill sites e.g. methane or carbon dioxide. As such we do not consider monitoring or assessment are required as part of any future investigation works and no special precautions are likely required to prevent landfill gas infiltration into the current building or future developments at the site.	Environment Agency
Risk of Coal Mining	The site is located considered to be in a development high risk area with respect to shallow coal mine workings.	Coal Authority
Solution Feature Risk	The potential for dissolution stability hazards at the site's location has been assessed by the British Geological Survey, who has classified the site's location as (Very Low Risk). This is defined as being in a location where soluble rocks are present, but are unlikely to cause problems except under exceptional conditions. The BGS advise that no special ground investigation is required or increased construction costs. An increase in financial risk due to problems with soluble rocks is unlikely. We have identified three solution features within 1km of the site.	British Geological Survey

Table Eleven: Landfill, Radon Gas and Coal Mining Risk

Receptor	Description	Data Source
Other Sensitive Sites	We have not identified any other environmentally sensitive areas within 2km of the site.	Environment Agency

Table Twelve: Other Environmental Receptors

3 Data Gaps and Uncertainties

Any data gaps and uncertainties highlighted as part of our initial assessment of site conditions are presented in the table below.

Data	Details	Further Works Required?
Historical review	Review of historical maps completed and considered adequate. Our review of planning records has identified additional previous land uses.	No
Petroleum infrastructure	We have no records of the petroleum infrastructure present on the site via a walkover or petroleum officer data search. The current age and status of infrastructure is unknown. Site has been in use as a retail filling station for at least 30 years. Redevelopment works have also taken place during this time. There is potential for abandoned tanks to still be present beneath the forecourt.	Yes

Table Thirteen: Summary of Data Gaps and Uncertainties

4 Preliminary Risk Assessment

4.1 Review of Potential Contaminants Sources

Based on our historical review we have identified the following potential contaminants of concern associated with the site's (and surrounding land) current and/or historical land use:

Land Use	Potential Contaminants of concern	Relevant Chemical Analysis
Made Ground	Possibly present directly beneath hardstanding - can contain a variety of potential contaminants.	Asbestos Heavy Metals Total Petroleum Hydrocarbons Volatile Organic Compounds (including benzene, toluene, ethyl-benzene and xylenes). Polycyclic aromatic hydrocarbons
'Garage' - including retail filling station and workshop	Hydrocarbons, including fuels (petrol and diesel), waste oil and mineral oil. Heavy metals	
Off-site sources of contamination	None identified	Not applicable

Table Fourteen: Potential Contaminants of Concern

4.2 Conceptual Site Model

We have used the information presented in the previous sections of this report to create an outline Conceptual Site Model for the site. We have reviewed potential contaminants and their receptors together with any possible pathways that may link them. The resulting pollutant linkages are summarised below.

Contaminant	Pathway	Receptor	Viable Pollutant Linkage
Site has been in use as a retail filling station for >40 years. The fuel infrastructure is considered a potential source of hydrocarbon contamination. Made Ground may be present at the site and may also constitute a potential source of contamination	Ingestion and dermal contact	Site workers	No - site covered with hard standing; this will act as a barrier and mitigate risk of impact
	Permeation of contaminants, particularly hydrocarbons, into drinking water supply service pipes		Possible - subject to the concentrations of hydrocarbon compounds present in shallow soil and/or groundwater
	Volatilisation of hydrocarbons to indoor/outdoor air (either direct from soils or dissolved in groundwater)		Possible - subject to concentrations of any volatile contaminants in shallow soil and/or groundwater
	Off-site migration of hydrocarbons: volatilisation to indoor/outdoor air (vapours from on-site soils or via lateral migration of dissolved compounds)	Residential and commercial properties adjacent to the site	Possible - Subject to concentration of hydrocarbons present in relation to the site boundary
	Downward migration of contaminants to groundwater	Devensian Till (Secondary Aquifer)	Possible - Subject to the presence of any shallow contamination. Some protection may be afforded if the Pelaw Clay (likely to have low permeability) is present overlying the Till.
		Pelaw Clay (Unproductive Strata)	No - not classified as controlled waters, no receptor
		Yellow Sand (Principal Aquifer)	Possible - Subject to the presence of any shallow contamination Some protection may be afforded if the Pelaw Clay and Till (subject to composition)
		Middle Coal Measures (Secondary Aquifer)	
	Off-site migration of contaminants dissolved in groundwater leading to direct impact of environmental receptors	Nearby surface water features and or surface/ groundwater abstractions	No - No at risk receptors identified within 1km of the site.

Table Fifteen: Conceptual Site Model

Item	Data
Has our qualitative assessment confirmed that potential viable pollutant linkage(s) exist at the site?	Yes
We therefore consider investigation and/or risk assessment works are required. See below for our conclusions and any recommendations for further works.	

Table Sixteen: Results of Preliminary Risk Assessment

5 Conclusions and Recommendations

We make the following conclusions based on the results of our desk top review and preliminary assessment:

- The site has been in use as a garage/petrol station since at least 1963. We have no records of the age of the current petroleum infrastructure. However, we understand from our historical that a full redevelopment of the site, likely to include new fuel tanks, was undertaken in 1981.
- The primary contaminants that we have identified as petrol and diesel fuels, associated with the site's use as a retail filling station, and possible waste/mineral oils associated with past vehicle repair operations.
- The shallow soil underlying the site comprises Devensian Till (sand, clay and silt) up to 5m in thickness; Pelaw Clay Formation (clay) is also shown to be present locally and may extend onto the site (over the Till). Bedrock geology is likely to comprise Yellow Sand Formation (Sandstone Principal Aquifer) overlying Pennine Middle Coal Measures (mudstone, siltstone and sandstone, and classified as a Secondary Aquifer).
- Shallow groundwater is likely to be present within the Till (classified as a Secondary Aquifer) or resting on the surface of the Pelaw Clay. Groundwater is also likely to be present at greater depths (possibly >30m) within the Coal Measure and/or Yellow Sand Formation (classified as a Secondary and Principal aquifer, respectively).
- Based on the above information we would consider the site is located in an area of moderate environmental sensitivity with respect to the underlying groundwater, primarily associated with the Yellow Sand Principal Aquifer.
- Due to the site's extended use as a garage there is the potential for contamination to be present in shallow soil and groundwater. Subject to the composition of shallow soils, there is the potential for mobile shallow contaminants to migrate downwards to the more sensitive underlying bedrock formations.
- An intrusive borehole investigation would be required to verify whether or not soil and/or groundwater beneath the site has been impacted.

Your attention is drawn to the Notice to Interested Parties included as Attachment One.

Table Seventeen: Conclusions and Recommendations

6 References

Baker, K., Hayward, H., Potter, L., Bradley, D. and McLeod, C. (2009), CIRIA Report C682. The VOCs Handbook. Investigating, assessing and managing risks from inhalation of VOCs at land affected by contamination (London: CIRIA).

British Standards Institution (BSI) (1990), 'BS 1377:1990. Methods of test for soils for civil engineering purposes'.

British Standards Institution (1999), 'BS 5930:1999. Code of practice for site investigations'.

British Standards Institution (2011), 'BS 10175:2011. Investigation of potentially contaminated sites: Code of practice'.

Building Research Establishment (BRE) (2001), BRE Report 414. Protective measures for housing on gas-contaminated land (London: BRE).

Building Research Establishment (2005), BRE Special Digest 1: Concrete in aggressive ground (London: BRE).

Building Research Establishment (2007) BRE Digest 365. Soakaway design (London: BRE).

Chartered Institute for Environmental Health and Land Quality Management (2009), 'The LQM/CIEH Generic Assessment Criteria for Human Health', second edition.

Chartered Institute of Environmental Health (CIEH) and CL:AIRE (2008), Guidance on Comparing Soil Contamination Data with a Critical Concentration (London: CIEH).

CL:AIRE (2009), Soil Generic Assessment Criteria for Human Health Risk Assessment (London: CL:AIRE).

CL:AIRE (2011), CL:AIRE Code of Practice. The Definition of Waste: Development Industry Code of Practice, Version 2 (London: CL:AIRE).

Dangerous Substances Directive (76/464.EEC).

Environment Agency (2013), 'Technical Guidance WM2. Interpretation of the definition and classification of hazardous waste'.

Environment Agency (2004a), Model Procedures for the Management of Contaminated Land. Contaminated Land Report Number 11 (CLR11), September (Bristol: Environment Agency).

Environment Agency (2004b), 'Policy Number 199_04, dated 9 March 2004, Part IIA – Detailed Quantitative Assessment of Chronic Risks to Human Health from Contaminated Soils'.

Environment Agency (2006a), 'Remedial Targets Methodology: Hydrogeological Risk Assessment for Land Contamination'.

Environment Agency (2008), Science Report SC050021/SR7. Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values (Bristol: Environment Agency).

Environment Agency (2009a), Contaminated Land Exposure Assessment (CLEA) software, version 1.06.

Environment Agency (2009b), Human health toxicological assessment of contaminants in soil. Science Report – Final SC050021/SR2, January (Bristol: Environment Agency).

Environment Agency (2009c), 'Science Report SC050021/benzene SGV, toluene SGV, ethylbenzene SGV, xylene SGV, mercury SGV, selenium SGV, nickel SGV, arsenic SGV, cadmium SGV, phenol SGV, dioxins, furans and dioxin like PCBs SGVs', 'Supplementary information for the derivation of SGV for: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and

dioxin- like PCBs', and 'Contaminants in soil: updated collation of toxicological data and intake values for humans: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin- like PCBs', March 2009, May 2009 and September 2009.

Environment Agency (2009d), Science Report – SC050021/SR3. Updated technical background to the CLEA model (Bristol: Environment Agency).

Environment Agency (2010a), 'GPLC1 – Guiding Principles of Land Contamination', 'GPLC2 – Frequency Asked Questions, Technical Information, Detailed Advice and References', and 'GPLC3 – Reporting Checklists'.

Environment Agency (2011) Chemical Standards Database.

Environment Agency (no date) Freshwater environmental quality standards.

Environment Agency www.environment-agency.gov.uk/.

Hartless, R. (1991), 'BRE Report 212: Construction of new buildings on gas-contaminated land', Building Research Establishment.

Hazardous Waste Regulations 2005 (London: HMSO).

Part IIA of the Environmental Protection Act (Contaminated Land Regulations (England) 2002 (London: HMSO).

UK Water Industry Research (2010) UKWIR Report 10/WM/03/21. Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites (London: UKWIR).

Water Framework Directive (2000/60/EC).

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

ATTACHMENT ONE:
NOTICE TO INTERESTED PARTIES

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

NOTICE TO INTERESTED PARTIES

The purpose of our site assessment is to provide general information on the environmental and/or geotechnical conditions existing at the site and related to soil and/or groundwater. The Client or others specified the scope of the investigation and the validity of our conclusions is limited by the scope of work specified. We are not responsible for any such limitations or omissions.

Where stated in this report, we have used information supplied by third parties. While we have evaluated as far as possible the validity of this information, we cannot guarantee its accuracy in any way whatsoever.

No investigation technique is capable of completely identifying all of the contaminants that might be present in the soil or groundwater under a site. Where specified in our report, we have examined the ground by constructing a number of boreholes and/or trial pits. We recovered samples of soil and/or groundwater from available exposures.

The depth and spacing of our Sampling locations were selected to ensure with a reasonable probability that they would be representative of the actual conditions across the whole site. However, safety considerations relating to existing site infrastructure may have restricted our ability to investigate all potential contaminant sources. Specifically, we were unable to investigate the soil and groundwater condition immediately adjacent to the underground structures and/or buried services. These limitations must be borne in mind when considering the conclusions reached in this report.

Soil is intrinsically variable and the spread of contaminants within the soil is therefore subject to a degree of non-uniformity. For these reasons no sampling technique can completely eliminate the possibility of obtaining samples that are not representative of the actual conditions. Our sampling techniques are intended to reduce the possibility to an acceptable level, within the limits imposed by the scope of the investigation.

Groundwater levels and soil vapour levels that we report were accurate at the time of the investigation. Groundwater and soil vapour levels are variable. Long term monitoring may be required to ensure that the levels recorded during our investigation are representative of long term and possible ‘worst case’ conditions. In accepting our recommendations and/or conclusions the Client acknowledges that further, more detailed investigation would allow a more accurate assessment of site conditions to be made and that this would reduce any consequential risk to the Client.

This investigation was carried out to assess the significance of contamination resulting from use of the site as identified in this report. Unless we have indicated otherwise, no assessment of the potential impact of any other previous uses has been made. No investigation was carried out to determine whether or not any deleterious or hazardous materials (such as asbestos) have been used in the construction of the buildings present on the site. Unless otherwise stated no investigation or assessment has been made of the presence or otherwise of invasive plant species including but not limited to Japanese Knotweed.

We do not accept any responsibility for the cost of remedial works or other costs incurred in whatever way whatsoever as a result of any omissions, errors or other shortcomings in this report unless we have been given reasonable opportunity to verify ourselves that such faults exist and we have been given a reasonable opportunity to carry out works to remedy such faults ourselves using the most practicable means available to us. We do not accept liability for any consequential losses incurred by you while either we or others carry out any remedial works we deem necessary.

This report has been prepared for the Client, as specified on the cover page of this report. In accepting our recommendations and/or conclusions the Client accepts that the terms of our appointment were as detailed in the Proposal, or Proposals, that we provided to the Client before being appointed and that these terms supersede any other terms and/or conditions set out in any contracts agreed between ourselves and the Client, regardless of when such terms and/or conditions were agreed and/or signed.

Use of, and reliance on, this report by other third parties will be at such third parties own risk, and we are unable to accept any liability or responsibility to third parties.

Neither the whole nor any part of this report, or any reference to it, may be included in any published document circular or statement or published in any way without our prior written approval.

This report and its contents, together with any supporting correspondence or other documentation, remain the property of Subadra Consulting Limited until paid for in full.

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

ATTACHMENT TWO:
ENVIRONMENTAL DATA SHEET

Envirocheck®
LANDMARK INFORMATION GROUP®

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
104561081_1_1

Customer Reference:
IN16489

National Grid Reference:
437570, 564910

Slice:
A

Site Area (Ha):
0.04

Search Buffer (m):
1000

Site Details:

Village Car Centre
10 Moor Lane
SOUTH SHIELDS
Tyne and Wear
NE34 6BZ

Client Details:

Mr S Partridge
Subadra Consulting Ltd
Unit 13 Triangle Business Park
Wendover
Bucks
HP22 5BL

Envirocheck®
LANDMARK INFORMATION GROUP®

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	3
Hazardous Substances	-
Geological	5
Industrial Land Use	7
Sensitive Land Use	-
Data Currency	10
Data Suppliers	14
Useful Contacts	15

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

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.
A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v50.0

Envirocheck®
LANDMARK INFORMATION GROUP®

Summary

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	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
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 1	1			
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature					
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 1	Yes	n/a	n/a	n/a
Drift Deposits	pg 1	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 1	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Source Protection Zones	pg 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
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a

Envirocheck®
LANDMARK INFORMATION GROUP®

Summary

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 3				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 3				1
Local Authority Landfill Coverage	pg 3	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 4				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					
Geological					
BGS 1:625,000 Solid Geology	pg 5	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 5	Yes	n/a	n/a	n/a
Mining Instability	pg 5	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 5	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 5		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 5	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 5	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 6	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Envirocheck®
LANDMARK INFORMATION GROUP®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 7	3	7	6	14
Fuel Station Entries	pg 9	1			
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
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					
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	437571 564909
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	80	1	437571 565000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	86	1	437650 564850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	97	1	437571 564800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	230	1	437600 565150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	283	1	437700 564650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	440	1	437750 564500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	499	1	437100 564700
1	**Local Authority Pollution Prevention and Controls** Name: Three Mile Garage Location: 8-10 Moor Lane, SOUTH SHIELDS, Tyne and Wear, NE34 6BZ Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: STC/007/1.2(d)/B Dated: 24th November 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	0	2	437562 564903
	Nearest Surface Water Feature None				
	Water Abstractions Operator: Northumbrian Water Licence Number: 1/23/05/001 Permit Version: 100 Location: Borehole - Magnesian Limestone - Cleadon Authority: Environment Agency, North East Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5773 Yearly Rate (m3): 1241058 Details: Within The Authorised Area Of Supply Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th April 1968 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1747	3	438720 563580
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 5 Tyne and Tees Scale: 1:100,000	A13NW (NW)	0	3	437571 564909
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 5 Tyne and Tees Scale: 1:100,000	A13NW (NW)	0	3	437571 564909
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NW (NW)	0	1	437571 564909
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	1	437555 564907

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NW (W)	0	1	437557 564909
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (NW)	0	1	437571 564909
2	**Source Protection Zones** Name: Cleadon Source: Environment Agency, Head Office Reference: Ne029 Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SE (SE)	308	3	437693 564619
3	**Source Protection Zones** Name: Cleadon Source: Environment Agency, Head Office Reference: Ne029 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A8SE (S)	918	3	437814 564015
	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				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Historical Landfill Sites** Licence Holder: Borough Of South Tyneside Location: John Reid Road, South Shield, Tyne and Wear Name: Temple Memorial Park No.1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06272 First Input Date: 1st January 1957 Last Input Date: 1st January 1994 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: YO1/L/BOR004 WRC Ref: 4500/0035 BGS Ref: Not Supplied Other Ref: TW 111 ST ST 039, TW 032 ST, ST 006	A8NW (S)	637	3	437422 564274
5	**Historical Landfill Sites** Licence Holder: Borough Of South Tyneside Location: Temple Park, South Shield, Tyne and Wear Name: Temple Park No.2 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06275 First Input Date: 1st January 1950 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert, Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: YO1/L/BOR016 WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: TW 105 ST, TW 124 ST, ST 041, ST 037	A8NW (S)	637	3	437422 564274
6	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Nevinson Avenue, Whiteleas Name: Temple Park No.3 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06276 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: ST 019	A8NW (S)	637	3	437422 564274
7	**Licensed Waste Management Facilities (Locations)** Licence Number: 67001 Location: South Tyneside District Hospital, Harton Lane, South Shields, Tyne & Wear, NE34 OPL Operator Name: South Tyneside Health Care Trust Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Clinical Waste Transfer Stations **Licence Status: Surrendered** Issued: 30th September 1992 Last Modified: 30th September 1992 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 7th September 1999 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	992	3	436700 564400
	Local Authority Landfill Coverage Name: South Tyneside Metropolitan Borough Council - Has no landfill data to supply		0	4	437571 564909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Registered Waste Transfer Sites** Licence Holder: South Tyneside Health Care Trust Licence Reference: TW 262 ST Site Location: South Tyneside District Hospital, Harton Lane, SOUTH SHIELDS, Tyne and Wear, NE34 0PL Operator Location: As Site Address Authority: Environment Agency - North East Region, Northumbria Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence has completion certificateSurrendered Dated: 1st October 1991 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Clinical - As In Coll/Disp.Regs Of '88 Gen. Hosp./Dom./House'D On-Site Waste Max.Waste Normally Less Than Surplus Pharmaceutical Products Prohibited Waste: Waste N.O.S.	A7NW (SW)	992	3	436700 564400

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	437571 564909
	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	5	437571 564909
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (NW)	0	-	437571 564909
	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	437571 564909
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	80	1	437571 565000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	437571 564909
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	80	1	437571 565000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	437571 564909
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	73	1	437661 564914
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	80	1	437571 565000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	107	1	437655 565000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	437571 564909
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	80	1	437571 565000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	437571 564909
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	437557 564909
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	80	1	437571 565000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	92	1	437538 565000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	437571 564909
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	80	1	437571 565000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	437571 564909
	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	437571 564909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Contemporary Trade Directory Entries** Name: Moor Lane Service Station Location: 10, Moor Lane, South Shields, NE34 6BZ Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	437562 564903
9	**Contemporary Trade Directory Entries** Name: Village Car Centre Location: 10, Moor Lane, South Shields, Tyne and Wear, NE34 6BZ Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	437562 564903
9	**Contemporary Trade Directory Entries** Name: Henderson Motors Location: 10, Moor Lane, South Shields, Tyne and Wear, NE34 6BZ Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	437562 564903
9	**Contemporary Trade Directory Entries** Name: G & B Garages Ltd Location: 12, Moor Lane, South Shields, Tyne and Wear, NE34 6BZ Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	10	-	437596 564916
9	**Contemporary Trade Directory Entries** Name: Village Car Centre Location: 12, Moor Lane, South Shields, Tyne and Wear, NE34 6BZ Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (E)	10	-	437596 564916
9	**Contemporary Trade Directory Entries** Name: Posh Wosh Location: 168, Sunderland Road, South Shields, Tyne and Wear, NE34 6AB Classification: Laundries & Launderettes **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	41	-	437625 564926
10	**Contemporary Trade Directory Entries** Name: Northern Flame Location: 177a, Sunderland Road, South Shields, Tyne and Wear, NE34 6AD Classification: Woodburning Stoves **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	77	-	437664 564917
10	**Contemporary Trade Directory Entries** Name: Home Flame Heating Location: 169, Sunderland Road, South Shields, Tyne and Wear, NE34 6AD Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	79	-	437661 564941
10	**Contemporary Trade Directory Entries** Name: Harton Garage Location: 183, Sunderland Road, South Shields, NE34 6AQ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	83	-	437669 564894
11	**Contemporary Trade Directory Entries** Name: J Martin Architect Location: 12, Marsden Road, South Shields, Tyne and Wear, NE34 6DF Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	125	-	437646 565028
12	**Contemporary Trade Directory Entries** Name: All Clean Location: 98, St. Marys Avenue, South Shields, Tyne and Wear, NE34 6AG Classification: Cleaning Services - Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	287	-	437796 564713
13	**Contemporary Trade Directory Entries** Name: Gunns Cleaning Services Location: 65, Mitchell Gardens, South Shields, Tyne and Wear, NE34 6EF Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (N)	324	-	437695 565225

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Contemporary Trade Directory Entries** Name: Flip Flop Puzzle Mats Uk Location: 6, Harton Grove, South Shields, Tyne and Wear, NE34 6LT Classification: Floorcoverings - Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	377	-	437344 565221
15	**Contemporary Trade Directory Entries** Name: S W Home Inspection Location: 4, Lisle Road, South Shields, Tyne and Wear, NE34 6DQ Classification: Energy Efficient Products and Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	395	-	437913 565137
16	**Contemporary Trade Directory Entries** Name: D Parker Location: 30, Lisle Road, South Shields, Tyne and Wear, NE34 6DQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	402	-	437977 565014
17	**Contemporary Trade Directory Entries** Name: Scott Inspect Location: 52, King George Road, South Shields, Tyne and Wear, NE34 0SU Classification: Engineering Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	431	-	437240 565203
18	**Contemporary Trade Directory Entries** Name: Morpeth Mobiles Location: Harton Centre,52 Harton Lane, South Shields, Tyne And Wear, NE34 0EE Classification: Mobile Phone Accessories and Car Kits **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	536	-	437024 564827
19	**Contemporary Trade Directory Entries** Name: Kut Price Decorating Location: 137-141, Prince Edward Road, South Shields, Tyne and Wear, NE34 8PJ Classification: Painting & Decorating Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	583	-	437673 564326
20	**Contemporary Trade Directory Entries** Name: Apollo Blinds Location: 105, Prince Edward Road, South Shields, Tyne and Wear, NE34 8PJ Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	585	-	437614 564315
21	**Contemporary Trade Directory Entries** Name: Richard Pollard Location: 291, Sunderland Road, South Shields, Tyne and Wear, NE34 6RB Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	617	-	437847 564349
22	**Contemporary Trade Directory Entries** Name: Tech-Mo Location: Unit 2, 254, Sunderland Road, South Shields, Tyne and Wear, NE34 6QY Classification: Mobile Phone Accessories and Car Kits **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	645	-	437798 564298
23	**Contemporary Trade Directory Entries** Name: Harton Cemetery Location: Harton Cemetery Lodge, St. Georges Avenue, South Shields, Tyne and Wear, NE34 6EU Classification: Cemeteries & Crematoria **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	682	-	437388 565573
24	**Contemporary Trade Directory Entries** Name: Sunlight Services Ltd Location: 303, Prince Edward Road, South Shields, Tyne and Wear, NE34 7LZ Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A9NW (SE)	698	-	437987 564338

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Contemporary Trade Directory Entries** Name: Sparkling Sandancers Location: 24, Bramham Court, South Shields, NE34 0HP Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	705	-	437194 564293
26	**Contemporary Trade Directory Entries** Name: L Minchella Ltd Location: 363-365, Prince Edward Road, South Shields, Tyne and Wear, NE34 7LZ Classification: Ice Cream Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	725	-	438077 564375
27	**Contemporary Trade Directory Entries** Name: D E M Location: 134, Prince Edward Road, South Shields, Tyne and Wear, NE34 7PJ Classification: Swimming Pool Contractors, Repairers & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	810	-	438153 564330
27	**Contemporary Trade Directory Entries** Name: Mandel Chokes Location: 134, Prince Edward Road, South Shields, Tyne and Wear, NE34 7PJ Classification: Gunsmiths **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	810	-	438153 564330
28	**Contemporary Trade Directory Entries** Name: Mowbray Fabrications Location: 6, Oak Avenue, South Shields, Tyne and Wear, NE34 7PB Classification: Metal Products - Fabricated **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	950	-	438106 564114
29	**Contemporary Trade Directory Entries** Name: British Blinds Location: 39, St. Georges Avenue, South Shields, Tyne and Wear, NE33 3DU Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	982	-	437163 565808
30	**Contemporary Trade Directory Entries** Name: Highfield Service Centre Ltd Location: 99, Highfield Road, South Shields, Tyne and Wear, NE34 6JW Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	992	-	438152 565733
31	**Fuel Station Entries** Name: Moor Lane Filling Station Location: 8-10 Moor Lane, Harton, South Shields, Tyne & Wear, NE34 6BZ Brand: Gulf Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	0	-	437562 564903

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
South Tyneside Metropolitan Borough Council - Neighbourhood Services	December 2014	Annual Rolling Update
North Tyneside Metropolitan Borough Council - Environmental Health Department	March 2015	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	March 2015	Annually
Discharge Consents		
Environment Agency - North East Region	October 2016	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - North East Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	October 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2016	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Environmental Health Department	September 2012	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2016	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Environmental Health Department	September 2012	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2016	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Environmental Health Department	September 2012	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - North East Region	March 2013	As notified
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 East Region - North East Area	October 2016	Quarterly
Environment Agency - North East Region - Northumbria Area	October 2016	Quarterly
Water Abstractions		
Environment Agency - North East Region	July 2016	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2016	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified

Data Currency

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Environment Agency - Head Office	October 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2016	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	October 2016	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	October 2016	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	October 2016	Quarterly
Flood Defences		
Environment Agency - Head Office	October 2016	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	September 2014	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	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	August 2016	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region - North East Area	August 2016	Quarterly
Environment Agency - North East Region - Northumbria Area	August 2016	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - North East Area	October 2016	Quarterly
Environment Agency - North East Region - Northumbria Area	October 2016	Quarterly
Local Authority Landfill Coverage		
North Tyneside Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
South Tyneside Metropolitan Borough Council - Planning Department	May 2000	Not Applicable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
North Tyneside Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
South Tyneside Metropolitan Borough Council - Planning Department	May 2000	Not Applicable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites		
Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
North Tyneside Metropolitan Borough Council - Development Function	February 2016	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Planning Department	February 2016	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Planning	February 2016	Annual Rolling Update
Planning Hazardous Substance Consents		
North Tyneside Metropolitan Borough Council - Development Function	February 2016	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Planning Department	February 2016	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Planning	February 2016	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
Brine Compensation Area		
Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	As notified
Mining Instability		
Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	October 2016	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	July 2016	Quarterly
Gas Pipelines		
National Grid	July 2014	Quarterly
Underground Electrical Cables		
National Grid	January 2016	Bi-Annually
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland		
Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt		
North Tyneside Metropolitan Borough Council	September 2016	As notified
South Tyneside Metropolitan Borough Council - Planning Department	September 2016	As notified
Sunderland City Metropolitan Borough Council - Planning	September 2016	As notified
Areas of Unadopted Green Belt		
North Tyneside Metropolitan Borough Council	September 2016	As notified
South Tyneside Metropolitan Borough Council - Planning Department	September 2016	As notified
Sunderland City Metropolitan Borough Council - Planning	September 2016	As notified
Areas of Outstanding Natural Beauty		
Natural England	April 2016	Bi-Annually
Environmentally Sensitive Areas		
Natural England	September 2016	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	April 2016	Bi-Annually
Marine Nature Reserves		
Natural England	September 2016	Bi-Annually
National Nature Reserves		
Natural England	September 2016	Bi-Annually
National Parks		
Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites		
Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2016	Bi-Annually
Special Areas of Conservation		
Natural England	April 2016	Bi-Annually
Special Protection Areas		
Natural England	April 2016	Bi-Annually
World Heritage Sites		
English Heritage - National Monument Record Centre	September 2015	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**South Tyneside Metropolitan Borough Council - Environmental Health Department** Central Library Building, Prince George Square, South Shields, Tyne And Wear, NE33 2PE	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**South Tyneside Metropolitan Borough Council - Planning Department** Town Hall & Civic Offices, Westoe Road, South Shields, Tyne & Wear, NE33 2RL	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
5	**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
6	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.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

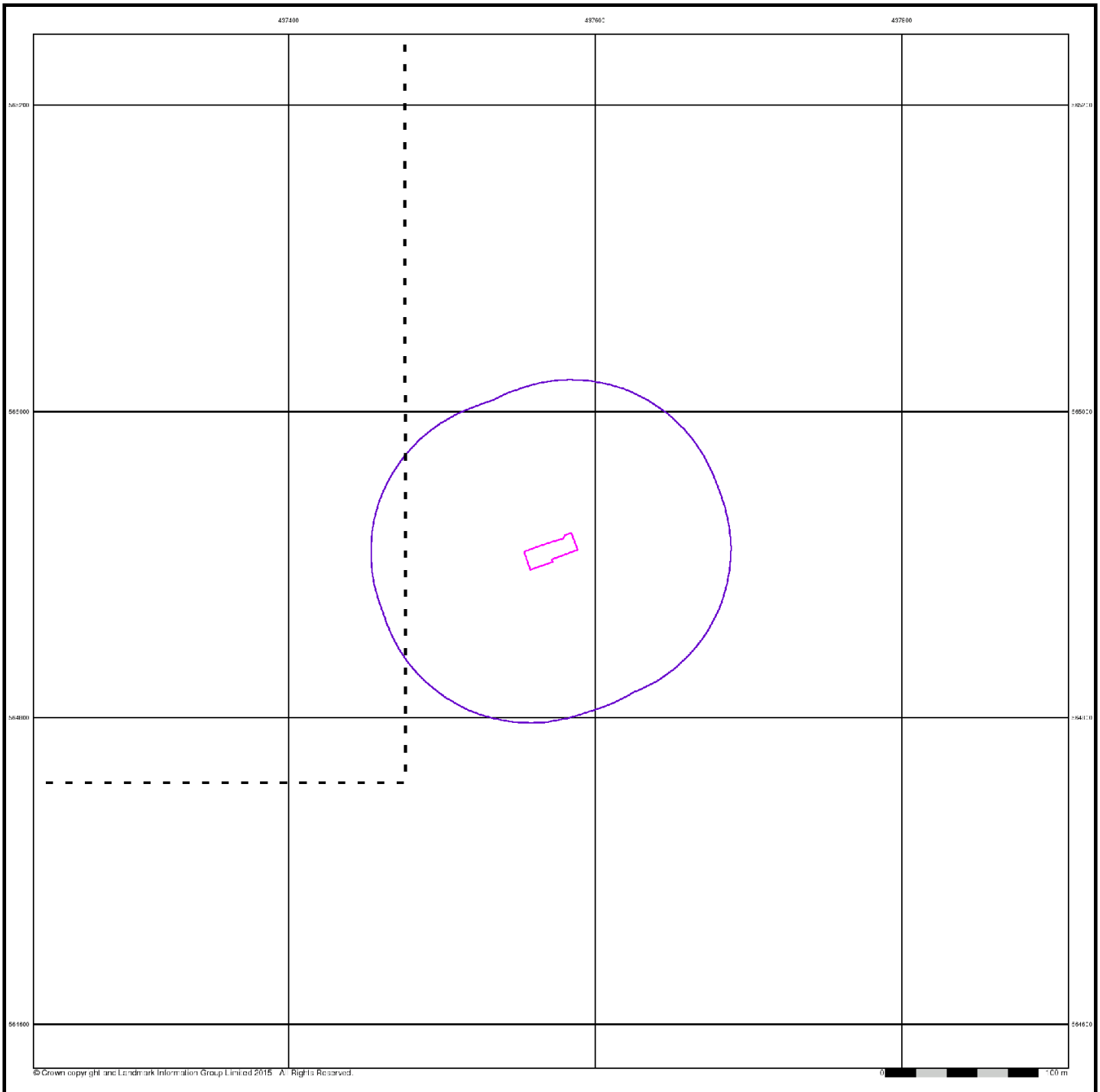
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

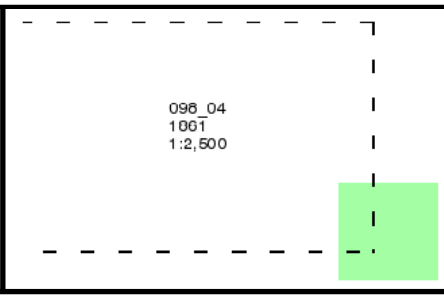
ATTACHMENT THREE: HISTORICAL MAPS

Historical Map - 1861

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

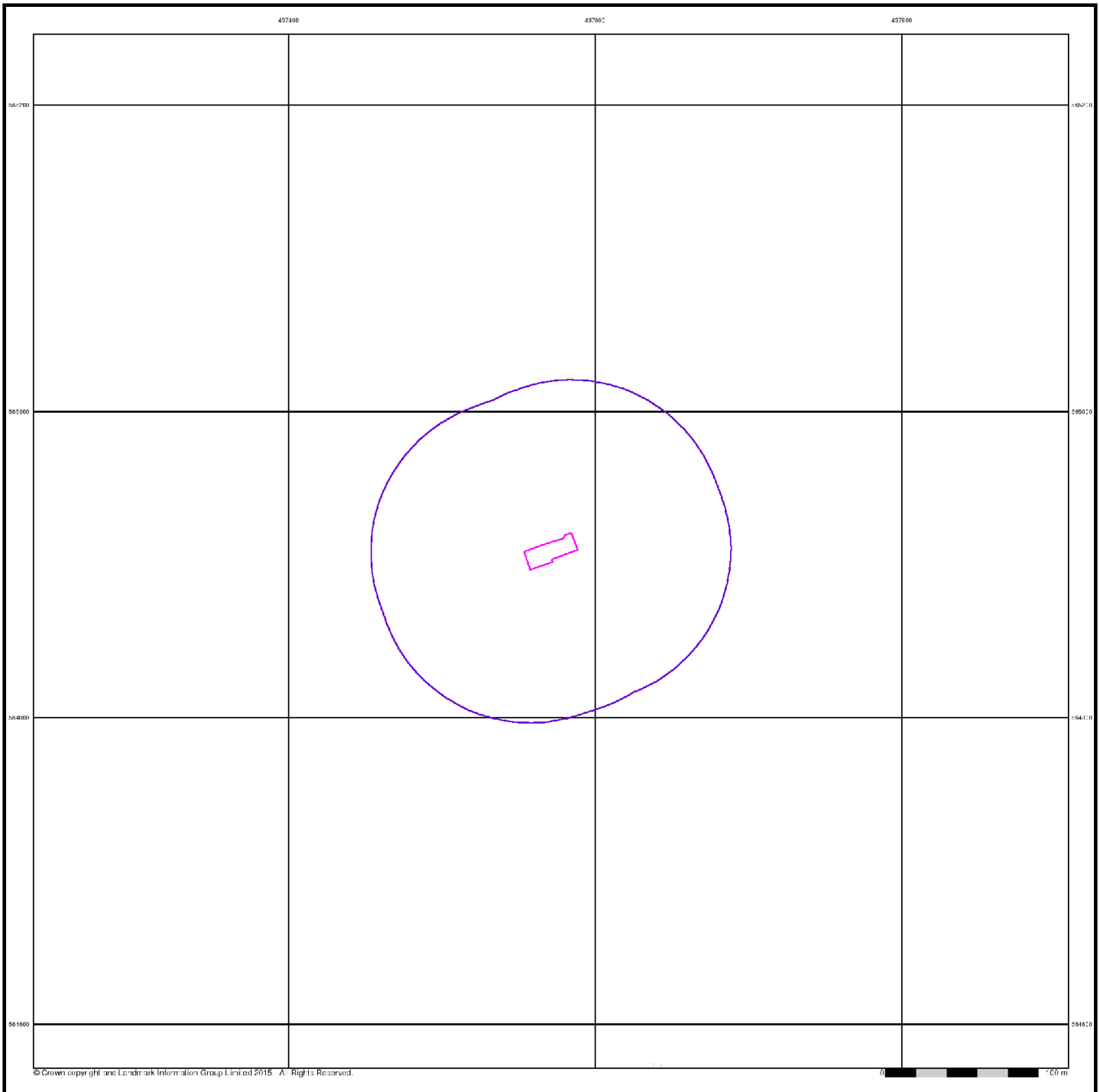


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

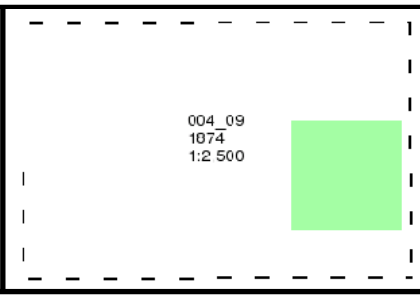


Historical Map - 1874

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

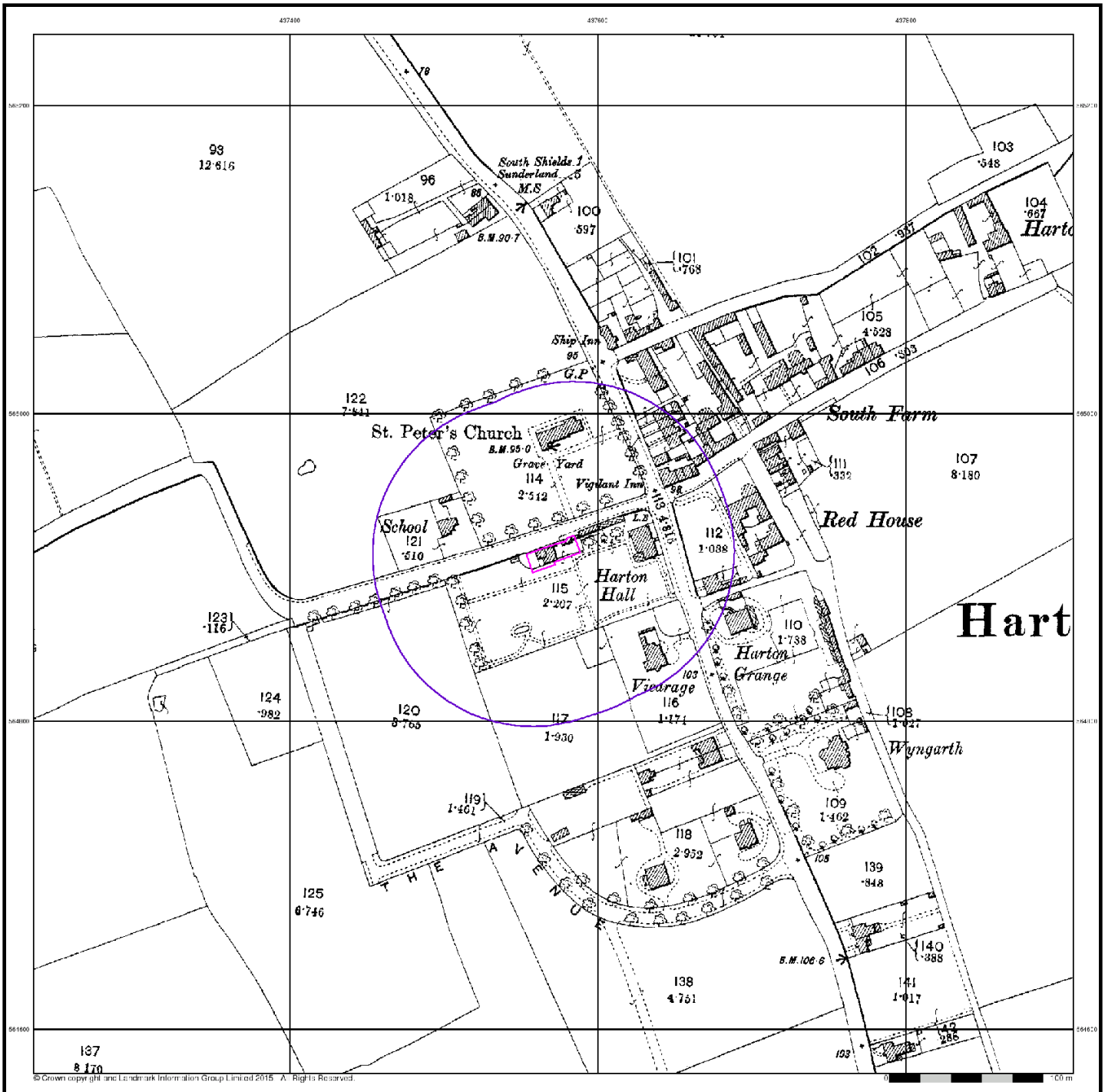


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

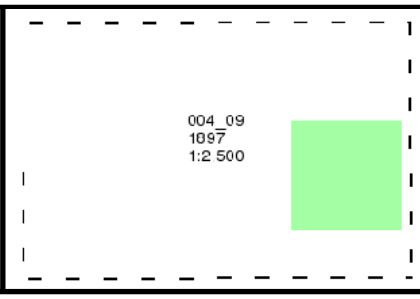


Historical Map - 1897

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

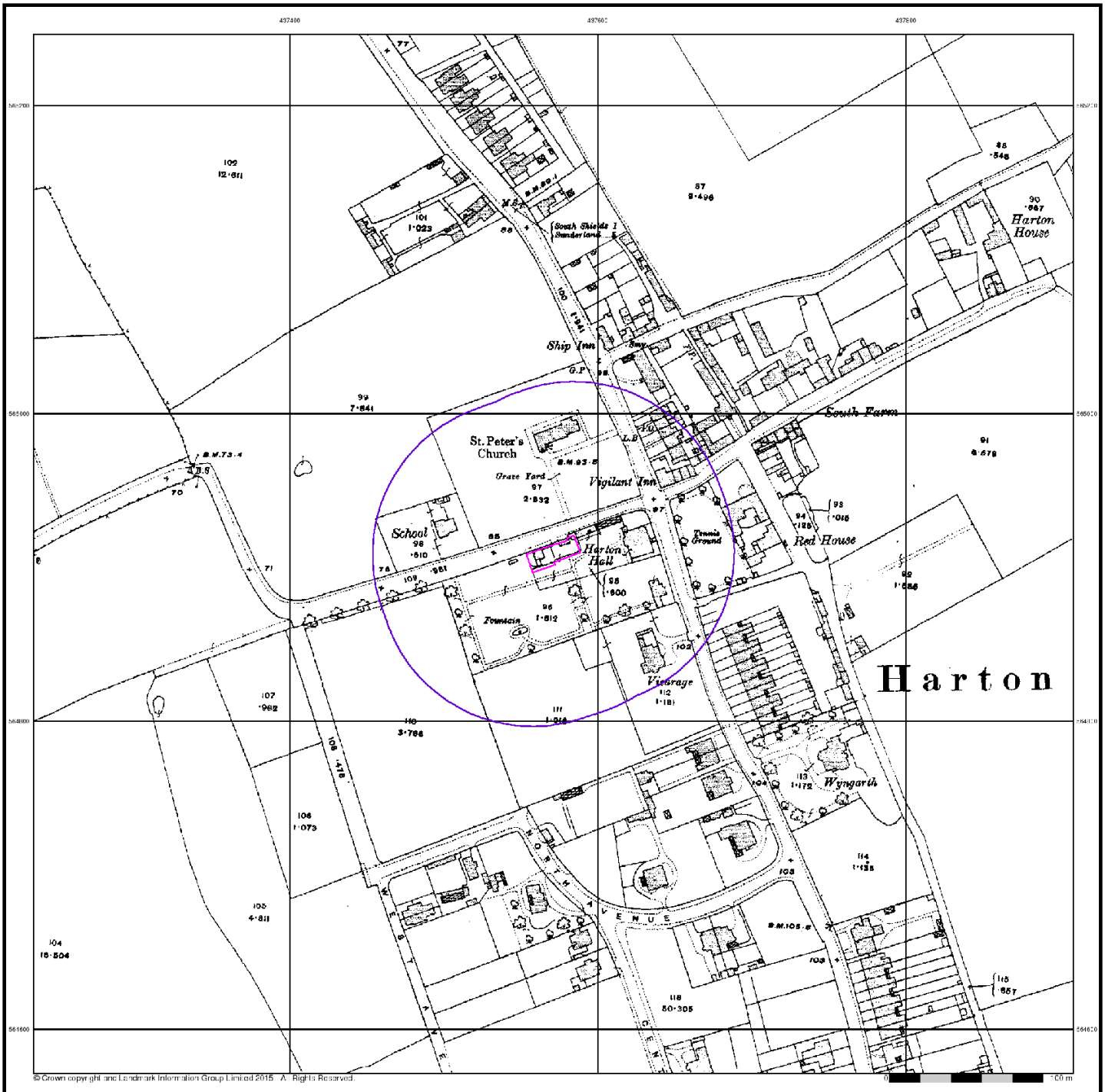


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

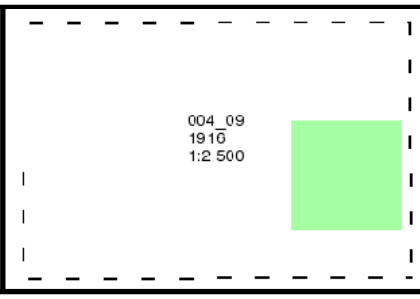


Historical Map - 1916

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

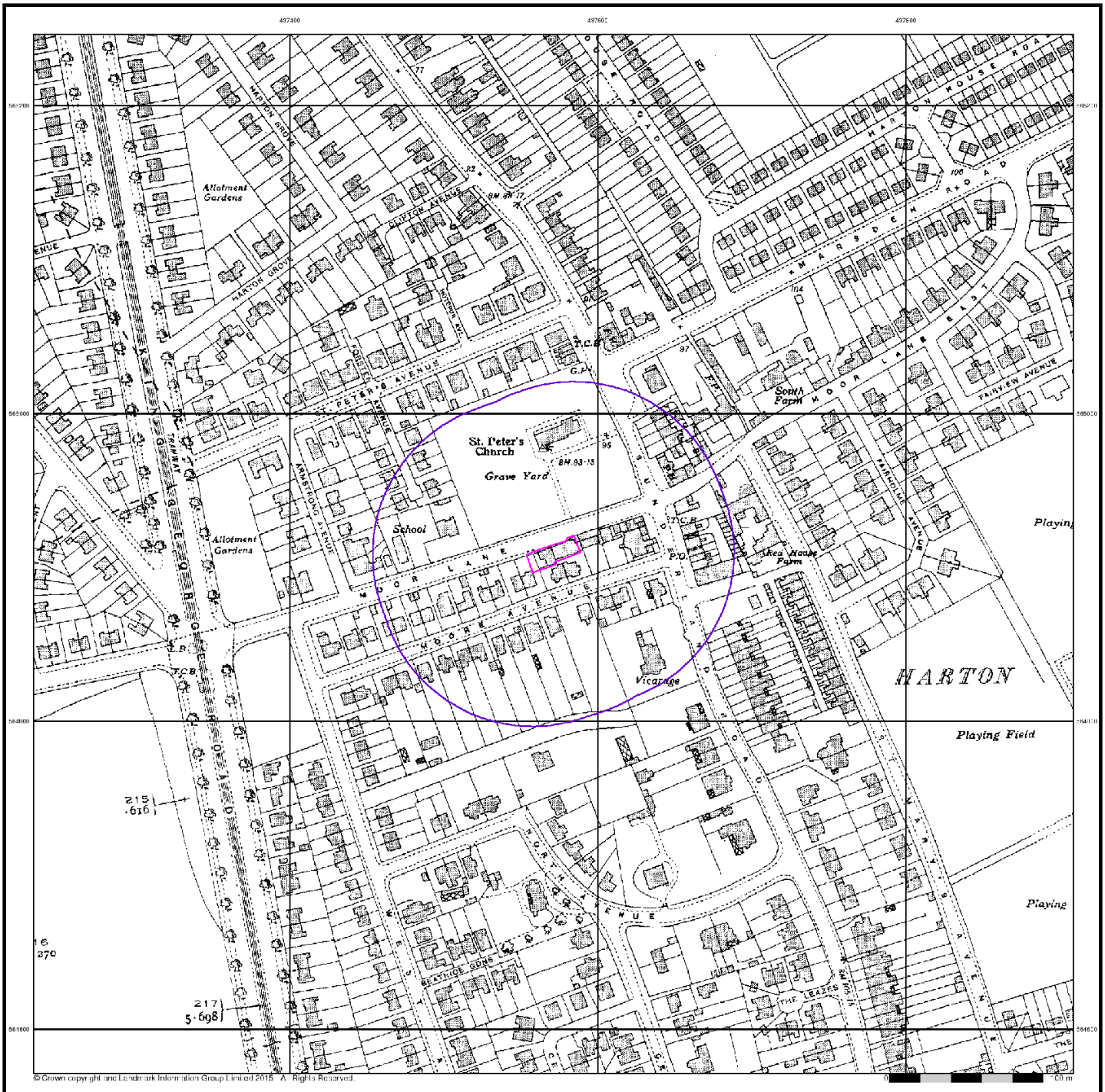


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

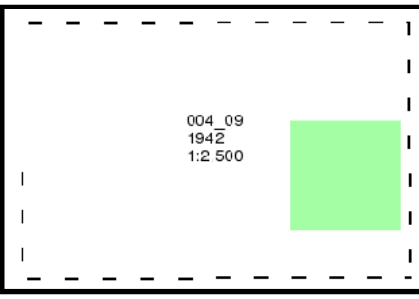


Historical Map - 1942

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

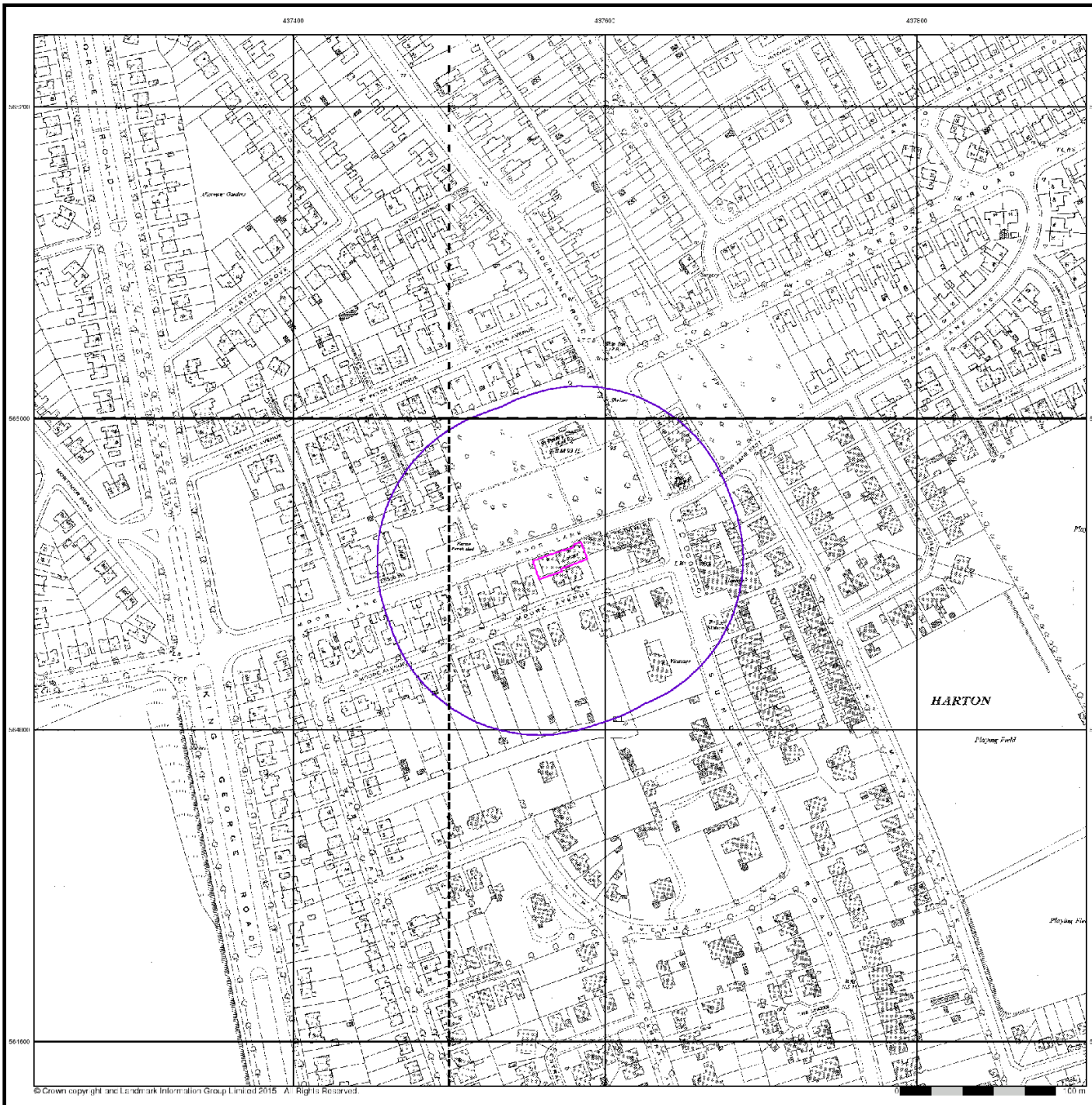


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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



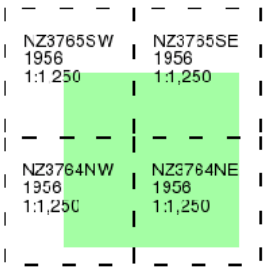
Historical Map - 1956

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com



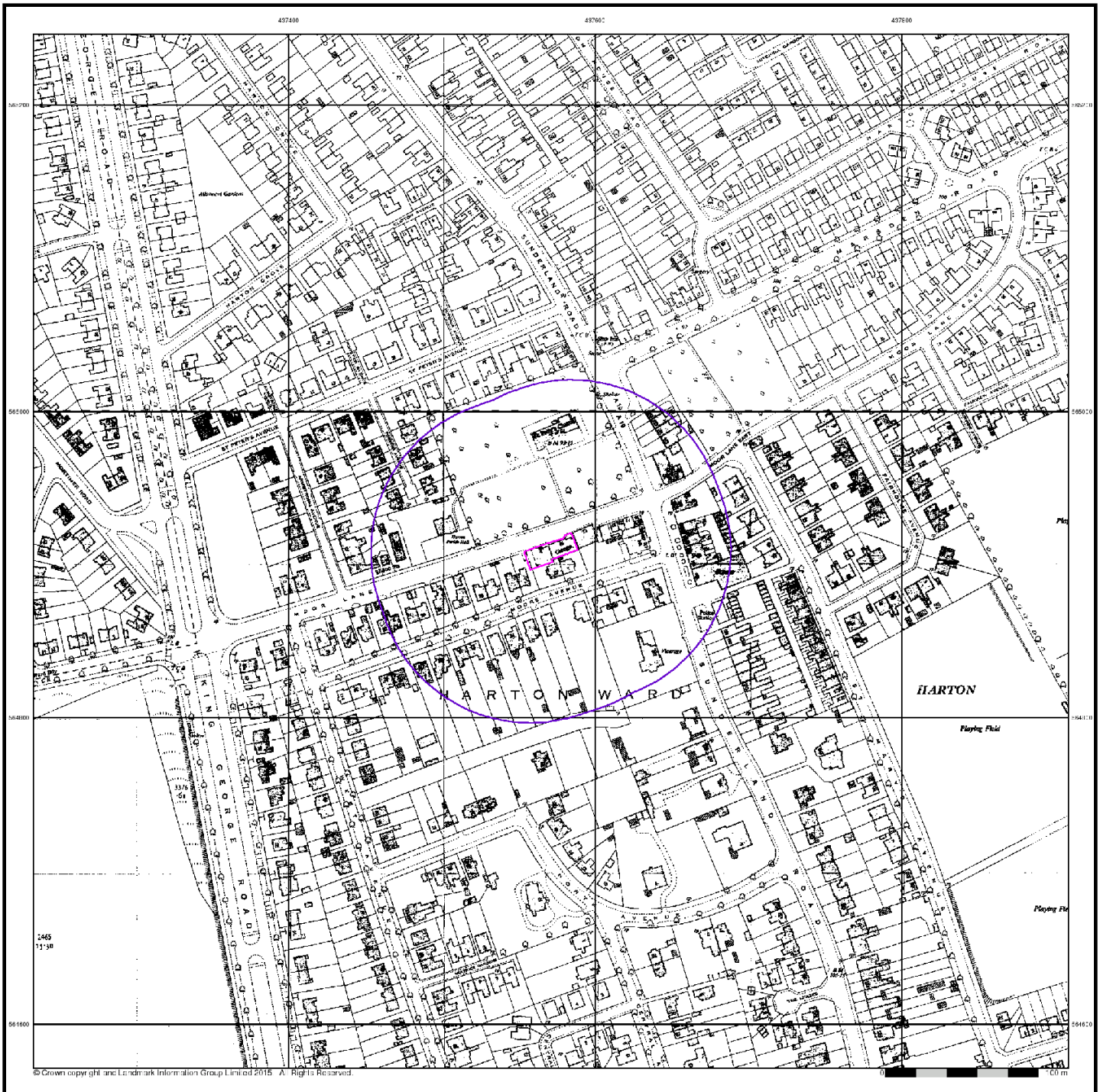
© Crown copyright and Landmark Information Group Limited 2015 All Rights Reserved.

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.



Historical Map - 1956-1957

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com



© Crown copyright and Landmark Information Group Limited 2015 All Rights Reserved.

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.

NZ3765
1957
1:2,500

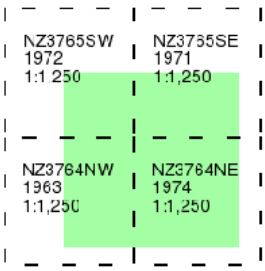
NZ3764
1956
1:2,500

Historical Map - 1963-1974

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

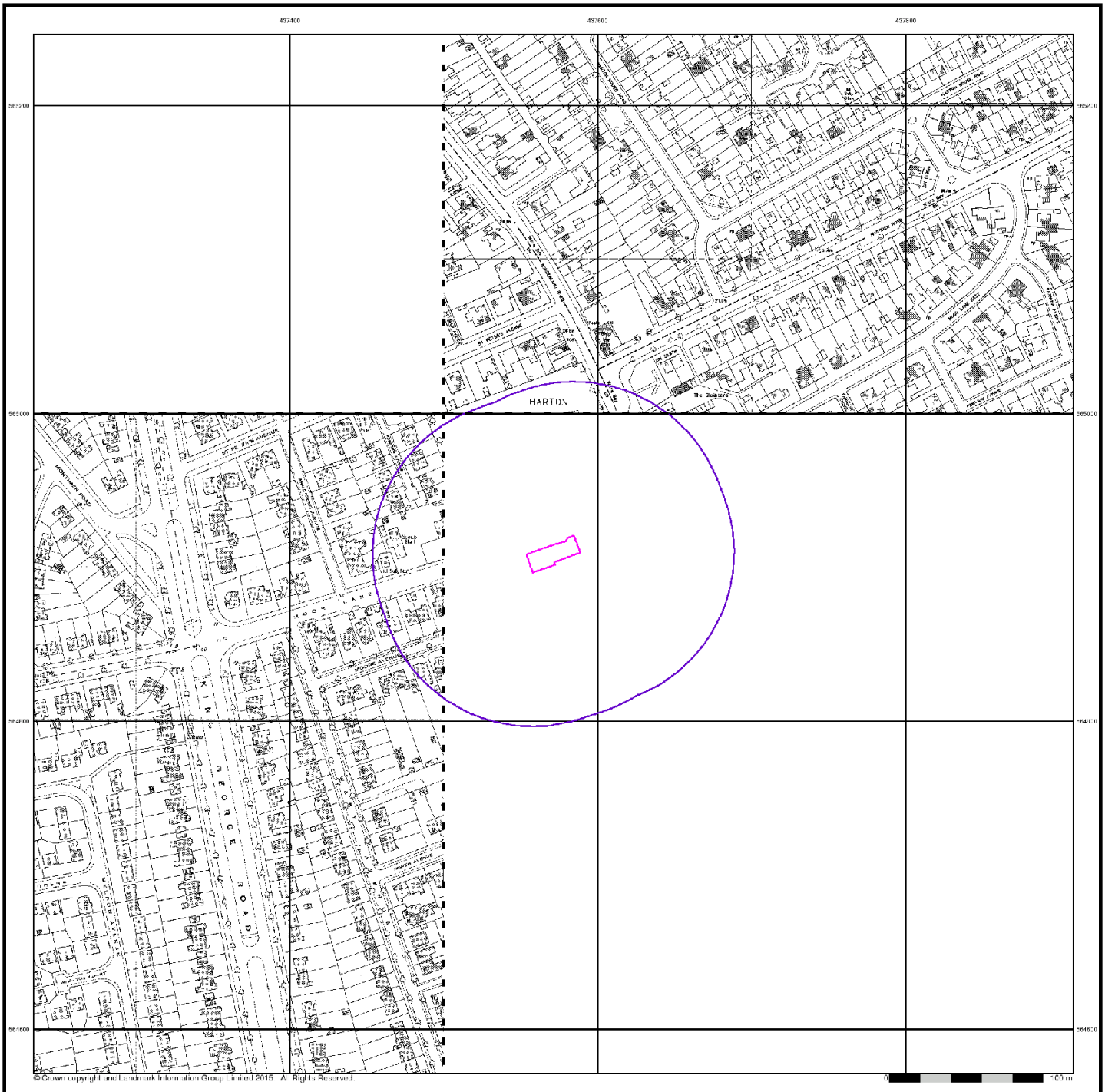


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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



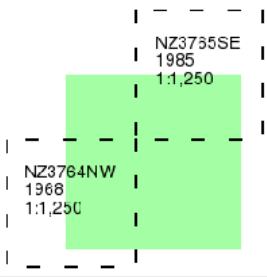
Historical Map - 1968-1985

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com



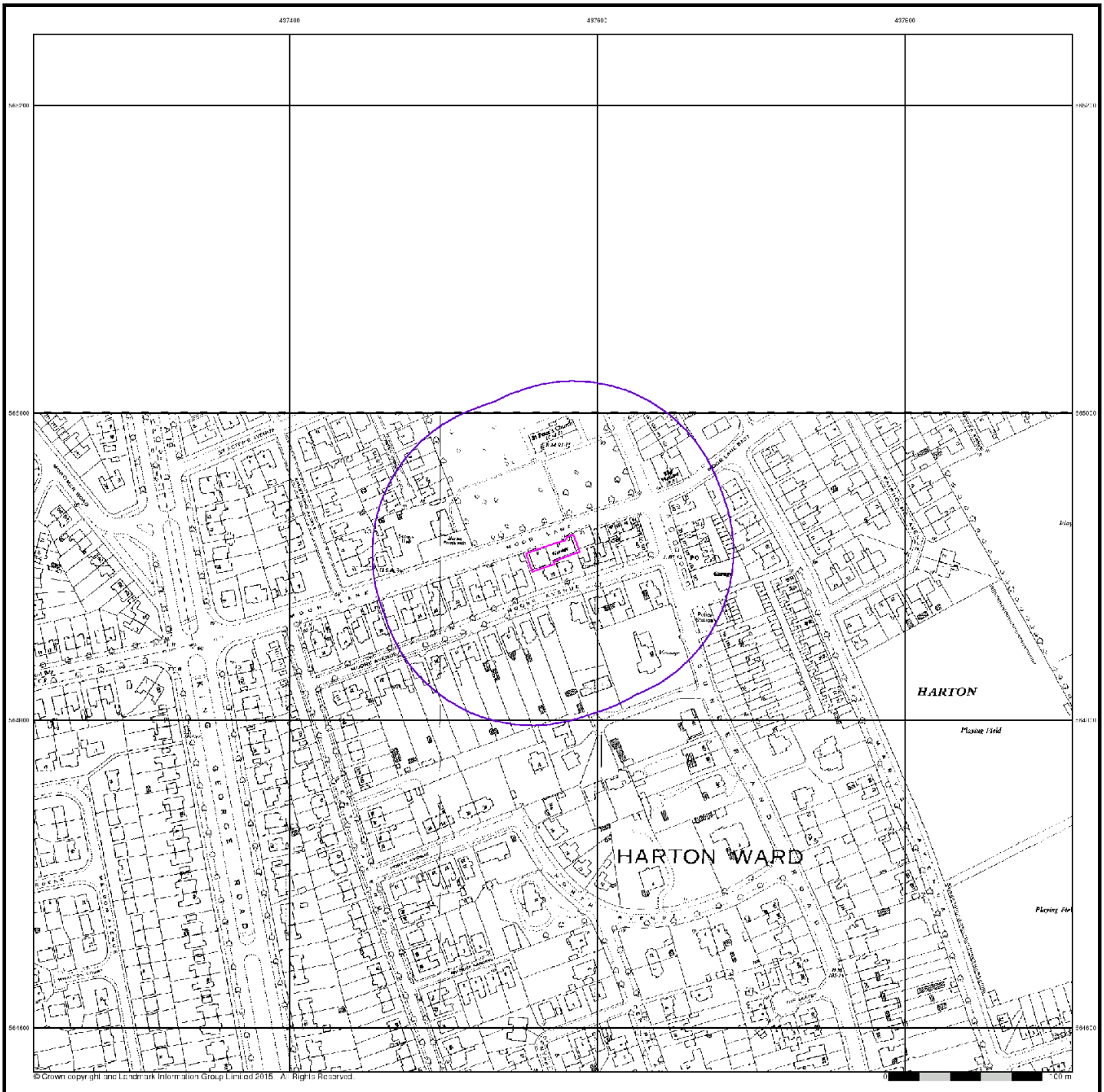
© Crown copyright and Landmark Information Group Limited 2015. All Rights Reserved.

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.

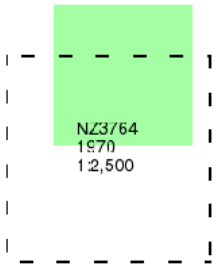


Historical Map - 1970

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com

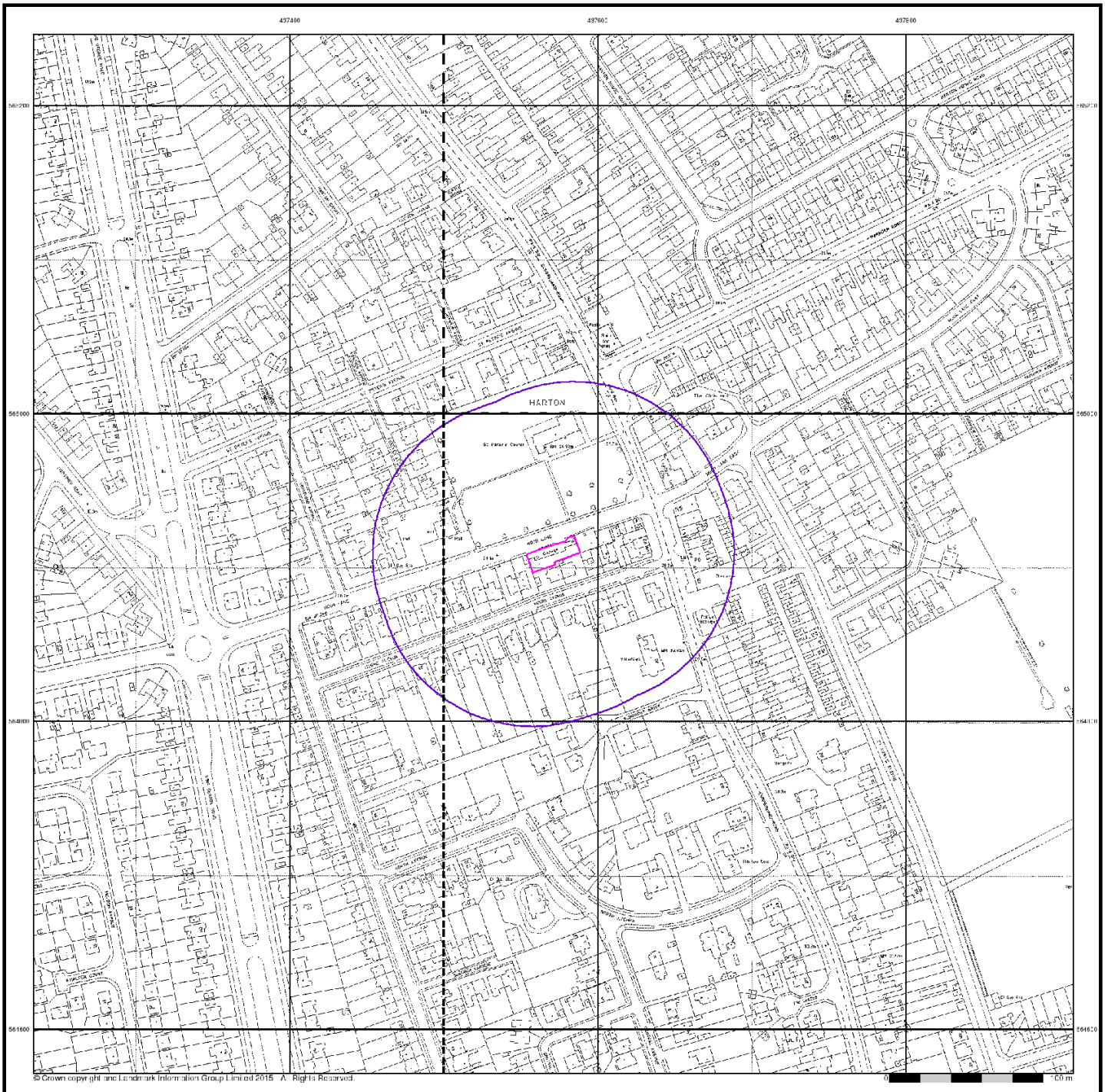


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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



Historical Map - 1993

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Wendover Road
Stoke Mandeville, Bucks HP22 5BL
Tel. 01296 739400 Email: consultants@subadra.com


497400
497600
562000
564000
561600
564200
HARTON
St Peter's Church
Primary School
Village Hall
Sports Ground
Tennis Courts
Bowling Green
Hilton Cemetery
Hilton Cemetery (Cl)
Hilton Grange
Hilton Grange Farm
Hilton Grange Cottage
Hilton Grange Bungalow
Hilton Grange Lodge
Hilton Grange Cottages
Hilton Grange Caravan Site
Hilton Grange Caravan Site (Cl)
Hilton Grange Caravan Site (Cl)
Hilton Grange Caravan Site (Cl)