# Merryhill Asbestos Testing and Consulting Limited

## Asbestos Refurbishment/Demolition Survey for

Jacobs Foreman Developments Ltd

**at**

Land South of Ranelagh Road
Havant
Hants
PO9 1NR



371

Project Number: S1710C

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# Merryhill Asbestos Testing and Consulting Limited

## Names and Addresses

*Client Name:*

**Jacobs Foreman Developments Ltd**
Unit 1 Station Industrial Park
Duncan Road Park Gate
Southampton
Hants
SO31 1BX

Contact: Dan Foreman

Phone: 0845 4507716 Fax: 0845 4507742

*Instructing Party:*

**Jacobs Foreman Developments Ltd**
Unit 1 Station Industrial Park
Duncan Road Park Gate
Southampton
Hants
SO31 1BX

Contact: Dan Foreman

Phone: 0845 4507716 Fax: 0845 4507742

*Site Full Name:*

**Land South of Ranelagh Road**

Havant
Hants
PO9 1NR

Contact: Dan Foreman
Phone: 0845 4507716 Option 4 Fax:

*Report Author:*

**Merryhill Asbestos Testing and Consulting Limited**
Merryhill House
Budds Lane
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SO51 0HA

Contact: Adrian Lynn Surveyor
Steve Wyatt Surveyor

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## Merryhill Asbestos Testing and Consulting Limited

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# SECTION ONE

# SURVEY OBJECTIVES

# Merryhill Asbestos Testing and Consulting Limited

## Survey Objectives

1 Produce a report, in a database format, indicating areas containing identified and suspected asbestos based materials, including photographic records of asbestos occurences where possible.

2 To carry out a Refurbishment/Demolition Survey to ascertain the presence of asbestos based materials. Survey Scope Confirmation - The scope, as confirmed by the client, is Demolition survey as the site is due for demolition.

3 The survey report will indicate areas containing identified and suspected ACM's, especially those requiring urgent attention, including photographs of sample points where practicable and give recommendations for their disposal/management in accordance with current legislation.

To include a risk assessment for each individual Sample.

4 Carry out a Refurbishment/Demolition Survey in acordance with HSE publication HSG264.

If the site is to be demolished the report will help the client to comply with the Construction (Design and Management) Regulations.

If the site is for partial refurbishment or works such as new cable runs being installed the same applies as above.

A Refurbishment/Demolition Survey involves making holes in surfaces and Merryhill Asbestos Testing and Consulting Ltd will not make them good nor clean-up any arisings since it is expected that the areas will be empty and ready for the refurbishment works to be commenced.

5 The object of the survey is to locate any ACM's and give recommendations for their disposal in accordance with current legislation.

The report will indicate areas containing identified and suspected ACM's including photographs of sample points where practicable.

If any area has not been surveyed it MUST be presumed to contain asbestos until such time as proven to the contrary.

6 The survey report will contain plans of the building provided by Merryhill Asbestos Testing and Consulting Ltd.

Areas may have been renamed for the purposes of the survey if so, they will be clearly marked.

Plans prepared by Merryhill Asbestos Testing and Consulting Ltd are not to scale and should be treated as rough sketches to provide general location references only.

7 This report only covers the areas for which a survey has been requested. If ACM's are present in other areas, no matter how obvious, they may not be recorded in the survey.

# SECTION TWO

# SURVEY TECHNIQUES

# Merryhill Asbestos Testing and Consulting Limited

## Survey Techniques

1 Materials of a similar type were only occasionally sampled and it was assumed that other surfaces identical to where the sample was taken, was of a similar composition.

2 Photographs were taken at all of the sample locations (unless otherwise stated).

3 All samples will be sent to a laboratory for bulk analysis. Merryhill Asbestos Testing & Consulting Ltd do not hold UKAS accreditation for bulk analysis. This service is provided by a third party company who hold UKAS accreditation to ISO17025 for bulk analysis.

4 All Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on publication HSG264).

5 Previous asbestos removal works.

Works undertaken more than ten years ago will not have been carried out to the standards of today and debris should be expected, albeit in possibly small amounts, below new coverings such as insulation in plant rooms.

It is not always possible or practical, even with a Pre-Demolition/Major Refurbishment survey to locate these areas.

# SECTION THREE

## SURVEY CAVEAT

# Merryhill Asbestos Testing and Consulting Limited

## Survey Caveat

1 During the course of the survey all reasonable efforts were made to identify the physical presence of Asbestos Containing Materials (ACM's) within all normally accessible areas of the building.

The findings and opinions expressed within this report are relevant to the date of site visit and should not be relied upon to represent conditions at later dates.

Opinions included herein are based on information gathered during the site visit and from our experience. All measurements are based on pacing out the area (s) and are used for the purpose of surveying. Therefore the sizes stated are approximate.

2 Where suspect ACM's prevented further access to areas i.e. above artex ceiling, the investigation was halted.

In any area where there is more than one 'layer' of asbestos only the outer layer will have been sampled or accessed.

Always presume that there maybe an ACM behind a sampled material.

3 If additional information becomes available which may affect our comments, conclusions or recommendations Merryhill Asbestos Testing and Consulting Ltd reserves the right to review the information, reassess any new, potential concerns and modify our opions accordingly.

4 It is known that ACM's are frequently concealed within fabric of buildings i.e. shuttering to windows or within sealed building voids so it is not always possible to regard the findings of the survey as being definitive.

It must always remain a possibilty that further ACM's may be found during refurbishment or demolition activities.

Whilst every effort is made to locate all ACM's, no guarantees can be given in the respect.

5 Our liability for failure to detect all ACM's within the property (which gives rise to legal time/cost extension) be limited to ten times the survey contract value.

Our Professional Indemnity Insurance is limited to £1,000,000 (one million pounds).

6 Under the terms of UKAS Accreditation we are unable to include our Priorty Assessment or Risk score within the scope of such Accreditation.

The findings are therefore purely the assessment of the Surveyor with, where possible, input from personnel on site.

7 Unless specifically stated to the contrary only the specified building has been surveyed. The site land around the building has not been surveyed.

ACM's in the areas not specified covered by this report are outside the scope of the survey.

# Survey Caveat

8 Survey reports are provided to and for the benefit of the Client exclusively.

Merryhill Asbestos Testing and Consulting Ltd shall not be liable to any third party who seeks to use this survey report.

Merryhill Asbestos Testing and Consulting Ltd accepts no responsibilty or liability for the consequences of this survey report if it is used for a purpose other than that for which it was commissioned.

9 Mechanical and Electrical equipment and fittings such as electrical switches and boards, lift machinery, telecoms equipment and any items of plant will not be surveyed without either specific instruction to do so AND a 'Safe to Work' certificate.

All such items should be regarded as contaminated with asbestos and treated as such.

10 Future inspections of ACM's remaining in situ must be carried out by a competent person.

# SECTION FOUR

# SURVEY NOTES

# Merryhill Asbestos Testing and Consulting Limited

## Survey Notes

1 Whilst every effort was made to locate the ceiling panels, wall partitions and other panels, which may have been constructed from asbestos boarding, none other than those detailed were found. Some may have been missed due to repairs, alterations etc, where false and other finishes have been applied or where different specifications (including a possible mixture of asbestos and non-asbestos) panels have been used in the same area. Only by sampling each panel would the composition of all the materials be known. This was clearly not practical in terms of cost or time.

2 No air monitoring was carried out whilst the survey was undertaken and therefore care was taken not to cause disturbance of fibre or contamination of clean surfaces.

3 This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the investigation took place.
It should not be relied up onto represent conditions at a later date.

4 Any person undertaking work within the buildings should be told of the presence of asbestos. This briefing also applies to any other person associated with the site, including staff, sub-contractors and others.

5 The diagrams in the report are not to scale and are illustrative only to indicate approximate locations. The descriptions used are for location identification purposes

6 All the recommendations described in this report are based upon assumptions made after consideration of the type of material, condition of the material, its location, analysis result and type of use the area is thought to be subjected to. However, statutory authorities or others, could require amendments based on local knowledge, change in legislation, change in use or indeed, other conditions of criteria.

7 Equipment, machinery, ducting etc were not moved, opened up or examined for the purpose of this investigation except in the odd occasion where hatches were available.

8 Insurance for 'Work with Asbestos'

Any contractor employed by you to 'work with asbestos' should be able to provide the schedule to his employer's liability insurance as evidence of adequate insurance cover for 'work with asbestos materials'.

All contractors are required to posess Employers and Public Liability Insurance appropriate to their activities. In respect of insurance for asbestos related work, additional cover is required, and examination of the contractors insurance schedule will reveal the presence of this additional cover.

9 This survey report may not under and circumstances be used by a third party without express written permission of Merryhill Asbestos Testing and Consulting Ltd.

Merryhill Asbestos Testing and Consulting Ltd shall not be responsible for any loss, damage, expense or injury of any kind whatsoever, consequential to or otherwise arising out of or owing to any defects/deficiencies of any sort in the survey report; whether such defects or deficiencies are caused by the negligence of the company, its employees, agents or otherwise.

10 The survey was carried out on 20th May 2014 by AdrianLynn on behalf of Merryhill Asbestos Testing and Consulting Ltd, Merryhill House, Budds Lane, Romsey, SO51 0HA, as instructed by Dan Foreman of Foreman Homes Ltd.

# SECTION FIVE

# EXCLUDED AREAS

# Merryhill Asbestos Testing and Consulting Limited

## Excluded Areas

The Following rooms / areas could not be accessed during the survey. Asbestos Containing Materials (ACMs) should be deemed as being present in these areas until proven otherwise.

1 Left hand container - not accessible

2 Former allotment area - no safe access

# SECTION SIX

# SURVEY SUMMARY

# Merryhill Asbestos Testing and Consulting Limited

## Survey Summary

1 Asbestos Containing Materials (ACM's) were found in the following locations:-

Sample 4 - GF Barn - Cement debris to floor - Chrysotile

Sample 6 - GF External - Water tank - Chrysotile

2 Building Description

Stables
Metal corrugated roof and wall panels, wood framed structure, plywood, chipboard and MDF panels to walls, wooden stable doors, concrete floors.

Steel Portal
Steel-framed, corrugated metal and wood walls, cement debris spread within footprint of building.

Brick Structure
Brick walls, lathe and plaster ceiling, wood roof timbers, clay tiles spread around floor.

Containers
1no Chilled Unit - laminated walls and ceiling on wood with foam insulation.
Unit - metal wall and flooring.

Stable office
Wood wall and ceiling with fibreglass insulation between. Vinyl on floor under carpet. Textured coating to external walls.

# SECTION SEVEN

# MATERIAL ASSESSMENT (PHOTO SMALL)

# Merryhill Asbestos Testing and Consulting Limited

## Material assessment (Photo small)

Sorted by: Location ID

| | | | |
|---|---|---|---|
| Site Address: | Land South of Ranelagh Road, Havant, Hants, PO9 1NR | Client Name: | Jacobs Foreman Developments Ltd |
| | | Project Number: | S1710C |

Area/ Floor/ Room/ Product: External: Ground floor: Yard Office: Textured coating

Inspection Date: 20/5/2014 | Next Inspection: Not Applicable | Survey Type: RDS

Location ID: 18769 | Location Ref: 1 | Product Type: NADIS



Action: No Action Required

Material Comments: Textured coating to external walls

Damage: NADIS

Treatment: NADIS

Asbestos Type: NADIS

Identification: Identified

Quantity: 32m²

Material Risk Score: 0 | Material Risk Band: NADIS | Priority Risk Score: N/A

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Area/ Floor/ Room/ Product: External: Ground floor: Yard Office: Window Putty

Inspection Date: 20/5/2014 | Next Inspection: Not Applicable | Survey Type: RDS

Location ID: 18770 | Location Ref: 2 | Product Type: NADIS



Action: No Action Required

Material Comments:

Damage: NADIS

Treatment: NADIS

Asbestos Type: NADIS

Identification: Identified

Quantity: 3.5 linear metres

Material Risk Score: 0 | Material Risk Band: NADIS | Priority Risk Score: N/A

---

Area/ Floor/ Room/ Product: Internal: Ground floor: Yard Office: Vinyl Flooring

Inspection Date: 20/5/2014 | Next Inspection: Not Applicable | Survey Type: RDS

Location ID: 18771 | Location Ref: 3 | Product Type: NADIS



Action: No Action Required

Material Comments: Vinyl under carpet

Damage: NADIS

Treatment: NADIS

Asbestos Type: NADIS

Identification: Identified

Quantity: 12m²

Material Risk Score: 0 | Material Risk Band: NADIS | Priority Risk Score: N/A

# Merryhill Asbestos Testing and Consulting Limited

## Material assessment (Photo small)

Sorted by: Location ID

| | | | |
|---|---|---|---|
| Site Address: | Land South of Ranelagh Road, Havant, Hants, PO9 1NR | Client Name: | Jacobs Foreman Developments Ltd |
| | | Project Number: | S1710C |

Area/ Floor/ Room/ Product: External: Ground floor: Barn: Cement Debris

| | | | | | |
|---|---|---|---|---|---|
| Inspection Date: | 20/5/2014 | Next Inspection: | 19/11/2014 | Survey Type: | RDS |
| Location ID: | 18772 | Location Ref: | 4 | Product Type: | Asbestos cement |
| | | Action: | Removal under HSE guidelines | Damage: | High damage |
| | | | | Treatment: | Asbestos cement sheets etc |
| | | Material Comments: | Cement debris spread over internal footprint of building | Asbestos Type: | Chrysotile |
| | | | | Identification: | Identified |
| | | | | Quantity: | approx 250m² |




| | | | | | |
|---|---|---|---|---|---|
| Material Risk Score: | 6 | Material Risk Band: | Low Risk | Priority Risk Score: | N/A |

Area/ Floor/ Room/ Product: Internal: Ground floor: Stables: Ceiling tiles

| | | | | | |
|---|---|---|---|---|---|
| Inspection Date: | 20/5/2014 | Next Inspection: | Not Applicable | Survey Type: | RDS |
| Location ID: | 18773 | Location Ref: | 5 | Product Type: | NADIS |
| | | Action: | No Action Required | Damage: | NADIS |
| | | | | Treatment: | NADIS |
| | | Material Comments: | | Asbestos Type: | NADIS |
| | | | | Identification: | Identified |
| | | | | Quantity: | 12m² |




| | | | | | |
|---|---|---|---|---|---|
| Material Risk Score: | 0 | Material Risk Band: | NADIS | Priority Risk Score: | N/A |

Area/ Floor/ Room/ Product: External: Ground floor: External: Water tank

| | | | | | |
|---|---|---|---|---|---|
| Inspection Date: | 20/5/2014 | Next Inspection: | 20/5/2015 | Survey Type: | RDS |
| Location ID: | 18774 | Location Ref: | 6 | Product Type: | Asbestos cement |
| | | Action: | Removal under HSE guidelines | Damage: | Low damage |
| | | | | Treatment: | Asbestos cement sheets etc |
| | | Material Comments: | On floor outside stables | Asbestos Type: | Chrysotile |
| | | | | Identification: | Identified |
| | | | | Quantity: | 1no |



| | | | | | |
|---|---|---|---|---|---|
| Material Risk Score: | 4 | Material Risk Band: | Very Low Risk | Priority Risk Score: | N/A |

# Merryhill Asbestos Testing and Consulting Limited

## Material assessment (Photo small)

Sorted by: Location ID

| | | | |
|---|---|---|---|
| Site Address: | Land South of Ranelagh Road, Havant, Hants, PO9 1NR | Client Name: | Jacobs Foreman Developments Ltd |
| | | Project Number: | S1710C |

Area/ Floor/ Room/ Product: Internal: Ground floor: Fridge Unit: Vinyl Flooring

| | | | | | |
|---|---|---|---|---|---|
| Inspection Date: | 20/5/2014 | Next Inspection: | Not Applicable | Survey Type: | RDS |
| Location ID: | 18775 | Location Ref: | 7 | Product Type: | NADIS |
| | | | | Damage: | NADIS |
| | | | | Treatment: | NADIS |
| | | | | Asbestos Type: | NADIS |
| | | | | Identification: | Identified |
| | | | | Quantity: | 10m² |




Action:

No Action Required

Material Comments:

| | | | | | |
|---|---|---|---|---|---|
| Material Risk Score: | 0 | Material Risk Band: | NADIS | Priority Risk Score: | N/A |

# Merryhill Asbestos Testing and Consulting Limited

## Material Assessment and Algorithm

The material assessment is an assessment of the condition of the ACM, or the presumed ACM, and the likelihood of fibres being released if disturbed. This material assessment will give an initial guide to the priority for management, as it will identify the materials, which will most readily release airborne fibres if disturbed.

HSG264 recommends the use of an algorithm to carry out material assessments. Scores are then totaled to give a material assessment score. The use of algorithms is not infallible, but the assessment process is clear for all to see, so if discrepancies arise, it should be possible to back track through the assessment process to find the root of the error.

The four parameters considered within HSG264 are:

1. Product type
2. Extent of damage
3. Surface treatment
4. Asbestos type

Each of the parameters is scored and added to give a total score between 2 and 12.

- High risk: 10 or more
- Medium risk: between 7 and 9
- Low risk: between 5 and 6
- Very low risk: 4 or less

| Product Type | Risk Score |
|---|---|
| Plastics, resins, mastics, roofing felts, vinyl floor tiles, semi rigid paints, decorative finishes, asbestos cement | 1 |
| AIB, mill boards, low density insulation boards, asbestos textiles, asbestos paper and felt | 2 |
| Thermal insulation, pipe and boiler lagging, sprayed asbestos, loose asbestos, asbestos mattresses and packing | 3 |

# Merryhill Asbestos Testing and Consulting Limited

| Damage Assessment | Risk Score |
|---|---|
| NADIS, good condition/ no visible damage | 0 |
| Low damage | 1 |
| Medium damage | 2 |
| High damage | 3 |

| Treatment Assessment | Risk Score |
|---|---|
| NADIS, composite materials, reinforced plastics, resins, vinyl tiles | 0 |
| Enclosed sprays, AIB and untreated AC | 1 |
| Sealed AIB, encapsulated lagging and spray coating | 2 |
| Unsealed lagging and spray | 3 |

| Asbestos Type | Risk Score |
|---|---|
| NADIS (no asbestos detected in sample) | 0 |
| Chrysotile | 1 |
| Actinolite, Amosite, Anthophylite, Chrysotile/Amosite, Tremolite | 2 |
| Crocidolite, Amosite/Chrysotile/Crocidolite, Chrysotile/Crocidolite, Crocidolite/Amosite | 3 |

Risk Scores:

1 = low
2 = medium
3 = high

*AIB: asbestos insulation board*
*AC: asbestos cement*
*NADIS: no asbestos detected in sample*

# SECTION EIGHT

# ASBESTOS REGISTER

# Asbestos Register

Site Name: Land South of Ranelagh Road

Project Number: S1710C

| Location | Product type and name | | Extent | Accessibility | Condition | Surface treatment | Asbestos Type | Sample | Sample no | Material Risk Score | Priority Risk Score | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| External, Ground floor, Barn | Asbestos cement | Cement Debris | approx 250m² | Easy Accessibility | High damage | Asbestos cement sheets etc | Chrysotile | Identified | 4 | 6 | | N/A |
| External, Ground floor, External | Asbestos cement | Water tank | 1no | Easy Accessibility | Low damage | Asbestos cement sheets etc | Chrysotile | Identified | 6 | 4 | | N/A |

# SECTION NINE

## MATERIAL ASSESSMENT: SUMMARY BY RISK BAND

# Material Assessment: Summary by Risk Band

Site Name: Land South of Ranelagh Road

Project Number: S1710C

## Risk Band: Low Risk

| Sample Date | Location Ref | Location ID | Drawing Reference | Area | Floor | Room | Asbestos Type | Product Name | Material Risk Score | Priority Risk Score | Comments | Action | Survey Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/05/14 | 4 | 18772 | | External | Ground floor | Barn | Chrysotile | Cement Debris | 6 | N/A | Cement debris spread over internal footprint of building | Removal under HSE guidelines | RDS |

# Material Assessment: Summary by Risk Band

Site Name: Land South of Ranelagh Road

**Risk Band: Very Low Risk**

Project Number: S1710C

| Sample Date | Location Ref | Location ID | Drawing Reference | Area | Floor | Room | Asbestos Type | Product Name | Material Risk Score | Priority Risk Score | Comments | Action | Survey Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/05/14 | 6 | 18774 | | External | Ground floor | External | Chrysotile | Water tank | 4 | N/A | On floor outside stables | Removal under HSE guidelines | RDS |

# Material Assessment: Summary by Risk Band

Site Name: Land South of Ranelagh Road

Project Number: S1710C

## Risk Band: NADIS

| Sample Date | Location Ref | Location ID | Drawing Reference | Area | Floor | Room | Asbestos Type | Product Name | Material Risk Score | Priority Risk Score | Comments | Action | Survey Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/05/14 | 1 | 18769 | | External | Ground floor | Yard Office | NADIS | Textured coating | 0 | N/A | Textured coating to external walls | No Action Required | RDS |
| 20/05/14 | 2 | 18770 | | External | Ground floor | Yard Office | NADIS | Window Putty | 0 | N/A | | No Action Required | RDS |
| 20/05/14 | 7 | 18775 | | Internal | Ground floor | Fridge Unit | NADIS | Vinyl Flooring | 0 | N/A | | No Action Required | RDS |
| 20/05/14 | 5 | 18773 | | Internal | Ground floor | Stables | NADIS | Ceiling tiles | 0 | N/A | | No Action Required | RDS |
| 20/05/14 | 3 | 18771 | | Internal | Ground floor | Yard Office | NADIS | Vinyl Flooring | 0 | N/A | Vinyl under carpet | No Action Required | RDS |

# SECTION TEN

## MATERIAL ASSESSMENT: SUMMARY BY ASBESTOS TYPE

# Material Assessment: Summary by Asbestos Type

Site Name: Land South of Ranelagh Road

Project Number: S1710C

## Asbestos Type: Chrysotile

| Sample Date | Location Ref | Location ID | Drawing Reference | Area | Floor | Room | Product Name | Material Risk Score | Material Risk Band | Priority Risk Score | Comments | Action | Survey Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/05/14 | 4 | 18772 | | External | Ground floor | Barn | Cement Debris | 6 | Low Risk | N/A | Cement debris spread over internal footprint of building | Removal under HSE guidelines | RDS |
| 20/05/14 | 6 | 18774 | | External | Ground floor | External | Water tank | 4 | Very Low Risk | N/A | On floor outside stables | Removal under HSE guidelines | RDS |

# Material Assessment: Summary by Asbestos Type

Site Name: Land South of Ranelagh Road

Project Number: S1710C

## Asbestos Type: NADIS

| Sample Date | Location Ref | Location ID | Drawing Reference | Area | Floor | Room | Product Name | Material Risk Score | Material Risk Band | Priority Risk Score | Comments | Action | Survey Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/05/14 | 1 | 18769 | | External | Ground floor | Yard Office | Textured coating | 0 | NADIS | N/A | Textured coating to external walls | No Action Required | RDS |
| 20/05/14 | 2 | 18770 | | External | Ground floor | Yard Office | Window Putty | 0 | NADIS | N/A | | No Action Required | RDS |
| 20/05/14 | 7 | 18775 | | Internal | Ground floor | Fridge Unit | Vinyl Flooring | 0 | NADIS | N/A | | No Action Required | RDS |
| 20/05/14 | 5 | 18773 | | Internal | Ground floor | Stables | Ceiling tiles | 0 | NADIS | N/A | | No Action Required | RDS |
| 20/05/14 | 3 | 18771 | | Internal | Ground floor | Yard Office | Vinyl Flooring | 0 | NADIS | N/A | Vinyl under carpet | No Action Required | RDS |

# SECTION ELEVEN

## MATERIAL ASSESSMENT SCHEDULE BY FLOOR

# Material Assessment Schedule By Floor

Site Name: Land South of Ranelagh Road

Project Number: S1710C

## Floor: Ground floor

| Sample Date | Location Ref | Location ID | Drawing Reference | Area | Room | Asbestos Type | Product Name | Material Risk Score | Material Risk Band | Priority Risk Score | Comments | Action | Survey Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20/05/14 | 1 | 18769 | | External | Yard Office | NADIS | Textured coating | 0 | NADIS | N/A | Textured coating to external walls | No Action Required | RDS |
| 20/05/14 | 2 | 18770 | | External | Yard Office | NADIS | Window Putty | 0 | NADIS | N/A | | No Action Required | RDS |
| 20/05/14 | 3 | 18771 | | Internal | Yard Office | NADIS | Vinyl Flooring | 0 | NADIS | N/A | Vinyl under carpet | No Action Required | RDS |
| 20/05/14 | 4 | 18772 | | External | Barn | Chrysotile | Cement Debris | 6 | Low Risk | N/A | Cement debris spread over internal footprint of building | Removal under HSE guidelines | RDS |
| 20/05/14 | 5 | 18773 | | Internal | Stables | NADIS | Ceiling tiles | 0 | NADIS | N/A | | No Action Required | RDS |
| 20/05/14 | 6 | 18774 | | External | External | Chrysotile | Water tank | 4 | Very Low Risk | N/A | On floor outside stables | Removal under HSE guidelines | RDS |
| 20/05/14 | 7 | 18775 | | Internal | Fridge Unit | NADIS | Vinyl Flooring | 0 | NADIS | N/A | | No Action Required | RDS |

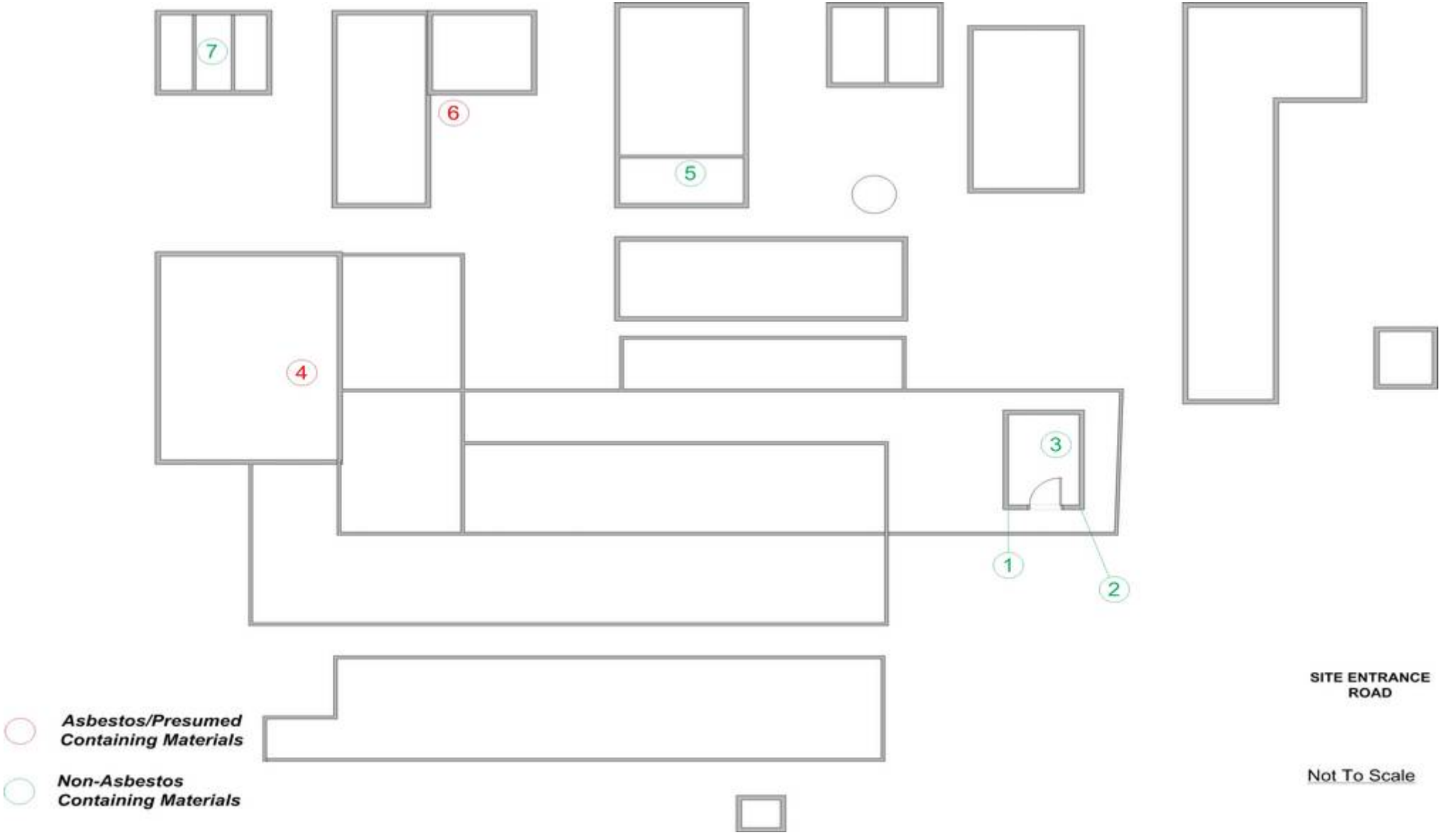
# SECTION TWELVE

## SURVEY DRAWINGS

# Merryhill Asbestos Testing and Consulting Limited

## Survey Drawings and Documentation

Project Number: S1710C



# SECTION THIRTEEN

# BULK CERTIFICATE

# Merryhill Asbestos Testing and Consulting Limited

## Bulk Certificate

Project Number: S1710C


ENVIROCHEM

**ENVIROCHEM**
**Analytical Laboratories Ltd.**
12 The Gardens
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Hampshire
PO16 8SS

UKAS TESTING
1227
Tel: (01329) 287777
Fax: (01329) 287755
www.envirochem.co.uk
office@envirochem.co.uk


Our Ref: J050982 FI: 7
Your Ref: S1710c
Date: 22/05/2014

## Asbestos Fibre Identification Report

| | |
|---|---|
| **Client:** | Merryhill Asbestos Testing & Consultancy<br>Merryhill House, Budds Lane, Romsey, Hampshire, SO51 0HA |
| **Site Address:** | Land South of Ranelagh Road, Havant, |
| **Sampled By:** | Merryhill Asbestos Testing & Consultancy |
| **Date sampled/received:** | 21st May 2014 |
| **Date analysed:** | 22nd May 2014 |
| **Analyst/s:** | Magdalena Jackson |
| **Analysis Location:** | 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS |

### ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented `in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

### RESULTS

| Sample No. | Sample Ref. | Location | Asbestos Detected | Asbestos Type |
|---|---|---|---|---|
| 1 | BS207101 | Ground flor. Yard office. External. Textured coating to walls | No | |
| 2 | BS207102 | Ground floor. Yard office. Window putty | No | |
| 3 | BS207103 | Ground floor. Yard office. Vinyl flooring under carpet | No | |
| 4 | BS207104 | Ground floor. Barn. Cement debris to floor | Yes | Chrysotile |

NOTES:
1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthrophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
3. Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE: M Jackson Authorised signatory PRINT NAME: Magdalena Jackson

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Our Ref: J050982 FI: 7
Your Ref: S1710c
Date: 22/05/2014

# Asbestos Fibre Identification Report

| | |
|---|---|
| **Client:** | Merryhill Asbestos Testing & Consultancy<br>Merryhill House, Budds Lane, Romsey, Hampshire, SO51 0HA |
| **Site Address:** | Land South of Ranelagh Road, Havant, |
| **Sampled By:** | Merryhill Asbestos Testing & Consultancy |
| **Date sampled/received:** | 21st May 2014 |
| **Date analysed:** | 22nd May 2014 |
| **Analyst/s:** | Magdalena Jackson |
| **Analysis Location:** | 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS |

## ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented `in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

## RESULTS

| Sample No. | Sample Ref. | Location | Asbestos Detected | Asbestos Type |
|---|---|---|---|---|
| 5 | BS207105 | Ground floor. Stable. Ceiling tiles | No | |
| 6 | BS207106 | Ground floor. External. Water tank | Yes | Chrysotile |
| 7 | BS207107 | Ground floor. Fridge unit. Vinyl flooring | No | |

NOTES:
1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthrophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
3. Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE: MJackson Authorised signatory PRINT NAME: Magdalena Jackson

# Merryhill Asbestos Testing and Consulting Limited

## Relevant Legislation

The following is a list of some of the major legislation and regulations to be read and/or considered in conjunction with this survey:

1. Control of Asbestos Regulation 2012.
   Published by HSE

2. Approved Code of Practice. The Managing and working with asbestos.
   Published by HSE L143 (Second edition) Published 2013.

3. Asbestos The Analysts Guide for Sampling, Analysis and Clearance procedure.
   Published HSE HSG248.

4. Asbestos The Licensed Contractors Guide.
   Published by HSE HSG247.

5. Managing Asbestos in Premises.
   Published by HSE HSG227.

6. Surveying, Sampling and Assessment of asbestos-containing materials.
   Published by HSG 264

7. Health and Safety at Work Act 1974.
   Published by HSE

Ground Investigation

Soils LIMITED

Geotechnical & Environmental Consultants

# Ground Investigation Report

**At**

**Land South of Ranelagh Road, Havant, Hampshire, PO9 1NR**

**For**

**Orchard Homes Limited**

**REPORT 13284/GIR**

Soils Limited
Newton House
Cross Road
Tadworth
Surrey KT20 5SR
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# Ground Investigation Report

## Job Title: Land South of Ranelagh Road, Havant, Hampshire PO9 1NR

## Client: Orchard Homes Limited

## CONTROL DOCUMENT

SOILS LIMITED DOCUMENT REFERENCE NUMBER:
13284/GIR

DOCUMENT TYPE:
GROUND INVESTIGATION REPORT

DOCUMENT STATUS: FINAL Revision: 1.00 DATE: November 2012

Note: This is not a valid document for use in the design of the project unless it is titled **Final** in the Document Status box.

| | Name | Signature |
|---|---|---|
| Prepared by: | L Stockwell | L. Stockwell. |
| Checked by: | N J Lambert | N J Lambert |
| | R B Higginson | |

Current regulations and good practice were used in the preparation of this report. The recommendations given in this report must be reviewed by an appropriately qualified person at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

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**Ground Investigation Report**

**At**

**Land South of Ranelagh Road, Havant, Hampshire, PO9 1NR**

**For**

**Orchard Homes Limited**

## Commission

Soils Limited was commissioned by Orchard Homes Limited to carry out a Phase II Ground Investigation at the site known as land south of Ranelagh Road, Havant, Hampshire, PO9 1NR. The scope of the investigation was as outlined in Soils Limited quotation reference Q13950/Rev 1.02 dated 19th October 2012.

This report comprises the Phase II Ground Investigation and incorporates the results, discussion and conclusions to the intrusive investigation. This report must be read in conjunction with the Phase I Desk Study undertaken on the above site by Soils Limited (report ref: 13284/DS, October 2012).

A geotechnical assessment was not required and did not form part of the brief however dynamic probing was undertaken whilst on site and the site derived results have been presented.

The following sections make up the report made on the investigation and comprise:

**Section 1**
**Introduction**

- Objective of the Investigation;
- Location;
- Proposed Redevelopment;
- Limitations and Disclaimers.

**Section 2**
**Site Works**

- Proposed Works;
- Site Works;
- Ground Conditions;
- Roots;

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- Groundwater.

## Section 3
## Discussion of Geotechnical In-Situ Testing

- General

## Section 4
## Engineering Discussion

- General.

## Section 5
## Conceptual Site Model and Chemical Analysis of Soil Samples

- Conceptual Site Model;
- Sampling Strategy;
- Determination of Contaminants of Concern for Soil Samples.

## Section 6
## Quantitative Risk Assessment

- Assessment Criteria;
- Representative Contamination Concentration;
- Soil Risk Assessment and Remediation Requirements.

## Section 7
## Groundwater Risk Assessment

- General;
- Analysis Suite for Water Samples;
- Comparison to Environmental Quality Standards;
- Duty of Care;
- Excavated Material;
- Re-use of Excavated material On-site;
- Imported Material;
- Discovery Strategy.

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## Figures

- Figure 1: Site Location Plan
- Figure 2: Trial Hole Layout Plan

## Appendices

- Appendix A: Fieldwork
- Appendix B: Chemical Laboratory Analysis
- Appendix C: Soil Guideline Values and General Assessment Criteria
- Appendix D: Information Provided by the Client

## Standards

The site works were performed in accordance with the methods given in BS 5930+A2:2010, BS EN ISO 22476-2:2005 and BS EN 1997-2:2007 plus associated National Annexes.

The chemical analyses were undertaken by QTS Environmental Ltd in accordance with their UKAS and MCERTS accredited test methods or their documented in-house testing procedures. This investigation did not comprise an environmental audit of the site or its environs.

Trial hole is a generic term used to describe a method of direct investigation. The term trial pit, borehole or window sample borehole implies the specific technique used to produce a trial hole.

---

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# Section 1
# Introduction

## 1.1 Objective of the Investigation

The overall objective was understood to be to supply the client and their designers with information regarding ground conditions, to assist them in preparing a scheme for redevelopment that was appropriate to the conditions present on the site and safe for end-users and for workers during the redevelopment phase.

As the proposed redevelopment was understood to comprise the refurbishment of the existing building there was no requirement to provide parameters for the design of foundations. Dynamic probing (in-situ testing) was however undertaken to provide data suitable for designing foundations should this be required at a later date.

Soil samples were taken for chemical laboratory testing to enable recommendations for the safe redevelopment of the site and the protection of site workers, end users and the public from any contamination identified.

## 1.2 Location

The approximate O.S. National Grid Reference at the centre of the site was SU 708 063. The site area was approximately 2.5Ha.

The general site location map and plan are presented on Figures 1 and 2 respectively.

## 1.3 Proposed Redevelopment

At the time of reporting, November 2012, the proposed development was understood to comprise the erection of 81 dwellings consisting of 10no. two bed flats, 12no. two bed flats, 6no. two bed houses and 53no. three bed houses. The proposed redevelopment included the construction of access from Ranelagh Road, provision of landscaping, open space and associated works.

## 1.4 Limitations and Disclaimers

This Phase II Ground Investigation report relates to the land referred to as land south of Ranelagh Road, Havant, Hampshire, PO9 1NR (The "Site") and was prepared for the sole benefit of Orchard Homes Limited (The "Client") and was prepared solely for the scheme described in Section 1.3.

Soils Limited disclaims any responsibility to the client and others in respect of any matters outside the scope of the above.

This report has been prepared by Soils Limited, with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporation of our General Terms and Condition of Business and taking account of the resources devoted to us by agreement with the Client.

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This report is personal and confidential to the client and Soils Limited accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report wholly its own risk.

The Client may not assign the benefit of the report or any part to any third party without the consent of Soils Limited.

The ground and groundwater may exhibit a variety of characteristics that vary from place to place across a site, and also with time. Whilst a ground investigation will mitigate to a greater or lesser degree against the resulting risk from variation, the risks cannot be eliminated.

The investigation, interpretations, and recommendations given in this report were prepared for the sole benefit of the client in accordance with their brief. As such these do not necessarily address all aspects of ground behaviour at the site.

An appropriately qualified person must review the recommendations given in this report at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

The depth to roots and/or of desiccation may vary from that found during the investigation. The client is responsible for establishing the depth to roots and/or of desiccation prior to the casting of foundations. Supplied site surveys may not include substantial shrubs or bushes and is also unlikely to have data or any trees, bushes or shrubs removed prior to or following the site survey.

Where trees are mentioned in the text this means existing trees, recently removed trees (approximately 20 years to full recovery on cohesive soils) and those planned as part of the site landscaping.

Ownership of land brings with it onerous legal liabilities in respect of harm to the environment. "Contaminated Land" is defined in Section 57 of the Environment Act 1995 as *"Land which is in such a condition by reason of substances in, on or under the land that significant harm is being caused or that there is a significant possibility of such harm being caused or that pollution of controlled waters is being, or is likely to be caused".*

Ownership of copyright of all printed material including reports, laboratory test results, trial pit and borehole log sheets, including drillers log sheets remains with Soils Limited. License is for the sole use of the client and may not be assigned, transferred or given to a third party.

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# Section 2
# Site Works

## 2.1 Proposed Works

The works to be undertaken on the site comprised the following items:

- The drilling of a series of windowless sampler boreholes to depths of up to 4m to provide site coverage in the general location of the proposed redevelopment;
- Installation of groundwater monitoring wells within four of the windowless sampler boreholes as dictated by the CSM in the Phase I Desk Study;
- Seven machine excavated trial pits with logging and sampling;
- Infiltration testing following the principles of BRE365 within three trial holes;
- Logging, sampling and in-situ testing as appropriate to the ground conditions encountered in the boreholes and from approximate formation levels.

## 2.2 Site Works (October 2012)

Site works were undertaken on 26th October 2012 and comprised the drilling of four windowless sampler boreholes (WS1 to WS4) at locations selected by Soils Limited based on the proposed development drawing (supplied by Orchard Homes Limited) and where no live services were identified. Windowless sampler boreholes were drilled to depths of 4.00m bgl.

'Super Heavy' Dynamic Probes (DPSH-B) were undertaken adjacent to and prior to the drilling of each of the windowless sampler borehole. Dynamic Probes DP1 to DP4 were advanced to depths of between 5.80m and 6.00m bgl. Windowless sampler boreholes were restricted in depth by the presence of competent strata at depth.

Seven machine excavated trial holes (referenced TP1 – TP4 and SA1 – SA3) were dug at locations selected by Soils Limited based on the proposed development drawing in order to recover supplementary shallow samples for geotechnical and chemical laboratory analysis to provide site wide coverage. The machine excavated trial pits were excavated to depths of between 3.00m bgl and 3.50 bgl.

Infiltration testing following the principles of BRE365 were undertaken within three trial pits (SA1 – SA3) at depths ranging between 2.00m bgl and 2.30m bgl. No infiltration rates were possible due to poor infiltration.

The approximate locations of all of the trial holes excavated are presented on Figure 2.

## 2.3 Ground Conditions

The soil conditions encountered were recorded and soil sampling commensurate with the purposes of the investigation was carried out. The depths given on the trial hole

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logs and quoted in this report were measured from ground level directly adjacent to the individual trial hole.

The soils encountered from immediately below ground surface have been described in the following manner. Where the soil incorporated an organic content such as either decomposing leaf litter or roots, or has been identified as part of the *in-situ* weathering profile, it has been described as Topsoil both on the logs and within this report. Where the soil has, in general, been found to have the same composition as the 'Topsoil' but also incorporated a minor constituent, e.g. less than an estimated 5%, of possibly non-naturally occurring material, or is of uncertain origin, the soil has been described as Topsoil/Made Ground both on the logs and within this report. Where man has clearly either placed the soil, or the composition altered with say greater than an estimated 5% of a non-natural constituent, it has been referred to as Made Ground both on the logs and within this report.

For more complete information about the soils encountered within the general area of the site reference should be made to the detailed records given within Appendix A, but for the purposes of discussion the succession of conditions encountered in the trial holes in descending order can be summarised as detailed below:

**Topsoil/Made Ground**
**Head Deposits**
**Lewes Nodular Chalk Formation**

### 2.3.1 Topsoil

Topsoil was encountered in all trial holes and persisted to depths of between 0.25m and 0.55m bgl, where proven. The Topsoil was predominantly cohesive in nature and comprised silty sandy clay and numerous roots and rootlets.

No visual or olfactory evidence of contamination was recorded within any of the Topsoil encountered.

### 2.3.2 Made Ground

A layer of Made Ground was encountered from ground level in WS1. Made Ground was encountered to depths of 0.25m bgl. The Made Ground was predominantly cohesive in nature and comprised silty clay with frequent brick rubble, flint cobbles and rootlets.

***Please note:*** Made Ground may be present to greater depths in other locations across the site.

No visual or olfactory evidence of contamination was recorded within any of the Made Ground encountered with the possible exception of ash within WS1.

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### 2.3.3 Head Deposits

Head Deposits were encountered in all trial holes and persisted to depths of between 0.25m and 4.00m bgl, where proven. The Head Deposits were predominantly cohesive in nature and comprised clay and/or sandy silty clay with numerous flint gravels.

No visual or olfactory evidence of contamination was recorded within any of the Head Deposits.

### 2.3.4 Lewes Nodular Chalk Formation

Lewes Nodular Chalk Formation was only encountered within WS4 and persisted from 2.90m bgl and 4.00m bgl, (base of hole). The Lewes Nodular Chalk Formation was recovered as highly weather putty chalk with abundant flint and chalk gravel.

No visual or olfactory evidence of contamination was recorded within any of the Lewes Nodular Chalk Formation encountered.

For full and complete information within each trial hole, please refer to the trial hole logs appended within Appendix A.

## 2.4 Roots

Roots or rootlets were encountered in all of the trial holes and windowless sampler boreholes from depths ranging from 0.35m bgl and 1.10m bgl during the intrusive investigation.

It must be emphasised that the probability of determining the maximum depth of roots from a narrow diameter borehole such as a windowless sampler borehole is low. A direct observation such as those within a trial pit is necessary to gain a better indication of the maximum root depth.

Mature shrubs / trees were not present on the site or close to the site boundary however it was not known if trees had been cleared from the site, or its close environs, in the recent past.

Roots may be found to greater depths at other locations on the site or around the site particularly close to trees and/or trees that have been removed.

## 2.5 Groundwater

Groundwater was recorded within windowless sampler boreholes TP3 and TP4 at depths of 2.30m bgl and 3.00m bgl respectively. Groundwater was not encountered in any of the other trial holes.

***Please note;*** Windowless sampling techniques make precise measurement of groundwater seepages very difficult. Groundwater equilibrium conditions may only be conclusively established by means of a series of measurements made in a standpipe.

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Standpipes were installed in all windowless sampler boreholes (WS1-WS4), each to the full depth the borehole to facilitate future groundwater and biogas monitoring, if required.

| 13284 Ranelagh Rd Groundwater Levels | | | | | | |
|---|---|---|---|---|---|---|
| **Borehole** | **6.11.12** | **15.11.12** | **TBC** | **TBC** | **TBC** | **TBC** |
| WS1 | 2.52 | 2.69 | - | - | - | - |
| WS2 | 3.60 | 3.65 | - | - | - | - |
| WS3 | 2.47 | 2.54 | - | - | - | - |
| WS4 | 1.38 | 1.61 | - | - | - | - |

Changes in groundwater level do occur for a number of reasons including seasonal effects and variations in drainage. The site investigation was conducted in October 2012, when groundwater levels should rising to their annual maximum (highest level).

The summer of 2012 was one of the wettest on record resulting in groundwater levels potentially being uncharacteristically high.

It is anticipated that in the long-term groundwater levels may rise as a result of factors such as climate change.

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## Section 3
## Discussion of Geotechnical In-Situ Testing

**3.1**
The geotechnical element of this report is pending further geotechnical laboratory test results. These results will not alter the contamination element of the report.

---

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Author: L Stockwell
November 2012
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# Section 4
# Engineering Discussion

## 4.1 General

The geotechnical element of the report is pending further geotechnical results.

A trench filled footing may be appropriate for this site dependant on pending geotechnical results and anticipated loadings. The foundation solution will not alter the contamination report.

---

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# Section 5
# Conceptual Site Model & Sampling Strategy for Contamination Assessment

## 5.1 Conceptual Site Model

The Phase I Desk Study (report ref: 13284/DS, November 2012) identified a potential risks of contamination on-site from Made Ground from historical changes in land use, historical land use including allotments, orchards, nurseries, possible asbestos containing materials, and the farm/stable environment.

With the exception of the presence of a thin veneer of Made Ground (up to 0.25m bgl in WS1), locally containing ash and brick, no further evidence of potential contamination was identified during the Phase II intrusive investigation.

Off-site sources of potential contamination included a tannery, Water Works engine house, a brewery and a garage.

No other off-site sources of potential contamination or soil-gas were identified.

The Conceptual Site Model developed in report ref: 13284/DS is presented overleaf complete with any amendments applicable following the intrusive investigation:

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| Conceptual Site Model | | | |
|---|---|---|---|
| **On-site Potential Sources** | **Potential Migration Pathway** | **Potential Absorption Pathway** | **Potential Receptor** |
| FARM/STABLE ENVIRONMENT – **MODERATE RISK**<br><br>POSSIBLE CEMENT BOUND ASBESTOS **HIGH RISK**<br><br>ALLOTMENTS/ORCHARDS **LOW RISK**<br><br>MADE GROUND FROM HISTORICAL REDEVELOPMENT **MODERATE RISK**<br><br>NURSERYS (HISTORICAL) **LOW RISK**<br><br>**Off-site Potential Sources**<br><br>TANNERY – LOW RISK<br><br>WATERWORKS ENGINE WORKS TO WEST – LOW RISK<br><br>BREWERY – LOW RISK<br><br>GARAGE – LOW RISK | Via anthropogenic pathways such as service trenches<br><br>Via porous ground ~~accumulating in new buildings~~ | Ingestion of soil<br><br>Dermal contact<br><br>Inhalation of dust<br><br>~~Inhalation of vapour~~<br><br>Consumption of home grown vegetables and attached soil<br><br>Location of service supply pipes in contaminated soils | Construction workers (particularly during foundation construction)<br><br>Service and Maintenance Operatives, ~~especially in confined spaces~~<br><br>Site Occupiers (end-user)<br><br>Site Neighbours and the wider public<br><br>Groundwater |

## 5.2 Sampling Strategy - Soil

The strategy for the selection of the locations of exploratory positions was based on:

- The conceptual source, pathway and receptor model;
- Proposed redevelopment plan supplied by client;
- Contaminative activities identified by the Conceptual Site Model.

CLR4 (DOE 1994) and EA R&D P5-066/TR were used to inform the decision regarding the number of sampling locations appropriate to the investigation.

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A non-targeted sampling strategy is appropriate when there is:

- No adequate information available regarding the likely locations of contamination;
- No sensitive areas where there is a need for a high degree of confidence.

A targeted sampling strategy is appropriate when there is:

- Adequate information available regarding the likely locations of contamination;
- Sensitive areas where there is a need for a high degree of confidence.

Both a targeted and non-targeted sampling pattern was adopted with locations selected from near surface soils (Topsoil/Made Ground, Head or Lewes Nodular Chalk Formation) in areas of proposed soft landscaping (based on the proposed development drawing provided) and from soils to provide coverage of the proposed development area.

The human health receptors relevant to the sampling depths were as follows:

| Samples | Potential Receptors |
|---|---|
| Near surface samples | • End users of the site;<br>• Site operatives during demolition and redevelopment;<br>• Maintenance workers;<br>• Building materials and services;<br>• Site neighbours and wider public;<br>• Groundwater. |

An area to the east of site (approximately a quarter of site) could not be investigated due to hard-standing and concrete across the area. This area posed a risk to soil due to contaminants associated with farm and stable environments identified in the Phase I Desk Study (ref: 13284/DS) . Further investigation of this area **is required** to identify any contamination sources.

## 5.3 Determination of Contaminants of Concern for Soil Samples

The driver for the determination of the analysis suite was the information obtained from both the Phase I Desk Study and the Phase II Ground Investigation (including on-site observations). In this instance, given the sites development history a broad range of commonly found contaminants including PAH, TPH and BTEX was adopted. Samples were also tested for herbicides and pesticides.

The full analysis suite is presented below and overleaf:

Fibrous Material Screen (6 samples)
pH (6 samples)

| | |
|---|---|
| Water Soluble Sulphate | (6 samples) |
| Sulphide | (6 samples) |
| Organic Matter | (6 samples) |
| Total Phenols | (6 samples) |
| Total Cyanide | (6 samples) |
| Metals & Semi-Metals: Cd, Cr, Pb, Hg, Ni, Se, CN, Cu, Zn, V, B, As | (6 samples) |
| Organics: | |
| • USEPA 16 speciated Poly Aromatic Hydrocarbons (PAHs); | (6 samples) |
| • Speciated Total Petroleum Hydrocarbons (TPH); | (2 samples) |
| • BTEX. | (2 samples) |
| Herbicides and Pesticides | (1 sample) |

**Note**: Fibrous material screening aims at identifying fibres or fibrous material, which are indicative of the presence of asbestos. Should fibres or fibrous material be detected the sample is characterised as "positive" and is subsequently submitted for further analysis for confirmation and speciation if required.

Six shallow samples (<0.50m bgl) of the Topsoil and Made Ground and three samples from the shallow Head Deposits (<0.50m bgl) were submitted for chemical laboratory testing.

The results of the soil chemical testing for Human Health are discussed in Section 6.3 of this report.

In addition to the soils samples scheduled above, three samples were scheduled for groundwater testing.

| Sampling Strategy - Groundwater | | | | |
|---|---|---|---|---|
| **Location** | **Historic land-use** | **Location – proposed redevelopment** | **Analysis suite*** | **Purpose** |
| WS1 | Allotment | Residential property/ Private garden | SP2 Suite | **Human receptor/groundwater** |
| WS3 | Open land | Private Garden | SP2 Suite | |
| WS4 | Stables/farming environment | Residential | SP2 Suite | |

Discussion of the groundwater results is provided within Section 7.

## 5.4 Groundwater Analysis

Groundwater analysis was undertaken on soil samples recovered from WS1, WS3 and WS4 to assess the potential for any contamination identified within the shallow soils in groundwater beneath the site.

For Tier 1 Qualitative risk assessment the results were compared with EQS's taken as those for the UK Drinking Water Standards (DWS) and the EA Standards for Protection of Aquatic Life (Freshwater). This represented a high degree of conservatism given the environmental setting of the site.

Further details are provided within Section 7 of this report.

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# Section 6
# Quantitative Risk Assessment

## 6.1 Assessment Criteria

The assessment criteria used to determine risks to human health are derived and explained within Appendix C.

## 6.2 Representative Contamination Concentration

The results of the comparison of the representative contaminants concentration for human health receptor to the Soil Guideline Values (SGV), ATRISK$^{soil}$ Soil Screening Values (SSV) and General Assessment Criteria (GAC) are presented in the table below and are assessed against the ***"Residential"*** land-use scenario as this was considered the most appropriate land-use scenario given the development type:

**Summary of Chemical Analysis of Soil Samples**

| Substance | Sample Location Where relevant guideline value was exceeded for *Residential* Scenario |
|---|---|
| Arsenic | None |
| Beryllium | None |
| W/S Boron | None |
| Cadmium | None |
| Chromium | None |
| Copper | None |
| Lead | None** |
| Mercury (inorganic) | None |
| Nickel | None |
| Selenium | None |
| Vanadium | None |
| Zinc | None |
| PAH (USEPA 16 speciated) | None |
| TPH (CWG) | None |
| BTEX | None |
| Fibrous material screening* | None |

* Fibrous material screening was undertaken by the sample preparers in sample reception at QTS Ltd's laboratory. They were trained to look for fibrous material though cannot actually determine whether it was asbestos. If they saw fibres, they report fibres as 'Positive'. The sample would then have to go to a specialist laboratory for confirmation and speciation. If they do not see fibres, they report fibres as 'Negative'.
** Lead 6% SOM was adopted in accordance with the ATRISK$^{soil}$ Soil Screening Values (SSV) as this was considered the most appropriate given the SOM of the sample.

To assess the potential toxicity to the human health receptor from the concentrations of organic compounds tested for, Soil Organic Matter (SOM) tests were undertaken on the samples submitted for chemical testing, which revealed an SOM values of between 1.2% and 11.5%. The Soil Organic Matter recorded for each sample was used to derive the appropriate GAC for organic determinants.

**Note on Asbestos;** no possible Asbestos Containing Materials were identified within the soil or scattered at surface during the intrusive works. All samples are screened at the laboratory for the presence of fibrous material that may be indicative of the

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presence of asbestos.

From the table on the previous page it can be seen that none of the determinants were in excess of the relevant DEFRA SGV, ATRISKsoil SSV or LQM CIEH GAC for a residential land-use scenario.

### 6.3 Soil Risk Assessment and Remediation Requirements

The Tier 1 Quantitative risk assessment established that there was **no risk to the human health receptors** of construction workers or future end users from the soils tested as none of the determinants were found to be in excess of the relevant DEFRA SGV, ATRISKsoil SSV or LQM CIEH GAC.

Therefore there is **no requirement for soil remediation** based on the results of the samples tested.

A Discovery Strategy (as detailed within Section 6.8) must however be adopted during the construction phase.

Full results of the contamination testing are presented in Appendix C.

***Note on Asbestos;*** no possible Asbestos Containing Materials were identified within the soil or scattered at surface during the intrusive works. All samples are screened at the laboratory for the presence of fibrous material that may be indicative of the presence of asbestos. No fibres were recorded and therefore no asbestos ID samples were scheduled.

Full results of the contamination testing are presented in Appendix B.

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# Section 7
# Groundwater Risk Assessment

## 7.1 General

Groundwater samples were taken from 50mm diameter wells installed in WS1, WS3, and WS4. The wells were purged by bailing three well volumes with disposable HDPE bailers. Samples were recovered using a disposable bailer and transferred to suitable cooled containers for transport to the laboratory.

## 7.2 Analysis Suite for Water Samples

The suite of tests was tailored to the use of the site and the site's environs as established by the investigation

The analysis suite (SP2) comprised:

- pH
- Sulphate
- Metals & Semi-Metals: Cd, Cr, Pb, Hg, Ni, Se, CN, Cu, Zn, B, Be, As, Va
- Total Organic Carbon
- Total Phenols
- USEPA 16 speciated PAH
- BTEX
- TPH

## 7.3 Comparison to Environmental Quality Standards

The table presented below and overleaf provides a comparison of the Environmental Quality Standards (EQS) to which the results of the groundwater and leachate analysis was screened.

**Water and Leachate Samples – Comparison to EQS**

| Determinant | Units | EQS Source | EQS Level |
|---|---|---|---|
| Arsenic | µg/l | DWS | 10 |
| Cadmium | µg/l | DWS | 5 |
| Chromium | µg/l | DWS | 50 |
| Copper | µg/l | DWS | 2000 |
| Nickel | µg/l | SPAL | 50-200 |
| Lead | µg/l | SPAL | 4 - 250 |
| Mercury | µg/l | DWS | 1 |
| Selenium | µg/l | DWS | 10 |
| Zinc | µg/l | DWS | 5000 |
| Boron | µg/l | DWS | 1000 |
| Sulphate | mg/l | DWS | 250 |
| Sulphide | µg/l | SPAL | 0.25 |

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| | | | |
|---|---|---|---|
| Total Cyanide | µg/l | DWS | 50 |
| Phenol (1) | µg/l | SPAL | 300 |
| Benzo (a) pyrene | µg/l | DWS | 0.01 |
| Naphthalene | µg/l | SPAL | 10 |
| Polycyclic Aromatic Hydrocarbon (2) | µg/l | DWS | 0.1 |
| Total Petroleum Hydrocarbons | µg/l | NONE (3) | 10 |
| Benzene | µg/l | DWS | 1 |
| Toluene | µg/l | SPAL | 50 |
| Ethylbenzene | µg/l | WHO | 300 |
| Xylene | µg/l | SPAL | 30 |
| Notes | DWS = UK Drinking Water Standards<br>SPAL = EA Standard for Protection of Aquatic Life (Freshwater)<br>WHO = World Health Organisation Guidelines for Drinking Water Quality, 1984<br>(1) Taken as Maximum Allowable Concentration<br>(2) Sum of fluoranthene, benzo 3.4 fluoranthene (*benzo (b) flouranthene)*, benzo 11.12 fluoranthene (*benzo (k) flouranthene)*, benzo 3.4 pyrene (*benzo (a) pyrene)* and indeno (1,2,3-cd) pyrene<br>(3) Value given is former DWS EQS (Now withdrawn) | | |

The table below shows the results of the screening exercise for both the groundwater and leachate samples tested:

| **Water and Leachate Samples – Comparison to EQS** | |
|---|---|
| **Samples** | **EQS Exceedance** |
| WS1 | None |
| WS3 | None |
| WS4 | None |

Given the results recorded and the conservative nature of the EQS adopted for screening it was concluded that there was no impact to groundwater and that **no further action was required**.

A potential contamination source was identified by the Phase I Desk Study and Phase II site works in the form of the stable and farm buildings situated upon hard-standing to the east of the site. The area was not investigated due to the hard-standing across the area. The stable area could impact groundwater through cracks and breaks within the concrete base as well as direct infiltration off the side of the hard standing.

Using spot heights within the topographical survey provided by the client and depths to groundwater, it was established that groundwater was flowing in a westerly direction, towards the Water Works Pumping Station.

Sampling of groundwater entering and exiting the site (WS1, WS3 and WS4) revealed no elevated levels of deteminants tested for.

Contamination impacting groundwater from the area beneath the hardstanding would have been identified within the groundwater monitoring undertaken.

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It is recommended that further groundwater monitoring is undertaken immediately prior to commencement of site works, and again post demolition to ensure potential groundwater contamination is not mobilised as a result of site works.

### 7.4 Duty of Care

Groundworkers must maintain a good standard of personal hygiene including the wearing of overalls, boots, gloves and eye protectors and the use of dust masks during periods of dry weather.

To prevent exposure to airborne dust by both the general public and construction personnel the site should be kept damp during dry weather and at other times when dust were generated as a result of construction activities. The site should be securely fenced at all times to prevent unauthorised access.

Washing facilities should be provided and eating restricted to mess huts.

### 7.5 Excavated Material

Excavated material must be classified with the Environment Agency for disposal at an appropriately licensed disposal facility. The requirements of Duty of Care and Health and Safety Guidance must be complied with.

Both Producers and Waste Management companies must ensure compliance with the new Waste Acceptance Criteria (WAC) prior to landfill in Hazardous, stable non-reactive cells and inert sites. These regulations govern the operation of landfill in England and Wales. Basic characterisation is the responsibility of the waste producer and compliance checking is generally the responsibility of the landfill operator. Therefore landfill operators will be unlikely to accept waste that does not meet the Waste Acceptance Criteria for their class of site.

There is an obligation to 'treat' all soils destined for landfill, including non-hazardous waste. This treatment must now be documented and presented to the landfill operator or waste may be refused entry. Note that all liquids are banned from landfill.

For the purposes of legal compliance, 'treatment' must comprise three things (the 'three-point test'):

1. It must be a physical, thermal, chemical or biological process.
2. It must change the characteristics of the waste.
3. It must do so in order to:
    (a) reduce its volume, or
    (b) reduce its hazardous nature, or
    (c) facilitate its handling, or enhance its recovery.

Waste Acceptance Criteria tests have not been undertaken at this stage as these were not requested within the brief. It is recommended that WAC tests are performed on samples recovered from stockpiled material prior to disposal. Similar material should be stockpiled together.

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## 7.6 Re-use of Excavated Material On-Site

The re-use of on-site soils may be undertaken either under the Environmental Permitting Regulations 2007 (EPR), in which case soils other than uncontaminated soils are classed as waste, or under the CL:AIRE Voluntary Code of Practice (CoP) which was published in September 2008 and is accepted as an alternative regime to the EPR.

Under the EPR, material that is contaminated but otherwise suitable for re-use is also classified as waste and its re-use should be in accordance with the Environmental Permitting Regulations 2007 (EPR). Environmental Permit Exemptions (EPE) are for the re-use of non-hazardous or inert waste only; hazardous waste cannot be re-used under a permit exemption. EPE apply only to imported inert waste materials; inert material arising on site and recovered on site is not classified as waste and does not require an exemption. It is possible that materials arising on-site will be classified as inert and would not need an exemption.

Environmental Permit Exemptions are only allowed for certain activities, placing controls on the quantities that can be stored and re-used. The re-use of waste shall be within areas and levels defined in planning applications and permissions for the development. An EPE requires a site specific risk assessment for the receptor site to demonstrate that the materials are suitable for use, i.e. that they will not give rise to harm to human health or pollution of the environment.

Under the CL:AIRE voluntary code of practice (CoP) materials excavated on-site are not deemed contaminated if suitable for re-use at specified locations or generally within the site.

Material that may have been classified as hazardous waste under the EPR may be re-used. The CoP regime requires that a 'Qualified Person' as defined under the CoP reviews the development of the Materials Management Plan, including review of Risk Assessments and Remediation Strategy/Design Statement together with documentation relating to Planning and Regulatory issues, and signs a Declaration which is forwarded to the Environment Agency and which confirms compliance with the CoP.

Should it be necessary to import materials from another site where materials are excavated and which is not material from a quarry or produced under a WRAP protocol, then an EPE would be necessary for the imported material whether the work was managed under the CoP or the EPR.

## 7.7 Imported Material

Any soil, which is to be imported onto the site, must undergo chemical analysis to permit classification prior to its importation and placement in order to ascertain its status with specific regard to contamination, i.e. to prove that it is suitable for the purpose for which it is intended.

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## 7.8 Discovery Strategy

There may be areas of contamination that have not been identified during the course of the intrusive investigation. For instance, there may have been underground storage tanks (UST's) not identified during the Ground Investigation for which there is no historical or contemporary evidence. Such occurrences may be discovered during the demolition and construction phases for the redevelopment of the site.

Groundworkers should be instructed to report to the Site Manager any evidence for such contamination, this may comprise visual indicators, such as fibrous materials within the soil, discolouration, or odours and emission. Upon discovery advice must be taken from a suitably qualified person before proceeding, such that appropriate remedial measures and health and safety protection may be applied.

Should a new source of contamination be suspected or identified then the Local Authority and Soils Limited will be informed.

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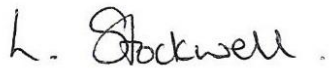
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The following figures and appendices complete this report:

| | |
|---|---|
| Figure 1 | Site Location Map |
| Figure 2 | Trial Hole Layout Plan |

| | |
|---|---|
| Appendix A | Field Work |
| Appendix B | Chemical Laboratory Analysis |
| Appendix C | Soil Guideline Values and General Assessment Criteria |
| Appendix D | Information Provided by the Client |



L. Stockwell BSc. (Hons.) FGS.



Eur Ing. R. B. Higginson B.Sc., PG. Dip., C.Eng., MICE., FGS.
Geotechnical Advisor

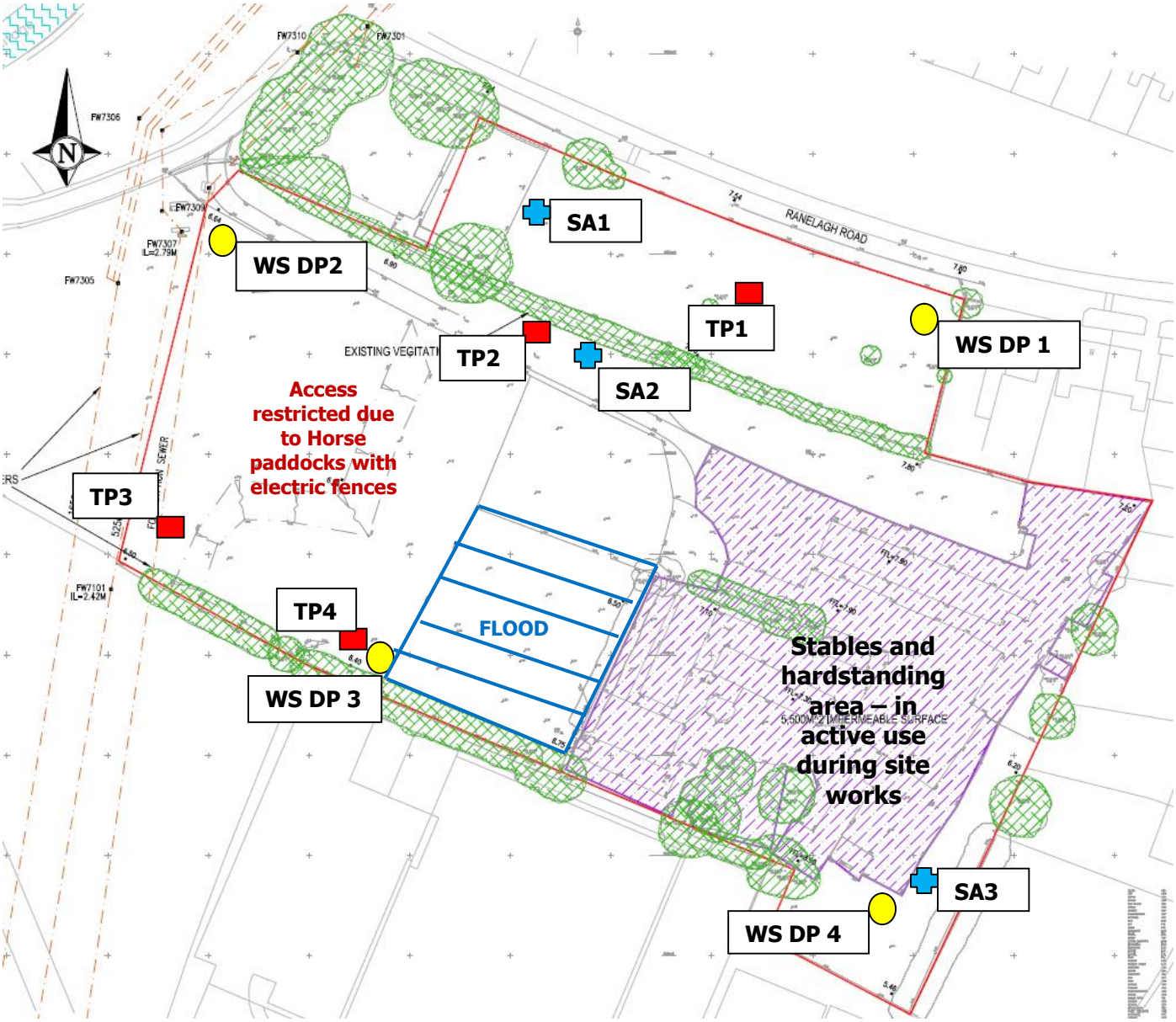
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| | | |
|---|---|---|
| PROJECT:<br>**Land south of Ranelagh Road, Havant, Hampshire** | DATE:<br>**November 2012** | soils LIMITED<br>*Geotechnical & Environmental Consultants* |
| CLIENT:<br>**Orchard Homes Limited** | SCALE:<br>**Not to scale** | |
| TITLE:<br>**Figure 1: Location Plan** | REF:<br>**13284** | |




**Key:**

- Windowless Sampler Boreholes/Dynamic Probing
- Trial Pits
- Soakaway test

| | |
|---|---|
| **Project:** Land south of Ranelagh Road, Havant, Hampshire | soils LIMITED *Geotechnical & Environmental Consultants* |
| **Client:** Orchard Homes Limited | **Date:** November 2012 |
| **Figure 2:** Trial Hole Layout Plan | **Job Number:** 13248 |

# Appendix A
# Field Work

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# WS: WS 1

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: Terrier Rig | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

## Samples & Tests

| Depth | Type | Result | Hand Pen. |
|---|---|---|---|
| 0.10 - 0.10 | D & J | | |
| 0.40 - 0.40 | D | | |
| 0.90 - 0.90 | D | | |
| 1.30 - 1.30 | D | | |
| 2.00 - 2.00 | D | | |
| 2.40 - 2.40 | D | | |
| 3.60 - 3.60 | D | | |

## Strata Details

| Elev. | Legend | Depth | Thick | Description |
|---|---|---|---|---|
| | | 0.25 | 0.25 | MADE GROUND Dark brown silty clay with frequent brick rubble, flint cobbles and rootlets<br>At 0.10m bgl: Ash |
| | | 3.75 | 3.50 | HEAD Pale brown sandy clay with frequent fine to coarse flint and chalk gravel.<br>At 0.60m bgl: Ash |
| | | 4.00 | | End of Borehole at 4.00 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

Dry

## Stability:

Stable

## General Remarks:

Roots observed to 0.80m bgl. Well installed to 4.00m bgl

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# WS: WS 2

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: Terrier Rig | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

| Samples & Tests | | | | Strata Details | | | |
|---|---|---|---|---|---|---|---|
| Depth | Type | Result | Hand Pen. | Elev. | Legend | Depth (Thick) | Description |
| 0.30 - 0.30 | D & J | | | | | 0.40 | TOPSOIL Dark brown silty clay with numerous roots and rootlets |
| 0.50 - 0.50 | D | | | | | 0.40 (0.55) | HEAD Orange brown soft CLAY with occasional roots to 0.70m bgl |
| 1.00 - 1.00 | D | | | | | 0.95 | HEAD Pale creamy yellow very sand CLAY with frequent fine to coarse flint and chalk gravel and getting softer with depth at 2.80m bgl |
| 1.80 - 1.80 | D | | | | | | |
| 2.30 - 2.30 | D | | | | | 3.05 | |
| 3.00 - 3.00 | D | | | | | | |
| 3.50 - 3.50 | D | | | | | 4.00 | End of Borehole at 4.00 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

Dry

## Stability:

Stable

## General Remarks:

Roots observed to 0.70m bgl. Well installed to 4.00m bgl

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# WS: WS 3

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: Terrier Rig | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

| Samples & Tests | | | | Strata Details | | | |
|---|---|---|---|---|---|---|---|
| Depth | Type | Result | Hand Pen. | Elev. | Legend | Depth (Thick) | Description |
| 0.10 - 0.10 | D & J | | | | | 0.25 (0.25) | TOPSOIL Dark brown silty clay with numerous roots and rootlets |
| 0.40 - 0.40 | D | | | | | 0.90 (0.65) | HEAD Orange brown soft CLAY with occasional roots to 0.70m bgl |
| 0.75 - 0.75 | D | | | | | 1.65 (0.75) | HEAD Dark orange brown very gravelly CLAY with numerous fine to coarse flint gravel and cobbles |
| 1.40 - 1.40 | D | | | | | 2.35 (0.70) | HEAD Pale creamy yellow very sandy CLAY with frequent fine to coarse flint gravel and getting softer with depth<br>Between 2.00-2.80m bgl: Loss of recovery |
| 2.00 - 2.00 | D | | | | | | |
| 2.50 - 2.50 | D | | | | | | |
| 3.40 - 3.40 | D | | | | | 4.00 | End of Borehole at 4.00 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

| Groundwater Observations: | Stability: | General Remarks: |
|---|---|---|
| Dry | Stable | Roots observed to 0.60m bgl. Well installed at 4.00m bgl |

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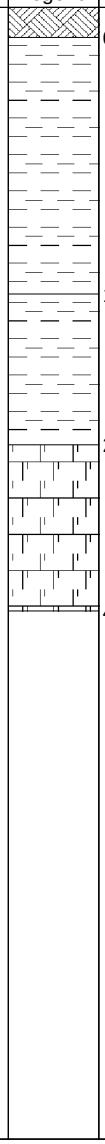
# WS: WS 4

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: Terrier Rig | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

## Samples & Tests

| Depth | Type | Result | Hand Pen. |
|---|---|---|---|
| 0.10 - 0.10 | D & J | | |
| 0.40 - 0.40 | D | | |
| 1.00 - 1.00 | D | | |
| 1.30 - 1.30 | D | | |
| 1.80 - 1.80 | D | | |
| 2.90 - 2.90 | D | | |
| 3.80 - 3.80 | D | | |

## Strata Details



| Elev. | Depth | Thick | Description |
|---|---|---|---|
| | 0.20 | 0.20 | TOPSOIL Dark brown silty clay with frequent brick rubble, flint cobbles and rootlets |
| | | | HEAD Orange brown soft CLAY with occasional roots to 0.70m bgl |
| | 1.90 | 1.70 | HEAD: Very soft pale yellow gravel with fine to coarse flint<br>Between 2.00-2.80m bgl: No Recovery |
| | 2.90 | 1.00 | Between 2.70-2.90m bgl : A band of pale creamy-yellow very sandy CLAY with frequent fine to coarse flint gravel at 2.7-2.9m |
| | 4.00 | 1.10 | LEWES NODULAR CHALK FORMATION Highly weathered putty CHALK with abundant flint and chalk gravel<br>Between 3.00-3.60m bgl : No Recovery |
| | | | End of Borehole at 4.00 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

Dry

## Stability:

Stable

## General Remarks:

Roots observed to 0.50m bgl. Well installed at 4.00m bgl

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# Trial Pit: TP 1

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

| Samples & Tests | | | | Strata Details | | | |
|---|---|---|---|---|---|---|---|
| Depth | Type | Result | Hand Pen. | Elev. | Legend | Depth (Thick) | Description |
| 0.20 - | D | | | | | 0.35 (0.35) | TOPSOIL Dark brown silty sandy clay with occasional roots and rootlets |
| 0.50 - | D | | | | | 1.12 (0.77) | HEAD Orange and dark orange mottled CLAY |
| 1.00 - | D | | | | | 1.47 (0.35) | HEAD Pale yellow sandy silty clayey GRAVEL with numerous flint cobbles |
| 1.50 - | D | | | | | 2.20 (0.73) | HEAD Grey orange mottled silty sandy CLAY |
| 2.00 - | D | | | | | 3.10 (0.90) | HEAD Pale creamy yellow coarse very wet SAND |
| 2.50 - | D | | | | | 3.30 (0.20) | End of Trial Pit at 3.30 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

Dry

## Stability:

Stable

## General Remarks:

Roots observed to 0.35m bgl

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# Trial Pit: TP 2

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

| Samples & Tests | | | | Strata Details | | | |
|---|---|---|---|---|---|---|---|
| Depth | Type | Result | Hand Pen. | Elev. | Legend | Depth (Thick) | Description |
| 0.50 - | D | | | | | 0.65 (0.65) | TOPSOIL Dark brown silty clayey topsoil with flint, numerous roots and rootlets |
| 1.00 - | D | | | | | 1.30 (0.65) | HEAD Orange brown mottled CLAY with occasional flint fragments |
| 2.00 - | D | | | | | 2.50 (1.20) | HEAD Creamy yellow very sandy GRAVEL with numerous flint cobbles |
| 2.70 - | D | | | | | 3.30 (0.80) | HEAD Orange CLAY |
| | | | | | | | End of Trial Pit at 3.30 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

Dry

## Stability:

Stable

## General Remarks:

Roots observed to 0.70m bgl

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# Trial Pit: TP 3

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

| Samples & Tests | | | | Strata Details | | | |
|---|---|---|---|---|---|---|---|
| Depth | Type | Result | Hand Pen. | Elev. | Legend | Depth (Thick) | Description |
| 0.40 - | D | | | | | 0.40 | TOPSOIL Dark brown silty sandy clay with occasional roots and rootlets |
| 1.00 - | D | | | | | 0.40 (1.30) | HEAD Orange brown mottled CLAY with numerous flint cobbles and gravel |
| 2.30 - | D | | | | | 1.70 (1.30) | HEAD Creamy white clayey sandy GRAVEL with numerous flint cobbles |
| | | | | | | 3.00 | End of Trial Pit at 3.00 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

2.30m bgl

## Stability:

Stable

## General Remarks:

Roots observed to 0.70m bgl

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# Trial Pit: TP 4

| | | | |
|---|---|---|---|
| Site: | Land South of Ranelagh Road, Havant | Start Date: 26/10/2012 | Ground Level: - |
| Client: | Orchard Homes & Developments Ltd | End Date: 26/10/2012 | Easting: - |
| Project No: | 13284 | Logged By: LS | Northing: - |
| Site National Grid Reference: | | Excavation Method: | |
| Site Level (mOD): | 0.000 | Plant: | |
| | | Shoring/Support: None | |
| | | Trial Pit Length: - | Trial Pit Width: - |

| Samples & Tests | | | | Strata Details | | | |
|---|---|---|---|---|---|---|---|
| Depth | Type | Result | Hand Pen. | Elev. | Legend | Depth / Thick | Description |
| 0.10 - | D | | | | | 0.25 / 0.25 | TOPSOIL Dark brown silty sandy clay with turf, numerous rootlets and roots |
| 0.70 - | D | | | | | 1.10 / 0.85 | HEAD Orange brown silty sandy CLAY with roots and rootlets |
| 1.40 - | D | | | | | 1.60 / 0.50 | HEAD Orange brown very gravelly CLAY / clayey gravel with flint cobbles and gravel |
| 1.60 - | D | | | | | 2.40 / 0.80 | HEAD Creamy white sandy very gravelly CLAY with orange white sandy clay band at 1.60m bgl |
| 2.00 - | D | | | | | 3.50 / 1.10 | HEAD Very soft grey CLAY |
| 2.70 - | D | | | | | | End of Trial Pit at 3.50 m |

## General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptioins are based only on field observations and available in-situ test data.
3. Trial pit logged from the ground surface below 1.2 m depth.

## Groundwater Observations:

3.00m bgl

## Stability:

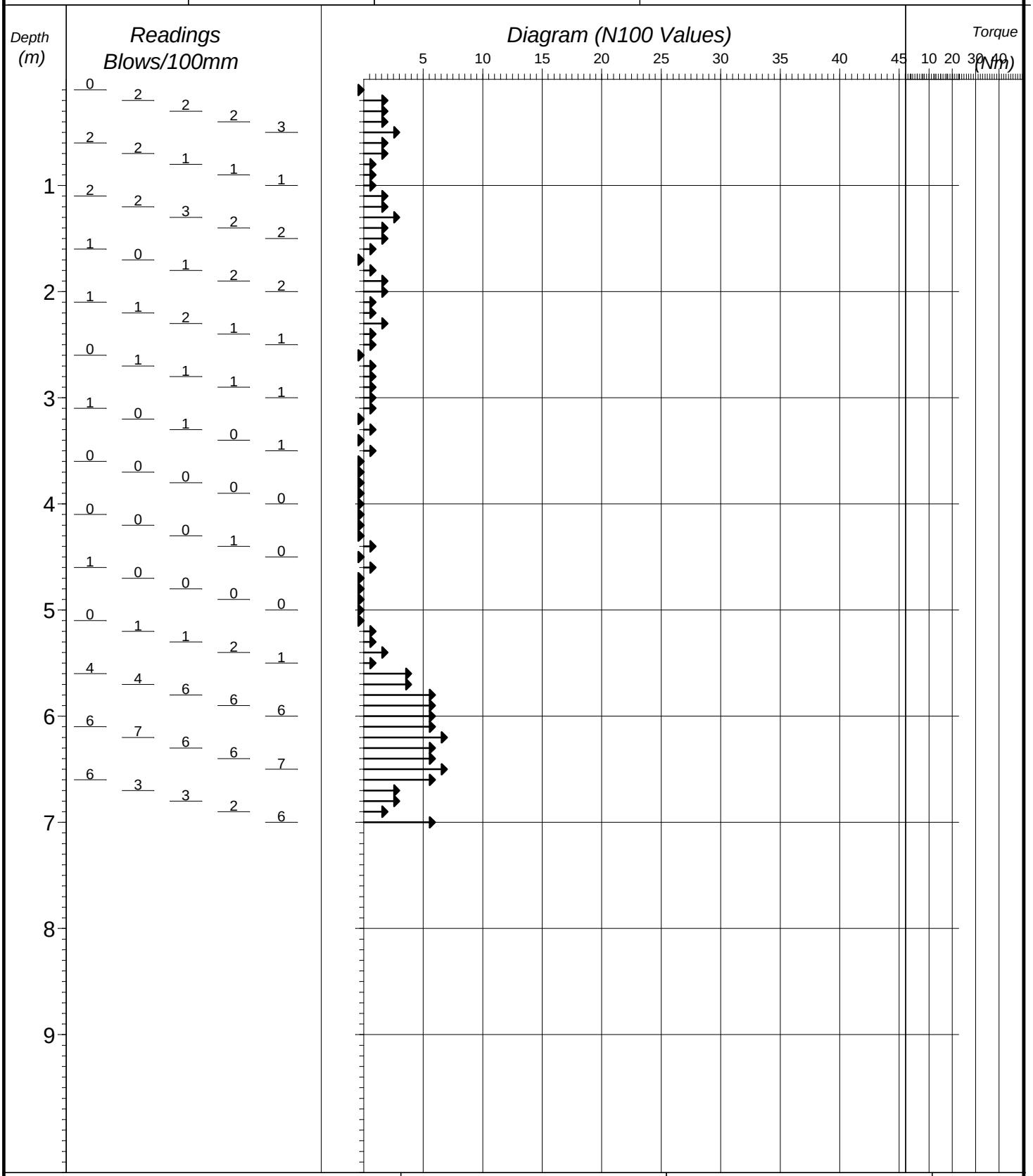
Stable

## General Remarks:

Roots observed to 1.10m bgl

# DYNAMIC PROBING

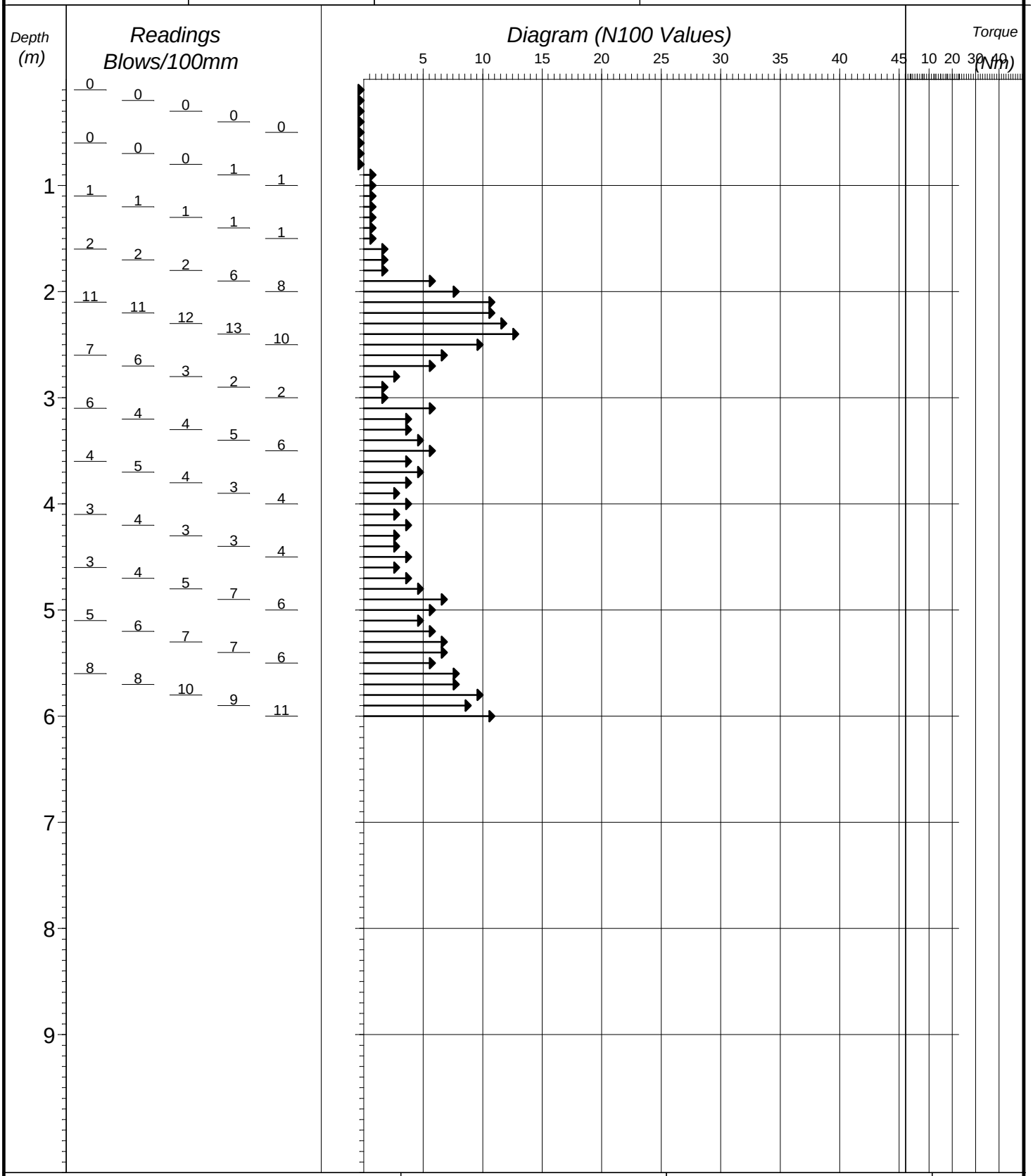
| | | | |
|---|---|---|---|
| | | *Probe No* | **DP 1** |
| *Client* | **Orchard Homes & Developments Ltd** | Sheet 1 of 1 | |
| *Site* | **Land South of Ranelagh Road** | *Location No* | **13284** |
| *E* - | *N* - | *Level* - | *Date* **26/10/2012** |




| | | | | |
|---|---|---|---|---|
| *Fall Height* | **750** | *Cone Diameter* | **50** | *Logger* |
| *Hammer Wt* | **63.50** | *Final Depth* | **6.900** | **Geolo** |
| *Probe Type* | **DPSH** | *Log Scale* | 1:50 | |

# DYNAMIC PROBING

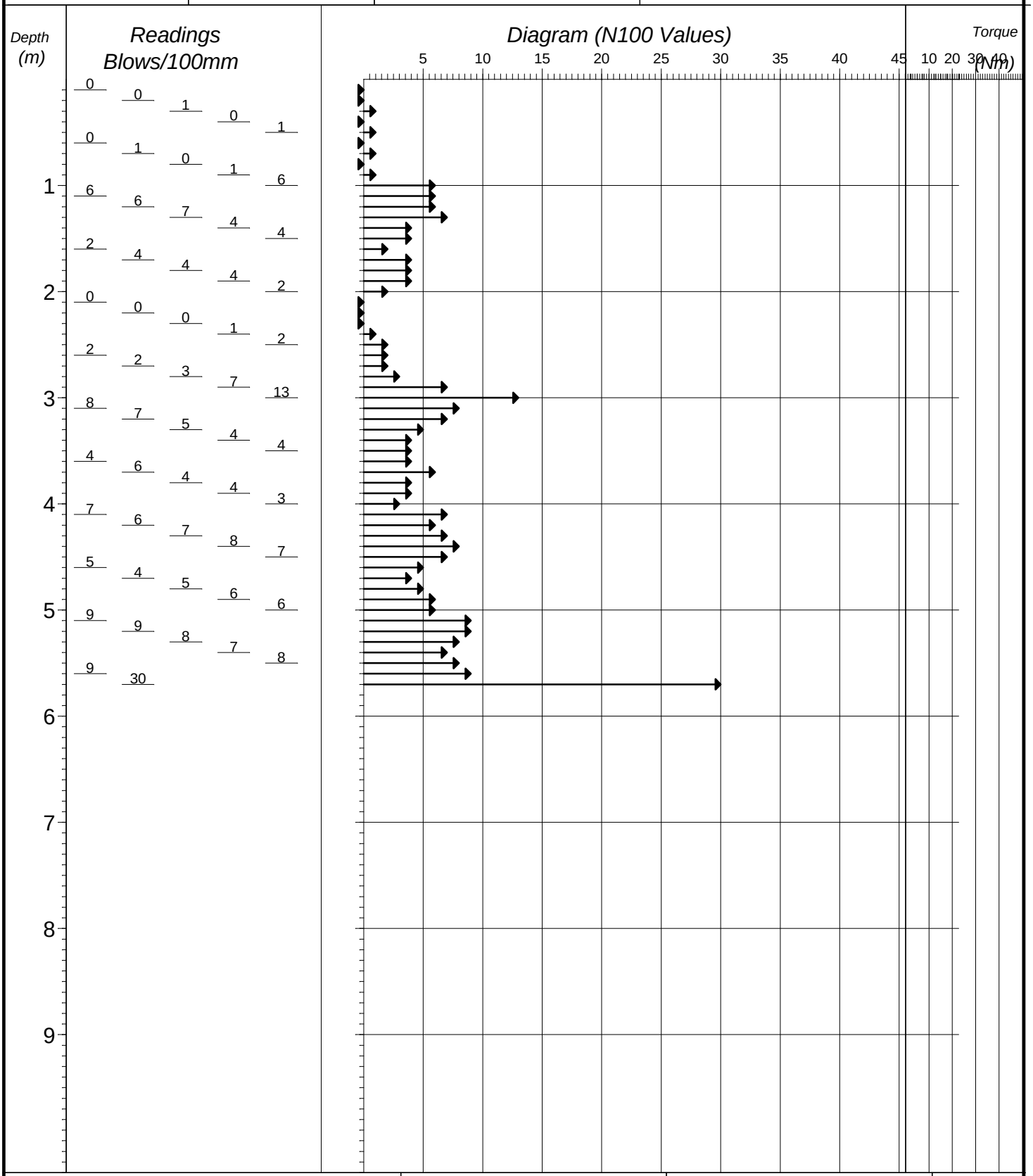
| | |
|---|---|
| Probe No | **DP 2** |
| Client | **Orchard Homes & Developments Ltd** |
| Sheet 1 of 1 | |
| Site | **Land South of Ranelagh Road** |
| Location No | **13284** |
| E - | N - |
| Level - | Date **26/10/2012** |




| | | | | |
|---|---|---|---|---|
| *Fall Height* | **750** | *Cone Diameter* | **50** | *Logger* |
| *Hammer Wt* | **63.50** | *Final Depth* | **5.900** | **Geolo** |
| *Probe Type* | **DPSH** | *Log Scale* | 1:50 | |

# DYNAMIC PROBING

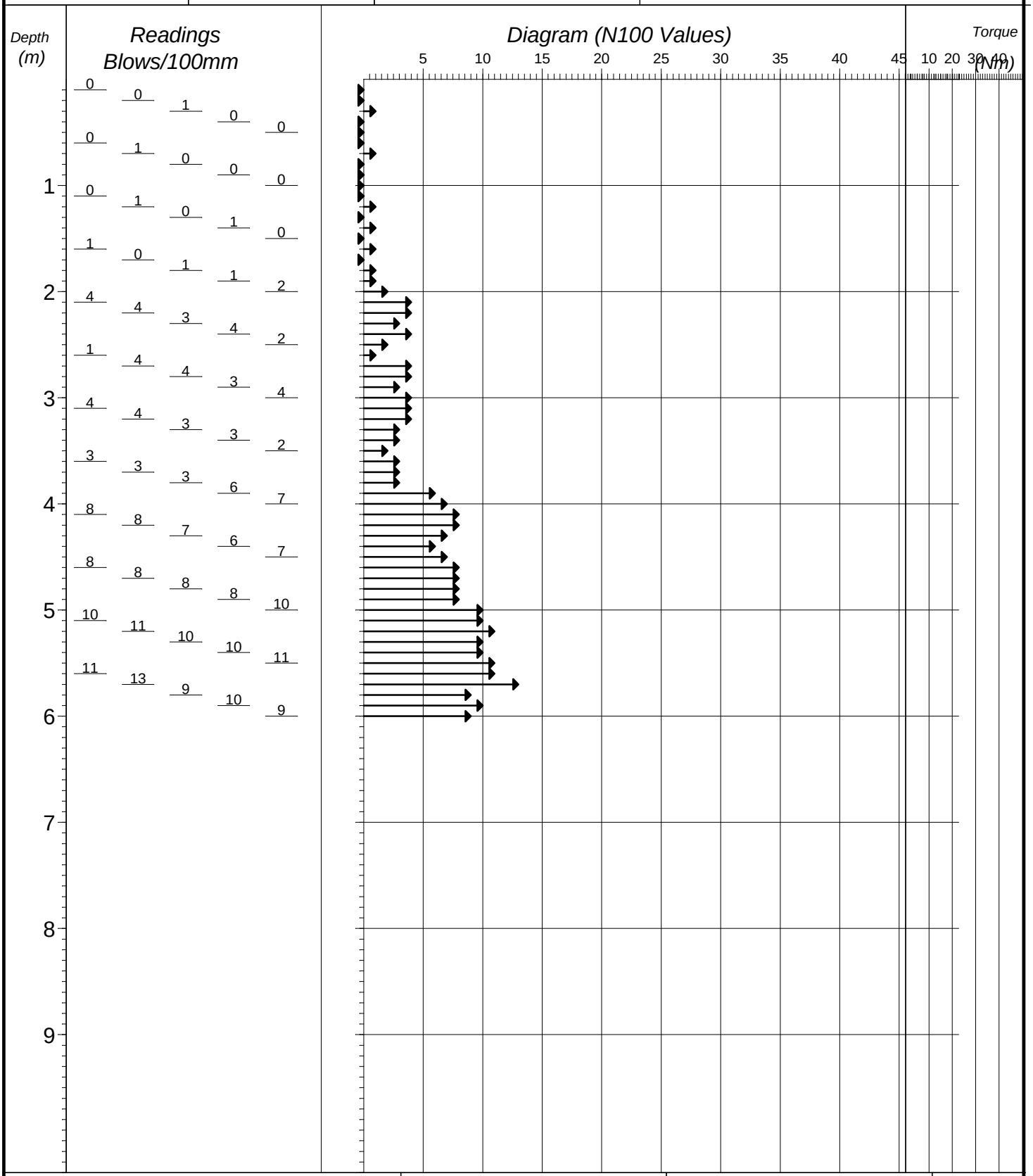
| | | | |
|---|---|---|---|
| *Probe No* | **DP 3** | | |
| *Client* | **Orchard Homes & Developments Ltd** | Sheet 1 of 1 | |
| *Site* | **Land South of Ranelagh Road** | *Location No* | **13284** |
| *E* - | *N* - | *Level* - | *Date* **26/10/2012** |




| | | | | |
|---|---|---|---|---|
| *Fall Height* | **750** | *Cone Diameter* | **50** | *Logger* |
| *Hammer Wt* | **63.50** | *Final Depth* | **5.600** | **Geolo** |
| *Probe Type* | **DPSH** | *Log Scale* | 1:50 | |

# DYNAMIC PROBING

| | | | |
|---|---|---|---|
| *Probe No* | **DP 4** | | |
| *Client* | **Orchard Homes & Developments Ltd** | Sheet 1 of 1 | |
| *Site* | **Land South of Ranelagh Road** | *Location No* | **13284** |
| *E* - | *N* - | *Level* - | *Date* **26/10/2012** |




| | | | | |
|---|---|---|---|---|
| *Fall Height* | **750** | *Cone Diameter* | **50** | *Logger* |
| *Hammer Wt* | **63.50** | *Final Depth* | **5.900** | **Geolo** |
| *Probe Type* | **DPSH** | *Log Scale* | 1:50 | |

# Appendix B
# Chemical Laboratory Analysis

# Appendix C
# Soil Guideline Values and General Assessment Criteria

**Appendix C**
**Soil Guideline Values and General Assessment Criteria**

## C1 Assessment Criteria

The Contaminated Land Regime reflects the UK Government's stated objectives of achieving sustainable development through the 'suitable for use approach'.

### C1.1 Contaminated Land Exposure Assessment Model (CLEA)

Current United Kingdom risk assessment practice is based on the Contaminated Land Exposure Assessment Model (CLEA).

The CLEA Guidance comprises the following documents:

1) EA Science Report SC050021/SR2: *Human health toxicological assessment of contaminants in soil.*
2) EA Science Report SC050021/SR3: *Updated technical background to the CLEA model.*
3) EA CLEA Bulletin (2009).
4) CLEA software version 1.04 (2009)
5) Toxicological reports and SGV technical notes.

The CLEA guidance and tools:

- *do not cover other types of risk to humans, such as fire, suffocation or explosion, or short-term and acute exposures.*
- *do not cover risks to the environment, such as groundwater, ecosystems or buildings.*
- *do not provide a definitive test for telling when human health risks are significant.*
- *are not a legal requirement in assessing land contamination risks. They are not part of the legal regime for Part 2A of the Environmental Protection Act 1990.*

The CLEA guidance derives soil concentrations of contaminants above which (in the opinion of the EA) there may be a concern that warrants further investigation. It does not provide a definitive test for establishing that the risk is significant.

### C1.2 Land-use Scenarios

The CLEA model uses a range of standard land-use scenarios to develop conceptual exposure models as follows:

***1 Residential***

Generic scenario assumes a typical two-storey house built on a ground bearing slab with a private garden having a lawn, flowerbeds and a small fruit and vegetable patch.



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- Critical receptor is a young female child (zero to six years old)
- Exposure duration is six years.
- Exposure pathways include direct soil and indoor dust ingestion, consumption of homegrown produce and any adhering soil, skin contact with soils and indoor dust and inhalation of indoor and outdoor dust and vapours.
- Building type is a two-storey small terraced house.

A sub-set of this land-use is residential apartments with communal landscaped gardens where the consumption of home grown vegetables will not occur.

***2) Allotments***

Provision of open space (about 250sq.m) commonly made available to tenants by the local authority to grow fruit and vegetable for their own consumption. Typically, there are a number of plots to a site which may have a total area of up to 1 hectare. The tenants are assumed to be adults and that young children make occasional accompanied visits.

Although some allotment holders may choose to keep animals including rabbits, hens, and ducks, potential exposure to contaminated meat and eggs is not considered.

- Critical receptor is a young female child (zero to six years old)
- Exposure duration is six years.
- Exposure pathways include direct soil ingestion, consumption of homegrown produce and any adhering soil, skin contact with soils and inhalation of outdoor dust and vapours.
- There is no building.

***3) Commercial/Industrial***

The generic scenario assumes a typical commercial or light industrial property comprising a three-storey building at which employees spend most time indoors and are involved in office-based or relatively light physical work.

- Critical receptor is a working female adult (aged 16 to 65 years old).
- Exposure duration is a working lifetime of 49 years.
- Exposure pathways include direct soil and indoor dust ingestion, skin contact with soils and dusts and inhalation of dust and vapours.
- Building type is a three-storey office (pre 1970).

## C1.3 Soil Guideline Values

The EA are publishing a series of SGV reports for a selection of common contaminants relevant to the assessment of land contamination.

SGV's are generic assessment criteria based on CLEA standard land-uses and can be used to simplify the assessment of human health risks from long-term exposure to chemical contamination in soil. They do not cover short-term exposure (i.e. construction and maintenance workers), acute exposure or other risks such as fire, suffocation or explosion, as might arise from an accumulation of gases such as methane and carbon dioxide, or either odour or aesthetic issues.

SGV's represent 'trigger values', indicators that soil concentrations above the SGV level may pose a possibility of *significant harm* to human health. The converse, where soil concentrations are less that the SGV, is that the long-term human health risks are considered to be tolerable or minimal.

### C1.4 Generic Assessment Criteria

If an SGV is not available for a substance identified in the soil then the range of Generic Assessment Criteria published from a collaborative research by Land Quality Management Limited (LQM) and the Chartered Institute of Environmental Health will be used. For derivation of these Generic Assessment Criteria reference must be made to:
Nathanial, P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A., Ogden, R., Scott, D. *The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment (2nd edition)*. **Land Quality Press**. 2009.

In the case of Lead, the AtRisk Soil SSV have been used.

### C1.5 Detailed Quantitative Risk Assessments (DQRA)

Where the adoption of an SGV/GAC is not appropriate, for instance when the intended land-use is at variance the CLEA standard land-uses, then a DQRA may be undertaking to develop site specific values for relevant soil contaminants.

⇒ Establishing the plausibility that generic exposure pathways exist in practice by measurement and observation.
⇒ Developing more accurate parameters using site data.

### C1.6 Ongoing development of CLEA based guidance

The EA is involved in a programme of publishing SGV's and related toxicity data (the TOX reports). As at July 2009 ten SGV's and matching TOX reports had been published.

Soil Assessment Criteria (SAC's) may be derived using toxicity data from the updated TOX reports, where these are published, or from the original TOX reports. SGV reports also take account of recent updates for plant uptake and other factors.

⇒ GAC's developed by CLEA guidance and given in this report will need to be assessed against updated TOX reports and SGV's when these are published.
⇒ SGV reports may give values that differ from the GAC's used in this report.
⇒ These variations may materially alter the remediation requirement for the site, requiring either an increase or decrease in the extent, type and cost of remediation.

### C1.7 Phytotoxicity

CLEA guidance only addresses human health toxicity; assessment of plant toxicity (phytotoxicity) is based on threshold trigger values obtained from the following source:

• ICRCL 70/90: *Notes on the restoration and aftercare of metalliferous mining sites for pasture and grazing*.

## C1.8 Statistical Tests

DEFRA R&D Publication CLR 7 (DOE 1994) addressed the statistical treatment of test results and their comparison to Soil Guideline Values.

Consideration must be given to the appropriate area of land to be considered termed the critical averaging area.

For a communal open space or commercial land-use, the critical averaging area will depend on the proposed layout. For a residential use with private gardens the averaging area is the individual plot.

It may be appropriate to compare the upper 95$^{th}$ percentile concentration with the Soil Guideline Value, subject to applying a statistical test to establish that the range of concentrations are reasonably consistent and belonging to the same underlying distribution of data.

The DEFRA discussion paper Assessing risks from land contamination – a proportionate approach ('the way forward') (CLAN06/2006) aimed to increase understanding of the role that statistics can play in quantifying the uncertainty attached to the estimates of the mean concentration of contaminants in soil. In direct response CLAIRE/CIEH published a joint report, *Guidance in comparing soil contamination data with a critical concentration* (CLAIRE/CIEH 2008). A software implementation of the statistical techniques given in the report was published by ESI International (2008).

**Treatment of Hot-Spots**

⇒ A statistical test is applied to establish whether the data is a part of a single set, or whether data outliers are present.

⇒ Provided that the data is based on random sampling and no distinct contamination source was present at the sampling location, the hot-spot(s) may be excluded and the mean of the remaining data assessed.

## C2 Soil Guideline Values and General Acceptance Criteria

Soil Guideline Values and General Acceptance Criteria used in the preparation of this report is tabulated in the following pages:

### DEFRA CLEA 1.04 Soil Guideline Values (as at July 2012)

**(Sandy Loam, pH 7, SOM 6%)**

| Contaminant | Residential (mg/kg DW) | Allotments (mg/kg DW) | Commercial (mg/kg DW) |
|---|---|---|---|
| **Inorganic** | | | |
| **Arsenic** | 32 | 43 | 640 |
| **Cadmium** | 10 | 1.8 | 230 |
| **Mercury** | | | |
| *- Elemental* | 1.0 | 26 | 26 |
| *- Inorganic* | 170 | 80 | 3600 |
| *- Methyl* | 11 | 8 | 410 |
| **Nickel** | 130 | 230 | 1800 |
| **Selenium** | 350 | 120 | 13000 |
| **Organic** May not be protective if SOM <6% | | | |
| **Phenol** | 420 | 280 | 3200 (38,000*) |
| **Benzene** | 0.33 | 0.07 | 95 |
| **Toluene** | 610 | 120 | 4400 |
| **Ethylbenzene** | 350 | 90 | 2800 |
| **Xylenes** | | | |
| *- o-xylene* | 250 | 160 | 2600 |
| *-m-xylene* | 240 | 180 | 3500 |
| *-p-xylene* | 230 | 160 | 3200 |
| **Dioxins** | | | |
| **Sum of PCDDs, PCDFs and dioxin-like PCB's.** | 8 | 8 | 240 |

* Based on a threshold protective of direct skin contact with phenol (guideline in brackets based on health affects following long term exposure provided for illustration only)

### Atkins AtRisk SSV Guideline Values For Lead (mg/kg)

| Contaminant | Residential With Plant Uptake | Residential Without Plant Uptake | Commercial & Industrial | Open spaces |
|---|---|---|---|---|
| **Lead 1% SOM sand soil** | 276 | 383 | 6490 | 1590 |
| **Lead 6% SOM sandy loam soil** | 342 | 383 | 6490 | 1590 |

### LQM CIEH General Assessment Criteria (2nd edition) (mg/kg)

| Contaminant | Residential | Allotment | Commercial |
|---|---|---|---|
| ***Metals*** | | | |
| **Beryllium** | 51 | 55 | 420 |
| **Boron** | 291 | 45 | 192000 |
| **Chromium (III)** | 3000 | 34600 | 30400 |
| **Chromium (VI)** | 4.3 | 2.1 | 35 |
| **Copper** | 2330 | 524 | 71700 |
| **Vanadium** | 140 | 150 | 4250 |
| **Zinc** | 3750 | 618 | 665000 |



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# LQM CIEH General Assessment Criteria

## General Assessment Criteria For Polycyclic Aromatic Hydrocarbons (PAH's) (mg/kg)

| Determinants | | Residential | Allotments | Commercial |
|---|---|---|---|---|
| **Acenapthene** | 1.0% SOM | 210 | 34 | 85,000 (57) [sol] |
| | 2.5% SOM | 480 | 85 | 98,000 (141) [sol] |
| | 6.0% SOM | 100 | 200 | 100,000 |
| **Acenapthylene** | 1.0% SOM | 170 | 28 | 84,000 (86) [sol] |
| | 2.5% SOM | 400 | 69 | 97,000 (212) [sol] |
| | 6.0% SOM | 850 | 160 | 100,000 |
| **Anthracene** | 1.0% SOM | 2,300 | 380 | 530,000 |
| | 2.5% SOM | 4,900 | 950 | 540,000 |
| | 6.0% SOM | 9,200 | 2200 | 540,000 |
| **Benzo(a)anthracene** | 1.0% SOM | 3.1 | 2.5 | 90 |
| | 2.5% SOM | 4.7 | 5.5 | 95 |
| | 6.0% SOM | 5.9 | 10 | 97 |
| **Benzo(a)pyrene** | 1.0% SOM | 0.83 | 0.6 | 14 |
| | 2.5% SOM | 0.94 | 1.2 | 14 |
| | 6.0% SOM | 1.0 | 2.1 | 14 |
| **Benzo(b)flouranthene** | 1.0% SOM | 5.6 | 3.5 | 100 |
| | 2.5% SOM | 6.5 | 7.4 | 100 |
| | 6.0% SOM | 7.0 | 13 | 100 |
| **Benzo(ghi)perylene** | 1.0% SOM | 44 | 70 | 650 |
| | 2.5% SOM | 46 | 120 | 660 |
| | 6.0% SOM | 47 | 160 | 660 |
| **Benzo(k)flouranthene** | 1.0% SOM | 8.5 | 6.8 | 140 |
| | 2.5% SOM | 9.6 | 14 | 140 |
| | 6.0% SOM | 10 | 23 | 140 |
| **Chrysene** | 1.0% SOM | 6.0 | 2.6 | 140 |
| | 2.5% SOM | 8.0 | 5.8 | 140 |
| | 6.0% SOM | 9.3 | 12 | 140 |
| **Dibenzo(ah)anthracene** | 1.0% SOM | 0.76 | 0.76 | 13 |
| | 2.5% SOM | 0.86 | 1.5 | 13 |
| | 6.0% SOM | 0.90 | 2.3 | 13 |
| **Flouranthene** | 1.0% SOM | 260 | 52 | 23,000 |
| | 2.5% SOM | 460 | 130 | 23,000 |
| | 6.0% SOM | 670 | 290 | 23,000 |
| **Flourene** | 1.0% SOM | 160 | 27 | 64,000 (31) [sol] |
| | 2.5% SOM | 380 | 67 | 69,000 |
| | 6.0% SOM | 780 | 160 | 71,000 |
| **Indeno(123-cd)pyrene** | 1.0% SOM | 3.2 | 1.8 | 60 |
| | 2.5% SOM | 3.9 | 3.8 | 61 |
| | 6.0% SOM | 4.2 | 7.1 | 62 |
| **Napthalene** | 1.0% SOM | 1.5 | 4.1 | 200 (76) [sol] |
| | 2.5% SOM | 3.7 | 9.9 | 480 (183) [sol] |
| | 6.0% SOM | 8.7 | 23 | 1100 (432) [sol] |
| **Phenanthrene** | 1.0% SOM | 92 | 16 | 22,000 |
| | 2.5% SOM | 200 | 38 | 22,000 |
| | 6.0% SOM | 380 | 90 | 23,000 |
| **Pyrene** | 1.0% SOM | 560 | 110 | 54,000 |
| | 2.5% SOM | 1,000 | 270 | 54,000 |
| | 6.0% SOM | 1,600 | 620 | 54,000 |

[vap] – GAC presented exceeds the vapour saturation limit, which is presented in brackets.
[sol] – GAC presented exceeds the soil saturation limit, which is presented in brackets.



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## General Assessment Criteria For TPH (mg/kg)

| Determinants | | Residential | Allotments | Commercial |
|---|---|---|---|---|
| **Aliphatic** | | | | |
| **EC 5-6** | 1.0% SOM | 30 | 740 | 3,400 (304) [sol] |
| | 2.5% SOM | 55 | 1,700 | 6,200 (558) [sol] |
| | 6.0% SOM | 110 | 3,900 | 13,000 (1150) [sol] |
| **EC >6-8** | 1.0% SOM | 73 | 2,300 | 8,300 (144) [sol] |
| | 2.5% SOM | 160 | 5,600 | 18,000 (322) [sol] |
| | 6.0% SOM | 370 | 13,000 | 42,000 (736) [sol] |
| **EC >8-10** | 1.0% SOM | 19 | 320 | 2,100 (78) [sol] |
| | 2.5% SOM | 46 | 770 | 5,100 (118) [vap] |
| | 6.0% SOM | 110 | 1,700 | 12,000 (451) [vap] |
| **EC >10-12** | 1.0% SOM | 93 (48) [vap] | 2,200 | 10,000 (48) [sol] |
| | 2.5% SOM | 230 (118) [vap] | 4,400 | 24,000 (118) [vap] |
| | 6.0% SOM | 540 (283) [vap] | 7,300 | 49,000 (283) [vap] |
| **EC >12-16** | 1.0% SOM | 740 (24) [sol] | 11,000 | 61,000 (24) [sol] |
| | 2.5% SOM | 1,700 (59) [sol] | 13,000 | 83,000 (59) [sol] |
| | 6.0% SOM | 3,000 (142) [sol] | 13,000 | 91,000 (142) [sol] |
| **EC >16-35** | 1.0% SOM | 45,000 (8.48) [sol] | 260,000 | 1,600,000 |
| | 2.5% SOM | 64,000 (21) [sol] | 270,000 | 1,800,000 |
| | 6.0% SOM | 76,000 | 270,000 | 1,800,000 |
| **EC >35-44** | 1.0% SOM | 45,000 (8.48) [sol] | 260,000 | 1,600,000 |
| | 2.5% SOM | 64,000 (21) [sol] | 270,000 | 1,800,000 |
| | 6.0% SOM | 76,000 | 270,000 | 1,800,000 |
| **Aromatic** | | | | |
| **EC 5-7** | 1.0% SOM | 65 | 13 | 28,000 (1220) [sol] |
| | 2.5% SOM | 130 | 27 | 49,000 (2260) [sol] |
| | 6.0% SOM | 280 | 57 | 90,000 (4710) [sol] |
| **EC >7-8** | 1.0% SOM | 120 | 22 | 59,000 (869) [vap] |
| | 2.5% SOM | 270 | 51 | 110,000 (1920) [sol] |
| | 6.0% SOM | 611 | 120 | 190,000 (4360) [vap] |
| **EC >8-10** | 1.0% SOM | 27 | 8.6 | 3,700 (613) [vap] |
| | 2.5% SOM | 65 | 21 | 8,600 (1500) [vap] |
| | 6.0% SOM | 151 | 51 | 18,000 (3580) [vap] |
| **EC >10-12** | 1.0% SOM | 69 | 13 | 17,000 (364) [sol] |
| | 2.5% SOM | 160 | 31 | 29,000 (899) [sol] |
| | 6.0% SOM | 346 | 74 | 34,500 (2150) [sol] |
| **EC >12-16** | 1.0% SOM | 140 | 23 | 36,000 (169) [sol] |
| | 2.5% SOM | 480 | 57 | 37,000 |
| | 6.0% SOM | 770 | 130 | 37,800 |
| **EC >16-21** | 1.0% SOM | 250 | 46 | 28,000 |
| | 2.5% SOM | 480 | 110 | 28,000 |
| | 6.0% SOM | 770 | 260 | 28,000 |
| **EC >21-35** | 1.0% SOM | 890 | 370 | 28,000 |
| | 2.5% SOM | 1,100 | 820 | 28,000 |
| | 6.0% SOM | 1,230 | 1,600 | 28,000 |
| **EC >35-44** | 1.0% SOM | 890 | 370 | 28,000 |
| | 2.5% SOM | 1,100 | 820 | 28,000 |
| | 6.0% SOM | 1,230 | 1,600 | 28,000 |
| **Aromatic & Aliphatic** | | | | |
| **EC >44 - 70** | 1.0% SOM | 1200 | 1200 | 28,000 |
| | 2.5% SOM | 1300 | 2100 | 28,000 |
| | 5.0% SOM | 1300 | 3000 | 28,000 |

Note: a) *SOM = Soil Organic Matter Content (%)  b)LQM CIEH GAC not set for Allotment land-use*



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## ICRCL 70/90 *Restoration of metalliferous mining areas* (mg/kg)

| Phytotoxicity (Harmful to Plants) Threshold Trigger Values | |
|---|---|
| **Copper** | 250 |
| **Zinc** | 1000 |

Notes: Many cultivars and specifically grasses have a high tolerance and there will be no ill-effect at the threshold trigger values given for neutral or near neutral pH. Site observation of plant vitality may give additional guidance.

# LQM CIEH General Assessment Criteria

## Volatile and Semi-Volatile Organic Compounds (mg/kg)

| Contaminant | Residential | Allotment | Commercial |
|---|---|---|---|
| ***Chloroalkanes & alkenes*** | | | |
| **1,2 Dichloroethane** | | | |
| 1.0% SOM | 0.0054 | 0.0046 | 0.71 |
| 2.5% SOM | 0.0080 | 0.0083 | 1.00 |
| 6.0% SOM | 0.014 | 0.016 | 1.80 |
| | | | |
| **1,1,2,2 Tetrachloroethane** | | | |
| 1.0% SOM | 1.4 | 0.41 | 290 |
| 2.5% SOM | 2.9 | 0.89 | 580 |
| 6.0% SOM | 6.3 | 2.0 | 1200 |
| | | | |
| **1,1,1,2 Tetrachloroethane** | | | |
| 1.0% SOM | 0.90 | 0.79 | 120 |
| 2.5% SOM | 2.1 | 1.9 | 260 |
| 6.0% SOM | 4.8 | 4.4 | 590 |
| | | | |
| **Tetrachloroethene** | | | |
| 1.0% SOM | 0.94 | 1.6 | 130 |
| 2.5% SOM | 2.1 | 3.7 | 290 |
| 6.0% SOM | 4.8 | 8.7 | 660 |
| | | | |
| **1,1,1 Trichloroethane** | | | |
| 1.0% SOM | 6.2 | 48 | 700 |
| 2.5% SOM | 13 | 110 | 1400 |
| 6.0% SOM | 28 | 240 | 3100 |
| | | | |
| **Tetrachloromethene** | | | |
| 1.0% SOM | 0.018 | 0.16 | 3.0 |
| 2.5% SOM | 0.039 | 0.37 | 6.6 |
| 6.0% SOM | 0.089 | 0.85 | 15 |
| | | | |
| **Trichloroethene** | | | |
| 1.0% SOM | 0.11 | 0.43 | 12 |
| 2.5% SOM | 0.22 | 0.95 | 25 |
| 6.0% SOM | 0.49 | 2.2 | 55 |
| | | | |
| **Trichloromethane** | | | |
| 1.0% SOM | 0.75 | 0.36 | 110 |
| 2.5% SOM | 1.3 | 0.70 | 190 |
| 6.0% SOM | 2.7 | 1.5 | 370 |
| | | | |
| **Vinyl Chloride** | | | |
| 1.0% SOM | 0.00047 | 0.00055 | 0.063 |
| 2.5% SOM | 0.00064 | 0.0010 | 0.081 |
| 6.0% SOM | 0.00099 | 0.0018 | 0.12 |



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| Contaminant | Residential | Allotment | Commercial |
|---|---|---|---|
| ***Explosives*** | | | |
| **2,4,6 Trinitrotoluene** | | | |
| 1.0% SOM | 1.6 | 0.24 | 1000 |
| 2.5% SOM | 3.7 | 0.58 | 1000 |
| 6.0% SOM | 8.0 | 1.4 | 1100 |
| **RDX (Hexogen/Cyclonite/1,3,5-trinitro-1,3,5-triazacyclohexane)** | | | |
| 1.0% SOM | 3.5 | 0.52 | 6400 |
| 2.5% SOM | 7.4 | 1.1 | 6400 |
| 6.0% SOM | 16 | 2.5 | 6400 |
| **HMX (Octogen/1,3,5,7-tetrenitro-1,3,5,7-tetrazacyclo-octane)** | | | |
| 1.0% SOM | 5.7 | 0.86 | 110,000 |
| 2.5% SOM | 13 | 1.9 | 110,000 |
| 6.0% SOM | 26 | 3.9 | 110,000 |
| **Atrazine** | | | |
| 1.0% SOM | 0.24 | 0.037 | 870 |
| 2.5% SOM | 0.56 | 0.085 | 880 |
| 6.0% SOM | 1.3 | 0.20 | 880 |
| ***Pesticides*** | | | |
| **Aldrin** | | | |
| 1.0% SOM | 1.7 | 1.3 | 54 |
| 2.5% SOM | 2.0 | 2.6 | 54 |
| 6.0% SOM | 2.1 | 4.0 | 54 |
| **Dieldrin** | | | |
| 1.0% SOM | 0.69 | 0.13 | 90 |
| 2.5% SOM | 1.4 | 0.32 | 91 |
| 6.0% SOM | 2.2 | 0.73 | 92 |
| **Dichlorvos** | | | |
| 1.0% SOM | 0.29 | 0.044 | 942 |
| 2.5% SOM | 0.6 | 0.091 | 972 |
| 6.0% SOM | 1.3 | 0.2 | 983 |
| **Alpha - Endosulfan** | | | |
| 1.0% SOM | 2.9 | 0.47 | 2310 (0.003)$^{vap}$ |
| 2.5% SOM | 7.0 | 1.2 | 2990 (0.007) $^{vap}$ |
| 6.0% SOM | 16 | 2.7 | 3390 |
| **Beta - Endosulfan** | | | |
| 1.0% SOM | 2.8 | 0.44 | 2580 (0.00007)$^{vap}$ |
| 2.5% SOM | 6.6 | 1.1 | 3160 (0.0002) $^{vap}$ |
| 6.0% SOM | 15 | 2.6 | 3480 |
| **Alpha -Hexachlorocyclohexanes** | | | |
| 1.0% SOM | 19 | 3.0 | 14000 |
| 2.5% SOM | 46 | 7.4 | 14600 |
| 6.0% SOM | 100 | 18 | 14900 |
| **Beta -Hexachlorocyclohexanes** | | | |
| 1.0% SOM | 1.7 | 0.26 | 1120 |
| 2.5% SOM | 3.9 | 0.64 | 1130 |
| 6.0% SOM | 8.5 | 1.5 | 1130 |
| **Gamma -Hexachlorocyclohexanes** | | | |
| 1.0% SOM | 0.58 | 0.089 | 532 |
| 2.5% SOM | 1.4 | 0.22 | 546 |
| 6.0% SOM | 3.0 | 0.52 | 552 |



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| | | | |
|---|---|---|---|
| ***Chlorobenzenes*** | | | |
| **Chlorobenzene** | | | |
| 1.0% SOM | 0.33 | 5.9 | 59 |
| 2.5% SOM | 0.73 | 14 | 32 |
| 6.0% SOM | 59 | 130 | 310 |
| **1,2-Dichlorobenzene** | | | |
| 1.0% SOM | 16 | 94 | 2100 (571) [sol] |
| 2.5% SOM | 39 | 230 | 5100 (1370) [sol] |
| 6.0% SOM | 91 | 540 | 12000 (3240) [sol] |
| **1,3-Dichlorobenzene** | | | |
| 1.0% SOM | 0.29 | 0.25 | 32 |
| 2.5% SOM | 0.70 | 0.61 | 77 |
| 6.0% SOM | 1.7 | 1.5 | 180 |
| **1,4-Dichlorobenzene** | | | |
| 1.0% SOM | 30 | 15 | 4500 (224)[vap] |
| 2.5% SOM | 72 | 37 | 10000 (540)[vap] |
| 6.0% SOM | 167 | 88 | 22000 (1280)[vap] |
| **1,2,3,-Trichlorobenzene** | | | |
| 1.0% SOM | 1.0 | 4.7 | 110 |
| 2.5% SOM | 2.6 | 12 | 270 |
| 6.0% SOM | 6.1 | 28 | 620 |
| **1,2,4,-Trichlorobenzene** | | | |
| 1.0% SOM | 1.8 | 31 | 230 |
| 2.5% SOM | 4.5 | 75 | 560 |
| 6.0% SOM | 11 | 180 | 1300 |
| **1,3,5,-Trichlorobenzene** | | | |
| 1.0% SOM | 0.23 | 4.7 | 24 |
| 2.5% SOM | 0.57 | 12 | 57.8 |
| 6.0% SOM | 1.3 | 28 | 140 |
| **1,2,3,4,-Tetrachlorobenzene** | | | |
| 1.0% SOM | 12 | 4.4 | 1800 (122)[vap] |
| 2.5% SOM | 4.5 | 75 | 3200 (304)[vap] |
| 6.0% SOM | 11 | 180 | 4500 (728)[vap] |
| **1,2,3,5,- Tetrachlobenzene** | | | |
| 1.0% SOM | 0.49 | 0.38 | 52 (39.4)[vap] |
| 2.5% SOM | 1.2 | 0.94 | 120 (98.1)[vap] |
| 6.0% SOM | 2.8 | 2.2 | 250 (235)[vap] |
| **1,2,4, 5,- Tetrachlobenzene** | | | |
| 1.0% SOM | 0.30 | 0.064 | 44 (19.7)[sol] |
| 2.5% SOM | 0.68 | 0.16 | 73 (49.1)[sol] |
| 6.0% SOM | 1.4 | 0.37 | 97 |
| **Pentachlrobenzene** | | | |
| 1.0% SOM | 5.2 | 1.2 | 650 (43.0)[sol] |
| 2.5% SOM | 10 | 3.1 | 770 (107)[sol] |
| 6.0% SOM | 17 | 7.1 | 830 |
| **Hexachlorobenzene** | | | |
| 1.0% SOM | 0.59 (0.20)[vap] | 0.18 | 48 (0.20)[vap] |
| 2.5% SOM | 1.0 (0.50)[vap] | 0.42 | 53 |
| 6.0% SOM | 1.4 | 0.92 | 55 |
| ***Phenols & Chlorophenols*** | | | |
| **Chlorophenols (4 Congeners)** | | | |
| 1.0% SOM | 0.87 | 0.13 | 3500 |
| 2.5% SOM | 2.0 | 0.30 | 4000 |
| 6.0% SOM | 4.4 | 0.70 | 4200 |
| **Pentachlorophenols** | | | |
| 1.0% SOM | 0.55 | 0.084 | 1200 |
| 2.5% SOM | 1.3 | 0.21 | 0.49 |
| 6.0% SOM | 1200 | 1300 | 1400 |

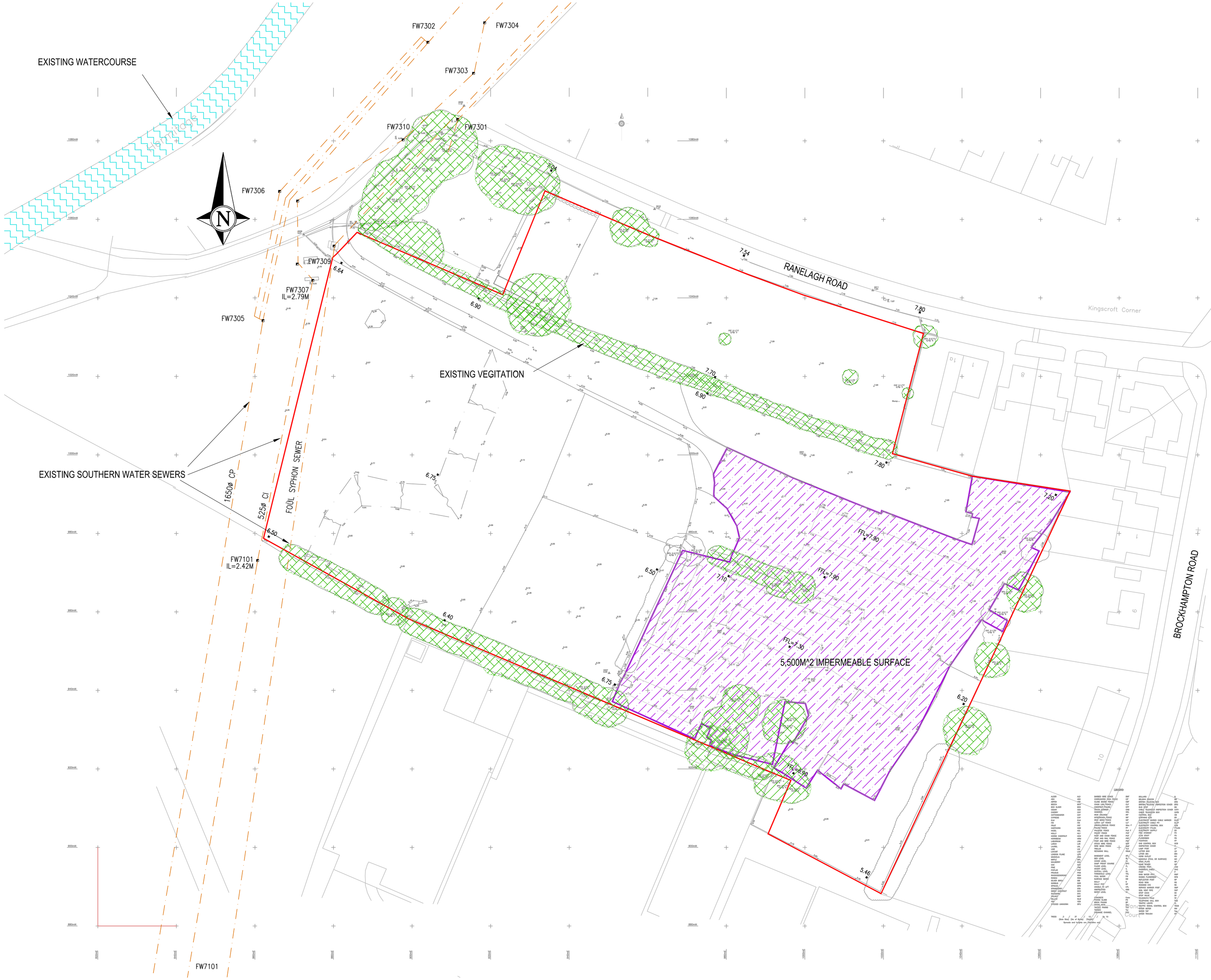


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| Others | | | |
|---|---|---|---|
| **Carbon Disulphide** | | | |
| 1.0% SOM | 0.10 | 4.8 | 12 |
| 2.5% SOM | 0.20 | 10 | 23 |
| 6.0% SOM | 0.44 | 23 | 50 |
| **Hexachloro-1,3-Butadiene** | | | |
| 1.0% SOM | 0.21 | 0.25 | 32 |
| 2.5% SOM | 0.51 | 0.61 | 69 |
| 6.0% SOM | 1.2 | 1.4 | 120 |

$^{vap}$ – GAC presented exceeds the vapour saturation limit, which is presented in brackets.
$^{sol}$ – GAC presented exceeds the soil saturation limit, which is presented in brackets.

## Appendix D
## Information Provided by the Client




## NOTES

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ALL CO-ORDINATES ARE RELATIVE TO TOPOGRAPHICAL SURVEY CARRIED OUT BY:

Digital Terrain Surveys LLP, Tanners Court,
Tanners Lane, East Wellow, Romesey,
Tel 01794 514978

FOR STATION CO-ORDINATES AND LOCATIONS
REFER TO CONTRACT DRAWING Kingscroft Farm,
Ranelagh Road, Bedhampton
TITLE SITE SURVEY
DATE september 2010

CONTRACTOR TO CHECK AND IDENTIFY ANY DISCREPANCIES TO ENGINEER.

| rev | date | description | initials |
|---|---|---|---|
| P1 | 27/06/12 | INITIAL ISSUE | RHB |

Project
**PROPOSED DEVELOPMENT, RANELAGH ROAD, HAVANT**

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Title
**TOPOGRAPHICAL SURVEY**


REUBY & STAGG LTD.
CONSULTING CIVIL & STRUCTURAL ENGINEERS

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| date | scale | size | project no. | drawing no. | revision |
|---|---|---|---|---|---|
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DENOTES POROUS PAVING PRIVATE DRIVEWAY

DENOTES HOUSE SOAKAWAY

DISTRIBUTOR DRAIN

SUB-BASE FORMATION DRAIN

FOUL WATER SEWER

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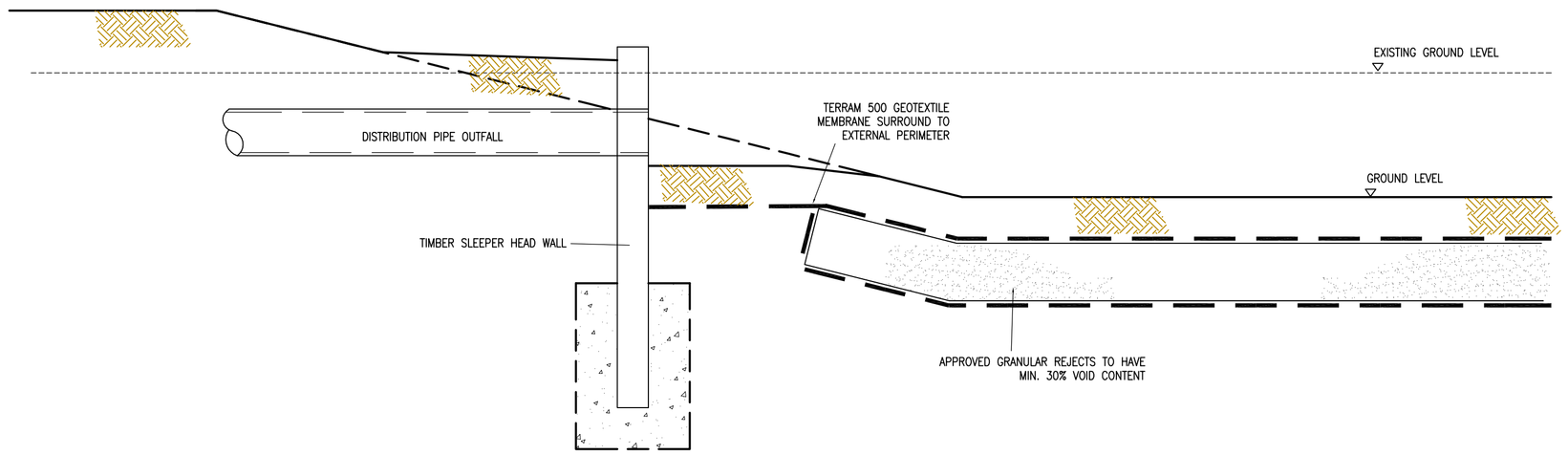
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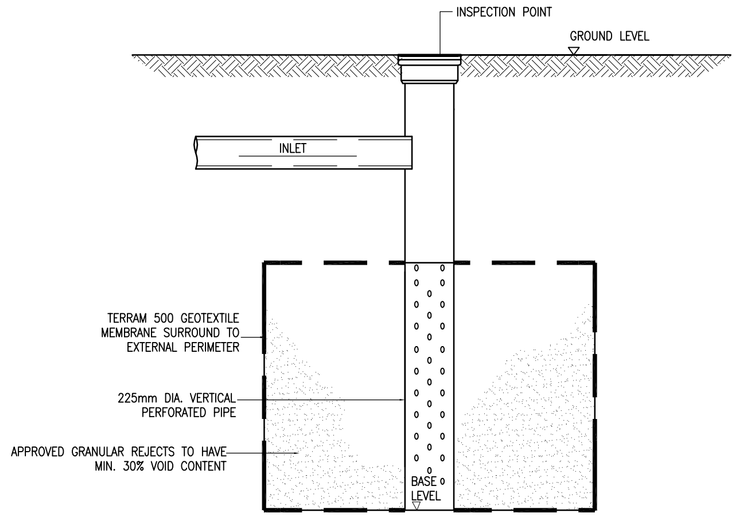
Title
PROPOSED DRAINAGE PLAN

REUBY & STAGG LTD.
CONSULTING CIVIL & STRUCTURAL ENGINEERS
Hampshire Office:
Dewey House, 55 High Street,
Ringwood, Hampshire BH24 1AE
Telephone: 01425 484400
Facsimile: 01425 484409
Email: admin@reuby-stagg.co.uk

| date | JUN 2012 | scale | size | project no. | drawing no. | revision |
|---|---|---|---|---|---|---|
| drawn | RHB | 1:500 | A1 | 9964 | 500 | P1 |
| checked | RHB | | | | | |



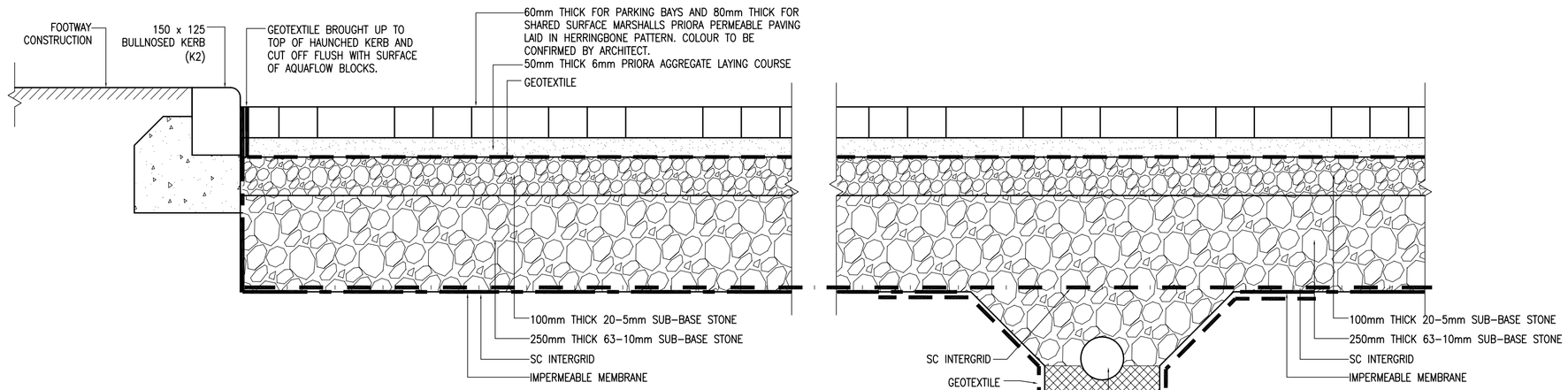

## DETENTION/INFILTRATION BASIN




NOTES

1. ALL SOAKAWAYS TO BE SITUATED 5.0M MIN. FROM ANY STRUCTURE (MEASURED FROM EXTENT OF GRANULAR SURROUND).
2. PIT SIZE REQUIRED FOR GRANULAR SURROUND ON THE ABOVE DETAIL IS INDICATIVE ONLY.
3. SAMPLE TEST RESULTS ARE REQUIRED TO CONFIRM COMPLIANCE WITH THE MINIMUM VOID CONTENT SPECIFIED FOR THE GRANULAR REJECTS PRIOR TO USE ON SITE.
4. GEOTEXTILE MEMBRANE TO BE PROVIDED AGAINST ALL FACES OF SOAKAWAY PIT. THE MEMBRANE IS NOT TO BE PROVIDED TO THE FLOOR AREA WITHIN THE PCC RING PERIMETER.

## HOUSE SOAKAWAY DETAIL




## TYPICAL POROUS ROAD CONSTRUCTION




## TYPICAL DISTRIBUTION PIPE

## NOTES

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Project
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|---|---|---|---|---|---|
| JUN 2012 | 1:500 | A1 | 9964 | 501 | P1 |

drawn RHB
checked RHB

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**QTS Environmental Ltd**
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Lenham Heath
Kent
ME17 2JN
**t:** 01622 851105
russell.jarvis@qtsenvironmental.com

# QTS Environmental Report No: 12-11610

| | |
|---|---|
| **Site Reference:** | Ranelagh Road, Havant |
| **Project / Job Ref:** | 13284 |
| **Order No:** | None Supplied |
| **Sample Receipt Date:** | 01/11/2012 |
| **Sample Scheduled Date:** | 01/11/2012 |
| **Report Issue Number:** | 1 |
| **Reporting Date:** | 08/11/2012 |

**Authorised by:**

Russell Jarvis
Director
**On behalf of QTS Environmental Ltd**

**Authorised by:**

Kevin Old
Director
**On behalf of QTS Environmental Ltd**

**QTS Environmental Ltd**
**Unit 1, Rose Lane Industrial Estate**
**Rose Lane**
**Lenham Heath**
**Maidstone**
**Kent ME17 2JN**
**Tel : 01622 851105**

4480

| Soil Analysis Certificate | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 30/10/12 | 30/10/12 | 30/10/12 | 30/10/12 | 30/10/12 |
| **Soils Ltd** | **Time Sampled** | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | WS1 | WS2 | WS3 | WS4 | WS4 |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Order No: None Supplied** | **Depth (m)** | 0.10 | 0.30 | 0.10 | 0.10 | 0.40 |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54862 | 54863 | 54864 | 54865 | 54866 |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fibrous Material Screen | P/A | N / a | NONE | Negative | Negative | Negative | Negative | Negative |
| pH | pH Units | N / a | MCERTS | 7.8 | 7.3 | 6.0 | 7.0 | 7.1 |
| Total Cyanide | mg/kg | < 2 | NONE | < 2 | < 2 | < 2 | < 2 | < 2 |
| W/S Sulphate as $SO_4$ (2:1) | g/l | < 0.01 | NONE | 0.10 | 0.03 | 0.03 | 0.01 | < 0.01 |
| Sulphide | mg/kg | < 5 | NONE | 12 | < 5 | < 5 | < 5 | < 5 |
| Organic Matter | % | < 0.1 | NONE | 4.5 | 4.7 | 6.7 | 1.2 | 11.5 |
| Total Organic Carbon (TOC) | % | < 0.1 | NONE | 2.6 | 2.7 | 3.9 | 0.7 | 6.7 |
| Arsenic (As) | mg/kg | < 2 | MCERTS | 10 | 14 | 7 | 10 | 7 |
| Beryllium (Be) | mg/kg | < 0.5 | NONE | < 0.5 | < 0.5 | < 0.5 | 0.6 | < 0.5 |
| W/S Boron | mg/kg | < 1 | NONE | < 1 | 1.8 | 1.1 | 1.3 | 1.8 |
| Cadmium (Cd) | mg/kg | < 0.5 | MCERTS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chromium (Cr) | mg/kg | < 2 | MCERTS | 16 | 21 | 27 | 28 | 32 |
| Chromium (hexavalent) | mg/kg | < 2 | NONE | < 2 | < 2 | < 2 | < 2 | < 2 |
| Copper (Cu) | mg/kg | < 4 | MCERTS | 43 | 36 | 37 | 47 | 15 |
| Lead (Pb) | mg/kg | < 3 | MCERTS | 84 | 290 | 96 | 195 | 18 |
| Mercury (Hg) | mg/kg | < 1 | NONE | < 1 | < 1 | < 1 | < 1 | < 1 |
| Nickel (Ni) | mg/kg | < 3 | MCERTS | 13 | 18 | 20 | 21 | 21 |
| Selenium (Se) | mg/kg | < 3 | NONE | < 3 | < 3 | < 3 | < 3 | < 3 |
| Vanadium (V) | mg/kg | < 2 | NONE | 31 | 36 | 51 | 48 | 47 |
| Zinc (Zn) | mg/kg | < 3 | MCERTS | 83 | 194 | 139 | 274 | 56 |
| Total Phenols (monohydric) | mg/kg | < 2 | NONE | < 2 | < 2 | < 2 | < 2 | < 2 |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Subcontracted analysis (S)

**QTS Environmental Ltd**
**Unit 1, Rose Lane Industrial Estate**
**Rose Lane**
**Lenham Heath**
**Maidstone**
**Kent ME17 2JN**
**Tel : 01622 851105**

4480

| Soil Analysis Certificate | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 26/10/12 | 26/10/12 | 26/10/12 | | |
| **Soils Ltd** | **Time Sampled** | None Supplied | None Supplied | None Supplied | | |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | S1 | TP2 | TP3 | | |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | None Supplied | None Supplied | | |
| **Order No: None Supplied** | **Depth (m)** | 0.40 | 0.50 | 0.40 | | |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54867 | 54869 | 54870 | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fibrous Material Screen | P/A | N / a | NONE | Negative | Negative | Negative | | |
| pH | pH Units | N / a | MCERTS | 7.2 | 7.8 | 7.1 | | |
| Total Cyanide | mg/kg | < 2 | NONE | < 2 | < 2 | < 2 | | |
| W/S Sulphate as $SO_4$ (2:1) | g/l | < 0.01 | NONE | 0.02 | 0.02 | 0.02 | | |
| Sulphide | mg/kg | < 5 | NONE | < 5 | < 5 | < 5 | | |
| Organic Matter | % | < 0.1 | NONE | 8.9 | 5.7 | 5.9 | | |
| Total Organic Carbon (TOC) | % | < 0.1 | NONE | 5.2 | 3.3 | 3.4 | | |
| Arsenic (As) | mg/kg | < 2 | MCERTS | 10 | 11 | 8 | | |
| Beryllium (Be) | mg/kg | < 0.5 | NONE | < 0.5 | 0.6 | < 0.5 | | |
| W/S Boron | mg/kg | < 1 | NONE | 2.1 | 2 | 1.4 | | |
| Cadmium (Cd) | mg/kg | < 0.5 | MCERTS | < 0.5 | < 0.5 | < 0.5 | | |
| Chromium (Cr) | mg/kg | < 2 | MCERTS | 24 | 23 | 24 | | |
| Chromium (hexavalent) | mg/kg | < 2 | NONE | < 2 | < 2 | < 2 | | |
| Copper (Cu) | mg/kg | < 4 | MCERTS | 44 | 57 | 35 | | |
| Lead (Pb) | mg/kg | < 3 | MCERTS | 198 | 223 | 129 | | |
| Mercury (Hg) | mg/kg | < 1 | NONE | 1.1 | < 1 | < 1 | | |
| Nickel (Ni) | mg/kg | < 3 | MCERTS | 19 | 22 | 18 | | |
| Selenium (Se) | mg/kg | < 3 | NONE | < 3 | < 3 | < 3 | | |
| Vanadium (V) | mg/kg | < 2 | NONE | 35 | 45 | 47 | | |
| Zinc (Zn) | mg/kg | < 3 | MCERTS | 226 | 166 | 104 | | |
| Total Phenols (monohydric) | mg/kg | < 2 | NONE | < 2 | < 2 | < 2 | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Subcontracted analysis (S)

**QTS Environmental Ltd**
**Unit 1, Rose Lane Industrial Estate**
**Rose Lane**
**Lenham Heath**
**Maidstone**
**Kent ME17 2JN**
**Tel : 01622 851105**

4480

| Soil Analysis Certificate - Speciated PAHs | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 30/10/12 | 30/10/12 | 30/10/12 | 30/10/12 | 30/10/12 |
| **Soils Ltd** | **Time Sampled** | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | WS1 | WS2 | WS3 | WS4 | WS4 |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| **Order No: None Supplied** | **Depth (m)** | 0.10 | 0.30 | 0.10 | 0.10 | 0.40 |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54862 | 54863 | 54864 | 54865 | 54866 |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene | mg/kg | < 0.1 | MCERTS | 0.16 | 0.21 | < 0.1 | < 0.1 | < 0.1 |
| Anthracene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene | mg/kg | < 0.1 | MCERTS | 0.20 | 1.04 | 0.17 | < 0.1 | < 0.1 |
| Pyrene | mg/kg | < 0.1 | MCERTS | 0.15 | 0.95 | 0.15 | < 0.1 | < 0.1 |
| Benzo(a)anthracene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.40 | < 0.1 | < 0.1 | < 0.1 |
| Chrysene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.64 | 0.12 | < 0.1 | < 0.1 |
| Benzo(b)fluoranthene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.67 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(k)fluoranthene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.32 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(a)pyrene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.44 | < 0.1 | < 0.1 | < 0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.30 | < 0.1 | < 0.1 | < 0.1 |
| Dibenz(a,h)anthracene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(ghi)perylene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.24 | < 0.1 | < 0.1 | < 0.1 |
| Total EPA-16 PAHs | mg/kg | < 1.6 | MCERTS | < 1.6 | 5.2 | < 1.6 | < 1.6 | < 1.6 |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

**QTS Environmental Ltd**
**Unit 1, Rose Lane Industrial Estate**
**Rose Lane**
**Lenham Heath**
**Maidstone**
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**Tel : 01622 851105**

4480

| Soil Analysis Certificate - Speciated PAHs | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 26/10/12 | 26/10/12 | 26/10/12 | | |
| **Soils Ltd** | **Time Sampled** | None Supplied | None Supplied | None Supplied | | |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | S1 | TP2 | TP3 | | |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | None Supplied | None Supplied | | |
| **Order No: None Supplied** | **Depth (m)** | 0.40 | 0.50 | 0.40 | | |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54867 | 54869 | 54870 | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Acenaphthylene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Acenaphthene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Fluorene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Phenanthrene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | 0.12 | | |
| Anthracene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Fluoranthene | mg/kg | < 0.1 | MCERTS | 0.31 | 0.30 | 0.38 | | |
| Pyrene | mg/kg | < 0.1 | MCERTS | 0.27 | 0.27 | 0.35 | | |
| Benzo(a)anthracene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.14 | 0.16 | | |
| Chrysene | mg/kg | < 0.1 | MCERTS | 0.19 | 0.22 | 0.28 | | |
| Benzo(b)fluoranthene | mg/kg | < 0.1 | MCERTS | 0.22 | 0.21 | 0.28 | | |
| Benzo(k)fluoranthene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | 0.12 | | |
| Benzo(a)pyrene | mg/kg | < 0.1 | MCERTS | < 0.1 | 0.15 | 0.17 | | |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Dibenz(a,h)anthracene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Benzo(ghi)perylene | mg/kg | < 0.1 | MCERTS | < 0.1 | < 0.1 | < 0.1 | | |
| Total EPA-16 PAHs | mg/kg | < 1.6 | MCERTS | < 1.6 | < 1.6 | 1.9 | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

**QTS Environmental Ltd**
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**Lenham Heath**
**Maidstone**
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**Tel : 01622 851105**

| Soil Analysis Certificate - TPH CWG Banded | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 30/10/12 | 30/10/12 | | | |
| **Soils Ltd** | **Time Sampled** | None Supplied | None Supplied | | | |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | WS3 | WS4 | | | |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | None Supplied | | | |
| **Order No: None Supplied** | **Depth (m)** | 0.10 | 0.10 | | | |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54864 | 54865 | | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aliphatic >C5 - C6 | mg/kg | < 0.01 | NONE | < 0.01 | < 0.01 | | | |
| Aliphatic >C6 - C8 | mg/kg | < 0.05 | NONE | < 0.05 | < 0.05 | | | |
| Aliphatic >C8 - C10 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aliphatic >C10 - C12 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aliphatic >C12 - C16 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aliphatic >C16 - C21 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aliphatic >C21 - C34 | mg/kg | < 6 | NONE | < 6 | < 6 | | | |
| Aliphatic (C5 - C34) | mg/kg | < 12 | NONE | < 12 | < 12 | | | |
| Aromatic >C5 - C7 | mg/kg | < 0.01 | NONE | < 0.01 | < 0.01 | | | |
| Aromatic >C7 - C8 | mg/kg | < 0.05 | NONE | < 0.05 | < 0.05 | | | |
| Aromatic >C8 - C10 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aromatic >C10 - C12 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aromatic >C12 - C16 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aromatic >C16 - C21 | mg/kg | < 1 | NONE | < 1 | < 1 | | | |
| Aromatic >C21 - C35 | mg/kg | < 6 | NONE | < 6 | < 6 | | | |
| Aromatic (C5 - C35) | mg/kg | < 12 | NONE | < 12 | < 12 | | | |
| Total >C5 - C35 | mg/kg | < 24 | NONE | < 24 | < 24 | | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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4480

| Soil Analysis Certificate - BTEX / MTBE | | | | | | |
|---|---|---|---|---|---|---|
| QTS Environmental Report No: 12-11610 | Date Sampled | 30/10/12 | 30/10/12 | | | |
| Soils Ltd | Time Sampled | None Supplied | None Supplied | | | |
| Site Reference: Ranelagh Road, Havant | TP / BH No | WS3 | WS4 | | | |
| Project / Job Ref: 13284 | Additional Refs | None Supplied | None Supplied | | | |
| Order No: None Supplied | Depth (m) | 0.10 | 0.10 | | | |
| Reporting Date: 08/11/2012 | QTSE Sample No | 54864 | 54865 | | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Benzene | ug/kg | < 2 | MCERTS | < 2 | < 2 | | | |
| Toluene | ug/kg | < 5 | MCERTS | < 5 | < 5 | | | |
| Ethylbenzene | ug/kg | < 10 | MCERTS | < 10 | < 10 | | | |
| p & m-xylene | ug/kg | < 10 | MCERTS | < 10 | < 10 | | | |
| o-xylene | ug/kg | < 10 | MCERTS | < 10 | < 10 | | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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UKAS TESTING
4480

| Soil Analysis Certificate - Organochlorine Pesticides | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 26/10/12 | | | | |
| **Soils Ltd** | **Time Sampled** | None Supplied | | | | |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | TP1 | | | | |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | | | | |
| **Order No: None Supplied** | **Depth (m)** | 0.20 | | | | |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54868 | | | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aldrin (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| alpha-HCH (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| beta-HCH (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| cis-chlordane (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| delta-HCH (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |
| Dieldrin (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Endosulfan A (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Endosulfan B (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Endrin (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| gamma-HCH (Lindane) (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Heptachlor (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Heptachlor epoxide (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Hexachlorobenzene (HCB) (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Isodrin (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| Methoxychlor (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |
| o,p' - DDD (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |
| o,p' - DDE (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |
| o,p' - DDT (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |
| p,p' - DDD (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| p,p' - DDE (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| p,p' - DDT (S) | mg/kg | < 0.02 | ISO17025 | < 0.02 | | | | |
| trans-chlordane (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |
| Trifluralin (S) | mg/kg | < 0.02 | NONE | < 0.02 | | | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 °C
Subcontracted analysis (S)

**QTS Environmental Ltd**
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**Rose Lane**
**Lenham Heath**
**Maidstone**
**Kent ME17 2JN**
**Tel : 01622 851105**

| Soil Analysis Certificate - Phenyl Urea Herbicides | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11610** | **Date Sampled** | 26/10/12 | | | | |
| **Soils Ltd** | **Time Sampled** | None Supplied | | | | |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | TP1 | | | | |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | | | | |
| **Order No: None Supplied** | **Depth (m)** | 0.20 | | | | |
| **Reporting Date: 08/11/2012** | **QTSE Sample No** | 54868 | | | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chloroxuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Chlortoluron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Diflubenzuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Dimefuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Diuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Isoproturon (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Linuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Methabenzthiazuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Metoxuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Monolinuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Monuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |
| Pencycuron (S) | mg/kg | < 0.1 | NONE | < 0.1 | | | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 °C
Subcontracted analysis (S)

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

4480

| Soil Analysis Certificate - Sample Descriptions | |
|---|---|
| QTS Environmental Report No: 12-11610 | |
| Soils Ltd | |
| Site Reference: Ranelagh Road, Havant | |
| Project / Job Ref: 13284 | |
| Order No: None Supplied | |
| Reporting Date: 08/11/2012 | |

| QTSE Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description |
|---|---|---|---|---|---|
| 54862 | WS1 | None Supplied | 0.10 | 17.1 | Brown clayey loam with stones and chalk |
| 54863 | WS2 | None Supplied | 0.30 | 26.4 | Brown loamy clay with vegetation and stones |
| 54864 | WS3 | None Supplied | 0.10 | 21.7 | Light brown clayey sand with chalk |
| 54865 | WS4 | None Supplied | 0.10 | 23.4 | Brown clayey loam with vegetation and rubble |
| 54866 | WS4 | None Supplied | 0.40 | 18.7 | Light brown clay with vegetation |
| 54867 | S1 | None Supplied | 0.40 | 27.5 | Brown loamy clay with vegetation |
| 54868 | TP1 | None Supplied | 0.20 | 27.4 | Brown loamy clay with vegetation |
| 54869 | TP2 | None Supplied | 0.50 | 23.4 | Brown loamy clay with vegetation |
| 54870 | TP3 | None Supplied | 0.40 | 21.8 | Brown clayey loam with vegetation |

Insufficient sample I/S
Unsuitable Sample U/S

**QTS Environmental Ltd**
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**Lenham Heath**
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4480

| **Soil Analysis Certificate - Methodology & Miscellaneous Information** |
|---|
| **QTS Environmental Report No: 12-11610** |
| **Soils Ltd** |
| **Site Reference: Ranelagh Road, Havant** |
| **Project / Job Ref: 13284** |
| **Order No: None Supplied** |
| **Reporting Date: 08/11/2012** |

| Matrix | Analysed On | Determinand | Brief Method Description | Method No |
|---|---|---|---|---|
| Soil | D | Metals | Determination of metals by aqua-regia digestion followed by ICP-OES | E002 |
| Soil | D | Cations | Determination of cations in soil by aqua-regia digestion followed by ICP-OES | E002 |
| Soil | D | Boron - Water Soluble | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES | E012 |
| Soil | AR | Chromium - Hexavalent | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry | E016 |
| Soil | D | Magnesium - Water Soluble | Determination of water soluble magnesium by extraction with water followed by ICP-OES | E025 |
| Soil | AR | Asbestos Screening | Visual screening of samples for fibrous material | E024 |
| Soil | D | Chloride - Water Soluble (2:1) | Determination of chloride by extraction with water & analysed by ion chromatography | E021 |
| Soil | AR | Cyanide - Total | Determination of total cyanide by distillation followed by colorimetry | E015 |
| Soil | AR | Cyanide - Complex | Determination of complex cyanide by distillation followed by colorimetry | E015 |
| Soil | AR | Cyanide - Free | Determination of free cyanide by distillation followed by colorimetry | E015 |
| Soil | AR | Electrical Conductivity | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement | E022 |
| Soil | D | Elemental Sulphur | Determination of elemental sulphur by solvent extraction followed by turbidimeter | E020 |
| Soil | D | Fluoride - Water Soluble | Determination of Fluoride by extraction with water & analysed by ion chromatography | E023 |
| Soil | D | FOC (Fraction Organic Carbon) | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate | E011 |
| Soil | D | Loss on Ignition @ 450°C | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace | E019 |
| Soil | AR | Moisture Content | Moisture content; determined gravimetrically | E003 |
| Soil | D | Organic Matter | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate | E011 |
| Soil | AR | pH | Determination of pH by addition of water followed by electrometric measurement | E007 |
| Soil | D | Phosphorus | Determination of phosphorus by aqua-regia digestion followed by ICP-OES | E002 |
| Soil | D | Sulphate (as SO4) - Water Soluble (2:1) | Determination of water soluble sulphate by extraction with water followed by ICP-OES | E014 |
| Soil | D | Sulphate (as SO4) - Total | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES | E013 |
| Soil | AR | Sulphide | Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode | E018 |
| Soil | D | Sulphur - Total | Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES | E002 |
| Soil | AR | Thiocyanate (as SCN) | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry | E017 |
| Soil | D | Total Organic Carbon (TOC) | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate | E011 |
| Soil | AR | BTEX | Determination of BTEX by headspace GC-MS | E001 |
| Soil | D | Cyclohexane Extractable Matter (CEM) | Gravimetrically determined through extraction with cyclohexane | E009 |
| Soil | AR | Diesel Range Organics (C10 - C24) | Determination of hexane/acetone extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | Mineral Oil (C10 - C40) | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge | E004 |
| Soil | AR | PAH - Speciated (EPA 16) | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards | E005 |
| Soil | AR | PCB - 7 Congeners | Determination of PCB by extraction with acetone and hexane followed by GC-MS | E008 |
| Soil | D | Petroleum Ether Extract (PEE) | Gravimetrically determined through extraction with petroleum ether | E009 |
| Soil | AR | Phenols - Total (monohydric) | Determination of phenols by distillation followed by colorimetry | E010 |
| Soil | AR | SVOC | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS | E006 |
| Soil | D | Toluene Extractable Matter (TEM) | Gravimetrically determined through extraction with toluene | E009 |
| Soil | AR | EPH (C10 – C40) | Determination of acetone/hexane extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | VPH (C6 - C10) | Determination of hydrocarbons C6-C10 by headspace GC-MS | E001 |
| Soil | AR | EPH TEXAS | Determination of acetone/hexane extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | TPH CWG | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge | E004 |
| Soil | AR | TPH LQM | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge | E004 |
| Soil | AR | EPH (with florisil cleanup) | Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID | E004 |
| Soil | AR | EPH Product ID | Determination of acetone/hexane extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | VOCs | Determination of volatile organic compounds by headspace GC-MS | E001 |

Key

**D Dried**
**AR As Received**

Craig Morrison
Soils Ltd
Brunel House, Unit 14
Chalcroft Distribution Park
Burnetts Lane
Southampton
Hampshire
SO30 2PA

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# QTS Environmental Report No: 12-11608

| | |
|---|---|
| **Site Reference:** | Ranelagh Road, Havant |
| **Project / Job Ref:** | 13284 |
| **Order No:** | None Supplied |
| **Sample Receipt Date:** | 01/11/2012 |
| **Sample Scheduled Date:** | 01/11/2012 |
| **Report Issue Number:** | 1 |
| **Reporting Date:** | 07/11/2012 |

**Authorised by:**

Russell Jarvis
Director
**On behalf of QTS Environmental Ltd**

**Authorised by:**

Kevin Old
Director
**On behalf of QTS Environmental Ltd**

**QTS Environmental Ltd**
**Unit 1, Rose Lane Industrial Estate**
**Rose Lane**
**Lenham Heath**
**Maidstone**
**Kent ME17 2JN**
**Tel : 01622 851105**

4480

| Soil Analysis Certificate | | | | | | |
|---|---|---|---|---|---|---|
| **QTS Environmental Report No: 12-11608** | **Date Sampled** | 30/10/12 | 30/10/12 | 30/10/12 | | |
| **Soils Ltd** | **Time Sampled** | None Supplied | None Supplied | None Supplied | | |
| **Site Reference: Ranelagh Road, Havant** | **TP / BH No** | WS1 | WS2 | WS4 | | |
| **Project / Job Ref: 13284** | **Additional Refs** | None Supplied | None Supplied | None Supplied | | |
| **Order No: None Supplied** | **Depth (m)** | 1.30 | 1.00 | 2.90 | | |
| **Reporting Date: 07/11/2012** | **QTSE Sample No** | 54854 | 54855 | 54856 | | |

| Determinand | Unit | MDL | Accreditation | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N / a | MCERTS | 8.1 | 8.1 | 8.2 | | |
| Total Sulphate as $SO_4$ | mg/kg | < 200 | NONE | 445 | < 200 | 513 | | |
| W/S Sulphate as $SO_4$ (2:1) | g/l | < 0.01 | NONE | 0.05 | 0.02 | 0.01 | | |
| Total Sulphur | mg/kg | < 200 | NONE | < 200 | < 200 | < 200 | | |
| Ammonium as $NH_4$ | mg/kg | < 0.5 | NONE | < 0.5 | < 0.5 | < 0.5 | | |
| W/S Chloride (2:1) | mg/kg | < 10 | NONE | < 10 | < 10 | < 10 | | |
| Water Soluble Nitrate (2:1) as $NO_3$ | mg/kg | < 4 | NONE | 4 | 12 | < 4 | | |
| W/S Magnesium | mg/kg | < 10 | NONE | < 10 | 10 | < 10 | | |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Subcontracted analysis (S)

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

| Soil Analysis Certificate - Sample Descriptions | |
|---|---|
| QTS Environmental Report No: 12-11608 | |
| Soils Ltd | |
| Site Reference: Ranelagh Road, Havant | |
| Project / Job Ref: 13284 | |
| Order No: None Supplied | |
| Reporting Date: 07/11/2012 | |

| QTSE Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description |
|---|---|---|---|---|---|
| 54854 | WS1 | None Supplied | 1.30 | 12.2 | Grey gravelly clay with chalk and stones |
| 54855 | WS2 | None Supplied | 1.00 | 18 | Brown clay with vegetation |
| 54856 | WS4 | None Supplied | 2.90 | 13.9 | Light brown clay with chalk and stones |

Insufficient sample I/S
Unsuitable Sample U/S

**QTS Environmental Ltd**
**Unit 1, Rose Lane Industrial Estate**
**Rose Lane**
**Lenham Heath**
**Maidstone**
**Kent ME17 2JN**
**Tel : 01622 851105**

4480

| **Soil Analysis Certificate - Methodology & Miscellaneous Information** |
|---|
| **QTS Environmental Report No: 12-11608** |
| **Soils Ltd** |
| **Site Reference: Ranelagh Road, Havant** |
| **Project / Job Ref: 13284** |
| **Order No: None Supplied** |
| **Reporting Date: 07/11/2012** |

| Matrix | Analysed On | Determinand | Brief Method Description | Method No |
|---|---|---|---|---|
| Soil | D | Metals | Determination of metals by aqua-regia digestion followed by ICP-OES | E002 |
| Soil | D | Cations | Determination of cations in soil by aqua-regia digestion followed by ICP-OES | E002 |
| Soil | D | Boron - Water Soluble | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES | E012 |
| Soil | AR | Chromium - Hexavalent | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry | E016 |
| Soil | D | Magnesium - Water Soluble | Determination of water soluble magnesium by extraction with water followed by ICP-OES | E025 |
| Soil | AR | Asbestos Screening | Visual screening of samples for fibrous material | E024 |
| Soil | D | Chloride - Water Soluble (2:1) | Determination of chloride by extraction with water & analysed by ion chromatography | E021 |
| Soil | AR | Cyanide - Total | Determination of total cyanide by distillation followed by colorimetry | E015 |
| Soil | AR | Cyanide - Complex | Determination of complex cyanide by distillation followed by colorimetry | E015 |
| Soil | AR | Cyanide - Free | Determination of free cyanide by distillation followed by colorimetry | E015 |
| Soil | AR | Electrical Conductivity | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement | E022 |
| Soil | D | Elemental Sulphur | Determination of elemental sulphur by solvent extraction followed by turbidimeter | E020 |
| Soil | D | Fluoride - Water Soluble | Determination of Fluoride by extraction with water & analysed by ion chromatography | E023 |
| Soil | D | FOC (Fraction Organic Carbon) | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate | E011 |
| Soil | D | Loss on Ignition @ 450°C | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace | E019 |
| Soil | AR | Moisture Content | Moisture content; determined gravimetrically | E003 |
| Soil | D | Organic Matter | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate | E011 |
| Soil | AR | pH | Determination of pH by addition of water followed by electrometric measurement | E007 |
| Soil | D | Phosphorus | Determination of phosphorus by aqua-regia digestion followed by ICP-OES | E002 |
| Soil | D | Sulphate (as SO4) - Water Soluble (2:1) | Determination of water soluble sulphate by extraction with water followed by ICP-OES | E014 |
| Soil | D | Sulphate (as SO4) - Total | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES | E013 |
| Soil | AR | Sulphide | Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode | E018 |
| Soil | D | Sulphur - Total | Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES | E002 |
| Soil | AR | Thiocyanate (as SCN) | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry | E017 |
| Soil | D | Total Organic Carbon (TOC) | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate | E011 |
| Soil | AR | BTEX | Determination of BTEX by headspace GC-MS | E001 |
| Soil | D | Cyclohexane Extractable Matter (CEM) | Gravimetrically determined through extraction with cyclohexane | E009 |
| Soil | AR | Diesel Range Organics (C10 - C24) | Determination of hexane/acetone extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | Mineral Oil (C10 - C40) | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge | E004 |
| Soil | AR | PAH - Speciated (EPA 16) | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards | E005 |
| Soil | AR | PCB - 7 Congeners | Determination of PCB by extraction with acetone and hexane followed by GC-MS | E008 |
| Soil | D | Petroleum Ether Extract (PEE) | Gravimetrically determined through extraction with petroleum ether | E009 |
| Soil | AR | Phenols - Total (monohydric) | Determination of phenols by distillation followed by colorimetry | E010 |
| Soil | AR | SVOC | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS | E006 |
| Soil | D | Toluene Extractable Matter (TEM) | Gravimetrically determined through extraction with toluene | E009 |
| Soil | AR | EPH (C10 – C40) | Determination of acetone/hexane extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | VPH (C6 - C10) | Determination of hydrocarbons C6-C10 by headspace GC-MS | E001 |
| Soil | AR | EPH TEXAS | Determination of acetone/hexane extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | TPH CWG | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge | E004 |
| Soil | AR | TPH LQM | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge | E004 |
| Soil | AR | EPH (with florisil cleanup) | Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID | E004 |
| Soil | AR | EPH Product ID | Determination of acetone/hexane extractable hydrocarbons by GC-FID | E004 |
| Soil | AR | VOCs | Determination of volatile organic compounds by headspace GC-MS | E001 |

Key

**D Dried**
**AR As Received**

Desk Study

Soils LIMITED

Geotechnical & Environmental Consultants

# Report On A Phase I Desk Study

**At**

## Land south of Ranelagh Road, Havant, Hampshire, PO9 1NR

**For**

**Orchard Homes Limited**

Soils Limited
Newton House
Cross Road
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**REPORT 13284/DS**

# Phase I Desk Study

## Job Title: Land south of Ranelagh Road, Havant, Hampshire, PO9 1NR

## Client: Orchard Homes Limited

## CONTROL DOCUMENT

SOILS LIMITED DOCUMENT REFERENCE NUMBER:
13284/DS

DOCUMENT TYPE:
PHASE I DESK STUDY

DOCUMENT STATUS: **FINAL** Revision: 1.00

DATE: November 2012

Note: This is not a valid document for use in the design of the project unless it is titled **Final** in the Document Status box.

| | Name | Signature |
|---|---|---|
| Prepared by: | L Stockwell | |
| Checked by: | N Lambert | |
| | R Higginson | |

Current regulations and good practice were used in the preparation of this report. The recommendations given in this report must be reviewed by an appropriately qualified person at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

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**Report On A Phase I Desk Study**

**At**

**Land south of Ranelagh Road, Havant, Hampshire, PO9 1NR**

**For**

**Orchard Homes Limited**

## Section 1
## Commission

### 1.1 Commission

Soils Limited was commissioned by Orchard Homes Limited to carry out a Phase I Desk Study and Site Walkover at land south of Ranelagh Road, Havant, Hampshire, PO9 1NR.

### 1.2 Caveat

Whilst reasonable skill and care has been taken to determine the site history and the environmental setting within the time constraints applied by the programme, it should be appreciated that it may be that site conditions are better or worse than those indicated by desk study, particularly on sites with a history of past development. No responsibility can be accepted should such conditions alter the recommendations made in this report.

---

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# Section 2
# Introduction

## 2.1 Objective of the Investigation

The Phase I Desk Study was undertaken to advise the client on risk factors pertaining to the site with special reference to former and present day potential contaminative uses and their impact on sensitive receptors these being human health, controlled waters, buildings, building materials and services.

## 2.2 Location

The approximate O.S. National Grid Reference at the centre of the site was SU 708 063. The site area was approximately 2.5Ha. The general site location map is given on Figure 1.

## 2.3 Proposed Redevelopment

At the time of reporting, November 2012, the proposed development was the erection of 81 dwellings consisting of 10no. two bed flats, 12no. two bed flats, 6no. two bed houses and 53no. three bed houses. The proposed redevelopment included the construction of access from Ranelagh Road, provision of landscaping, open space and associated works.

## 2.4 Legislative Background

Part IIA of the Environment Act 1995 provides powers in relation to the identification, remediation and apportionment of liability for contaminated land.

Local Authorities are required to identify contaminated land and serve on every person who is an appropriate person a remediation notice setting out what is to be done by way of remediation and the period within which it must be done.

If the person who caused, or knowingly permitted the contaminating substance cannot be found, the owner and/or occupier for the time being of the property can be the appropriate person.

For the first time in the United Kingdom there is a legal meaning to the term Contaminated Land as: -

> *"Land which is in such a condition by reason of substances in, on or under the land that significant harm is being caused or that there is a significant possibility of such harm being caused or that pollution of controlled waters is being, or is likely to be caused".*

Where the Act defines harm as: -

> *"harm to the health of living organisms or other interference with the*

*ecological systems of which they form a part and, in the case of man, includes harm to his property".*

and pollution of controlled waters is defined as: -

*"the entry into controlled waters of any poisonous, noxious or polluting matter or any solid waste matter".*

In addition, The Radioactive Contaminated Land (Modification of Enactments) (England) Regulations 2006 introduced the additional definition of harm to include: lasting exposure to any person resulting from the after-effects of a radiological emergency, past practice or past work activity.

With regard to contaminated waters, the Environment Act 1995 amends the Water Resources Act 1991 and provides the Environment Agency with the power to force clean-up of historical contamination by issuing a Works Notice, with remediation paid for by the responsible parties.

The Groundwater Regulations (1998) stated that entry of List 1 substances into groundwater must be prevented, and List II substances must be controlled. This was revoked when the Groundwater Regulations 2009 came into force in October 2009. The key changes are that: the term 'hazardous substances' is used instead of List I substances as in the 1998 Regulations and 'non-hazardous pollutants' is used instead of List II substances; a larger range of substances come within control; and the approach is generally more risk-based and less prescriptive.

## 2.5 Limitations and Disclaimers

This Phase I Desk Study Report relates to the site located at land south of Ranelagh Road, Havant, Hampshire, PO9 1NR and was prepared for the sole benefit of Orchard Homes Limited (The "Client") and was prepared solely for the brief described in Section 1.1 of this report.

Soils Limited disclaim any responsibility to the Client and others in respect of any matters outside the scope of the above.

This report has been prepared by Soils Limited, with all reasonable skill, care and diligence within the terms of the Contract with the Client, incorporation of our General Conditions of Contact of Business and taking into account the resources devoted to us by agreement with the Client.

The report is personal and confidential to the Client and Soils Limited accept no responsibility of whatever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report wholly at its own risk.

The Client may not assign the benefit of the report or any part to any third party without the written consent of Soils Limited.

The ground is a product of continuing natural and artificial processes. As a result, the ground will exhibit a variety of characteristics that vary from place to place across a site, and also with time. Whilst a ground investigation will mitigate to a greater or lesser degree against the resulting risk from variation, the risks cannot be eliminated.

The investigation, interpretations, and recommendations given in this report were prepared for the sole benefit of the client in accordance with their brief. As such these do not necessarily address all aspects of ground behaviour at the site.

Current regulations and good practice were used in the preparation of this report. An appropriately qualified person must review the recommendations given in this report at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

The conclusions and recommendations relate to land south of Ranelagh Road, Havant, Hampshire, PO9 1NR.

There may be other sources of information not included in those listed that hold data relevant to the Phase I Desk Study undertaken at the site that could materially affect the conclusions made in this report.

Ownership of land brings with it onerous legal liabilities in respect of harm to the environment. "Contaminated Land" is defined in Section 57 of the Environment Act 1995 as *"Land which is in such a condition by reason of substances in, on or under the land that significant harm is being caused or that there is a significant possibility of such harm being caused or that pollution of controlled waters is being, or is likely to be caused".*

Where a contaminative use is identified in the Phase I Desk Study this does not determine whether contamination has actually occurred, or if it has the degree to which it may have taken place. An intrusive investigation(s) and analysis is required to establish the nature and degree of any contamination present.

Ownership of copyright of all printed material including reports, laboratory test results, trial pit and borehole log sheets, including drillers log sheets, remain with Soils Limited. Licence is for the sole use of the client and may not be assigned, transferred or given to a third party.

# Section 3
# Site Conditions

## 3.1 Site Walkover

A Site Walkover was undertaken in October 2012, when the weather was wet and cold.

Details of the site walkover are presented in Table 3.1.

Table 3.1
**Site Walkover Record**

| | |
|---|---|
| **Use of site** | *North: Disused former allotments. Land noted to be overgrown scrub. Ranelagh Road to north of former allotments.*<br><br>*South: Open paddocks to majority of south of site.*<br><br>*South-east: Stables. All situated on concrete base in good condition. No drainage system noted onsite. Scattered farm structures in dilapidated condition. Scrap metal storage and small-scale farm machinery. Possible asbestos bound-roofing to structures. Equestrian ménage area (flooded) to west of Stable area, but within south-east of site.*<br><br>*Compacted soil driveway west-east across site from Ranelagh Road to the stable area.* |
| **Site topography** | *Gently sloped to south* |
| **Area topography** | *Gently sloped to south* |
| **Structures on-site** | *Several dilapidated barns and stables in very poor condition. Mostly constructed in recycled wood and metal. Steel framed barns – lacking roofs and upper-sides to the south-east.*<br>*No structures to former allotment area.*<br>*Structure (possible shed) noted within hedge/brambles to north-west of site, however access to this area was not possible during the site visit.* |
| **Structures off-site/ Use of surrounding ground** | *South: Open land/paddocks*<br>*South-east: industrial units/depots*<br>*West: Water pumping station and open land/paddocks*<br>*North: residential and Ranelagh Road* |
| **Site covering** | *Brambles, shrubbery, hedges, mature trees to north.*<br>*Compacted mud road to center (east-west) of site.*<br>*Good condition concrete base to stable area*<br>*Grass to paddock area and grass verges alongside access-road* |
| **Current Contamination sources on-site** | *Stables/farm environment*<br>*Possible cement-bound asbestos roofing to stable structures*<br>*Former allotment use to north* |
| **Current Contamination sources off-site** | *Depots to south-east* |
| **Vegetation on-site** | *Hedges, brambles, mature and semi-mature trees, weeds, grass* |
| **Vegetation off-site** | *Hedges, brambles, mature and semi-mature trees, weeds, grass* |

Site photographs taken during the site walkover are shown within Appendix D

.

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# Section 4
# Geology, Hydrogeology, Hydrology and Radon

## 4.1 Anticipated Geology

The 1:50 000 Geological Survey of Great Britain (England and Wales) map showed the east of the site to be located on River Terrace Deposits underlain by Undifferentiated Chalk comprising Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation (the White Chalk Subgroup).

### 4.1.1 River Terrace Deposits

The rivers of Hampshire have deposited extensive spreads of River Terrace Deposits in the Southampton area, representative of ancient floodplains. In total, eleven terraces have been recorded. The River Terrace Deposits consist predominantly of gravels made up of subangluar to subrounded flints with a significant sand component locally with lenses of silt, clay or peat.

The five highest terraces have appreciable clay content. Poorly sorted, clayey and sandy silts and silty clays overlie the 1st, 3rd, 5th and 6th terraces and locally at above terrace gravels.

### 4.1.1 Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation – The White Chalk Subgroup

The Lewes Nodular Chalk Formation is composed of hard to very hard nodular chalks and hardgrounds with interbedded soft to medium hard chalks (some grainy) and marls; some griotte chalks. The softer chalks become more abundant towards the top. Nodular chalks are typically lumpy and iron-stained. Brash is rough and flaggy or rubbly, and tends to be dirty. First regular seams of nodular flint, some large, commence near the base and continue throughout.

Seaford Chalk Formation can be described as firm white chalk with conspicuous semi-continuous nodular and tabular flint seams. Hardgrounds and thin marls are known from the lowest beds. Some flint nodules are large to very large.

The Newhaven Chalk Formation is a soft white friable microporous limestone composed of coccolith biomicrites with a varying proportion of larger shell fragments.

At various levels clay sized material occurs as marl seams and partings. Close to the surface the upper few metres are invariably discoloured brown, due to leaching from the overlying strata. The interface with any overlying stratum is invariably extremely irregular as a result of localised weathering and general solution. Weathering by frost action may extend to a depth of several metres.

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Occasional erosional features, such as pipes, swallow holes and solution cavities, usually in-filled with drift deposits, are found in the chalk. The features sometimes manifest themselves at the surface as shallow circular depressions. Solution features may be reactivated by the concentrated ingress of water from leaking drains or soakaways. Reactivation may lead to surface collapse.

## 4.2 Hydrogeology

To assess the vulnerability of groundwater to contamination, consideration must be given to the leaching characteristics of the overlying soils and the characteristics of the strata in the unsaturated zone. Information on the geological strata, such as lithological type and permeability characteristics has been combined with the physical properties of the soil to produce varying degrees of vulnerability.

The Environment Agency Groundwater Vulnerability Map showed the site to be situated on superficial deposits classified as **Secondary A Aquifer,** associated with the River Terrace Deposits. No bedrock aquifer designation was recorded.

Secondary A Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

The site was situated on soils having an **High(U)** Leaching Potential classification.

The site **was situated** on a Groundwater Source Protection Zone 1 for Bedhampton and Havant Springs public water supply abstraction.

Any works or development, which may have an impact on surface water, aquifer or groundwater quality, must be approved by the Environment Agency prior to implementation.

The nearest **potable abstraction** point was noted 218m west of the site.

## 4.3 Hydrology

The nearest Surface Water Feature was approximately 51m to the west of the site, which was Hermitage Stream.

The site had an approximate elevation of 4m AOD.

Groundwater was anticipated to be flowing in a westerly direction, towards a Pumping Station abstraction to the west.

## 4.4 Radon Gas

The Envirocheck datasheet report noted the site **was situated** within an area where

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protection or risk assessment against the ingress of radon was required. The Envirocheck report noted that radon protection measures **will** be required within the proposed new development.

It is not possible in the course of a survey or inspection to determine whether radon gas is present as the gas is colourless and odourless. Tests can be undertaken to assess the concentration of radon in existing structures.

### 4.5 Flood Risk

The site **was situated** within an area identified by the Environment Agency as being at possible risk from flooding and/or extreme flooding. A Flood Risk Assessment will be required for this site.

---

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# Section 5
# Site History

## 5.1 Historic Map Study

The object of this search was to report on the evidence of site history and redevelopment of the site and its environs from available County Series and Ordnance Survey Maps dating from the mid to late 19th Century to the present day as downloaded from Landmark Environmental.

Maps only represent a "snap shot" of the site and its environs at the date of the survey. Changes that had occurred either to the site and/or the environs may well not have been recorded on the maps and could represent a hazard to the site.

Any distances quoted for features remote from the site have been scaled from the maps and are only approximate. Where dates have been noted in brackets, these are the actual dates applicable to the map editions. The information reported might not represent all pertinent information that could be obtained.

The interpretation of the maps and/or other data commented on in this report is subjective. In the following sections dealing with individual maps, only features considered to have a potential contaminative impact on the site and usually within a notional 250 metre radius of the site boundaries are discussed.

The north point and approximate extent of the site are indicated on each figure.

A précis of the implications, if any, of the maps is given in Table 5.1.

Table 5.1
**Environmental Significance of Data From Maps**

| Date | On-site historical data |
|---|---|
| 1868-1870 | The site was noted as undeveloped and comprised open land with boundaries marked with hedges and fences. |
| 1897-1898 | Site noted as Brockhampton Nurseries. Scattering of small buildings and greenhouses noted to the north-east and east of site. No change noted to the south and west of site. |
| 1909-1910 | Additional building noted to the north-western corner of site. Orchard noted to the south-east of site. |
| 1932 | Brockhampton Nurseries no longer noted – associated buildings no longer shown. Small structure noted to north-west of site. |
| 1954 | Structure to north-west of site no longer noted. Allotments noted to the north of site. |
| 1961 | Several structures noted to the south-east of site. A track was noted from the north-west of site to the structures to the south-east of site. The site was noted to remain in this condition until the latest (1997) historical map. |
| 1867 | Site environs largely undeveloped. Portsmouth Water Works, including an engine house and a tannery were noted approximately 100m east of the site. Water pumping house noted to west of site. |

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| Table 5.1<br>**Environmental Significance of Data From Maps** | |
|---|---|
| **Date** | **Off-site historical data** |
| 1897 | Further development to Water Works site to west of site, beyond Hermitage Stream. Ranelagh Road is noted to the north of site, with residential properties to the north boundary. |
| 1909 | Tannery no longer noted after 1909, with the land noted as part of the water works and later labelled as 'Old Manor House'. |
| 1987 | Large industrial unit noted to south of site, associated with the development of Kingscroft Court. |
| 2009 | Site environs remain as previous maps. Kingscroft Farm buildings noted to the north-east of site replaced by residential development. |

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# Section 6
# Environmental Records and Consultation

## 6.1 Dataset Information and Landmark Envirocheck Report

A Landmark Envirocheck Report was obtained for the site by Soils Limited. Unless the data indicates otherwise only information within a 250m buffer zone has been included.

A copy of the report and the certificate are presented in Appendix B of this report and a summary is given in Tables 6.1 and 6.2.

Table 6.1
**Environmental Significance Of Data Search**

| Source | Nearest distance from site/Dated/Type |
|---|---|
| **Groundwater protection zones** | *Onsite/ Part GSPZ I* |
| **Nearest potable abstraction point** | *218m W* |
| **Nearest non-potable abstraction point** | *None within 1000m* |
| **Nearest Surface Water Feature** | *51m NW/ Hermitage stream* |
| **Contaminated Land Register Entries and Notices** | *None within 1000m* |
| **Pollution Incidents to Controlled Waters (Significant Incidents only)** | *513m SW/Oils (1994)*<br>*919m SE/ Diesel oil in stream* |
| **Substantial Pollution Incident Register** | *None within 1000m* |
| **Prosecutions Relating to Authorised Processes** | *245m S/ Breaching packing regulations*<br>*703m S/ Tipping brick and rubble into land without WML* |
| **Local Authority Pollution Prevention and Controls** | *None within 1000m* |
| **Discharge Consents** | *195m W/ Storm overflow*<br>*206m NE/ Surface water* |
| **Integrated Pollution Prevention and Control** | *None within 250m* |
| **Registered Radioactive Substances** | *None within 250m* |
| **Licensed Waste Management Facilities** | *80m W/ Non-biodegradable wastes / Inactive 1992*<br>*80m W/ Inert LF/ Active* |
| **Registered Landfill Sites** | *197m W/ Inert material from pipework material/ Active* |
| **Historical Landfill Sites** | *None within 250m* |
| **BGS Recorded Landfill Sites** | *None within 250m* |
| **Registered Waste Treatment or Disposal Sites** | *None within 250m* |
| **BGS Recorded Mineral Sites** | *None within 250m* |
| **Registered Waste Transfer Sites** | *None within 250m* |
| **Local Authority Recorded Landfill Sites** | *None within 250m* |
| **Planning hazardous substance consents** | *None within 250m* |
| **Control of Major Accident Hazards Sites (COMAH)** | *None within 250m* |
| **Notification of Installations Handling Hazardous Substances** | *None within 250m* |
| **Water Industry Act Referrals** | *None within 250m* |
| **Contemporary Trade Directory (Active Status or those likely to impact the underlying soil and/or groundwater, date not supplied)** | *164m N/ Builders merchants*<br>*208m S/ Marine engineers*<br>*206m NE/ Car dealers*<br>*216m N/ Car body repairs*<br>*220m S/ Garage services*<br>*246m S/ Plastics manufacturers* |
| **Extreme flooding from rivers or sea without defences** | *Onsite* |
| **Flooding from rivers or sea without defences** | *Onsite* |
| **Areas benefiting from flood defences** | *None within 250m* |
| **Flood Water Storage Areas** | *None within 250m* |
| **Flood Defences** | *None within 250m* |
| **Fuel Station Entries** | *None within 1000m* |

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| Table 6.2<br>Geological Hazards | |
|---|---|
| **Coal Mining Affected Areas** | *None within 250m* |
| **Non-Coal Mining Affected Areas** | *None within 250m* |
| **Mining Instability** | *None within 250m* |
| **Natural and Mining Cavities** | *None within 250m* |
| **Potential For Collapsible Ground Stability Hazards** | *No Hazard* |
| **Potential For Compressible Ground Stability Hazards** | *No Hazard* |
| **Potential For Ground Dissolution Stability Hazards** | *Onsite/ Moderate* |
| **Potential For Landslide Ground Stability Hazards** | *Onsite/ Very Low* |
| **Potential For Running Sand Ground Stability Hazards** | *Onsite/ Low - No Hazard* |
| **Potential For Shrinking or Swelling Ground Stability Hazards** | *Onsite/ Low- Very Low* |

## 6.2 Site Sensitivity Maps

No other significant potential sources of contamination were shown on the Landmark Envirocheck Site Sensitivity Maps have not been listed in the table above, copies of which are presented in Appendix C.

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# Section 7
# Discussion

## 7.1 Summary

The findings of the Phase I Desk Study are summarised below:

1) *The 1:50 000 Geological Survey of Great Britain (England and Wales), showed the site to be located superficial soils of the River Terrace Deposits underlain by the White Chalk Subgroup: Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation.*

2) *The Environment Agency Groundwater Vulnerability Map showed the site to be situated on superficial soils noted as having a class of* ***Secondary A Aquifer*** *associated with the River Terrace Deposits. No aquifer designation was noted for the bedrock strata of the White Chalk Subgroup. The site was noted as having a* ***High (U)*** *leaching potential.*

3) *The site was situated on a* ***Groundwater Source Protection Zone I****.*

4) *A* ***potable abstraction*** *point was noted 218m west of site.*

5) *Groundwater flow would be anticipated to flow to the west towards the Groundwater Source Protection Zone abstraction at the Water Pumping station to the west.*

6) *The site* ***was*** *situated within an area identified by the Environment Agency as being at possible risk from flooding and extreme flooding.*

7) *The Envirocheck data sheet showed that radon protection measures* ***were*** *required.*

8) *The earliest historical map, 1868-1870, showed the site to be noted as undeveloped and comprised of open land with boundaries marked with hedges and fences. The 1897-1898 historical map noted Brockhampton Nurseries onsite. A scattering of small buildings and greenhouses were noted to the north-east and east of site. No change was noted to the south and west of site. The 1909-1910 map noted an additional building to the north-western corner of site. An Orchard was noted to the south-east of site. The 1932 historical map no longer noted Brockhampton Nurseries and its associated buildings were no longer shown. A small structure was noted to north-west of site. The 1954 historical map noted the structure to north-west of site no longer noted and noted Allotments to the north of site. By the 1961 historical map several structures were noted to the south-east of site. A track was noted from the north-west of site to the structures to the south-east of site. The site was noted to remain in this condition until the latest (1997) historical map.*

   *The site walkover noted the site to remain as the 1997 historical map, however*

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*the Allotments were no longer active to the north of site. The structures noted to the south-east of site were noted to be stables and farm buildings on a concrete base. The majority of the southern area of site was used as paddocks for horses. The Allotments to the north of site were overgrown with brambles and weeds. A small structure was noted to the north-east of site and was a small shed which was in a dilapidated condition.*

*Possible concrete-bound asbestos roofing was noted on the structures to the south-east of site during the site walkover. This source poses a* ***high*** *risk of contamination and should be removed by a specialist. A Type 3 Asbestos Survey* ***will be required*** *prior to demolition.*

*Allotments were noted to the north of site on the 1954 historical maps until the present day – although the 2012 site walkover noted the allotments to be overgrown and no longer active. Contaminants associated with allotments include herbicides and pesticides. The risk of contamination from this source was deemed* ***low.***

*Made ground was anticipated to be encountered across the site due to extensive historical redevelopment across the site. The contamination risk associated with this source was deemed* ***medium.***

*A Nursery was onsite until the 1932 historical map. Possible contaminants from Nurseries include pesticides and herbicides. This onsite source posed a* ***low*** *contamination risk.*

*Stables and farm buildings were noted during the site walkover. Typical contaminants associated with a farm yard environment can include; Faecal Coliforms, E-coli, Salmonella, Enterocci, Animal faecal excrement, Ammonia, TPH, PAH, Heavy metals, Fuel storage (tanks etc). No tanks, or evidence of historical tanks were noted onsite. No heavy farm machinery was noted onsite. The site structures were noted on a concrete base, which was in good condition. No evidence of fuel spills or staining was noted across the concrete. The risk of contamination from this source was deemed* ***medium****.*

9) *Due to the anticipated direction of groundwater flow to the west, only sources to the east of the site or directly on the site boundaries, pose a contamination risk to site.*

10) *The 1867 historical map noted a Tannery 100m east of site, until 1909. Drying of hides may lead to run-off water contaminated with bio-cides entering the soil, particularly where hides have been dried in the open air. Bio-cidal products are used in a variety of industries to control unwanted organisms, such as animals, insects, bacteria, viruses and fungi (i.e. Pesticides and Insecticides). Bacterial contamination from the bio-decay of skins and hides may also be present. Coliforms, Enterocci and E.Coli may be found where unwanted hides may have been disposed of. In additional sheep hairs and the tanning process*

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*are also possible areas where Anthrax may be found however the likelihood of Anthrax to be found on site was considered to be* ***negligible****.*

*Drums of chemicals as well as pits or tanks employed for tanning of hides may have leaked contaminants into the ground. Originally the tanning process was carried out in submerged tanning pits with the hides hung vertically, supported by wooden slats. The only major non-vegetable, non-chrome process is the oil-tannage process for chamois leather, utilizing formaldehyde and fish oils.*

*Metallic wastes such as chromium, are generally limited to sites where tanning has taken place and are likely to be associated with sludge tanks, drying or open storage areas on permeable ground. Historically, arsenic-based preservatives were used to preserve raw skins for transport. Very old tannery landfill sites are known which contain up to 1% arsenic as calcium salts in an excess of lime. (DOE Industry Profile: Animal and Animal Product Processing Works).*

*Given the time elapsed since the tannery was last noted, 1909, the small scale of the tannery, and the incorporation of the tannery site into Water Works land in 1909, the contamination risk to site from this source was considered to be* ***low.***

11) *A Water Works engine house was noted 100m to the west of site in 1867 until the present day. Contaminants associated with this source may include:*
*a. heavy metals (Ba, Cd, Cr, CU, Pb, Hg, Ni, V, Zn);*

*b. semi-metals and non-metals (As, B, Se);*

*c. organic compounds such as Polyaromatic Hydrocarbons (PAH), Extractable Petroleum Hydrocarbons (EPH), Volatile Organic Compounds (VOC), Semi-Volatile Organic Compounds (SVOC), BTEX.*

*The contamination risk associated with this source was deemed* ***low.***

12) *No biogas sources were noted on site or within the 250m of the site.*

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# Section 8
# Sources, Pathways and Receptors

## 8.1 General

Within the UK contaminated land regime the test is for 'fitness for purpose' for the intended use.

A hazard is the potential to cause harm; a risk on the other hand is the likelihood of harm (in defined circumstances, and usually qualified by some statement of the severity of the harm).

For a site to be contaminated there must be satisfied linkages between the source of contamination, a migration pathway and the final receptor. An intrusive investigation is required to establish whether a site is contaminated.

Groundwater flow would be anticipated to flow towards a Water Pumping Station abstraction to the west therefore only contaminants to the east of the site, or directly on any of the site boundaries, could pose a risk.

## 8.2 On-Site Potential Contamination Sources

Map evidence, study of Landmark Envirocheck Report and Site Walkover showed the following potentially contaminative activities as presented in Table 8.1:

| Table 8.1<br>**Potentially Contaminative activities** |
|---|
| Farm/Stable environment – Medium Risk |
| Possible cement bound asbestos - High Risk |
| Allotments/ orchards - Low Risk |
| Made ground from historical redevelopment - Medium risk |
| Nursery (historical) - Low risk |

Additional information derived from a Phase II investigation will assist in order to provide a more conclusive evaluation of the risk exposure of the underlying soils.

## 8.3 Off-Site Potential Contamination Sources

Map evidence, study of Landmark Envirocheck Report and Site Walkover showed the following potentially contaminative activities, presented in Table 8.2:

| Table 8.2<br>**Potentially Contaminative activities** |
|---|
| Tannery – Low Risk |
| Waterworks engine works to west – Low Risk |

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## 8.4 Potential Pathways

Anthropogenic (or artificial) pathways for contaminant migration can be present in the form of land drains etc. Leaking sewage supply pipes and site drainage could also provide pathways for potential contaminant migration. Granular backfill to trenches for cables, gas pipes, water pipes etc. can also provide pathways for movement of mobile contaminants and contaminated groundwater.

The site was situated on superficial soils of the River Terrace Deposits underlain by White Chalk Subgroup. The River Terrace Deposits were expected to have **moderate to high** permeability dependant on their clay content. The White Chalk Subgroup was expected to have **high** permeability. Therefore, the natural stratum **was** expected to act as a migration pathway for contaminants via the groundwater and biogas from on-site sources and off-site sources affecting human health.

The potential pathways on-site and off-site are presented below:

**On-site contamination pathways**

**Human Health**

- Ingestion of soil;
- Dermal contact;
- Inhalation of dust;
- Inhalation of vapour;
- Migration and inhalation of biogases due to onsite fill;
- Consumption of home grown vegetables and attached soil.

**Building Materials**

- Location of service supply pipes in contaminated soils;
- Direct contact of concrete to high-sulphate soils.
- Explosions in confined spaces

**Off-site contamination pathways**

- Groundwater

## 8.5 Potential Receptors

The source-pathway-receptor framework was used to assess potential risks posed by identified plausible pollutant linkages.

The sources and pathways were as identified in the Conceptual Site Model whilst the receptors comprised demolition/construction workers, service maintenance workers, future site occupiers, building materials and services and were selected to represent those receptors to which harm could be posed.

The potential receptors are presented below and comprise:

- End users of the site;
- Site operatives during demolition and redevelopment;

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- Maintenance workers;
- Building materials and services;
- Buildings and confined spaces (Explosion etc.);
- Groundwater;
- Site Neighbours and the wider public.

---

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# Section 9
# Conceptual Model

## 9.1 Tabulated Conceptual Model

Information obtained regarding the former use of the site and surrounding area was used to develop a conceptual model.

In order for any part of this conceptual model to be realised a source, pathway and receptor link must be in place and unbroken.

The Conceptual Site Model (CSM) is presented on Tables 9.1 and 9.2.

Table 9.1
**Tabulated Conceptual Site Model**

| | Potential Sources | Potential Migration Pathway | Potential Absorption Pathway | Potential Receptor |
|---|---|---|---|---|
| On Site Sources | Farm/Stable environment – **Moderate Risk**<br><br>Possible cement bound asbestos **High Risk** | Leaching via soils<br><br>Via anthropogenic pathways such as service trenches | Ingestion of soil with elevated concentration of determinants;<br><br>Dermal contact with impacted soils<br><br>Inhalation of impacted dust | Construction workers (particularly during foundation construction)<br><br>Service and Maintenance Operatives.<br><br>Site Occupiers |
| | Allotments/ orchards **Low Risk** | | Ingestion of soils attached to home grown vegetables/vegetables with contamination uptake | Site Occupiers |
| | Made ground from historical redevelopment **Moderate risk** | | Direct contact of concrete to high-sulphate soils<br><br>Location of service supply pipes in contaminated soils | Building foundations/services |
| | Nurserys (historical) **Low risk**<br><br>**RADON** | Surface Water Runoff<br><br>Leaching via soils<br><br>Via anthropogenic pathways such as service trenches<br><br>Migration downwards into the underlying groundwater | Surface Water Runoff | Groundwater<br><br>Surface water<br><br>Site Neighbours and the wider public |

*Continued overleaf:*

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*Continued from previous page:*

Table 9.2
**Tabulated Conceptual Site Model**

| | Potential Sources | Potential Migration Pathway | Potential Absorption Pathway | Potential Receptor |
|---|---|---|---|---|
| **Off Site Sources** | Tannery – Low Risk<br><br>Waterworks engine works to west – Low Risk | Leaching via soils<br><br>Via anthropogenic pathways such as service trenches<br><br>Importation onto site | Ingestion of soil;<br><br>Dermal contact with impacted soils<br><br>Inhalation of impacted dust<br><br>Ingestion of soils attached to home grown vegetables/vegetables with contamination uptake<br><br>Location of service supply pipes in contaminated soils | Construction workers (particularly during foundation construction)<br><br>Service and Maintenance Operatives.<br><br>Site Occupiers |
| | | | Migration downwards into the underlying groundwater<br><br>Surface Water Runoff | Groundwater<br><br>Surface water<br><br>Site Neighbours and the wider public |
| | None | Via porous ground or anthropogenic pathways (services), accumulating in new buildings | Inhalation of vapours | Site occupiers/buildings<br><br>Construction workers, service and maintenance operative, especially in confined spaces |

The intrusive investigation may reveal on site sources of contamination that were not established by the Phase I Desk Study and Site Walkover that could modify the Conceptual Site Model.

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# Section 10
# Recommendations

## 10.1 General

Based on the information obtained during the desk study and the conceptual site model derived for the site, an intrusive contaminated land investigation is recommended to be undertaken to determine the concentration of contaminants within the soil which may impact identified receptors if pathways are found.

An intrusive investigation may reveal on-site sources of contamination that were not established by the Phase I Desk Study and Site Walkover and thus require modification of the conceptual model.

## 10.2 Identification of Satisfied Pollutant Linkages

In order to show which of the scenarios in the Conceptual Site Model constituted satisfied pollutant linkages, a risk assessment using data from an intrusive investigation will be conducted.

## 10.3 Proposed Site Works

The combined geotechnical and Phase II Intrusive Investigation planned to obtain information regarding the following:

1) To investigate and assess linkages identified by the Conceptual Site Model.
2) Obtain data regarding engineering properties of the soils to enable the design of foundations, pavements and drainage.

The works to be undertaken on the site would comprise the following items:

1) Drilling boreholes with windowless sampler or percussion drilling rig at selected locations within the site.
2) Installation of groundwater monitoring wells.

## 10.4 Discovery Strategy

There may be areas of contamination not identified during the course of the intrusive investigation. Such occurrences may also be discovered during the demolition and construction phases for the redevelopment of the site.

Groundworkers should be instructed to report to the Site Manager any evidence for such contamination; this may comprise visual indicators, such as fibrous materials within the soil; discolouration, or odours and emission. Upon discovery, advice must be taken from a suitably qualified person before proceeding, such that appropriate remedial measures and health and safety protection may be applied.

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Should a new source of contamination be suspected or identified then works should be suspended in the area of the site and the Engineer and if appropriate the Local Authority must be informed.

---

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The following figures and appendices complete this report:

| | |
|---|---|
| Figure 1 | Site Location Map |
| Appendix A | Landmark Historical Maps |
| Appendix B | Landmark Envirocheck Report |
| Appendix C | Site Sensitivity Maps |
| Appendix D | Site Photographs |

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L. Stockwell.

Lucy Stockwell B.Sc. (Hons)
*Geoenvironmental Engineer*

Eur Ing. R. B. Higginson B.Sc., PG. Dip., C.Eng. MICE, FGS.
*Geotechnical Advisor*

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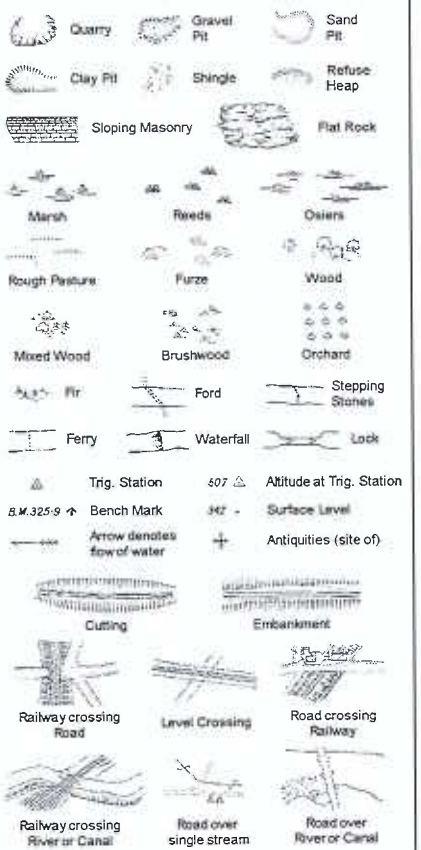



| | | |
|---|---|---|
| PROJECT:<br>**Land south of Ranelagh Road, Havant, Hampshire** | DATE:<br>**November 2012** | soils LIMITED<br>*Geotechnical & Environmental Consultants* |
| CLIENT:<br>**Orchard Homes Limited** | SCALE:<br>**Not to scale** | |
| TITLE:<br>**Figure 1: Location Plan** | REF:<br>**13284** | |

# Appendix A
# Landmark Historical Maps

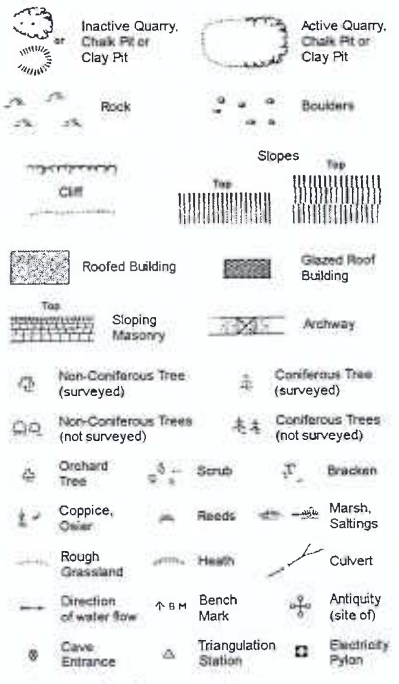
# Historical Mapping Legends

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




| | | | |
|---|---|---|---|
| B.S | Boundary Post or Stone | P.C.B | Police Call Box |
| B.R. | Bridle Road | P | Pump |
| E.P | Electricity Pylon | S.P | Signal Post |
| F.B. | Foot Bridge | Sl. | Sluice |
| F.P. | Foot Path | Sp. | Spring |
| G.P | Guide Post or Board | T.C.B | Telephone Call Box |
| M.S | Mile Stone | Tr. | Trough |
| M.P M.R | Mooring Post or Ring | W | Well |

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




| | | | |
|---|---|---|---|
| BH | Beer House | P | Pillar, Pole or Post |
| BP, BS | Boundary Post or Stone | PO | Post Office |
| Cn, C | Capstan, Crane | PC | Public Convenience |
| Chy | Chimney | PH | Public House |
| D Fn | Drinking Fountain | Pp | Pump |
| El P | Electricity Pillar or Post | SB, S Br | Signal Box or Bridge |
| FAP | Fire Alarm Pillar | SP, SL | Signal Post or Light |
| FB | Foot Bridge | Spr | Spring |
| GP | Guide Post | Tk | Tank or Track |
| H | Hydrant or Hydraulic | TCB | Telephone Call Box |
| LC | Level Crossing | TCP | Telephone Call Post |
| MH | Manhole | Tr | Trough |
| MP | Mile Post or Mooring Post | Wt Pt, Wt T | Water Point, Water Tap |
| MS | Mile Stone | W | Well |
| NTL | Normal Tidal Limit | Wd Pp | Wind Pump |

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



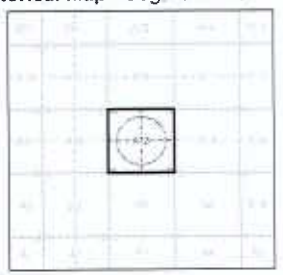

| | | | |
|---|---|---|---|
| Bks | Barracks | P | Pillar, Pole or Post |
| Bty | Battery | PO | Post Office |
| Cemy | Cemetery | PC | Public Convenience |
| Chy | Chimney | Pp | Pump |
| Cis | Cistern | Ppg Sta | Pumping Station |
| Disms Rly | Dismantled Railway | PW | Place of Worship |
| El Gen Sta | Electricity Generating Station | Sewage Ppg Sta | Sewage Pumping Station |
| El P | Electricity Pole, Pillar | SB, S Br | Signal Box or Bridge |
| El Sub Sta | Electricity Sub Station | SP, SL | Signal Post or Light |
| FB | Filter Bed | Spr | Spring |
| Fn / D Fn | Fountain / Drinking Ftn. | Tk | Tank or Track |
| Gas Gov | Gas Valve Compound | Tr | Trough |
| GVC | Gas Governor | Wd Pp | Wind Pump |
| GP | Guide Post | Wt Pt, Wt T | Water Point, Water Tap |
| MH | Manhole | Wks | Works (building or area) |
| MP, MS | Mile Post or Mile Stone | W | Well |

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## Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|---|---|---|---|
| Hampshire & Isle Of Wight | 1:2,500 | 1866 - 1868 | 2 |
| Hampshire & Isle Of Wight | 1:2,500 | 1866 - 1868 | 3 |
| Hampshire & Isle Of Wight | 1:2,500 | 1867 - 1868 | 4 |
| Hampshire & Isle Of Wight | 1:2,500 | 1897 | 5 |
| Hampshire & Isle Of Wight | 1:2,500 | 1909 | 6 |
| Hampshire & Isle Of Wight | 1:2,500 | 1932 | 7 |
| Additional SIMs | 1:2,500 | 1953 | 8 |
| Ordnance Survey Plan | 1:2,500 | 1954 - 1961 | 9 |
| Ordnance Survey Plan | 1:1,250 | 1959 - 1960 | 10 |
| Ordnance Survey Plan | 1:2,500 | 1961 | 11 |
| Ordnance Survey Plan | 1:1,250 | 1963 - 1973 | 12 |
| Ordnance Survey Plan | 1:1,250 | 1973 | 13 |
| Supply of Unpublished Survey Information | 1:1,250 | 1973 | 14 |
| Additional SIMs | 1:1,250 | 1978 - 1989 | 15 |
| Additional SIMs | 1:1,250 | 1991 | 16 |
| Large-Scale National Grid Data | 1:1,250 | 1993 | 17 |
| Large-Scale National Grid Data | 1:1,250 | 1995 - 1997 | 18 |

## Historical Map - Segment A13



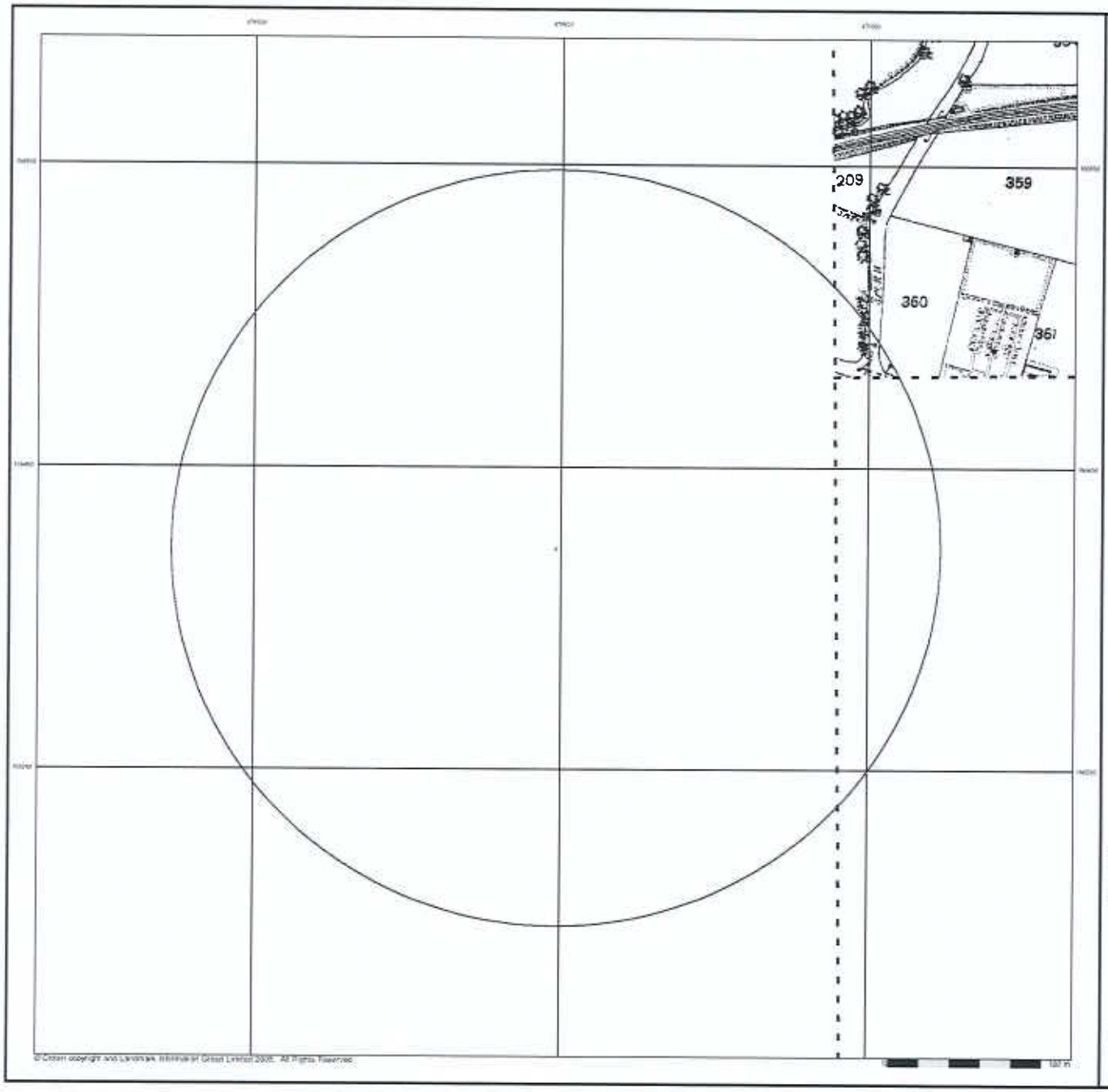

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Customer Ref: 48318640
National Grid Reference: 470800, 106350
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 250

## Site Details

1 Ranelagh Road, HAVANT, Hampshire, PO9 1NR

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### Map Name(s) and Date(s)



### Historical Map - Segment A13



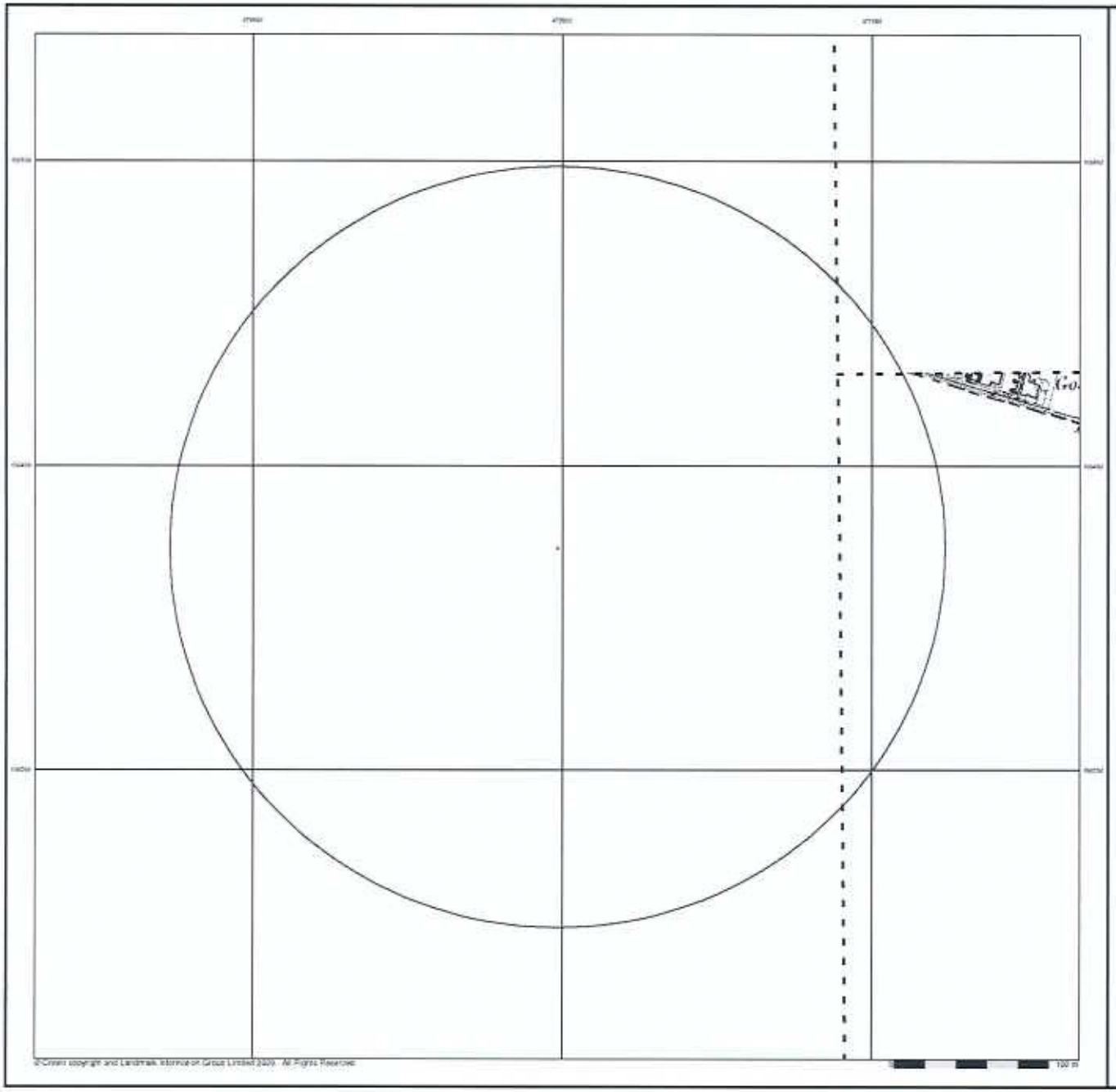

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| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

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### Map Name(s) and Date(s)



### Historical Map - Segment A13




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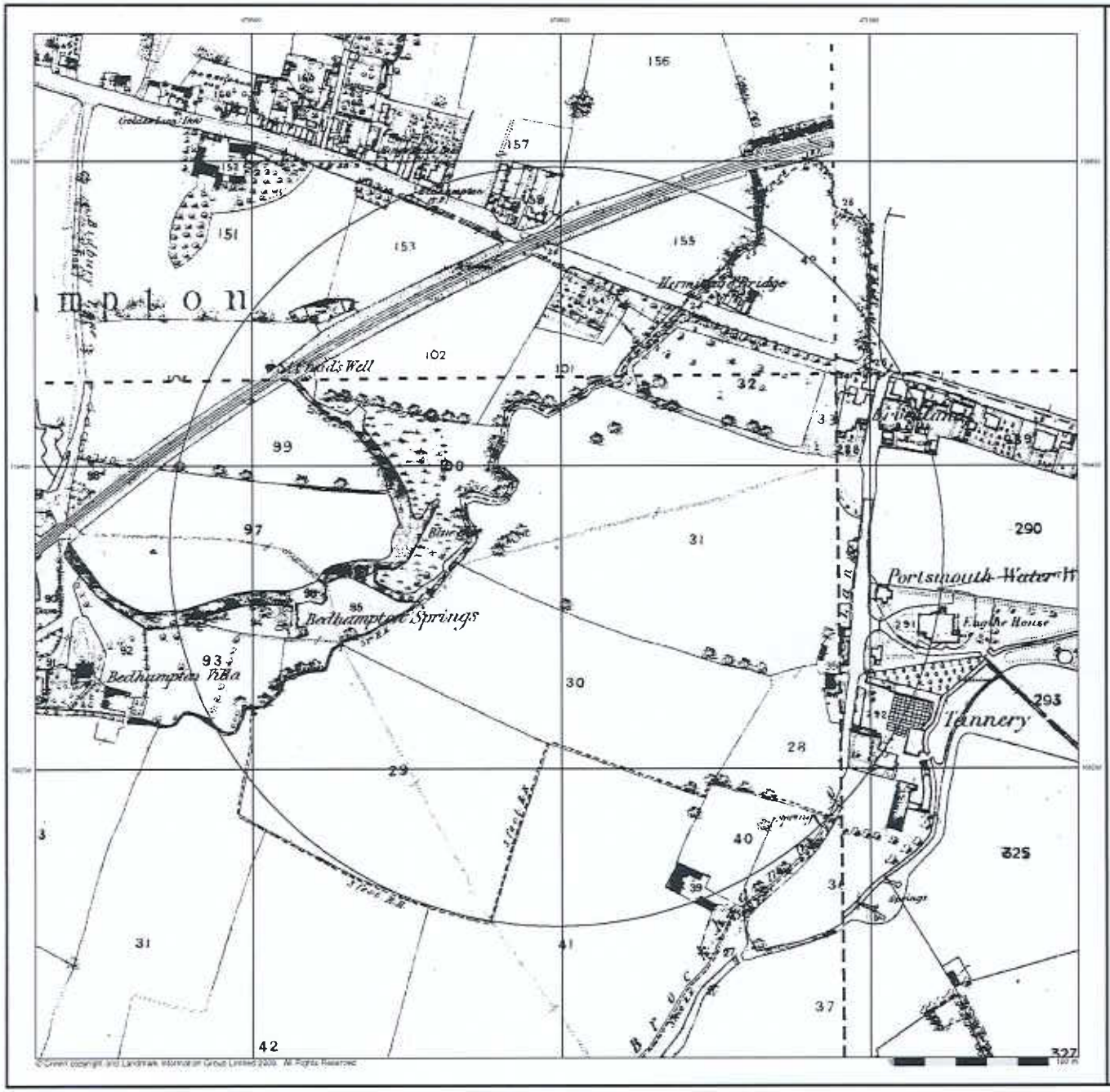
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| Customer Ref: | 49318640 |
| National Grid Reference: | 470800, 106350 |
| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

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### Map Name(s) and Date(s)



### Historical Map - Segment A13

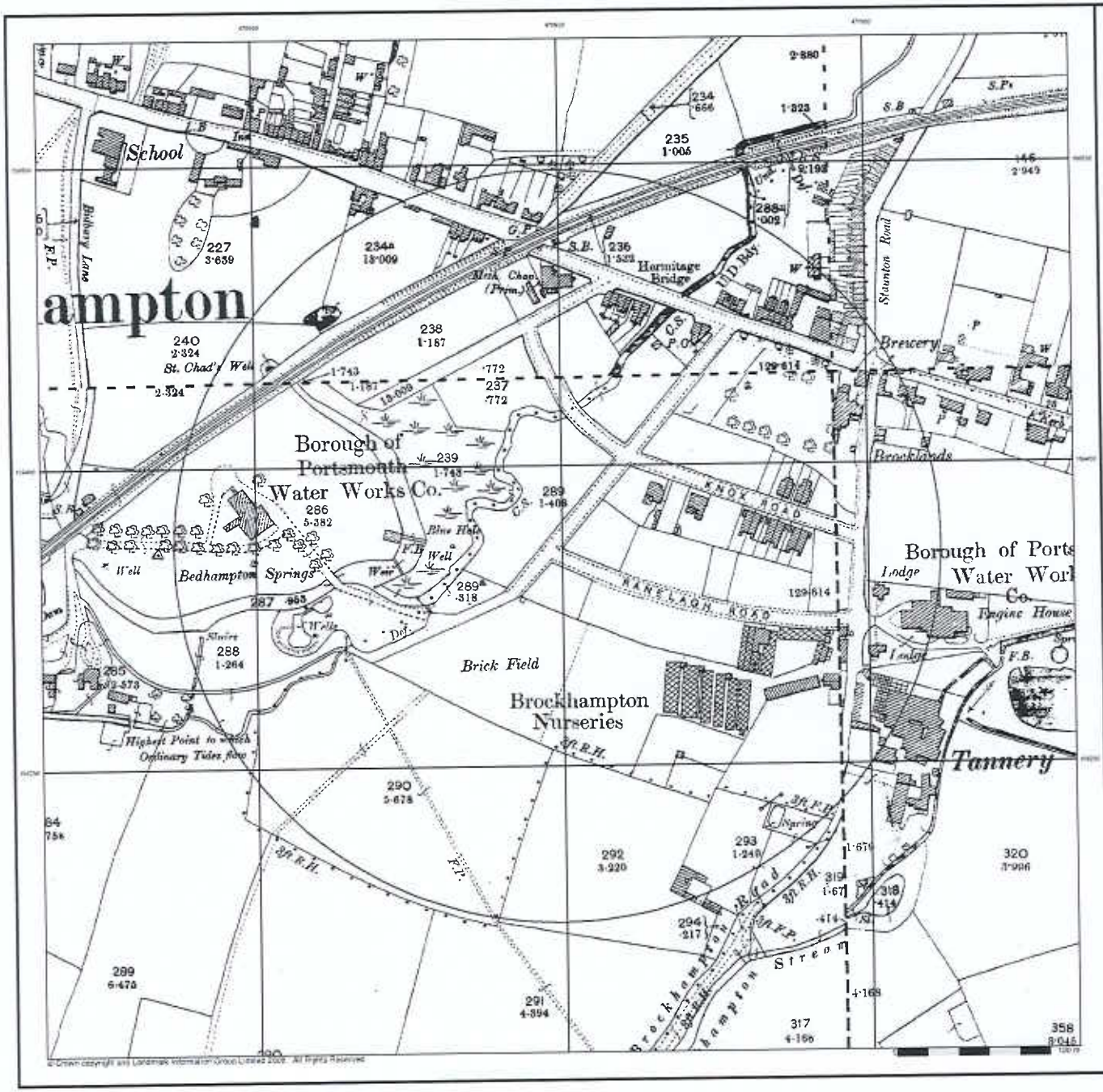


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| Customer Ref: | 49318640 |
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| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

### Site Details

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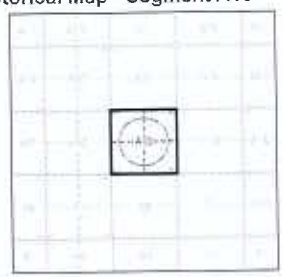
## Hampshire & Isle Of Wight
## Published 1897
## Source map scale - 1:2,500

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

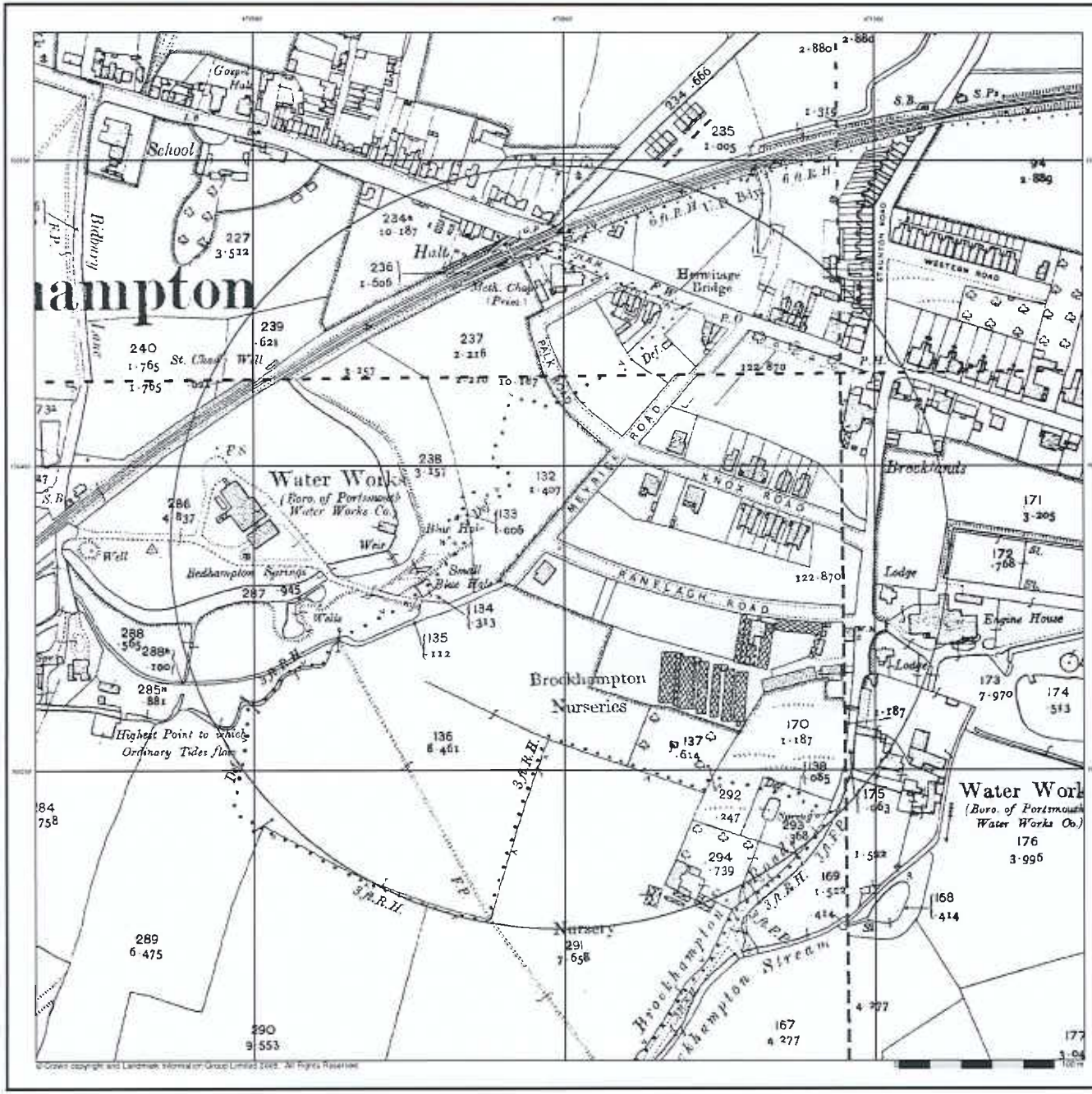


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| Site Area (Ha): | 0.01 |
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## Hampshire & Isle Of Wight
## Published 1909
## Source map scale - 1:2,500

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### Map Name(s) and Date(s)



### Historical Map - Segment A13

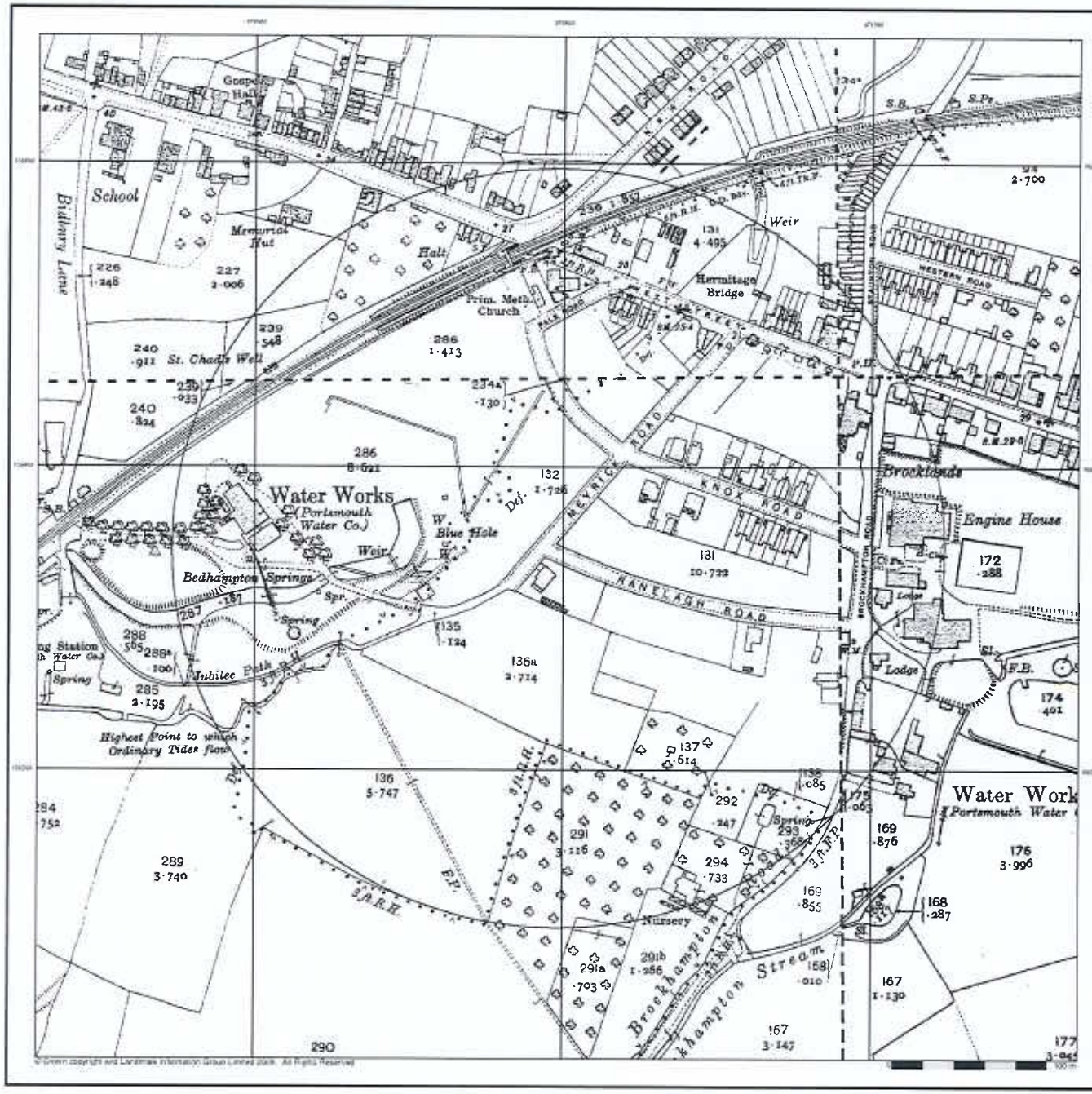


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| National Grid Reference: | 470800, 106350 |
| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

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## Hampshire & Isle Of Wight
## Published 1932
## Source map scale - 1:2,500

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### Map Name(s) and Date(s)



### Historical Map - Segment A13

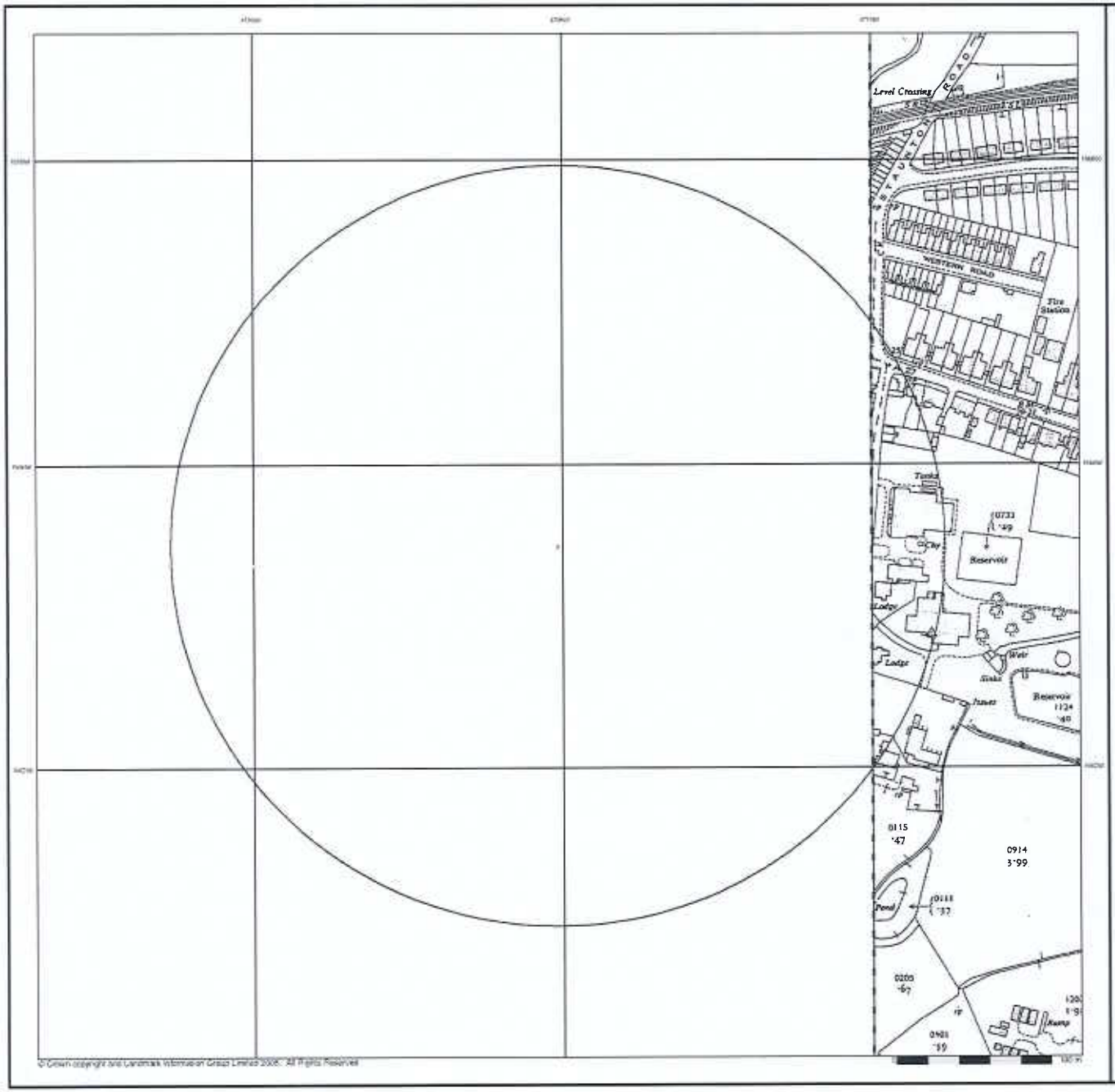


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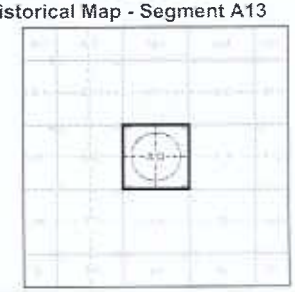
## Additional SIMs
## Published 1953
## Source map scale - 1:2,500

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

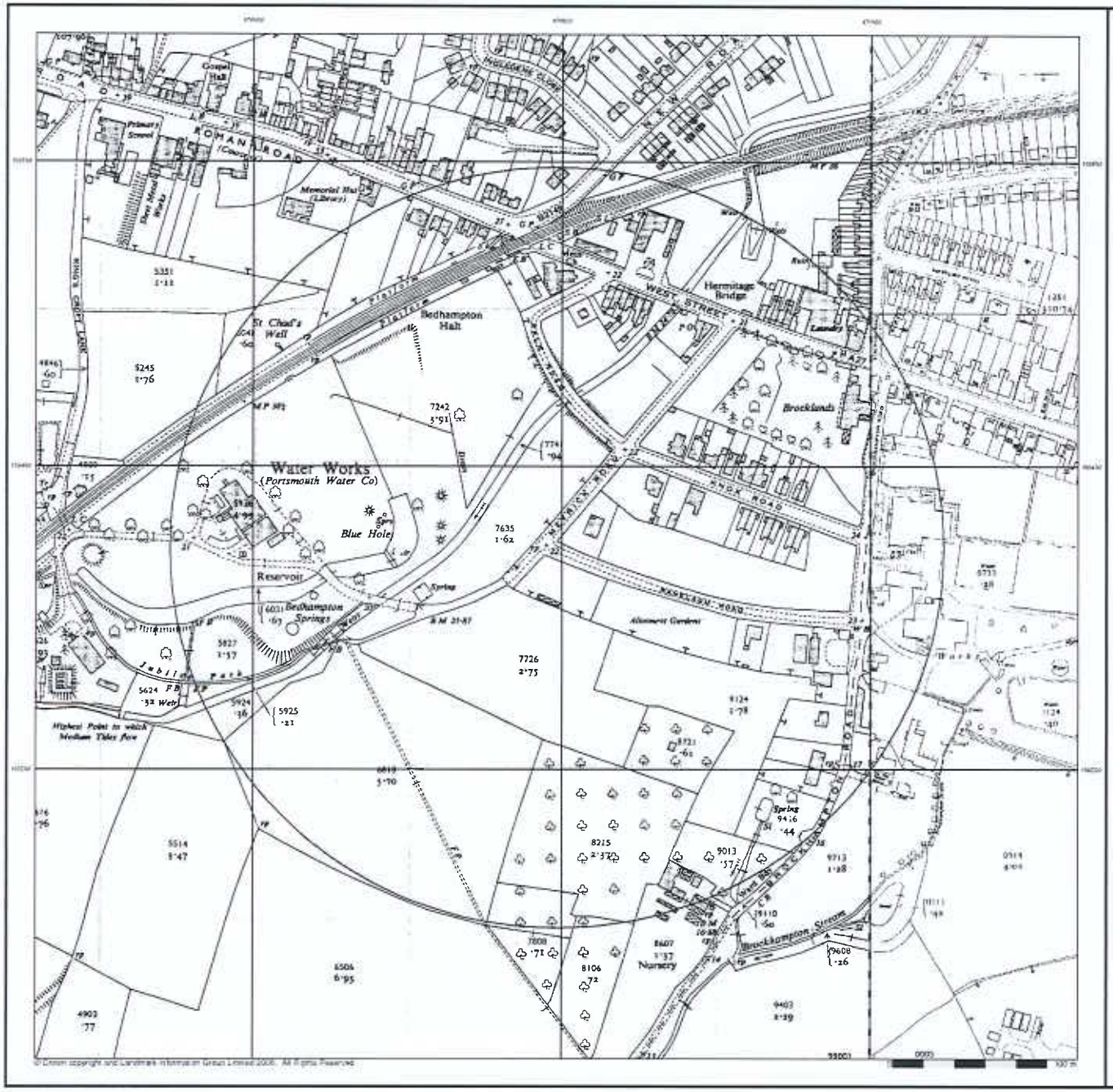


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| Search Buffer (m): | 250 |

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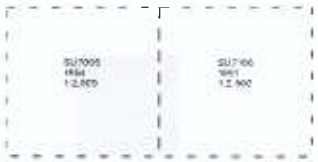

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## Ordnance Survey Plan
## Published 1954 - 1961
## Source map scale - 1:2,500

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



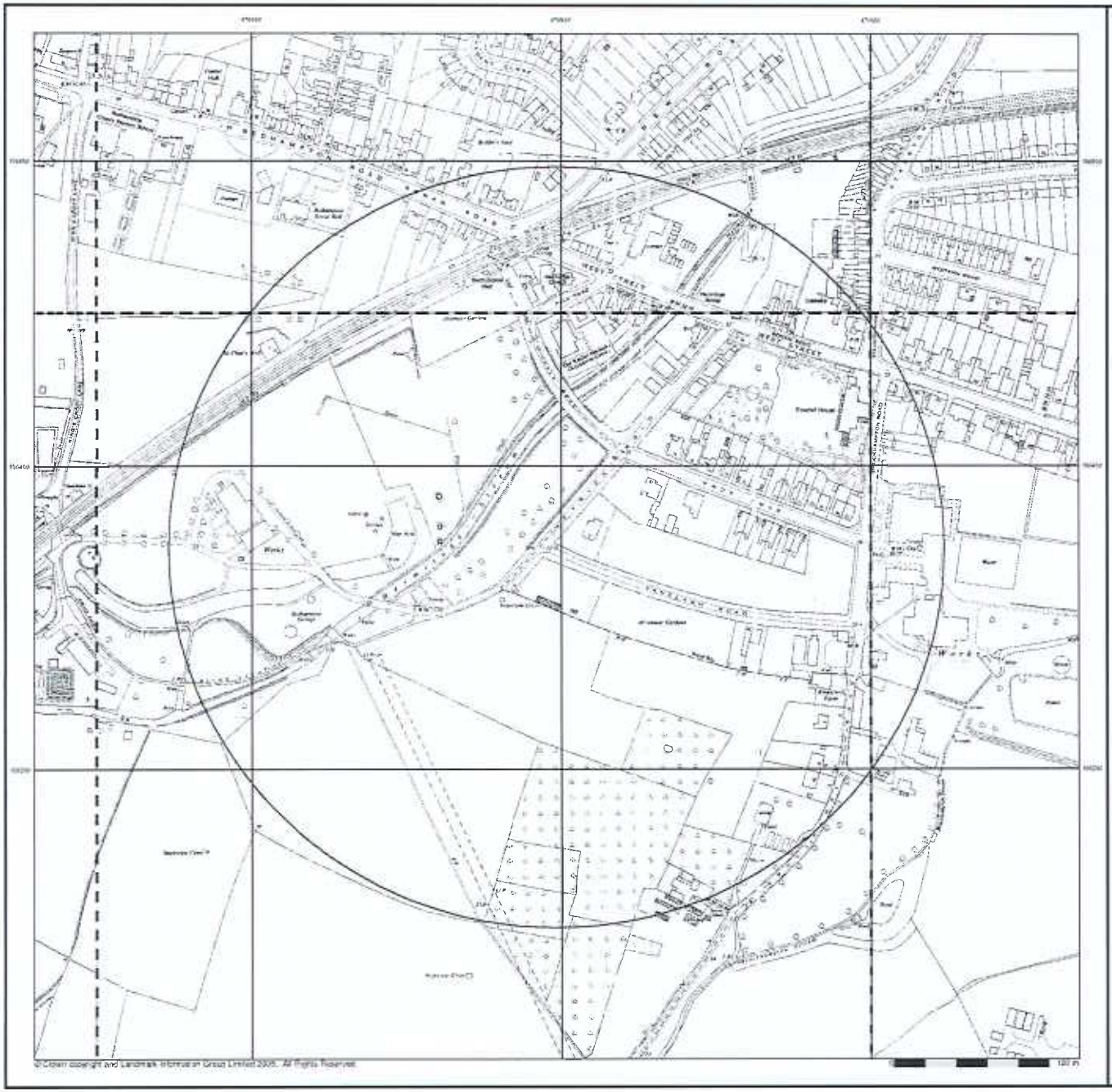
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|---|---|
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| Slice: | A |
| Site Area (Ha): | 0.01 |
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## Ordnance Survey Plan
## Published 1959 - 1960
## Source map scale - 1:1,250

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



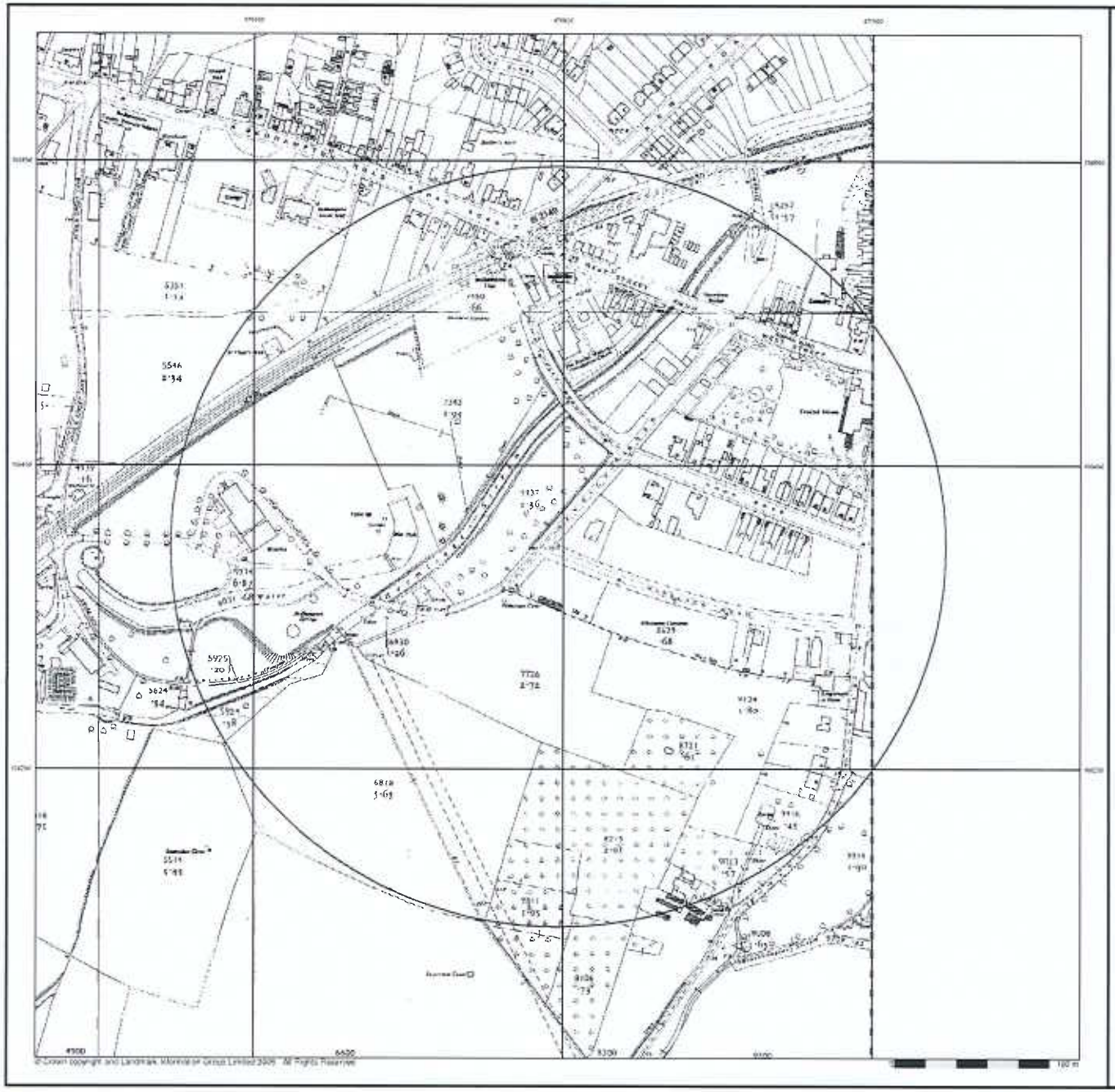

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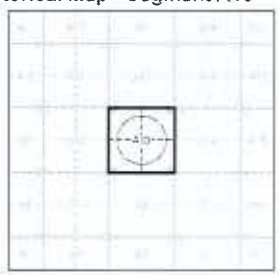
## Ordnance Survey Plan
## Published 1961
## Source map scale - 1:2,500

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 1936, 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

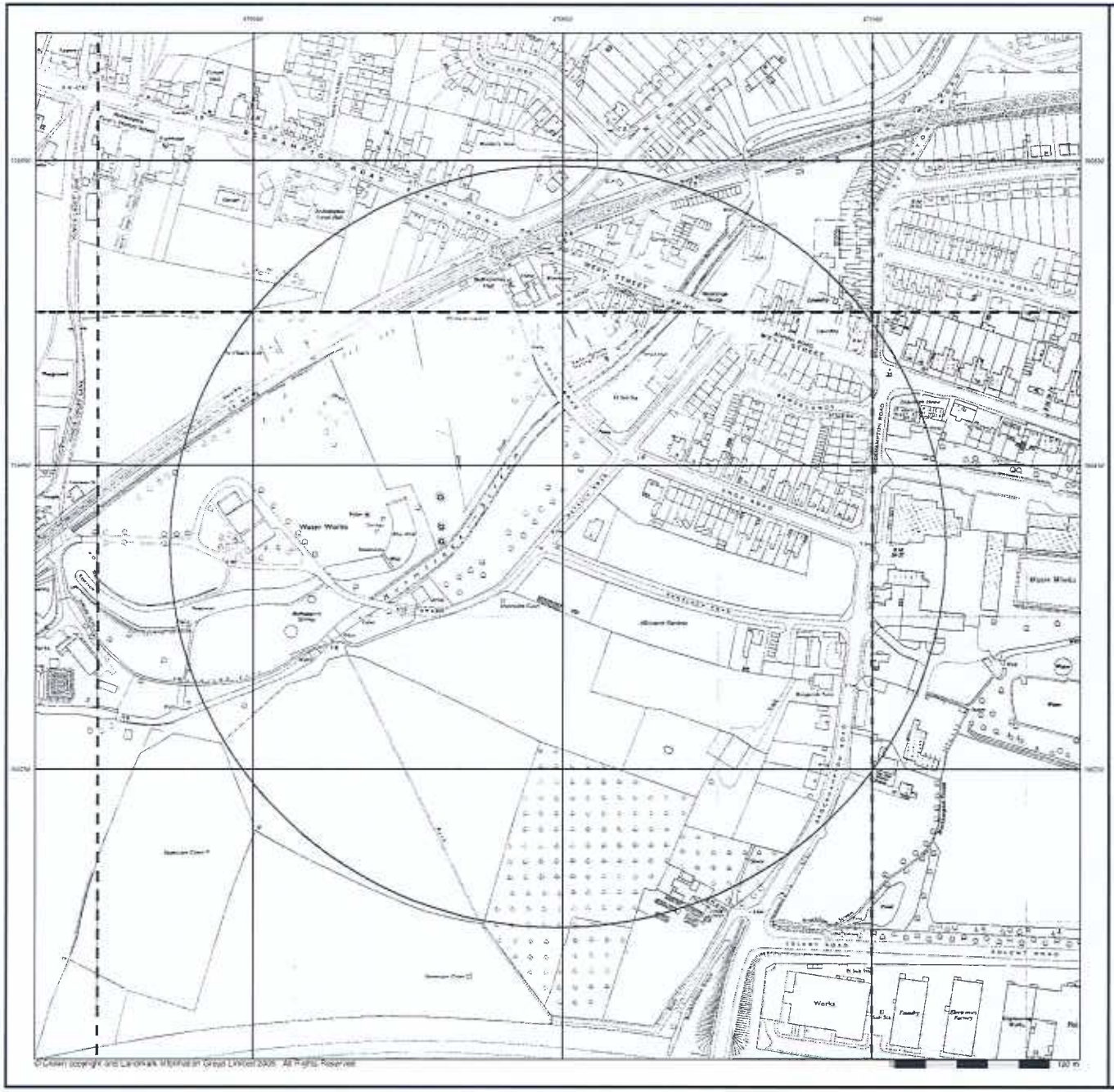



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| Site Area (Ha): | 0.01 |
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## Ordnance Survey Plan
## Published 1963 - 1973
## Source map scale - 1:1,250

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)

| | | |
|---|---|---|
| SU7006NW 1963 1:1,250 | SU7006NE 1963 1:1,250 | SU7106NW 1969 1:1,250 |
| SU7006SW 1973 1:1,250 | SU7006SE 1969 1:1,250 | SU7106SW 1969 1:1,250 |

### Historical Map - Segment A13



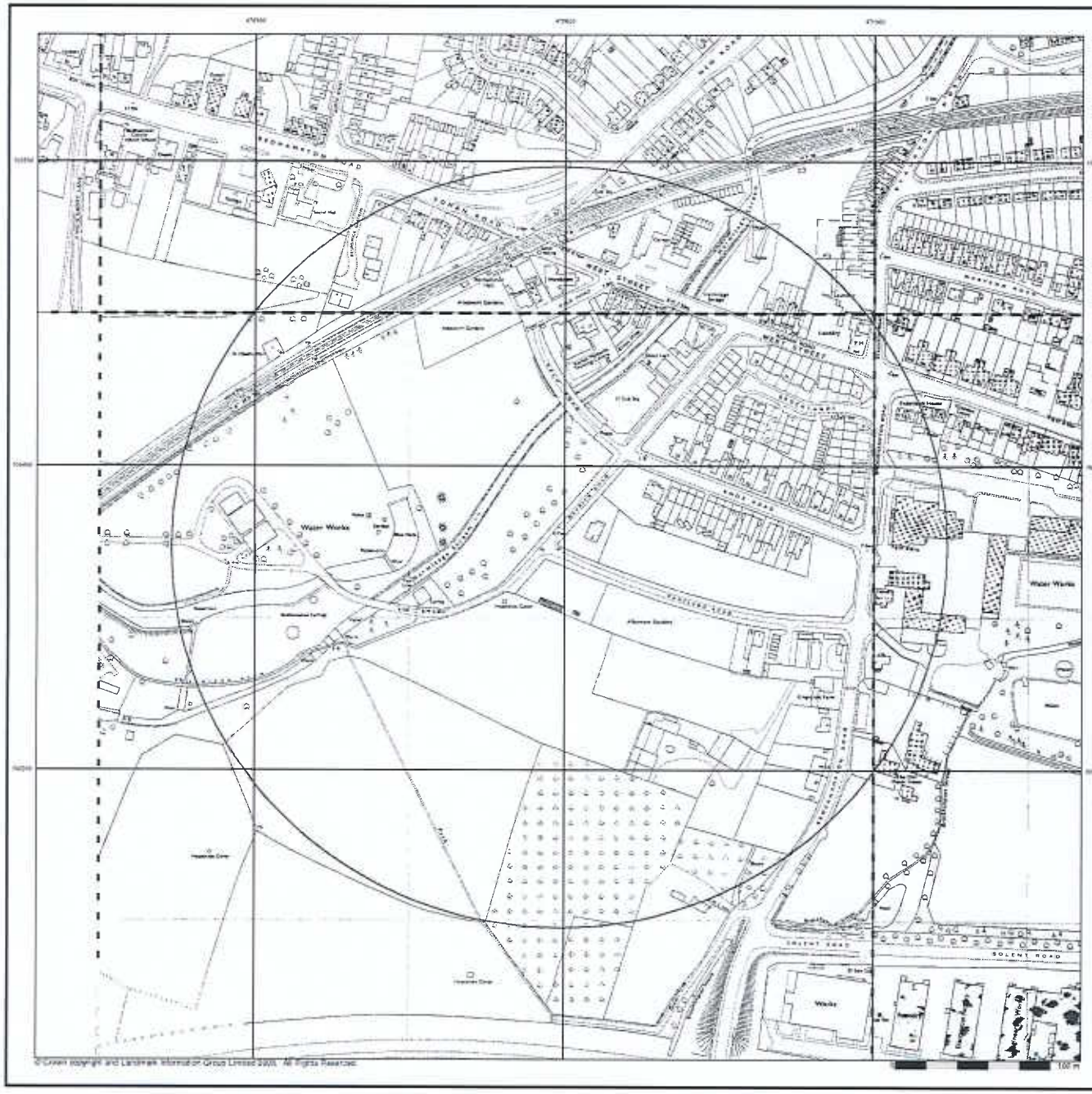

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| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

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## Ordnance Survey Plan
## Published 1973
## Source map scale - 1:1,250

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



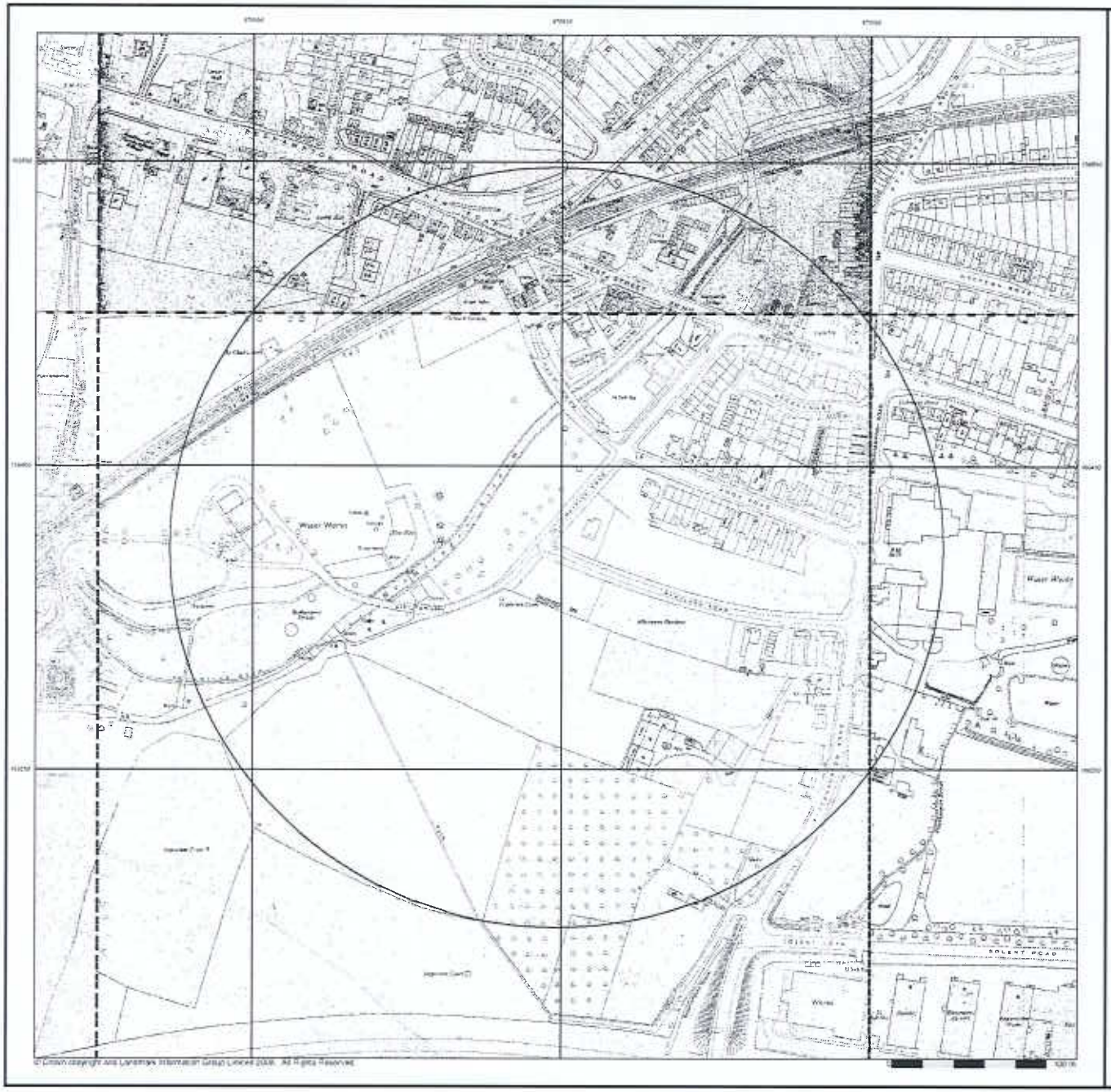

### Order Details

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| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

### Site Details

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## Supply of Unpublished Survey Information

## Published 1973

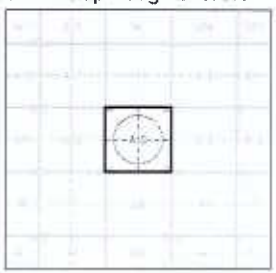
## Source map scale - 1:1,250

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

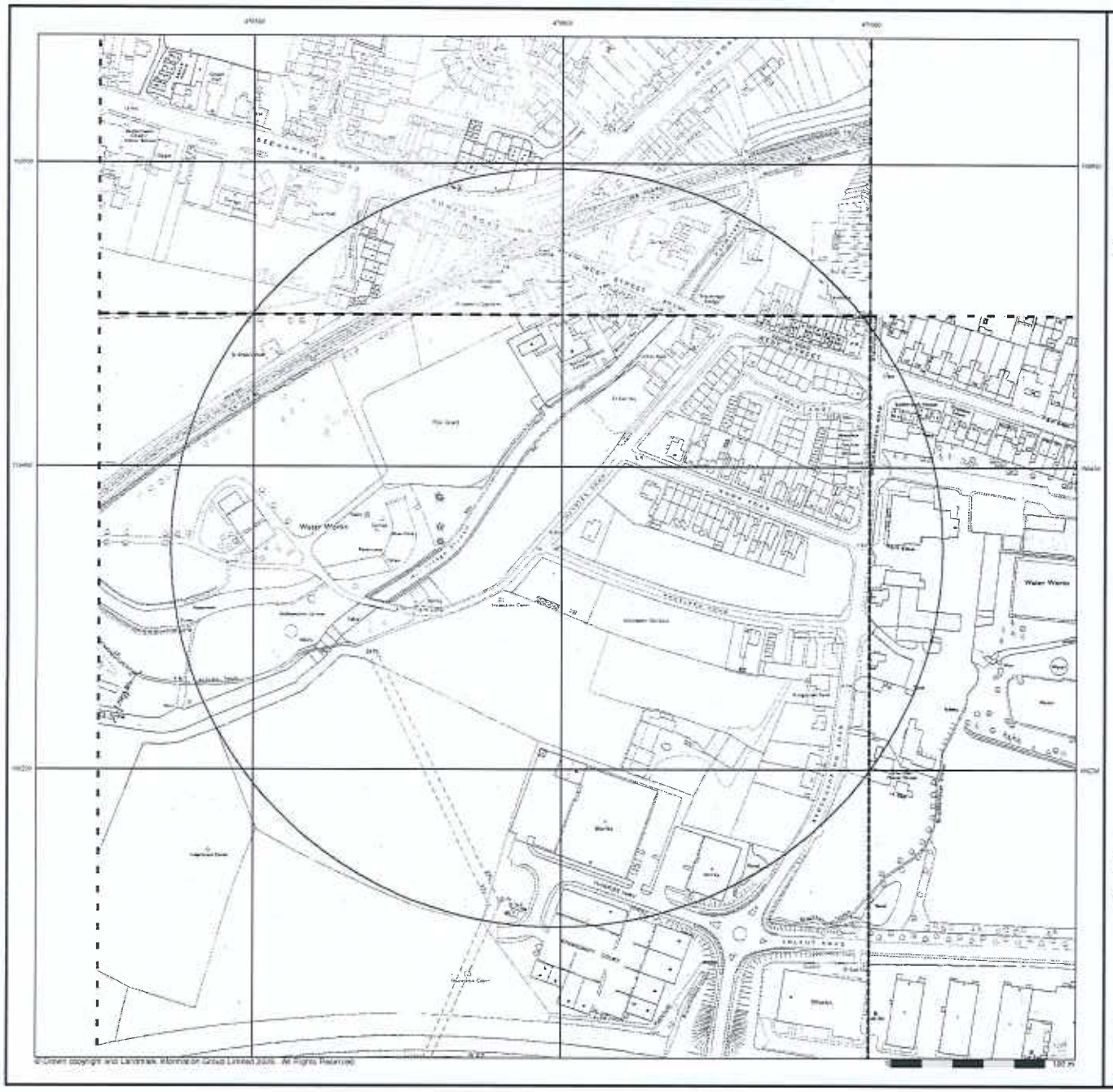
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| Search Buffer (m): | 250 |

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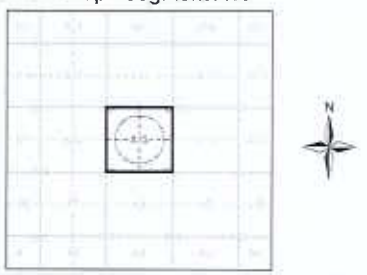
## Additional SIMs
## Published 1978 - 1989
## Source map scale - 1:1,250

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

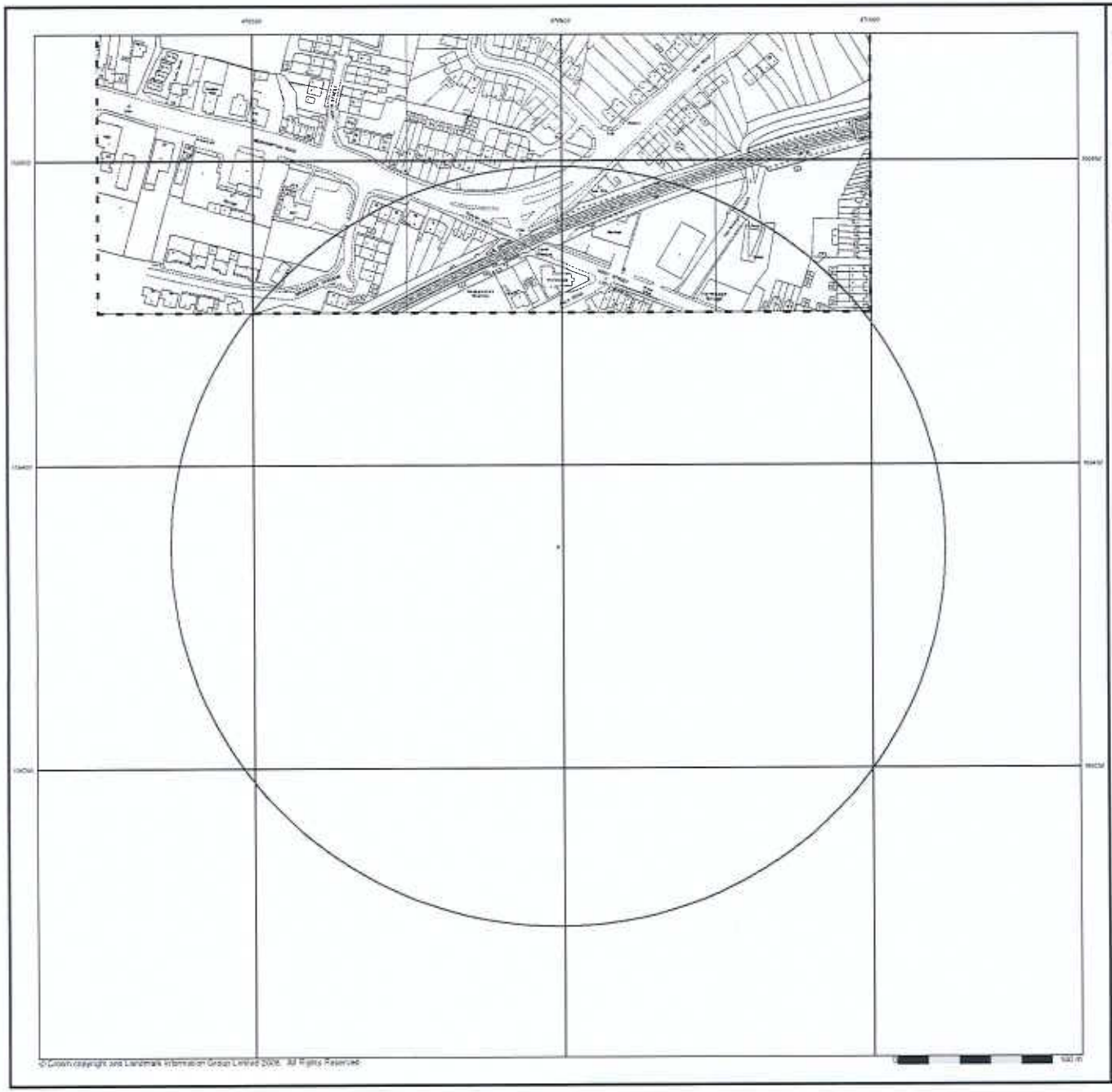



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## Additional SIMs
## Published 1991
## Source map scale - 1:1,250

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)

SUTTONINE
1991
1:1,250

### Historical Map - Segment A13



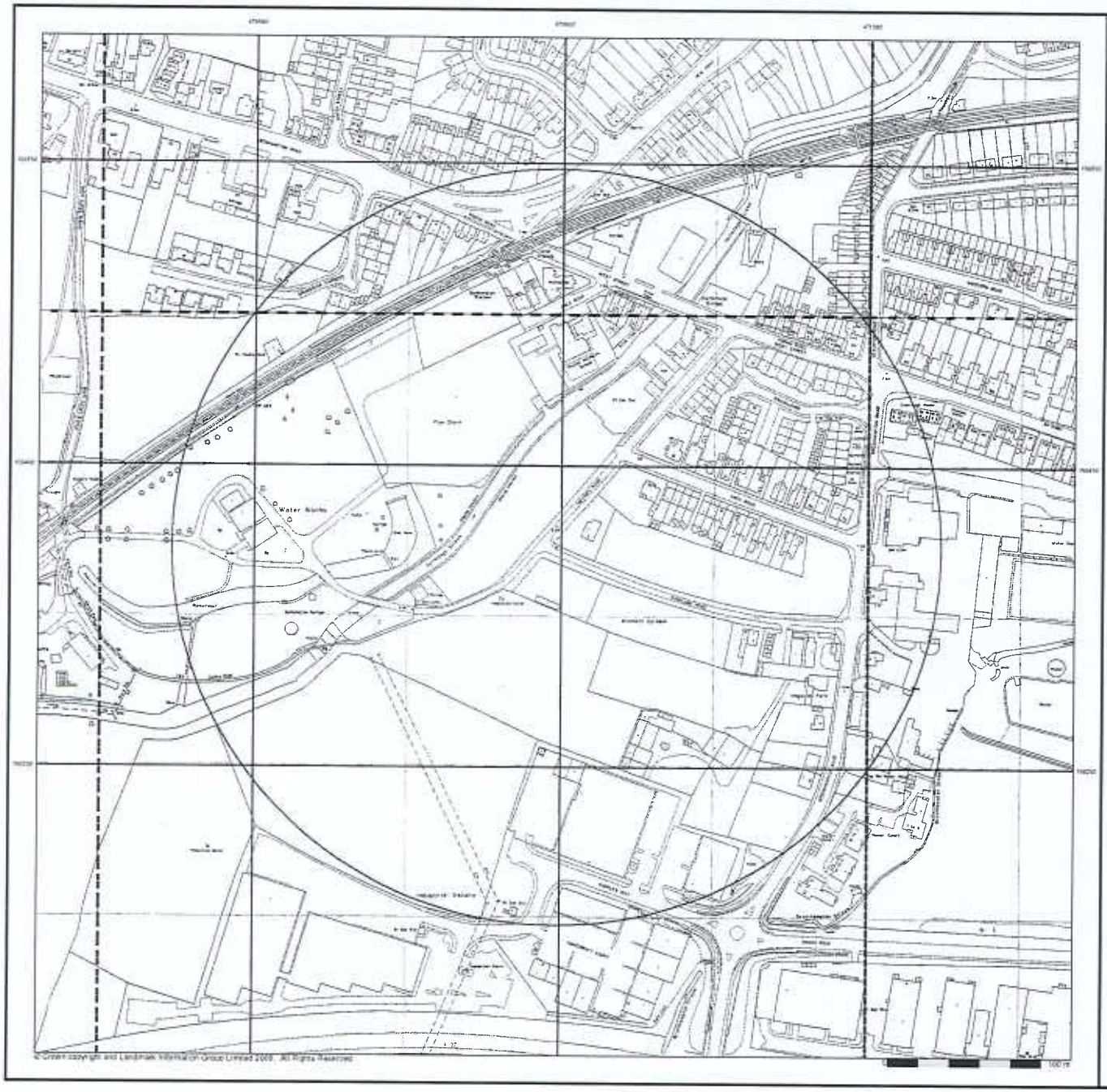
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## Large-Scale National Grid Data
## Published 1993
## Source map scale - 1:1,250

'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)

| | | |
|---|---|---|
| SU7006NW 1993 1:1,250 | SU7006NE 1993 1:1,250 | SU7106NW 1993 1:1,250 |
| SU7006SW 1993 1:1,250 | SU7006SE 1993 1:1,250 | SU7106SW 1993 1:1,250 |

### Historical Map - Segment A13



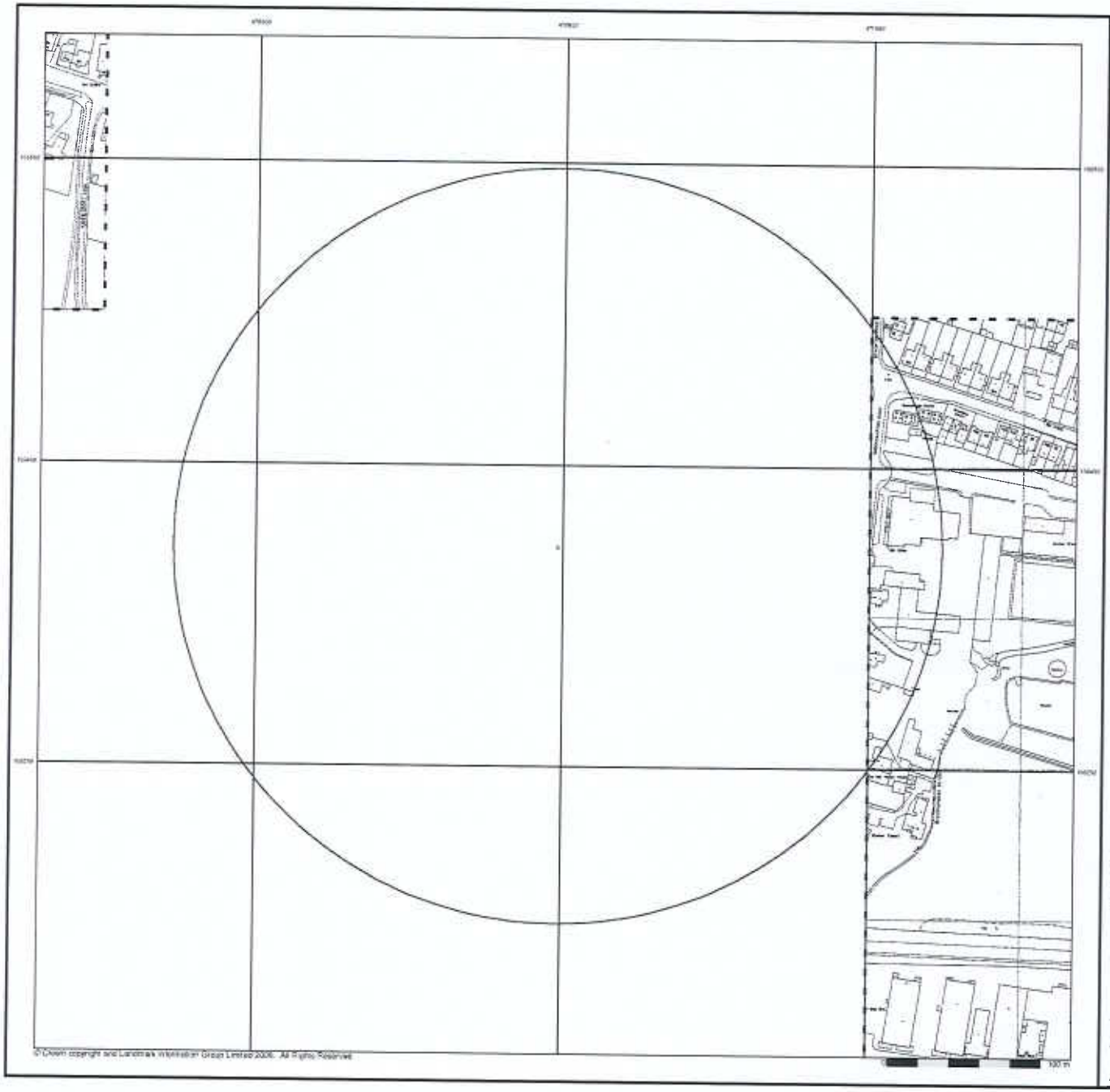

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| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

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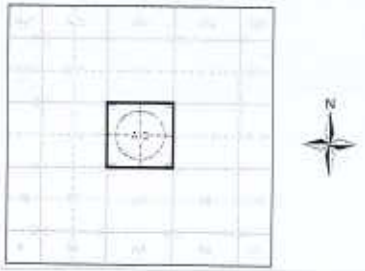
## Large-Scale National Grid Data
## Published 1995 - 1997
## Source map scale - 1:1,250

'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

| | |
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| Order Number: | 27638420_1_1 |
| Customer Ref: | 49318640 |
| National Grid Reference: | 470800, 106350 |
| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 250 |

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**Appendix B**
**Landmark Envirocheck Report**

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# Envirocheck® Report: Datasheet

## Order Details:

**Order Number:**
27638420_1_1

**Customer Reference:**
49318640

**National Grid Reference:**
470800, 106350

**Slice:**
A

**Site Area (Ha):**
0.01

**Search Buffer (m):**
1000

## Site Details:

1 Ranelagh Road
HAVANT
Hampshire
PO9 1NR

## Client Details:

Mr S Silverthorn
URS Corporation Ltd
Crescent House
Yonge Close
Eastleigh
Hampshire
SO50 9SX

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**Introduction**

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

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


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**Report Version v36.0**

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Agency & Hydrological** | | | | | |
| Contaminated Land Register Entries and Notices | | | | | |
| Discharge Consents | pg 1 | | 3 | 14 | 44 |
| Enforcement and Prohibition Notices | | | | | |
| Integrated Pollution Controls | pg 16 | | | | 2 |
| Integrated Pollution Prevention And Control | pg 16 | | 2 | | 1 |
| Local Authority Integrated Pollution Prevention And Control | pg 17 | | | | 2 |
| Local Authority Pollution Prevention and Controls | pg 17 | | | 2 | 8 |
| Local Authority Pollution Prevention and Control Enforcements | | | | | |
| Nearest Surface Water Feature | pg 18 | | Yes | | |
| Pollution Incidents to Controlled Waters | pg 19 | | 1 | 3 | 13 |
| Prosecutions Relating to Authorised Processes | pg 21 | | 1 | | 1 |
| Prosecutions Relating to Controlled Waters | | | | | |
| Registered Radioactive Substances | pg 22 | | | 4 | 1 |
| River Quality | pg 22 | | 1 | | 1 |
| River Quality Biology Sampling Points | | | | | |
| River Quality Chemistry Sampling Points | pg 23 | | | | 1 |
| Substantiated Pollution Incident Register | | | | | |
| Water Abstractions | pg 23 | | 4 | 2 | |
| Water Industry Act Referrals | | | | | |
| Groundwater Vulnerability | pg 25 | Yes | n/a | n/a | n/a |
| Source Protection Zones | pg 25 | 1 | | 1 | |
| Extreme Flooding from Rivers or Sea without Defences | pg 25 | Yes | Yes | n/a | n/a |
| Flooding from Rivers or Sea without Defences | pg 26 | | Yes | 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 |
| **Waste** | | | | | |
| BGS Recorded Landfill Sites | | | | | |
| Historical Landfill Sites | pg 28 | | | | 2 |
| Integrated Pollution Control Registered Waste Sites | pg 28 | | | | 3 |
| Licensed Waste Management Facilities (Landfill Boundaries) | pg 28 | | 2 | | |
| Licensed Waste Management Facilities (Locations) | pg 29 | | 1 | 2 | 7 |
| Local Authority Recorded Landfill Sites | pg 31 | | | | 2 |
| Registered Landfill Sites | pg 32 | | 1 | | |
| Registered Waste Transfer Sites | pg 32 | | | 1 | 3 |
| Registered Waste Treatment or Disposal Sites | pg 34 | | | | 4 |

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **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 Recorded Mineral Sites | pg 37 | | | | 1 |
| BGS 1:625,000 Solid Geology | pg 37 | Yes | n/a | n/a | n/a |
| Brine Compensation Area | | | n/a | n/a | n/a |
| Coal Mining Affected Areas | | | n/a | n/a | n/a |
| Mining Instability | | | n/a | n/a | n/a |
| Natural and Mining Cavities | pg 37 | | | | 1 |
| Potential for Collapsible Ground Stability Hazards | pg 37 | Yes | Yes | n/a | n/a |
| Potential for Compressible Ground Stability Hazards | pg 37 | | Yes | n/a | n/a |
| Potential for Ground Dissolution Stability Hazards | pg 37 | Yes | Yes | [illegible] | n/a |
| Potential for Landslide Ground Stability Hazards | pg 37 | Yes | | [illegible] | n/a |
| Potential for Running Sand Ground Stability Hazards | pg 37 | Yes | Yes | [illegible] | n/a |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | | Yes | Yes | [illegible] | n/a |
| Radon Potential - Radon Affected Areas | | Yes | n/a | [illegible] | n/a |
| Radon Potential - Radon Protection Measures | | Yes | n/a | [illegible] | n/a |
| Shallow Mining Hazards | | | | [illegible] | n/a |
| **Industrial Land Use** | | | | | |
| Contemporary Trade Directory Entries | pg 39 | | 11 | 28 | 112 |
| Fuel Station Entries | pg 51 | | | 1 | 4 |

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# Summary

| Data Type<br>Sensitive Land Use | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| 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 | pg 53 | 1 | | | |
| Ramsar Sites | | | | | |
| Sites of Special Scientific Interest | | | | | |
| Special Areas of Conservation | | | | | |
| Special Protection Areas | | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Discharge Consents** | | | | | |
| 1 | Operator: | Seven Springs Ltd | A13SE (S) | 124 | 1 | 470840 106230 |
| | Property Type: | Wholesale Distribution Food/Drink/Tabacco | | | | |
| | Location: | Seven Springs Ltd, The Bottling Plant, Ranelagh Road, Bedhampton, Havant | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Supplied | | | | |
| | Reference: | P07982 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 2nd June 2000 | | | | |
| | Issued Date: | 2nd June 2000 | | | | |
| | Revocation Date: | 14th November 2003 | | | | |
| | Discharge Type: | Trade Discharge - Process Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |
| | **Discharge Consents** | | | | | |
| 2 | Operator: | Southern Water Services Ltd (H) | A13NW (W) | 197 | 1 | 470600 106350 |
| | Property Type: | Sewerage Network - Sewers - Water Company | | | | |
| | Location: | Park Lane, Bedhampton Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Supplied | | | | |
| | Reference: | A00316 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 1st April 1991 | | | | |
| | Issued Date: | 1st April 1991 | | | | |
| | Revocation Date: | 14th January 1993 | | | | |
| | Discharge Type: | Public Sewage: Storm Sewage Overflow | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Post National Rivers Authority Legislation where issue date > 31/08/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |
| | **Discharge Consents** | | | | | |
| 3 | Operator: | Seward (Havant) Ltd. | A13NE (NE) | 206 | 1 | 470890 106530 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Millington Fields Site, West Street, Havant, Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | N01098 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 18th May 1983 | | | | |
| | Issued Date: | 18th May 1983 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Pre National Rivers Authority Legislation where issue date < 01/09/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 4 | Operator: | Wiggins Homes Group Plc. | A13SE (SE) | 300 | 1 | 471040 106170 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Manor Court, Brockhampton Road, Havant Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | P02242 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 31st July 1989 | | | | |
| | Issued Date: | 31st July 1989 | | | | |
| | Revocation Date: | 31st March 1997 | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Lapsed (under Environment Act 1995, Schedule 23)** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Discharge Consents** | | | | | |
| 4 | Operator: | Wiggins Homes Group Plc. | A13SE (SE) | 304 | 1 | 471020 106140 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Manor Court, Brockhampton Road, Havant Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | P02242 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 31st July 1989 | | | | |
| | Issued Date: | 31st July 1989 | | | | |
| | Revocation Date: | 31st March 1997 | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Lapsed (under Environment Act 1995, Schedule 23)** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 4 | Operator: | Wiggins Homes Group Plc. | A13SE (SE) | 304 | 1 | 471030 106150 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Manor Court, Brockhampton Road, Havant Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | P02242 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 31st July 1989 | | | | |
| | Issued Date: | 31st July 1989 | | | | |
| | Revocation Date: | 31st March 1997 | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Lapsed (under Environment Act 1995, Schedule 23)** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 5 | Operator: | Wiggins Homes Group Plc. | A13SE (SE) | 307 | 1 | 470950 106080 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Manor Court, Brockhampton Road, Havant Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | P02242 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 31st July 1989 | | | | |
| | Issued Date: | 31st July 1989 | | | | |
| | Revocation Date: | 31st March 1997 | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Lapsed (under Environment Act 1995, Schedule 23)** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 6 | Operator: | Kingscroft Management | A13SW (S) | 310 | 1 | 470750 106040 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Kingscroft Court, Marples Way Kingscroft Court, Marples Way, Havant, Hampshire, Po9 1ls | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Bidbury/Hermitage Streams | | | | |
| | Reference: | P00398 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 20th February 1986 | | | | |
| | Issued Date: | 20th February 1986 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Pre National Rivers Authority Legislation where issue date < 01/09/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 7 | Operator: Kingscroft Management<br>Property Type: Undefined Or Other<br>Location: Kingscroft Court, Marples Way Kingscroft Court, Marples Way, Havant, Hampshire, Po9 1ls<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Bidbury/Hermitage Streams<br>Reference: P00398<br>Permit Version: 1<br>Effective Date: 20th February 1986<br>Issued Date: 20th February 1986<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A13SE (S) | 312 | 1 | 470860 106040 |
| | **Discharge Consents** | | | | |
| 8 | Operator: De La Rue Systems<br>Property Type: Undefined Or Other<br>Location: High Technology Campus, Langstone Gate, Solent Road, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00174<br>Permit Version: 1<br>Effective Date: 7th August 1985<br>Issued Date: 7th August 1985<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A13SW (SW) | 400 | 1 | 470580 106010 |
| | **Discharge Consents** | | | | |
| 9 | Operator: De La Rue Systems<br>Property Type: Undefined Or Other<br>Location: High Technology Campus, Langstone Gate, Solent Road, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00174<br>Permit Version: 1<br>Effective Date: 7th August 1985<br>Issued Date: 7th August 1985<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (SW) | 403 | 1 | 470590 106000 |
| | **Discharge Consents** | | | | |
| 9 | Operator: De La Rue Systems<br>Property Type: Undefined Or Other<br>Location: High Technology Campus, Langstone Gate, Solent Road, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00174<br>Permit Version: 1<br>Effective Date: 7th August 1985<br>Issued Date: 7th August 1985<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (SW) | 425 | 1 | 470580 105980 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 9 | Operator: De La Rue Systems<br>Property Type: Undefined Or Other<br>Location: High Technology Campus, Langstone Gate, Solent Road, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00174<br>Permit Version: 1<br>Effective Date: 7th August 1985<br>Issued Date: 7th August 1985<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (SW) | 439 | 1 | 470570 105970 |
| | **Discharge Consents** | | | | |
| 10 | Operator: Aep (Hampshire) Ltd (Hmip)<br>Property Type: Incinerators<br>Location: Brockhampton Incinerator, Harts Farm Way, Havant, Hampshire, Po9 1jn<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: Ag8276<br>Permit Version: 1<br>Effective Date: 13th May 1993<br>Issued Date: 13th May 1993<br>Revocation Date: 6th March 1998<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 454 | 1 | 470640 105920 |
| | **Discharge Consents** | | | | |
| 11 | Operator: De La Rue Systems<br>Property Type: Undefined Or Other<br>Location: High Technology Campus, Langstone Gate, Solent Road, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00174<br>Permit Version: 1<br>Effective Date: 7th August 1985<br>Issued Date: 7th August 1985<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (SW) | 458 | 1 | 470550 105960 |
| | **Discharge Consents** | | | | |
| 11 | Operator: De La Rue Systems<br>Property Type: Undefined Or Other<br>Location: High Technology Campus, Langstone Gate, Solent Road, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00174<br>Permit Version: 1<br>Effective Date: 7th August 1985<br>Issued Date: 7th August 1985<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (SW) | 477 | 1 | 470530 105950 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 12 | Operator: North Shore Yacht Yards Ltd.<br>Property Type: Undefined Or Other<br>Location: Boshampton Lane, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01265<br>Permit Version: 1<br>Effective Date: 5th May 1978<br>Issued Date: 5th May 1978<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NE (S) | 473 | 1 | 470880 105880 |
| | **Discharge Consents** | | | | |
| 13 | Operator: Mr D & Mrs J Kelly<br>Property Type: Domestic Property (Single)<br>Location: The Old Mill House, Mill Lane, Bedhampton, Havant, Hampshire, Po9 3jh<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: D01551<br>Permit Version: 1<br>Effective Date: 2nd July 1987<br>Issued Date: 2nd July 1987<br>Revocation Date: 18th April 1996<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A12SE (SW) | 546 | 1 | 470320 106080 |
| | **Discharge Consents** | | | | |
| 14 | Operator: Alfred Stent & Son (Havant) Ltd<br>Property Type: Undefined Or Other<br>Location: Brockhampton Stream<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: H02821<br>Permit Version: 1<br>Effective Date: 12th April 1957<br>Issued Date: 12th April 1957<br>Revocation Date: 1st July 1991<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 584 | 1 | 470590 105800 |
| | **Discharge Consents** | | | | |
| 14 | Operator: Hampshire Waste Services<br>Property Type: Incinerators<br>Location: Havant Incinerator, Harts Farm Way, Havant, Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01273<br>Permit Version: 1<br>Effective Date: 5th January 1978<br>Issued Date: 5th January 1978<br>Revocation Date: 31st March 1997<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Lapsed (under Environment Act 1995, Schedule 23)**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (S) | 606 | 1 | 470580 105780 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 15 | Operator: Havant Business Centre Management<br>Property Type: Horticulture Est. Nursery Gardens<br>Location: Nursery Units, Harts Farm Way South Side, Brockhampton, HAVANT , Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01080<br>Permit Version: 1<br>Effective Date: 26th November 1984<br>Issued Date: 26th November 1984<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NE (S) | 588 | 1 | 470850 105760 |
| | **Discharge Consents** | | | | |
| 16 | Operator: A & J Bull (Southern) Ltd<br>Property Type: Extraction Of Other Minerals<br>Location: Lorry Park West Of Southmoor Lan, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P07079r<br>Permit Version: 1<br>Effective Date: 13th May 1998<br>Issued Date: 13th May 1998<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 608 | 1 | 470750 105740 |
| | **Discharge Consents** | | | | |
| 16 | Operator: Goldail Ltd.<br>Property Type: Extraction Of Other Minerals<br>Location: Lorry Park West Of Southmoor Lan, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P02498<br>Permit Version: 2<br>Effective Date: 18th January 1996<br>Issued Date: 18th January 1996<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 608 | 1 | 470750 105740 |
| | **Discharge Consents** | | | | |
| 16 | Operator: Goldail Ltd.<br>Property Type: Extraction Of Other Minerals<br>Location: Lorry Park West Of Southmoor Lan, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P02498<br>Permit Version: 1<br>Effective Date: 3rd August 1989<br>Issued Date: 3rd August 1989<br>Revocation Date: 18th January 1996<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (S) | 608 | 1 | 470750 105740 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 16 | Operator: O.C. Summers Ltd.<br>Property Type: Undefined Or Other<br>Location: Harts Farm Way, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01222<br>Permit Version: 1<br>Effective Date: 30th January 1980<br>Issued Date: 30th January 1980<br>Revocation Date: 31st March 1997<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status:** **Lapsed (under Environment Act 1995, Schedule 23)**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (S) | 631 | 1 | 470720 105720 |
| | **Discharge Consents** | | | | |
| 16 | Operator: J M Bussell Ltd.<br>Property Type: Undefined Or Other<br>Location: Harts Farm Way, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P00386<br>Permit Version: 1<br>Effective Date: 24th February 1986<br>Issued Date: 24th February 1986<br>Revocation Date: 27th September 2005<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status:** **Consent revoked: Discharge ceased (Section 37(1))**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (S) | 642 | 1 | 470710 105710 |
| | **Discharge Consents** | | | | |
| 16 | Operator: Southern Water Services Ltd<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Sewage Disposal Works, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Bidbury/Hermitage Streams<br>Reference: A00752<br>Permit Version: 1<br>Effective Date: 10th June 2002<br>Issued Date: 10th June 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Unspecified - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 651 | 1 | 470720 105700 |
| | **Discharge Consents** | | | | |
| 16 | Operator: The Occupier<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Sewage Disposal Works, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: H01182<br>Permit Version: 1<br>Effective Date: 10th April 1969<br>Issued Date: 10th April 1969<br>Revocation Date: 31st March 1997<br>Discharge Type: Non Water Company (Private) Sewage<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status:** **Lapsed (under Environment Act 1995, Schedule 23)**<br>Positional Accuracy: Located by supplier to within 100m | A8NW (S) | 651 | 1 | 470720 105700 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 17 | Operator: Hopkins Recycling Ltd<br>Property Type: Unspecified Tip<br>Location: Havant Hw Recycling Centre, Harts Farm Way, Havant, Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P07333<br>Permit Version: 1<br>Effective Date: 12th September 2000<br>Issued Date: 12th September 2000<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (SW) | 639 | 1 | 470500 105780 |
| | **Discharge Consents** | | | | |
| 17 | Operator: HAMPSHIRE WASTE SERVICES<br>Property Type: Incinerators<br>Location: OLD HAVANT INCINERATOR SITE, HARTS FARM WAY, HAVANT, HAMPSHIRE<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P07788<br>Permit Version: 1<br>Effective Date: 10th December 1999<br>Issued Date: 10th December 1999<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (SW) | 666 | 1 | 470500 105750 |
| | **Discharge Consents** | | | | |
| 18 | Operator: Scottish & Southern Energy Plc<br>Property Type: Production & Distribution Of Electricity<br>Location: 132/133kv Substation, Harts Fm Way Scottish & Southern Energy Ltd, Harts Farm Way, Havant, Hampshire, Po9 1jn<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Bidbury/Hermitage Streams<br>Reference: G00517<br>Permit Version: 1<br>Effective Date: 14th June 2005<br>Issued Date: 14th June 2005<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent Discharge-Site Drainage<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Groundwater Via Soakaway<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 641 | 1 | 470647 105723 |
| | **Discharge Consents** | | | | |
| 19 | Operator: Southern Water Services Ltd<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Bidbury/Hermitage Streams<br>Reference: A00752<br>Permit Version: 1<br>Effective Date: 10th June 2002<br>Issued Date: 10th June 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge Environment: Saline Estuary<br>Receiving Water: Brockhampton Creek<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 693 | 1 | 470700 105660 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Discharge Consents** | | | | | |
| 20 | Operator: | Tarmac Ltd. | A8SW (SW) | 737 | 1 | 470510 105667 |
| | Property Type: | Extraction Of Stone, Gravel Etc. | | | | |
| | Location: | Bedhampton Quay, Harts Farm Way Bedhampton Quay, Harts Farm Way, Havant, Hampshire, Po9 1jn | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Bidbury/Hermitage Streams | | | | |
| | Reference: | G01127 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 2nd April 2007 | | | | |
| | Issued Date: | 2nd April 2007 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Sewage Discharges - Final/Treated Effluent - Not Water Company | | | | |
| | Discharge Environment: | Land/Soakaway | | | | |
| | Receiving Water: | Groundwater Via Soakaway | | | | |
| | **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 | | | | |
| | **Discharge Consents** | | | | | |
| 21 | Operator: | Hanson Quarry Products Ltd | A7NE (SW) | 740 | 1 | 470320 105780 |
| | Property Type: | Ready Mixed Concrete | | | | |
| | Location: | Land At Bedhampton Quay, Harts Farm Way, Havant, Hampshire, Po9 1jn | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Supplied | | | | |
| | Reference: | P03515 | | | | |
| | Permit Version: | 2 | | | | |
| | Effective Date: | 13th June 1997 | | | | |
| | Issued Date: | 13th June 1997 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Trade Effluent | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | Saline Estuary | | | | |
| | **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 | | | | |
| | **Discharge Consents** | | | | | |
| 21 | Operator: | Pioneer | A7NE (SW) | 740 | 1 | 470320 105780 |
| | Property Type: | Ready Mixed Concrete | | | | |
| | Location: | Land At Bedhampton Quay, Harts Farm Way, Havant, Hampshire, Po9 1jn | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | P03515 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 4th June 1991 | | | | |
| | Issued Date: | 4th June 1991 | | | | |
| | Revocation Date: | 13th June 1997 | | | | |
| | Discharge Type: | Trade Effluent | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | Saline Estuary | | | | |
| | **Status:** | **Post National Rivers Authority Legislation where issue date > 31/08/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 22 | Operator: | Southern Water Services Ltd (H) | A8SW (S) | 749 | 1 | 470660 105610 |
| | Property Type: | Sewage Disposal Works - Water Company | | | | |
| | Location: | Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Lavant | | | | |
| | Reference: | A00751 | | | | |
| | Permit Version: | 6 | | | | |
| | Effective Date: | 31st March 2008 | | | | |
| | Issued Date: | 6th March 2008 | | | | |
| | Revocation Date: | 31st March 2012 | | | | |
| | Discharge Type: | Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | The Solent/Langstone Harbour | | | | |
| | **Status:** | **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 22 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Lavant<br>Reference: A00751<br>Permit Version: 7<br>Effective Date: 1st April 2012<br>Issued Date: 6th March 2008<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent/Langstone Harbour<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 749 | 1 | 470660 105610 |
| | **Discharge Consents** | | | | |
| 22 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 5<br>Effective Date: 20th December 2005<br>Issued Date: 20th December 2005<br>Revocation Date: 30th March 2008<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent/Langstone Harbour<br>**Status: Consent Currently Under Appeal**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 749 | 1 | 470660 105610 |
| | **Discharge Consents** | | | | |
| 22 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 4<br>Effective Date: 15th December 2005<br>Issued Date: 15th December 2005<br>Revocation Date: 19th December 2005<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 749 | 1 | 470660 105610 |
| | **Discharge Consents** | | | | |
| 22 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 3<br>Effective Date: 14th December 2004<br>Issued Date: 14th December 2004<br>Revocation Date: 14th December 2005<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 749 | 1 | 470660 105610 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 22 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 2<br>Effective Date: 3rd September 2002<br>Issued Date: 3rd September 2002<br>Revocation Date: 13th December 2004<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 749 | 1 | 470660 105610 |
| | **Discharge Consents** | | | | |
| 22 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 1<br>Effective Date: 10th June 2002<br>Issued Date: 10th June 2002<br>Revocation Date: 3rd September 2002<br>Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 749 | 1 | 470660 105610 |
| | **Discharge Consents** | | | | |
| 23 | Operator: SOUTHERN WATER SERVICES LTD<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wtw, Southmoor Lane, Havant, Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: A00915<br>Permit Version: 1<br>Effective Date: 28th October 1999<br>Issued Date: 28th October 1999<br>Revocation Date: 7th August 2003<br>Discharge Type: Groundwater - Unspecified<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 752 | 1 | 470600 105620 |
| | **Discharge Consents** | | | | |
| 24 | Operator: Mr D.S. Hughes F.R.I.C.S.<br>Property Type: Undefined Or Other<br>Location: 62-66 West Street, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01171<br>Permit Version: 1<br>Effective Date: 4th June 1982<br>Issued Date: 4th June 1982<br>Revocation Date: 31st March 1997<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Lapsed (under Environment Act 1995, Schedule 23)**<br>Positional Accuracy: Located by supplier to within 100m | A14SE (E) | 754 | 1 | 471550 106320 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Discharge Consents** | | | | | |
| 25 | Operator: | Havant Borough Council | A14NE (E) | 805 | 1 | 471600 106400 |
| | Property Type: | Extraction Of Other Minerals | | | | |
| | Location: | Bus Station At Elm Road, Havant Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Supplied | | | | |
| | Reference: | N01228 | | | | |
| | Permit Version: | 2 | | | | |
| | Effective Date: | 14th February 1996 | | | | |
| | Issued Date: | 14th February 1996 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Trade Effluent Discharge-Site Drainage | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | Saline Estuary | | | | |
| | **Status:** | **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 25 | Operator: | Stagecoach (South) Ltd | A14NE (E) | 805 | 1 | 471600 106400 |
| | Property Type: | Extraction Of Other Minerals | | | | |
| | Location: | Bus Station At Elm Road, Havant Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Given | | | | |
| | Reference: | N01228 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 26th November 1979 | | | | |
| | Issued Date: | 26th November 1979 | | | | |
| | Revocation Date: | 14th February 1996 | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | Saline Estuary | | | | |
| | **Status:** | **Pre National Rivers Authority Legislation where issue date < 01/09/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Discharge Consents** | | | | | |
| 26 | Operator: | Solent Aggregates Ltd | A7SE (SW) | 840 | 1 | 470434 105588 |
| | Property Type: | Extraction Of Stone, Gravel Etc. | | | | |
| | Location: | Bedhampton Quay, Harts Farm Way Bedhampton Quay, Harts Farm Way, Havant, Hampshire, Po9 1jn | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Bidbury/Hermitage Streams | | | | |
| | Reference: | G01141 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 3rd July 2007 | | | | |
| | Issued Date: | 3rd July 2007 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Trade Effluent Discharge-Site Drainage | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | Hermitage Stream | | | | |
| | **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 | | | | |
| | **Discharge Consents** | | | | | |
| 27 | Operator: | Hanson Aggregates Uk | A8SW (S) | 884 | 1 | 470510 105510 |
| | Property Type: | Undefined Or Other | | | | |
| | Location: | Bedhampton Plant, Harts Farm Way, HAVANT, Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Bidbury/Hermitage Streams | | | | |
| | Reference: | P04007 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 28th January 1992 | | | | |
| | Issued Date: | 28th January 1992 | | | | |
| | Revocation Date: | Not Supplied | | | | |
| | Discharge Type: | Trade Discharge - Process Water | | | | |
| | Discharge Environment: | Saline Estuary | | | | |
| | Receiving Water: | Saline Estuary | | | | |
| | **Status:** | **Post National Rivers Authority Legislation where issue date > 31/08/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 27 | Operator: Solent Aggregates Ltd<br>Property Type: Extraction Of Stone, Gravel Etc.<br>Location: Bedhampton Quay, Harts Farm Way Bedhampton Quay, Harts Farm Way, Havant, Hampshire, Po9 1jn<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Bidbury/Hermitage Streams<br>Reference: P03532<br>Permit Version: 1<br>Effective Date: 4th June 1991<br>Issued Date: 4th June 1991<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Discharge - Mineral Workings<br>Discharge Environment: Saline Estuary<br>Receiving Water: Brockhampton Stream<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 884 | 1 | 470510 105510 |
| | **Discharge Consents** | | | | |
| 28 | Operator: Hampshire Education Committee<br>Property Type: Education<br>Location: Trosnant County Junior School, Havant Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: H01030<br>Permit Version: 1<br>Effective Date: 18th October 1963<br>Issued Date: 18th October 1963<br>Revocation Date: 6th March 1996<br>Discharge Type: Discharge Of Other Matter-Swimming Pool Contents<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A19NW (NE) | 923 | 1 | 471250 107150 |
| | **Discharge Consents** | | | | |
| 29 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Lavant<br>Reference: A00751<br>Permit Version: 6<br>Effective Date: 31st March 2008<br>Issued Date: 6th March 2008<br>Revocation Date: 31st March 2012<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent/Langstone Harbour<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 947 | 1 | 470750 105400 |
| | **Discharge Consents** | | | | |
| 29 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Lavant<br>Reference: A00751<br>Permit Version: 7<br>Effective Date: 1st April 2012<br>Issued Date: 6th March 2008<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent/Langstone Harbour<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 947 | 1 | 470750 105400 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 29 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 5<br>Effective Date: 20th December 2005<br>Issued Date: 20th December 2005<br>Revocation Date: 30th March 2008<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent/Langstone Harbour<br>**Status: Consent Currently Under Appeal**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 947 | 1 | 470750 105400 |
| | **Discharge Consents** | | | | |
| 29 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 4<br>Effective Date: 15th December 2005<br>Issued Date: 15th December 2005<br>Revocation Date: 19th December 2005<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 947 | 1 | 470750 105400 |
| | **Discharge Consents** | | | | |
| 29 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 3<br>Effective Date: 14th December 2004<br>Issued Date: 14th December 2004<br>Revocation Date: 14th December 2005<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 947 | 1 | 470750 105400 |
| | **Discharge Consents** | | | | |
| 29 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewage Disposal Works - Water Company<br>Location: Budds Farm Wwtw, Southmoor Lane, Havant, Hampshire, Po9 1jw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Solent<br>Reference: A00751<br>Permit Version: 1<br>Effective Date: 10th June 2002<br>Issued Date: 10th June 2002<br>Revocation Date: 3rd September 2002<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company<br>Discharge Environment: Saline Estuary<br>Receiving Water: The Solent Or Langstone Harbr<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Manually positioned within the geographical locality | A8SW (S) | 947 | 1 | 470750 105400 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Discharge Consents** | | | | |
| 30 | Operator: Havant International Ltd<br>Property Type: Office/Data Proc Equip Manufacture<br>Location: Langstone Road, Havant, Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: N01162<br>Permit Version: 2<br>Effective Date: 17th March 1995<br>Issued Date: 17th March 1995<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A9NE (SE) | 954 | 1 | 471480 105680 |
| | **Discharge Consents** | | | | |
| 30 | Operator: Xyratex<br>Property Type: Office/Data Proc Equip Manufacture<br>Location: Langstone Road, Havant, Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01162<br>Permit Version: 1<br>Effective Date: 27th October 1982<br>Issued Date: 27th October 1982<br>Revocation Date: 17th March 1995<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A9NE (SE) | 954 | 1 | 471480 105680 |
| | **Discharge Consents** | | | | |
| 31 | Operator: Southern Water Services Ltd (H)<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Bedhampton Hill, Bedhampton Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: A00315<br>Permit Version: 1<br>Effective Date: 1st April 1991<br>Issued Date: 1st April 1991<br>Revocation Date: 6th March 1996<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge Environment: Saline Estuary<br>Receiving Water: Saline Estuary<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A12SW (W) | 957 | 1 | 469840 106310 |
| | **Discharge Consents** | | | | |
| 32 | Operator: Havant International Ltd<br>Property Type: Office/Data Proc Equip Manufacture<br>Location: Office Car Park, Phase 6, Langstone Road, Havant, Hampshire<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: N01268<br>Permit Version: 2<br>Effective Date: 17th March 1995<br>Issued Date: 17th March 1995<br>Revocation Date: Not Supplied<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Freshwater River<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 100m | A9SW (SE) | 974 | 1 | 471280 105500 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Discharge Consents** | | | | | |
| 32 | Operator: | Xyratex | A9SW (SE) | 974 | 1 | 471280 105500 |
| | Property Type: | Office/Data Proc Equip Manufacture | | | | |
| | Location: | Office Car Park, Phase 6, Langstone Road, Havant, Hampshire | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Catchment Area: | Not Supplied | | | | |
| | Reference: | N01268 | | | | |
| | Permit Version: | 1 | | | | |
| | Effective Date: | 13th April 1978 | | | | |
| | Issued Date: | 13th April 1978 | | | | |
| | Revocation Date: | 17th March 1995 | | | | |
| | Discharge Type: | Discharge Of Other Matter-Surface Water | | | | |
| | Discharge Environment: | Freshwater Stream/River | | | | |
| | Receiving Water: | Freshwater River | | | | |
| | **Status:** | **Pre National Rivers Authority Legislation where Issue date < 01/09/1989** | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |
| | **Integrated Pollution Controls** | | | | | |
| 33 | Name: | Adflex Solutions Ltd (Dissolved) | A9NW (SE) | 884 | 1 | 471400 105700 |
| | Location: | P O Box 6, HAVANT, Hampshire, PO9 1SA | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | AP1131 | | | | |
| | Dated: | 29th March 1995 | | | | |
| | Process Type: | IPC new application | | | | |
| | Description: | 4.4 A (E) processes involving Halogens within the Chemical Industry | | | | |
| | **Status:** | **Authorisation superseded by a substantial or non substantial variationSuperseded** | | | | |
| | Positional Accuracy: | Unknown | | | | |
| | **Integrated Pollution Controls** | | | | | |
| 33 | Name: | Adflex Solutions Ltd (Dissolved) | A9NW (SE) | 887 | 1 | 471400 105695 |
| | Location: | P O Box 6, Langstone Road, HAVANT, Hampshire, PO9 1SA | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | AU8741 | | | | |
| | Dated: | 17th January 1997 | | | | |
| | Process Type: | IPC minor (non-substantial) variation to previous variation | | | | |
| | Description: | 4.4 A (E) processes involving Halogens within the Chemical Industry | | | | |
| | **Status:** | **Authorisation revokedRevoked** | | | | |
| | Positional Accuracy: | Unknown | | | | |
| | **Integrated Pollution Prevention And Control** | | | | | |
| 34 | Name: | Portsmouth Water Ltd | A13SW (SW) | 133 | 1 | 470680 106282 |
| | Location: | Bedhampton Landfill, Bedhampton Waterworks, Meyrick Road,,, Havant, Hampshire, PO9 1NN | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | BP3635UL | | | | |
| | Original Permit Ref: | Np3439pn | | | | |
| | Effective Date: | 7th September 2007 | | | | |
| | **Status:** | **Effective** | | | | |
| | Application Type: | Variation | | | | |
| | App. Sub Type: | Minor | | | | |
| | Positional Accuracy: | Manually positioned within the geographical locality | | | | |
| | Activity Code: | 5.2 A(1) (B) | | | | |
| | Activity Description: | Waste Landfilling; Any Other Landfill To Which The 2002 Landfill Regulations Apply | | | | |
| | Primary Activity: | Y | | | | |
| | **Integrated Pollution Prevention And Control** | | | | | |
| 35 | Name: | Portsmouth Water Ltd | A13NE (E) | 157 | 1 | 470953 106361 |
| | Location: | Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, Po9 1nn | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | Np3439pn | | | | |
| | Original Permit Ref: | Np3439pn | | | | |
| | Effective Date: | 21st April 2005 | | | | |
| | **Status:** | **Superseded By Variation** | | | | |
| | Application Type: | Application | | | | |
| | App. Sub Type: | New | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Activity Code: | 5.2 A(1) (B) | | | | |
| | Activity Description: | Waste Landfilling; Any Other Landfill To Which The 2002 Landfill Regulations Apply | | | | |
| | Primary Activity: | Y | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Integrated Pollution Prevention And Control** | | | | |
| 36 | Name: Southern Water Services Ltd<br>Location: Budds Farm Water Treatment Works, Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Authority: Environment Agency, Southern Region<br>Permit Reference: ZP3235XJ<br>Original Permit Ref: Zp3235xj<br>Effective Date: 15th October 2008<br>**Status: Effective**<br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Manually positioned to the address or location<br>Activity Code: 1.1 A(1) (B) (III)<br>Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw<br>Primary Activity: Y<br>Activity Code: 0.0 Associated Process<br>Activity Description: Associated Process<br>Primary Activity: N | A8SW (S) | 840 | 1 | 470711 105510 |
| | **Local Authority Integrated Pollution Prevention And Control** | | | | |
| 37 | Name: Hanson Aggregates<br>Location: Bedhampton Quay, Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: HBC/IPPC/3.1/1<br>Dated: Not Supplied<br>Process Type: Mineral Industries<br>Description: PG3/1 Concrete Batching<br>**Status: Permit Issued**<br>Positional Accuracy: Manually positioned to the address or location | A8SW (S) | 786 | 2 | 470498 105619 |
| | **Local Authority Integrated Pollution Prevention And Control** | | | | |
| 37 | Name: Tarmac Southern Ltd<br>Location: Bedhampton Quay, Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: HBC/IPPC/3.1/2<br>Dated: Not Supplied<br>Process Type: Mineral Industries<br>Description: PG3/1 Concrete Batching<br>**Status: Permit Issued**<br>Positional Accuracy: Manually positioned to the address or location | A8SW (S) | 786 | 2 | 470498 105619 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 38 | Name: Pioneer Concrete (Uk) Ltd<br>Location: Bedhampton Quay, Harts Farm Way, HAVANT, Hampshire, PO9 1JN<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Epa1/1/94<br>Dated: 1st October 1993<br>Process Type: Local Authority Air Pollution Control<br>Description: PG3/1Blending, packing, loading and use of bulk cement<br>**Status: Transferred to LAIPPC**<br>Positional Accuracy: Manually positioned to the address or location | A8NW (S) | 483 | 2 | 470674 105879 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 38 | Name: Hanson Aggregates<br>Location: Bedhampton Quay, Harts Farm Way, HAVANT, Hampshire, PO9 1JN<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Epa1/1/94<br>Dated: 1st October 1993<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG3/1Blending, packing, loading and use of bulk cement<br>**Status: Permitted**<br>Positional Accuracy: Manually positioned to the address or location | A8NW (S) | 483 | 2 | 470674 105879 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 39 | Name: Kwik-Fit<br>Location: New Road, HAVANT, Hampshire, PO9 1DE<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Epa1/02/98<br>Dated: Not Supplied<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br>**Status: Authorisation revokedRevoked**<br>Positional Accuracy: Automatically positioned to the address | A19SW (NE) | 537 | 2 | 471136 106763 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 40 | Name: Solent Cleaners Ltd<br>Location: 15 Solent Road, HAVANT, Hampshire, PO9 1AF<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: HBC/IPPC/05/00724v1<br>Dated: Not Supplied<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG6/46 Dry cleaning<br>**Status: Permitted**<br>Positional Accuracy: Located by supplier to within 10m | A14SW (SE) | 623 | 2 | 471345 106049 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 41 | Name: Tesco Stores Ltd<br>Location: Solent Road, Langstone Harbour, HAVANT, Hampshire, PO9 5AH<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: HBC/IPPC/05/00326<br>Dated: 28th May 1998<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG1/14 Petrol filling station<br>**Status: Permitted**<br>Positional Accuracy: Automatically positioned to the address | A14SE (SE) | 771 | 2 | 471494 106017 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 42 | Name: Mitchell & James Ltd<br>Location: Unit 1, Southmoor Lane, BEDHAMPTON, Hampshire, PO9 1JW<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Epa1/1/01<br>Dated: 12th November 2001<br>Process Type: Local Authority Air Pollution Control<br>Description: PG6/34 Respraying of road vehicles<br>**Status: Authorised**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 784 | 2 | 470961 105579 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 42 | Name: Seaward Arc<br>Location: Southmoor Lane, HAVANT, Hampshire, PO9<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Ppc-B/01/03<br>Dated: Not Supplied<br>Process Type: Local Authority Air Pollution Control<br>Description: PG6/34 Respraying of road vehicles<br>**Status: Authorised**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 813 | 2 | 470963 105550 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 43 | Name: Texaco (Star Service Station)<br>Location: 5 Park Road South, HAVANT, Hampshire, PO9 1HA<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Epa1/03/98<br>Dated: 21st August 2000<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br>**Status: Authorisation revokedRevoked**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 807 | 2 | 471590 106196 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 44 | Name: Rowland Way Ltd<br>Location: Southmoor Lane, HAVANT, PO9 1JW<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: Not Given<br>Dated: Not Supplied<br>Process Type: Local Authority Air Pollution Control<br>Description: PG6/23 Coating of metal and plastic<br>**Status: Authorised**<br>Positional Accuracy: Manually positioned to the address or location | A8SE (S) | 820 | 2 | 471053 105567 |
| | **Local Authority Pollution Prevention and Controls** | | | | |
| 45 | Name: Solent Cleaners Ltd<br>Location: 5 Market Parade, Havant, Po9 1py<br>Authority: Havant Borough Council, Environmental Health Department<br>Permit Reference: HBC/IPPC/05/01765<br>Dated: Not Supplied<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG6/46 Dry cleaning<br>**Status: Application Not Yet Authorised**<br>Positional Accuracy: Located by supplier to within 10m | A14NE (E) | 932 | 2 | 471719 106479 |
| | **Nearest Surface Water Feature** | | | | |
| | | A13NW (NW) | 51 | - | 470754 106374 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Pollution Incidents to Controlled Waters** | | | | |
| 46 | Property Type: Other General Premises<br>Location: Back Of Meyrick Road<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Diesel On River; Miscellaneous Premises: Unknown<br>Incident Date: 12th February 1994<br>Incident Reference: 1078<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (S) | 46 | 1 | 470800 106300 |
| | **Pollution Incidents to Controlled Waters** | | | | |
| 47 | Property Type: Construction<br>Location: Brockhampton Road, HAVANT<br>Authority: Environment Agency, Southern Region<br>Pollutant: Miscellaneous - Inert Suspended Solids<br>Note: Brockhampton Stream Has Changed Colour<br>Incident Date: 18th August 1998<br>Incident Reference: 798411<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Deliberate Disposal To Drain<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13SE (SE) | 267 | 1 | 470900 106100 |
| | **Pollution Incidents to Controlled Waters** | | | | |
| 48 | Property Type: Other General Premises<br>Location: New Raod, HAVANT<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Other Oil<br>Note: Oil On Hermitage Stream; Miscellaneous Premises: Unknown<br>Incident Date: 29th December 1994<br>Incident Reference: 1625<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A13NE (N) | 274 | 1 | 470900 106600 |
| | **Pollution Incidents to Controlled Waters** | | | | |
| 49 | Property Type: Domestic/Residential<br>Location: BEDHAMPTON<br>Authority: Environment Agency, Southern Region<br>Pollutant: Crude Sewage<br>Note: Stream May Be Polluted<br>Incident Date: 11th September 1997<br>Incident Reference: 797465<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A12NE (W) | 400 | 1 | 470400 106400 |
| | **Pollution Incidents to Controlled Waters** | | | | |
| 50 | Property Type: Industrial: Other<br>Location: Location Description Not Available<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Other Oil<br>Note: Oil On Stream; Demolition<br>Incident Date: 12th May 1994<br>Incident Reference: 1255<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m | A12SE (SW) | 513 | 1 | 470400 106020 |
| | **Pollution Incidents to Controlled Waters** | | | | |
| 51 | Property Type: Private Sewage (Non-PLC): Other<br>Location: Boys Brigade Gardens, Elm Lane, Park Road North<br>Authority: Environment Agency, Southern Region<br>Pollutant: Unknown Sewage<br>Note: Possible Contamination By Sewage<br>Incident Date: 2nd October 1997<br>Incident Reference: 797533<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Not Given<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A14NE (E) | 705 | 1 | 471500 106395 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 51 | Property Type: | Water Company Sewage: Other | A14NE (E) | 705 | 1 | 471500 106400 |
| | Location: | Market Parade, HAVANT | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Crude Sewage | | | | |
| | Note: | Dirty Stream; Water Company Sewage: Other | | | | |
| | Incident Date: | 12th June 1995 | | | | |
| | Incident Reference: | 1898 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Plc Sewage Other | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 52 | Property Type: | Road (Road Traffic Accident) | A8NW (SW) | 711 | 1 | 470500 105700 |
| | Location: | Havant Borough Council, Harts Farm Way Depot | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Oils - Diesel (Including Agricultural) | | | | |
| | Note: | Spillage Of Oil | | | | |
| | Incident Date: | 8th November 1996 | | | | |
| | Incident Reference: | 796525 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Road Traffic Accident | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 53 | Property Type: | Miscellaneous Premises: Other | A14SE (E) | 718 | 1 | 471500 106200 |
| | Location: | Location Description Not Avaliable | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Miscellaneous - Urban Runoff | | | | |
| | Note: | Oil On Stream | | | | |
| | Incident Date: | 25th October 1996 | | | | |
| | Incident Reference: | 796498 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Unknown | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 54 | Property Type: | Miscellaneous Premises: Other | A14SE (E) | 816 | 1 | 471600 106200 |
| | Location: | Cjh Tyres, 3A Brockhampton Lane, HAVANT | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Miscellaneous - Vehicle Washings And De Waxing | | | | |
| | Note: | Cleaning Fluid In Stream At Rear Of Premises | | | | |
| | Incident Date: | 10th October 1996 | | | | |
| | Incident Reference: | 796470 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Unknown | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 55 | Property Type: | Water Company Sewage: Foul Sewer | A7NW (SW) | 867 | 1 | 470001 106001 |
| | Location: | West Street Bridge, Opposite Seward Rover Garage, BEDHAMPTON | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Crude Sewage | | | | |
| | Note: | Sewage In Stream | | | | |
| | Incident Date: | 28th March 1997 | | | | |
| | Incident Reference: | 797160 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Plc Sewage Other | | | | |
| | Incident Severity: | Category 1 - Major Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 56 | Property Type: | Manufacturing | A8SW (S) | 869 | 1 | 470600 105500 |
| | Location: | Hanson Aggregates, Harts Farm Way, Bedhampton Quay, HAVANT | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Organic Chemicals : Pigments | | | | |
| | Note: | Not Supplied | | | | |
| | Incident Date: | 17th August 1999 | | | | |
| | Incident Reference: | 2188 | | | | |
| | Catchment Area: | Unknown | | | | |
| | Receiving Water: | Freshwater Stream/River | | | | |
| | Cause of Incident: | Containment Failure : Bund Overtopped | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Approximate location provided by supplier | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 57 | Property Type: | Road | A9NE (SE) | 874 | 1 | 471600 106000 |
| | Location: | U/S Of De La Rue Premises | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Oils - Other Oil | | | | |
| | Note: | Diesel In Stream | | | | |
| | Incident Date: | 19th October 1992 | | | | |
| | Incident Reference: | 337 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Oils/Related Products | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 58 | Property Type: | Water Company Sewage: Other | A8SW (S) | 897 | 1 | 470500 105500 |
| | Location: | Hermitage Stream, Harts Farm Way, HAVANT | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Storm Sewage | | | | |
| | Note: | Sewage Debris In Stream; Water Company Sewage: Combined Sewer Overflow | | | | |
| | Incident Date: | 12th September 1994 | | | | |
| | Incident Reference: | 1455 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Plc Sewage Other | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 58 | Property Type: | Ships/Boats | A8SW (S) | 901 | 1 | 470500 105495 |
| | Location: | United Marine Aggregates Wharf, BEDHAMPTON | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Oils - Waste Oil | | | | |
| | Note: | Spillage Of Waste Oil | | | | |
| | Incident Date: | 21st February 1996 | | | | |
| | Incident Reference: | 796074 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Oil Boat/Ship | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 59 | Property Type: | Miscellaneous Premises: Other | A9NE (SE) | 919 | 1 | 471600 105900 |
| | Location: | Solent Road, HAVANT | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Miscellaneous - Vehicle Washings And De Waxing | | | | |
| | Note: | Diesel Oil In Stream | | | | |
| | Incident Date: | 28th January 1997 | | | | |
| | Incident Reference: | 797046 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Miscellaneous/Other Pollution Type | | | | |
| | Incident Severity: | Category 2 - Significant Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Pollution Incidents to Controlled Waters** | | | | | |
| 60 | Property Type: | Other General Premises | A9NE (SE) | 971 | 1 | 471600 105800 |
| | Location: | Location Description Not Available | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Pollutant: | Oils - Unknown | | | | |
| | Note: | Oil In Stream; Miscellaneous Premises: Unknown | | | | |
| | Incident Date: | 29th March 1995 | | | | |
| | Incident Reference: | 1766 | | | | |
| | Catchment Area: | Not Given | | | | |
| | Receiving Water: | Not Given | | | | |
| | Cause of Incident: | Oils/Related Products | | | | |
| | Incident Severity: | Category 3 - Minor Incident | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Prosecutions Relating to Authorised Processes** | | | | | |
| 61 | Location: | 1-3 Ridgway, HAVANT, Hampshire, PO9 1JS | A13SW (S) | 245 | 1 | 470784 106101 |
| | Prosecution Text: | ENDS Report 296 (September 1999), Breaching the packaging regulations by failing to register, to take "reasonable steps" to recover its obligated tonnages of packaging waste and to provide a certificate of compliance. | | | | |
| | Prosecution Act: | PRO(PW)R97 | | | | |
| | Hearing Date: | 1st September 1999 | | | | |
| | Verdict: | Guilty | | | | |
| | Fine: | 1250 | | | | |
| | Costs: | 0 | | | | |
| | Positional Accuracy: | Manually positioned to the road within the address or location | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Prosecutions Relating to Authorised Processes** | | | | |
| 62 | Location: Southmoor Lane, Havant, Po9<br>Prosecution Text: Tipping brick and rubble onto land without a WML<br>Prosecution Act: Epa90 S33(1)(A)<br>Hearing Date: 18th February 2005<br>Verdict: Guilty<br>Fine: 400<br>Costs: 318<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 703 | 1 | 470959 105662 |
| | **Registered Radioactive Substances** | | | | |
| 63 | Name: Apollo Fire Detectors Ltd<br>Location: 2-8 Solent Road, HAVANT, Hampshire, PO9 1JH<br>Authority: Environment Agency, Southern Region<br>Permit Reference: AC1369<br>Dated: 31st March 1991<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Authorisation under RSA<br>**Status: Authorisation either revoked or cancelledCancelled**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 425 | 1 | 471094 106042 |
| | **Registered Radioactive Substances** | | | | |
| 63 | Name: Apollo Fire Detectors Ltd<br>Location: 2-8 Solent Road, HAVANT, Hampshire, PO9 1JH<br>Authority: Environment Agency, Southern Region<br>Permit Reference: AC1385<br>Dated: 31st March 1991<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Authorisation under RSA<br>**Status: Authorisation either revoked or cancelledCancelled**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 429 | 1 | 471094 106037 |
| | **Registered Radioactive Substances** | | | | |
| 64 | Name: Apollo Fire Detectors Ltd<br>Location: 36 Brookside Road, Havant, Hampshire, PO9 1JR<br>Authority: Environment Agency, Southern Region<br>Permit Reference: Bj8812<br>Dated: 23rd January 2001<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Minor variation to authorisation under RSA<br>**Status: Authorisation superseded by a substantial or non substantial variationSuperseded**<br>Positional Accuracy: Automatically positioned to the address | A8NE (SE) | 478 | 1 | 471032 105930 |
| | **Registered Radioactive Substances** | | | | |
| 64 | Name: Apollo Fire Detectors Ltd<br>Location: 36 Brookside Road, HAVANT, Hampshire, PO9 1JP<br>Authority: Environment Agency, Southern Region<br>Permit Reference: AW6707<br>Dated: 10th October 1996<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Authorisation under RSA<br>**Status: Authorisation superseded by a substantial or non substantial variationSuperseded**<br>Positional Accuracy: Automatically positioned to the address | A8NE (SE) | 478 | 1 | 471032 105930 |
| | **Registered Radioactive Substances** | | | | |
| 65 | Name: Apollo Fire Detectors Ltd<br>Location: 36 Brookside Road, HAVANT, PO9 1JR<br>Authority: Environment Agency, Southern Region<br>Permit Reference: Bu7260<br>Dated: 5th June 2003<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Minor variation to authorisation under RSA<br>**Status: Authorisation superseded by a substantial or non substantial variationSuperseded**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8NE (SE) | 541 | 1 | 471016 105851 |
| | **River Quality** | | | | |
| | Name: Hermitage Strm<br>GQA Grade: River Quality C<br>Reach: Tidal Limit - Source<br>Estimated Distance (km): 14.8<br>Flow Rate: Flow less than 0.62 cumecs<br>Flow Type: River<br>Year: 2000 | A13NW (W) | 185 | 1 | 470617 106390 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **River Quality** | | | | | |
| | Name: | Lavant (Hants) | A14SW (E) | 586 | 1 | 471372 106230 |
| | GQA Grade: | River Quality A | | | | |
| | Reach: | Tidal Limit - Source | | | | |
| | Estimated Distance (km): | 6.5 | | | | |
| | Flow Rate: | Flow less than 0.31 cumecs | | | | |
| | Flow Type: | River | | | | |
| | Year: | 2000 | | | | |
| | **River Quality Chemistry Sampling Points** | | | | | |
| 66 | Name: | Hermitage Stream | A18SE (NE) | 520 | 1 | 471050 106800 |
| | Reach: | Tidal Limit To Source | | | | |
| | Estimated Distance: | 14.80 | | | | |
| | Objective: | River Ecosystem Class 3: Fairly Good Quality | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |
| | Year: | 1990 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Not Supplied | | | | |
| | Year: | 1993 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Compliant | | | | |
| | Year: | 1994 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Compliant | | | | |
| | Year: | 1995 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade D - Fair | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 1996 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade D - Fair | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 1997 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade E - Poor | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 1998 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade D - Fair | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 1999 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 2000 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 2001 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 2002 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Marginal | | | | |
| | Year: | 2003 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 2004 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade D - Fair | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 2005 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Significant Failure | | | | |
| | Year: | 2006 | | | | |
| | GQA Grade: | River Quality Chemistry GQA Grade C - Fairly Good | | | | |
| | Compliance: | Significant Failure | | | | |
| | **Water Abstractions** | | | | | |
| 67 | Operator: | Portsmouth Water Ltd | A13NW (W) | 218 | 1 | 470580 106370 |
| | Licence Number: | 11/42/36.2/1 | | | | |
| | Permit Version: | 101 | | | | |
| | Location: | Bedhampton Ps Spring No 1 | | | | |
| | Authority: | Environment Agency, Southern 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: | See Licence Map | | | | |
| | Authorised Start: | 01 January | | | | |
| | Authorised End: | 31 December | | | | |
| | Permit Start Date: | 1st April 2002 | | | | |
| | Permit End Date: | Not Supplied | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Water Abstractions** | | | | | |
| 67 | Operator: | Portsmouth Water Co | A13NW (W) | 218 | 1 | 470580 106370 |
| | Licence Number: | 11/42/36.2/1 | | | | |
| | Permit Version: | 100 | | | | |
| | Location: | Bedhampton Ps Spring No 1 | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Abstraction: | Public Water Supply: Potable Water Supply - Direct | | | | |
| | Abstraction Type: | Water may be abstracted from a single point | | | | |
| | Source: | Groundwater | | | | |
| | Daily Rate (m3): | 164565 | | | | |
| | Yearly Rate (m3): | 42732400 | | | | |
| | Details: | See Licence Map | | | | |
| | Authorised Start: | 01 January | | | | |
| | Authorised End: | 31 December | | | | |
| | Permit Start Date: | 26th September 1977 | | | | |
| | Permit End Date: | Not Supplied | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | **Water Abstractions** | | | | | |
| 68 | Operator: | Portsmouth Water Ltd | A13NE (E) | 224 | 1 | 471020 106370 |
| | Licence Number: | 11/42/36.2/1 | | | | |
| | Permit Version: | 101 | | | | |
| | Location: | Bedhampton Ps Spring No 2 | | | | |
| | Authority: | Environment Agency, Southern 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: | See Licence Map | | | | |
| | Authorised Start: | 01 January | | | | |
| | Authorised End: | 31 December | | | | |
| | Permit Start Date: | 1st April 2002 | | | | |
| | Permit End Date: | Not Supplied | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |
| | **Water Abstractions** | | | | | |
| 68 | Operator: | Portsmouth Water Co | A13NE (E) | 224 | 1 | 471020 106370 |
| | Licence Number: | 11/42/36.2/1 | | | | |
| | Permit Version: | 100 | | | | |
| | Location: | Bedhampton Ps Spring No 2 | | | | |
| | Authority: | Environment Agency, Southern 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: | See Licence Map | | | | |
| | Authorised Start: | 01 January | | | | |
| | Authorised End: | 31 December | | | | |
| | Permit Start Date: | 26th September 1977 | | | | |
| | Permit End Date: | Not Supplied | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |
| | **Water Abstractions** | | | | | |
| 69 | Operator: | Portsmouth Water Ltd | A13SW (W) | 326 | 1 | 470480 106270 |
| | Licence Number: | 11/42/36.2/1 | | | | |
| | Permit Version: | 101 | | | | |
| | Location: | Havant Ps | | | | |
| | Authority: | Environment Agency, Southern 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: | See Licence Map | | | | |
| | Authorised Start: | 01 January | | | | |
| | Authorised End: | 31 December | | | | |
| | Permit Start Date: | 1st April 2002 | | | | |
| | Permit End Date: | Not Supplied | | | | |
| | Positional Accuracy: | Located by supplier to within 10m | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions** | | | | |
| 69 | Operator: Portsmouth Water Co<br>Licence Number: 11/42/36.2/1<br>Permit Version: 100<br>Location: Havant Ps<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 26th September 1977<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A13SW (W) | 326 | 1 | 470480 106270 |
| | **Groundwater Vulnerability** | | | | |
| | Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers<br>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<br>Map Sheet: Sheet 45 West Sussex and Surrey<br>Scale: 1:100,000 | A18SW (N) | 0 | 1 | 470722 106703 |
| | **Drift Deposits** | | | | |
| | None | | | | |
| | **Source Protection Zones** | | | | |
| 70 | Name: Bedhampton & Havant Springs<br>Source: Environment Agency, Head Office<br>Reference: Su049<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source. | A13SW (S) | 0 | 1 | 470756 106224 |
| | **Source Protection Zones** | | | | |
| 71 | Name: Bedhampton & Havant Springs<br>Source: Environment Agency, Head Office<br>Reference: Su049<br>Type: Groundwater Source | A14SW (E) | 369 | 1 | 471160 106280 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13NW (NW) | 0 | 1 | 470790 106362 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Combined Tidal and Fluvial<br>Boundary Accuracy: As Supplied | A13NW (NW) | 17 | 1 | 470790 106362 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Combined Tidal and Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 80 | 1 | 470725 106312 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13NE (N) | 88 | 1 | 470797 106434 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Combined Tidal and Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 117 | 1 | 470694 106292 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Combined Tidal and Fluvial<br>Boundary Accuracy: As Supplied | A13NW (W) | 118 | 1 | 470686 106387 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13NE (NE) | 183 | 1 | 470877 106512 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SE (SE) | 227 | 1 | 470975 106205 |
| | **Extreme Flooding from Rivers or Sea without Defences** | | | | |
| | Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13NE (NE) | 243 | 1 | 470941 106543 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13NW (N) | 21 | 1 | 470791 106367 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (W) | 114 | 1 | 470687 106318 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (W) | 125 | 1 | 470680 106302 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Combined Tidal and Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 163 | 1 | 470647 106281 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 170 | 1 | 470640 106280 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 171 | 1 | 470640 106279 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 177 | 1 | 470634 106275 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 180 | 1 | 470633 106272 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 182 | 1 | 470631 106271 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13NE (NE) | 183 | 1 | 470877 106512 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 188 | 1 | 470626 106269 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 189 | 1 | 470625 106269 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 191 | 1 | 470623 106268 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 203 | 1 | 470617 106252 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 204 | 1 | 470617 106251 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 209 | 1 | 470607 106259 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 210 | 1 | 470606 106258 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 216 | 1 | 470605 106246 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 218 | 1 | 470604 106245 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 224 | 1 | 470598 106243 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 225 | 1 | 470597 106242 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 225 | 1 | 470598 106242 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 226 | 1 | 470597 106241 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 234 | 1 | 470589 106238 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 236 | 1 | 470588 106237 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 238 | 1 | 470585 106237 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 239 | 1 | 470585 106236 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Tidal<br>Boundary Accuracy: As Supplied | A13SW (SW) | 243 | 1 | 470580 106235 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 244 | 1 | 470580 106234 |
| | **Flooding from Rivers or Sea without Defences**<br>Flood Plain Type: Fluvial<br>Boundary Accuracy: As Supplied | A13SW (SW) | 249 | 1 | 470575 106233 |
| | **Areas Benefiting from Flood Defences**<br>None | | | | |
| | **Flood Water Storage Areas**<br>None | | | | |
| | **Flood Defences**<br>None | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Historical Landfill Sites** | | | | | |
| 72 | Licence Holder: | Hampshire County Council | A7NE (SW) | 762 | 1 | 470261 105804 |
| | Location: | Harts Farm Way, Havant | | | | |
| | Name: | Harts Farm Way | | | | |
| | Operator Location: | Not Supplied | | | | |
| | Boundary Accuracy: | As Supplied | | | | |
| | Provider Reference: | EAHLD20831 | | | | |
| | First Input Date: | Not Supplied | | | | |
| | Last Input Date: | Not Supplied | | | | |
| | Specified Waste Type: | Deposited Waste included Household Waste | | | | |
| | EA Waste Ref: | Not Supplied | | | | |
| | Regis Ref: | Not Supplied | | | | |
| | WRC Ref: | Not Supplied | | | | |
| | BGS Ref: | Not Supplied | | | | |
| | Other Ref: | FHA15, 1760/1/13/6 | | | | |
| | **Historical Landfill Sites** | | | | | |
| 73 | Licence Holder: | Not Supplied | A8SW (S) | 822 | 1 | 470596 105549 |
| | Location: | Brockhampton, Hampshire | | | | |
| | Name: | Land South Of Budds Farm Sewage Works | | | | |
| | Operator Location: | Not Supplied | | | | |
| | Boundary Accuracy: | As Supplied | | | | |
| | Provider Reference: | EAHLD20826 | | | | |
| | First Input Date: | Not Supplied | | | | |
| | Last Input Date: | Not Supplied | | | | |
| | Specified Waste Type: | Deposited Waste included Household Waste | | | | |
| | EA Waste Ref: | Not Supplied | | | | |
| | Regis Ref: | Not Supplied | | | | |
| | WRC Ref: | 1700/1304 | | | | |
| | BGS Ref: | Not Supplied | | | | |
| | Other Ref: | FHA10, HAV4 | | | | |
| | **Integrated Pollution Control Registered Waste Sites** | | | | | |
| 74 | Name: | Onyx Hampshire Ltd | A8NW (SW) | 598 | 1 | 470526 105813 |
| | Location: | Brockhampton Incinerator, Harts Farm Way, HAVANT, Hampshire, PO9 1JN | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | AY3199 | | | | |
| | Dated: | 9th April 1997 | | | | |
| | Process Type: | IPC minor (non-substantial) variation to previous variation | | | | |
| | Description: | 5.1 A (C) Incineration within the Waste Disposal Industry | | | | |
| | **Status:** | **Authorisation revokedRevoked** | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | **Integrated Pollution Control Registered Waste Sites** | | | | | |
| 74 | Name: | Onyx Hampshire Ltd | A8NW (SW) | 602 | 1 | 470526 105808 |
| | Location: | Brockhampton Incinerator, Harts Farm Way, HAVANT, Hampshire, PO9 1JN | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | AG8276 | | | | |
| | Dated: | 13th May 1993 | | | | |
| | Process Type: | IPC application for process that was regulated by HMIP for air releases under previous legislation | | | | |
| | Description: | 5.1 A (C) Incineration within the Waste Disposal Industry | | | | |
| | **Status:** | **Authorisation superseded by a substantial or non substantial variationSuperseded** | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | **Integrated Pollution Control Registered Waste Sites** | | | | | |
| 74 | Name: | Onyx Hampshire Ltd | A8NW (SW) | 604 | 1 | 470521 105808 |
| | Location: | Brockhampton Incinerator, Harts Farm Way, HAVANT, Hampshire, PO9 1JN | | | | |
| | Authority: | Environment Agency, Southern Region | | | | |
| | Permit Reference: | AR5260 | | | | |
| | Dated: | 31st May 1995 | | | | |
| | Process Type: | IPC minor (non-substantial) variation to previous variation | | | | |
| | Description: | 5.1 A (C) Incineration within the Waste Disposal Industry | | | | |
| | **Status:** | **Authorisation superseded by a substantial or non substantial variationSuperseded** | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | **Licensed Waste Management Facilities (Landfill Boundaries)** | | | | | |
| 75 | Name: | Bedhampton Waterworks | A13NW (W) | 80 | 1 | 470717 106349 |
| | Licence Number: | 19988 | | | | |
| | Location: | Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, PO9 1NN | | | | |
| | Licence Holder: | Portsmouth Water Company Ltd | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office | | | | |
| | Site Category: | Landfills Taking Non-biodegradeable Wastes (Not Construction) | | | | |
| | Max Input Rate: | Not Supplied | | | | |
| | **Licence Status:** | **Inactive** | | | | |
| | Issued | 18th February 1992 | | | | |
| | Positional Accuracy: | Positioned by the supplier | | | | |
| | Boundary Accuracy: | As Supplied | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Licensed Waste Management Facilities (Landfill Boundaries)** | | | | |
| 76 | Name: Bedhampton Waterworks Landfill<br>Licence Number: 19988<br>Location: Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, PO9 1NN<br>Licence Holder: Portsmouth Water Ltd<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Inert LF<br>Max Input Rate: Not Supplied<br>**Licence Status:** **Active**<br>Issued 18th February 1992<br>Positional Accuracy: Positioned by the supplier<br>Boundary Accuracy: As Supplied | A13NW (W) | 80 | 1 | 470717 106349 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 77 | Licence Number: 10279<br>Location: Bedhampton Waste Works, Meyrick Road, Havant, Hampshire, PO9 1NN<br>Operator Name: Portsmouth Water Limited<br>Operator Location: Po Box 8, West Street, Havant, Hampshire, PO9 1LG<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Transfer Stations Taking Non-biodegradable Wastes<br>**Licence Status:** **Issued**<br>Issued: 29th June 2007<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (W) | 122 | 1 | 470680 106380 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 78 | Licence Number: 19988<br>Location: Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, PO9 1NN<br>Operator Name: Portsmouth Water Company Ltd<br>Operator Location: P O Box 8, West Street, Havant, Hampshire, PO9 1LG<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)<br>**Licence Status:** **IPPC**<br>Issued: 18th February 1992<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: NP3439PN<br>Positional Accuracy: Located by supplier to within 100m | A13NW (NW) | 321 | 1 | 470600 106600 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 79 | Licence Number: 19989<br>Location: Havant Incinerator, Harts Farm Way, Havant, Hampshire<br>Operator Name: Associated Environmental Projects (hampshire) Ltd<br>Operator Location: Poles Lane, Otterbourne, Winchester, Hampshire, SO21 2EA<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status:** **Surrendered**<br>Issued: 21st June 1993<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: 26th November 2001<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (SW) | 499 | 1 | 470541 105918 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 79 | Licence Number: 10229<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Operator Name: Veolia E S Hampshire Ltd<br>Operator Location: Poles Lane, Winchester, Otterbourne, Hampshire, SO21 1EA<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Metal Recycling Sites (Mixed)<br>**Licence Status: Issued**<br>Issued: 19th December 2002<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A8NW (SW) | 536 | 1 | 470500 105900 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 80 | Licence Number: 100089<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Operator Name: T J Waste And Recycling Limited<br>Operator Location: The Pavilion, 2 Sherbourne Road, South Farnborough, Farnborough, Hampshire, GU14 6JT<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status: Issued**<br>Issued: 17th September 2007<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 571 | 1 | 470658 105792 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 80 | Licence Number: 10221<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Operator Name: T J Waste & Recycling Ltd.<br>Operator Location: Charity Farm, 127 Wickham Road, Fareham, Hampshire, PO17 5BP<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status: Transferred**<br>Issued: 23rd November 2000<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 571 | 1 | 470658 105792 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 81 | Licence Number: 19991<br>Location: Havant Lorry Park, Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Operator Name: Sita Solent Ltd<br>Operator Location: Unit D2 Pegham Industrial Estate, Laveys Lane, Fareham, Hampshire, PO15 1SD<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status: Transferred**<br>Issued: 29th September 1997<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 629 | 1 | 470778 105717 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 82 | Licence Number: 19983<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Operator Name: Hopkins Recycling Ltd<br>Operator Location: Unit 10 Bridge Farm, Curbridge, Botley, Southampton, Hampshire, SO30 2HB<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status: Modified**<br>Issued: 29th June 1993<br>Last Modified: 19th August 2004<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (SW) | 644 | 1 | 470530 105760 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 82 | Licence Number: 10275<br>Location: Havant Hwrc, Harts Farm Way, Havant, Hampshire, PO9 1HR<br>Operator Name: Hopkins Recycling Ltd<br>Operator Location: First Floor, Mill House, Botley Mill, Botley, Southampton, Hampshire, SO30 2GB<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Household, Commercial And Industrial Transfer Stations<br>**Licence Status: Issued**<br>Issued: 18th September 2006<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8NW (SW) | 669 | 1 | 470518 105738 |
| | **Licensed Waste Management Facilities (Locations)** | | | | |
| 83 | Licence Number: 19990<br>Location: Southmoor Lane, Budds Farm, Havant, Hampshire, PO9 1JW<br>Operator Name: Southern Water Services Limited<br>Operator Location: Southern House, Lewes Road, Falmer, Brighton, East Sussex, BN1 9PY<br>Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office<br>Site Category: Treatment - Biological<br>**Licence Status: Issued**<br>Issued: 16th February 1996<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 901 | 1 | 470700 105450 |
| | **Local Authority Landfill Coverage** | | | | |
| | Name: Havant Borough Council<br>- Has supplied landfill data | | 0 | 2 | 468904 106250 |
| | **Local Authority Landfill Coverage** | | | | |
| | Name: Hampshire County Council<br>- Had landfill data but passed it to the relevant environment agency | | 0 | 7 | 470470 106060 |
| | **Local Authority Recorded Landfill Sites** | | | | |
| 84 | Location: Broadmarsh Site<br>Reference: 4<br>Authority: Havant Borough Council, Environmental Health Department<br>**Last Reported Status: Unknown**<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Good | A7NE (SW) | 699 | 2 | 470279 105876 |
| | **Local Authority Recorded Landfill Sites** | | | | |
| 85 | Location: Southmoore Lane<br>Reference: 2<br>Authority: Havant Borough Council, Environmental Health Department<br>**Last Reported Status: Closed**<br>Types of Waste: Household, Acid, Commercial<br>Date of Closure: 31/12/1965<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Good | A8SW (S) | 858 | 2 | 470575 105517 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Registered Landfill Sites** | | | | | |
| 86 | Licence Holder: | Portsmouth Water Plc | A13NW (W) | 197 | 1 | 470600 106360 |
| | Licence Reference: | 13/ 25A | | | | |
| | Site Location: | Bedhampton Waterworks, Meyrick Road, HAVANT, Hampshire, PO9 1NN | | | | |
| | Licence Easting: | 470600 | | | | |
| | Licence Northing: | 106360 | | | | |
| | Operator Location: | PO Box 8, West Street, HAVANT, Hampshire, PO9 1LG | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire 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 Restrictions: | No known restriction on source of waste | | | | |
| | Status: | Operational as far as is knownOperational | | | | |
| | Dated: | 14th November 1991 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Accuracy: | Not Applicable | | | | |
| | Authorised Waste | Inert Waste From Pipework Excavation | | | | |
| | Prohibited Waste | Biodegradable Waste<br>Brick And Concrete Rubble<br>Clinical - As In Wmp 25<br>Construction And Demolition Wastes<br>Food/Vegetable Matter<br>Hazardous Wastes<br>Land Clear.Waste Contam. > Background<br>Liquid/Slurry/Sludge Wastes<br>Paper/Cardboard/Packaging<br>Phenols/Mat'Ls Cont. Phenol<br>Plaster<br>Poisonous, Noxious, Polluting Wastes<br>Rubble Ex Prems Storing Tox/Sol.Chems<br>Special Wastes<br>Timber<br>Waste N.O.S. | | | | |
| | **Registered Waste Transfer Sites** | | | | | |
| 87 | Licence Holder: | Assoc.Environmental Proj.(Hants) Ltd | A8NW (SW) | 497 | 1 | 470540 105920 |
| | Licence Reference: | HV 030 | | | | |
| | Site Location: | Recycling Storage Bays, Havant Incinerator, Havant, Hampshire | | | | |
| | Operator Location: | 37-41 Old Queen Street, LONDON, Greater London, SW1H 9JA | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Transfer | | | | |
| | Max Input Rate: | Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Site dormant | | | | |
| | Dated: | 21st June 1993 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | HV 006A | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Ferrous/Non-Ferrous Cans<br>Glass<br>Paper/Cardboard Waste<br>Plastics | | | | |
| | Prohibited Waste | Clinical - As In Wmp 25<br>Liable To Cause Environmental Hazards<br>Liquid/Slurry/Sludge Wastes<br>Poisonous, Noxious And Polluting N.O.S<br>Rubble Ex Prem Stor.Tox/Water Sol.Chem<br>Special Wastes<br>Waste N.O.S. | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Registered Waste Transfer Sites** | | | | | |
| 88 | Licence Holder: | Skips R Us Ltd | A8NW (S) | 604 | 1 | 470700 105750 |
| | Licence Reference: | EAWML10221 | | | | |
| | Site Location: | Harts Farm Way, Bedhampton, HAVANT, Hampshire, PO9 1JN | | | | |
| | Operator Location: | Harts Farm Way, Bedhampton, HAVANT, Hampshire, PO9 1JN | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Transfer | | | | |
| | Max Input Rate: | Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Operational as far as is knownOperational | | | | |
| | Dated: | 23rd November 2000 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Batteries<br>Degradable Commercial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.02)<br>Degradable Household Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.01)<br>Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00)<br>Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00)<br>Special Waste (As In Epa 1990:S62 Of 1996 Regs) - Comprising | | | | |
| | Prohibited Waste | Degradable Industrial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.03)<br>Material With Any Haz.Code (H1, H2, H3a,H3b,H4,H5,H6,H7,H8,H9,H10,H11,H12,H13,H14)<br>Other Waste / Waste Not Otherwise Specified<br>Powders<br>Sludge / Liquid / Paste / Wet Wastes<br>Special Waste (As In Epa 1990:S62 Of 1996 Regs) Not Otherwise Specified<br>Waste Solely/Mainly Finely Divided Metals Or Dusts/Powders/Loose Fibres<br>Wastes Likely To Produce Offensive Odours | | | | |
| | **Registered Waste Transfer Sites** | | | | | |
| 89 | Licence Holder: | Hampshire Recycling Ltd | A8NW (SW) | 644 | 1 | 470530 105760 |
| | Licence Reference: | HV 006A | | | | |
| | Site Location: | Harts Farm Way C.A.Site, HAVANT, Hampshire, PO9 1JN | | | | |
| | Operator Location: | Unit 10 Bridge Farm, Curbridge, Botley, SOUTHAMPTON, Hampshire, SO30 2HB | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Civic Amenity | | | | |
| | Max Input Rate: | Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Operational as far as is knownOperational | | | | |
| | Dated: | 24th November 1978 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Located by supplier to within 100m | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Com. Waste Solely For Reuse/Recycling<br>Maximum Waste Permitted By Licence<br>Waste Deposited By Householders | | | | |
| | Prohibited Waste | Liq.Waste N.O.S. (Exc. Oils For Recyc)<br>Special Wastes N.O.S. (Exc.H'Holders)<br>Waste N.O.S. | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Registered Waste Transfer Sites** | | | | | |
| 90 | Licence Holder: | A & J Bull (Solent) Ltd | A8NE (S) | 646 | 1 | 470800 105700 |
| | Licence Reference: | HV 038 | | | | |
| | Site Location: | Havant Lorry Park, Southmoor Lane, Havant, Hampshire | | | | |
| | Operator Location: | 4 London Wall Buildings, Blomfield Street, LONDON, Greater London, EC2M 5UQ | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Transfer | | | | |
| | Max Input Rate: | Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Operational as far as is knownOperational | | | | |
| | Dated: | 29th September 1997 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Concrete And Brick Rubble<br>Construction And Demolition Wastes<br>Max.Waste Permitted By Licence<br>Soil | | | | |
| | Prohibited Waste | Pressurised Cont'Rs<br>Rapidly Biodeg/Food/Veg.Mat'L<br>Spec.Waste (Epa'90:S62/1996 Regs)<br>Waste N.O.S. | | | | |
| | **Registered Waste Treatment or Disposal Sites** | | | | | |
| 91 | Licence Holder: | B.M. Recycling Ltd | A8NW (SW) | 623 | 1 | 470480 105810 |
| | Licence Reference: | 13/ 4 | | | | |
| | Site Location: | Brockhampton Incinerator, Harts Farm Way, Havant, Hampshire | | | | |
| | Operator Location: | 7 Eagle Avenue, Cowplain, PORTSMOUTH, Hampshire, PO8 9UB | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Incineration | | | | |
| | Max Input Rate: | Undefined | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled | | | | |
| | Dated: | 18th May 1977 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Controlled Wastes<br>Licenced Wastes Not To Hand | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Registered Waste Treatment or Disposal Sites** | | | | | |
| 92 | Licence Holder: | Larkham Bros Ltd | A14SW (E) | 641 | 1 | 471400 106130 |
| | Licence Reference: | 13/ 18 | | | | |
| | Site Location: | 12b Clarendon Road, Havant, Hampshire | | | | |
| | Operator Location: | As Site Address | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Scrapyard | | | | |
| | Max Input Rate: | Undefined | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled | | | | |
| | Dated: | 1st August 1990 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Scrap Metal (As In 1964 Act) | | | | |
| | Prohibited Waste | Biodegradable Mat'Ls<br>Drums -Unless Empty Or Cont'S Conform<br>Food Waste<br>Liquid/Sludge Wastes -Except As Above<br>Paper/Cardboard/Packaging Waste<br>Phenols/Mat'L Containing Phenol<br>Poisonous, Noxious, Polluting Wastes<br>Potentially Haz. Or Polluting Waste<br>Special Wastes - Except As Above<br>Vegetable Matter<br>Waste Ex Prems.Of Toxic/Water Sol.Chem | | | | |
| | Environment Agency must give specific authorisation for this waste to be acceptedWaste requires prior approval | Assoc. Asbestos<br>Assoc. Battery Acids<br>Assoc. Drainings From Rad'Rs & Transf'<br>Assoc. High Hazard Mat'Ls<br>Assoc. Mineral Engine Oils<br>Assoc. Solid/Liquid Residues | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Registered Waste Treatment or Disposal Sites** | | | | | |
| 93 | Licence Holder: | Southern Water Services Ltd | A8SW (S) | 901 | 1 | 470700 105450 |
| | Licence Reference: | HV 032A | | | | |
| | Site Location: | Budds Farm W.T.Works, Southmoor Lane, Havant, Hampshire | | | | |
| | Operator Location: | Southern House, Sparrowgrove, Otterbourne, WINCHESTER, Hampshire, SO21 2SW | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Treatment - Biological | | | | |
| | Max Input Rate: | Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Operational as far as is knownOperational | | | | |
| | Dated: | 16th February 1996 | | | | |
| | Preceded By Licence: | HV 032 | | | | |
| | Superseded By Licence: | Not Given | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Alcohols (Brewing/Distilling)<br>Alkalis<br>Ammonium Salts<br>Amylase Starches<br>Aqueous Biodegradable Waste<br>Bacterial Sludges/Slurries<br>Bentonite Slurries<br>Biodegradable Waste Sludges<br>Blood, Fat, Grease<br>Cement Washings<br>Chemical Processing Wastes<br>Concrete Waste<br>Cooling Water<br>Cosmetic Waste<br>Detergent Waste<br>Drilling Muds<br>Farm Slurry<br>Fibreglass Slurry<br>Filter Materials<br>Food Processing Wastes/Starch<br>Glue Wastes<br>Gulley Emptyings<br>Hide Curing Waste<br>Hypochlorites And Chlorites<br>Inorganic Materials<br>Interceptor Wastes<br>Landfill Leachates<br>Milk Wastes<br>Mineral Slurries/Processing Wastes<br>Miscellaneous Wastes Including<br>Oil/Water Mixtures<br>Organic Compounds<br>Paper Sludges<br>Sewer Grit<br>Silt And Dredgings<br>Soakaway Contents<br>Soap Waste<br>Surface & Flood Waters<br>Water Works Sludges | | | | |
| | Prohibited Waste | Max.Waste Permitted By Licence<br>Special Waste (As In Epa 1990:S62 Of 1996 Regs)<br>Waste N.O.S. | | | | |
| | **Registered Waste Treatment or Disposal Sites** | | | | | |
| 93 | Licence Holder: | Southern Water Services Ltd | A8SW (S) | 951 | 1 | 470700 105400 |
| | Licence Reference: | HV 032 | | | | |
| | Site Location: | Budds Farm W.T.Works, Southmoor Lane, Havant, Hampshire | | | | |
| | Operator Location: | Southern House, Sparrowgrove, WINCHESTER, Hampshire, SO21 2SW | | | | |
| | Authority: | Environment Agency - Southern Region, Hampshire Area | | | | |
| | Site Category: | Treatment | | | | |
| | Max Input Rate: | Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) | | | | |
| | Waste Source Restrictions: | No known restriction on source of waste | | | | |
| | Licence Status: | Record supersededSuperseded | | | | |
| | Dated: | 1st November 1992 | | | | |
| | Preceded By Licence: | Not Given | | | | |
| | Superseded By Licence: | HV 032A | | | | |
| | Positional Accuracy: | Manually positioned to the address or location | | | | |
| | Boundary Quality: | Not Supplied | | | | |
| | Authorised Waste | Max.Waste Permitted By Licence-Stated<br>Waste As In Appl'N/Working Plan | | | | |
| | Prohibited Waste | Special Wastes (As In S17 Copa 1980)<br>Waste N.O.S. | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 94 | **BGS Recorded Mineral Sites**<br>Site Name: Bedhampton Wharf<br>Location: Harts Farm Way, Havant, Hampshire, Po9 1jn<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 10487<br>Type: Wharf<br>**Status: Active**<br>Operator: United Marine Aggregates Ltd (Uma)<br>Operator Location: Uma House, Shopwyke Road, Chichester, West Sussex, Po20 6ad<br>Periodic Type: Quaternary<br>Geology: Marine Deposits<br>Commodity: Marine Sand And Gravel<br>Positional Accuracy: Located by supplier to within 10m | A8SW (SW) | 804 | 3 | 470485 105605 |
| | **BGS 1:625,000 Solid Geology**<br>Description: Oldhaven, Blackheath, Woolwich, and Reading and Thanet beds | A13NE (N) | 0 | 3 | 470810 106457 |
| | **Coal Mining Affected Areas**<br>In an area which may not be affected by coal mining | | | | |
| | **Natural and Mining Cavities**<br>Cavity Type: Solution pipe:- formed by surface water entering a cave system<br>Origin: Natural<br>Cavity Number: 1<br>Commodity: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A12NE (NW) | 648 | 4 | 470200 106600 |
| | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (N) | 0 | 3 | 470797 106350 |
| | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (W) | 97 | 3 | 470700 106350 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (W) | 0 | 3 | 470775 106346 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (W) | 22 | 3 | 470775 106346 |
| | **Potential for Ground Dissolution Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (S) | 0 | 3 | 470797 106275 |
| | **Potential for Ground Dissolution Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (S) | 71 | 3 | 470797 106275 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A12NW (W) | 0 | 3 | 470000 106346 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (N) | 0 | 3 | 470797 106350 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (N) | 4 | 3 | 470797 106350 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (N) | 131 | 3 | 470775 106475 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (E) | 215 | 3 | 471000 106275 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (N) | 0 | 3 | 470797 106350 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (N) | 4 | 3 | 470797 106350 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (W) | 97 | 3 | 470700 106350 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 111 | 3 | 470675 106425 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (NW) | 114 | 3 | 470750 106450 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (NE) | 165 | 3 | 470925 106450 |
| | **Radon Potential - Radon Affected Areas**<br>Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SE) | 0 | 3 | 470825 106300 |
| | **Radon Potential - Radon Protection Measures**<br>Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (SE) | 0 | 3 | 470825 106300 |
| | **Shallow Mining Hazards**<br>No Hazard | | | | |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 95 | Name: John Davidson (Pipes) Ltd<br>Location: Palk Rd, Havant, Hampshire, PO9 1NL<br>Classification: Builders' Merchants<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13NE (N) | 164 | - | 470808 106510 |
| | **Contemporary Trade Directory Entries** | | | | |
| 96 | Name: Deep Sea Seals Ltd<br>Location: 4, Marples Way, Havant, Hampshire, PO9 1NX<br>Classification: Marine Equipment & Supplies<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 165 | - | 470815 106182 |
| | **Contemporary Trade Directory Entries** | | | | |
| 96 | Name: John Crane<br>Location: 4, Marples Way, Havant, Hampshire, PO9 1NX<br>Classification: Marine Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 165 | - | 470815 106182 |
| | **Contemporary Trade Directory Entries** | | | | |
| 96 | Name: Deep Sea Seals<br>Location: 4, Marples Way, Havant, Hampshire, PO9 1NX<br>Classification: Marine Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 208 | - | 470837 106142 |
| | **Contemporary Trade Directory Entries** | | | | |
| 97 | Name: Flyght Travel<br>Location: Palk Rd, Havant, Hampshire, PO9 1NL<br>Classification: Bus & Coach Operators & Stations<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13NE (N) | 169 | - | 470814 106514 |
| | **Contemporary Trade Directory Entries** | | | | |
| 97 | Name: Seward Cars<br>Location: West Street, Havant, Hampshire, PO9 1LT<br>Classification: Car Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NE (NE) | 206 | - | 470877 106538 |
| | **Contemporary Trade Directory Entries** | | | | |
| 97 | Name: Accident Repair Centre<br>Location: West Street, Havant, Hampshire, PO9 1LR<br>Classification: Car Body Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 216 | - | 470837 106558 |
| | **Contemporary Trade Directory Entries** | | | | |
| 98 | Name: Solent Motor Services Ltd<br>Location: 2, Ridgway, Havant, Hampshire, PO9 1QJ<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SW (S) | 220 | - | 470770 106128 |
| | **Contemporary Trade Directory Entries** | | | | |
| 98 | Name: Kingscroft Cars<br>Location: 2, Ridgway, Havant, Hampshire, PO9 1QJ<br>Classification: Car Dealers - Used<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SW (S) | 220 | - | 470770 106128 |
| | **Contemporary Trade Directory Entries** | | | | |
| 99 | Name: Solent Business Supplies<br>Location: 2, Marples Way, Havant, Hampshire, PO9 1UH<br>Classification: Office Furniture & Equipment<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 241 | - | 470888 106123 |
| | **Contemporary Trade Directory Entries** | | | | |
| 100 | Name: Hsp Plastics Ltd<br>Location: Unit C, Kingscroft Court, Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Plastic Products - Manufacturers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 246 | - | 470829 106100 |
| | **Contemporary Trade Directory Entries** | | | | |
| 100 | Name: Macvere Engineering<br>Location: Unit 2-3,Kingscroft Ct,Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A13SE (S) | 272 | - | 470872 106085 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 101 | Name: S Restall<br>Location: 10, New Road, Havant, Hampshire, PO9 1DE<br>Classification: Stained Glass Designers & Producers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13NE (N) | 284 | - | 470874 106619 |
| | **Contemporary Trade Directory Entries** | | | | |
| 101 | Name: Rapid Fit<br>Location: New Rd, Havant, Hampshire, PO9 1DE<br>Classification: Exhaust & Shock Absorber Centres<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13NE (N) | 322 | - | 470884 106656 |
| | **Contemporary Trade Directory Entries** | | | | |
| 102 | Name: Rowan Business Equipment<br>Location: 8 Kingscroft Ct,Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Photocopiers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A13SW (S) | 287 | - | 470796 106059 |
| | **Contemporary Trade Directory Entries** | | | | |
| 102 | Name: Acorn Engineering<br>Location: Unit G, Kingscroft Court, Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Machinery - Industrial & Commercial<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 296 | - | 470806 106051 |
| | **Contemporary Trade Directory Entries** | | | | |
| 102 | Name: H P S Printing Ltd<br>Location: 7 Kingscroft Ct,Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Printers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A13SE (S) | 296 | - | 470806 106050 |
| | **Contemporary Trade Directory Entries** | | | | |
| 102 | Name: Mdp<br>Location: 7,Kingscroft Ct,Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Printers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A13SE (S) | 296 | - | 470806 106050 |
| | **Contemporary Trade Directory Entries** | | | | |
| 102 | Name: Target Precision Engineering Ltd<br>Location: Unit F, Kingscroft Court, Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 300 | - | 470816 106047 |
| | **Contemporary Trade Directory Entries** | | | | |
| 103 | Name: Goodmans Loudspeakers Ltd<br>Location: 1-3, Ridgway, Havant, Hampshire, PO9 1JS<br>Classification: Sound Equipment Systems Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SW (SW) | 298 | - | 470613 106111 |
| | **Contemporary Trade Directory Entries** | | | | |
| 103 | Name: Mordaunt-Short<br>Location: 1-3, Ridgway, Havant, Hampshire, PO9 1JS<br>Classification: Sound Equipment Systems Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SW (SW) | 298 | - | 470613 106111 |
| | **Contemporary Trade Directory Entries** | | | | |
| 103 | Name: T G I Plc<br>Location: 1-3, Ridgway, Havant, Hampshire, PO9 1JS<br>Classification: Sound Equipment Systems Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SW (SW) | 298 | - | 470613 106111 |
| | **Contemporary Trade Directory Entries** | | | | |
| 104 | Name: Hsp Plastics Plc<br>Location: Unit C, Kingscroft Court, Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Plastic Products - Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 301 | - | 470859 106052 |
| | **Contemporary Trade Directory Entries** | | | | |
| 104 | Name: Hsp Plastics Plc<br>Location: Unit C, Kingscroft Court, Ridgway, Havant, Hampshire, PO9 1LS<br>Classification: Plastic Products - Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (S) | 301 | - | 470859 106052 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 105 | Name: Cambridge Garage (Portsmouth) Ltd<br>Location: 23, Bedhampton Road, Havant, Hampshire, PO9 3ES<br>Classification: Car Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NW (NW) | 336 | - | 470568 106592 |
| | **Contemporary Trade Directory Entries** | | | | |
| 105 | Name: Cambridge Garage (Portsmouth) Ltd<br>Location: 23, Bedhampton Road, Havant, Hampshire, PO9 3ES<br>Classification: Car Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13NW (NW) | 336 | - | 470568 106592 |
| | **Contemporary Trade Directory Entries** | | | | |
| 106 | Name: T & C Precision<br>Location: 4, Solent Road, HAVANT, Hampshire, PO9 1JH<br>Classification: Sheet Metal Work<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 388 | - | 471025 106033 |
| | **Contemporary Trade Directory Entries** | | | | |
| 107 | Name: Solway Metal Finishers Ltd<br>Location: Brockhampton Road, Havant, Hampshire, PO9 1JU<br>Classification: Metal Finishing Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 394 | - | 470866 105958 |
| | **Contemporary Trade Directory Entries** | | | | |
| 108 | Name: Hilton Engineering<br>Location: 6 Solent Rd, Havant, Hampshire, PO9 1JH<br>Classification: Plastics - Injection Moulding<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A13SE (SE) | 400 | - | 471060 106044 |
| | **Contemporary Trade Directory Entries** | | | | |
| 108 | Name: Allport Packaging Ltd<br>Location: 2-8, Solent Road, Havant, Hampshire, PO9 1JH<br>Classification: Case Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 425 | - | 471094 106042 |
| | **Contemporary Trade Directory Entries** | | | | |
| 108 | Name: Robin Sparshatt & Associates Ltd<br>Location: 10, Solent Road, Havant, Hampshire, PO9 1JH<br>Classification: Commercial Vehicle Bodybuilders & Repairers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A13SE (SE) | 460 | - | 471134 106033 |
| | **Contemporary Trade Directory Entries** | | | | |
| 109 | Name: Complete Commercials<br>Location: New Rd, Havant, Hampshire, PO9 1DE<br>Classification: Commercial Vehicle Dealers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A18SE (NE) | 412 | - | 470964 106723 |
| | **Contemporary Trade Directory Entries** | | | | |
| 110 | Name: Premier Sheet Metal & Engineering Co Ltd<br>Location: Brockhampton Road, Havant, Hampshire, PO9 1JU<br>Classification: Sheet Metal Work<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 434 | - | 470864 105918 |
| | **Contemporary Trade Directory Entries** | | | | |
| 110 | Name: Advanced Coating Technology Ltd<br>Location: Brockhampton Rd, Havant, Hampshire, PO9 1JU<br>Classification: Metal Finishing Services<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8NE (S) | 460 | - | 470841 105888 |
| | **Contemporary Trade Directory Entries** | | | | |
| 110 | Name: Northshore Composites Ltd<br>Location: Brockhampton Road, Havant, Hampshire, PO9 1JU<br>Classification: Boatbuilders & Repairers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 470 | - | 470869 105882 |
| | **Contemporary Trade Directory Entries** | | | | |
| 111 | Name: Kemp Brothers<br>Location: 9, Cross Way, Havant, Hampshire, PO9 1NG<br>Classification: Joinery Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14NW (NE) | 450 | - | 471182 106578 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 112 | Name: Coopers Blinds Ltd<br>Location: 18, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Blinds, Awnings & Canopies<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 462 | - | 471233 106194 |
| | **Contemporary Trade Directory Entries** | | | | |
| 112 | Name: South Hants Glass<br>Location: Unit 10 Solent Rd, Havant, Hampshire, PO9 1JH<br>Classification: Glass Products - Manufacturers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A14SW (E) | 489 | - | 471262 106194 |
| | **Contemporary Trade Directory Entries** | | | | |
| 113 | Name: D H G Teasedale Gas Deliveries<br>Location: 96, Bedhampton Road, Havant, Hampshire, PO9 3EZ<br>Classification: Gas Suppliers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A17SE (NW) | 496 | - | 470435 106686 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Navitron Systems Ltd<br>Location: Unit 2, 25e, Brockhampton Lane, Havant, Hampshire, PO9 1JT<br>Classification: Marine Equipment & Supplies<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 517 | - | 471250 106096 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Motomex<br>Location: Unit 2, 25e, Brockhampton Lane, Havant, Hampshire, PO9 1JT<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 517 | - | 471250 106096 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Motomex<br>Location: Unit 2, 25c, Brockhampton Lane, Havant, Hampshire, PO9 1JT<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 530 | - | 471273 106113 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Lefay Engineering Ltd<br>Location: Unit 3, 25c, Brockhampton Lane, Havant, Hampshire, PO9 1JT<br>Classification: Precision Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 553 | - | 471296 106109 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Mitchell & James Caravans Ltd<br>Location: Unit 3, 25c, Brockhampton Lane, Havant, Hampshire, PO9 1JT<br>Classification: Caravans - Servicing & Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 553 | - | 471296 106109 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Solent Cleaners<br>Location: 15, Solent Road, HAVANT, Hampshire, PO9 1AF<br>Classification: Dry Cleaners<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 553 | - | 471296 106109 |
| | **Contemporary Trade Directory Entries** | | | | |
| 114 | Name: Motomex<br>Location: 25a, Brockhampton Lane, Havant, Hampshire, PO9 1JT<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (SE) | 553 | - | 471296 106109 |
| | **Contemporary Trade Directory Entries** | | | | |
| 115 | Name: Hourglass<br>Location: 14, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Mirrors & Decorative Glass<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 519 | - | 471291 106186 |
| | **Contemporary Trade Directory Entries** | | | | |
| 116 | Name: Veolia Environmental Services<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Waste Disposal Services<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8NW (S) | 521 | - | 470714 105832 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 117 | Name: E C Tooling Systems Ltd<br>Location: 1, Havant Business Centre, Harts Farm Way, Havant, Hampshire, PO9 1HU<br>Classification: Precision Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8NW (S) | 531 | - | 470791 105815 |
| | **Contemporary Trade Directory Entries** | | | | |
| 117 | Name: Oberon Engineering Ltd<br>Location: 6, Havant Business Centre, Harts Farm Way, Havant, Hampshire, PO9 1HU<br>Classification: Precision Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8NW (S) | 531 | - | 470791 105815 |
| | **Contemporary Trade Directory Entries** | | | | |
| 117 | Name: Fleet Repair Centre<br>Location: 9-10, Havant Business Centre, Harts Farm Way, Havant, Hampshire, PO9 1HU<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NW (S) | 531 | - | 470791 105815 |
| | **Contemporary Trade Directory Entries** | | | | |
| 117 | Name: Tal Uk<br>Location: 8, Havant Business Centre, Harts Farm Way, Havant, Hampshire, PO9 1HU<br>Classification: Lighting Manufacturers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A8NW (S) | 531 | - | 470791 105815 |
| | **Contemporary Trade Directory Entries** | | | | |
| 117 | Name: Crown Press<br>Location: 14, Havant Business Centre, Harts Farm Way, Havant, Hampshire, PO9 1HU<br>Classification: Printers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A8NE (S) | 536 | - | 470834 105811 |
| | **Contemporary Trade Directory Entries** | | | | |
| 117 | Name: G J Winter International<br>Location: Harts Farm Way Depot, Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Road Haulage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8NW (S) | 566 | - | 470772 105781 |
| | **Contemporary Trade Directory Entries** | | | | |
| 118 | Name: Wessex Sliding Doors<br>Location: 10, Lester Avenue, Havant, Hampshire, PO9 3HE<br>Classification: Door Manufacturers - Domestic<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A17SE (NW) | 547 | - | 470451 106770 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: G & W Motors<br>Location: 2-3, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 569 | - | 471358 106251 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Smith Bros Flight Cases<br>Location: 22, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Case Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 569 | - | 471358 106251 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: E M P Tooling Service Ltd<br>Location: 9, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Tool Design, Manufacturers & Makers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Iain'S Auto Services<br>Location: 20, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Car Engine Tuning & Diagnostic Services<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Able Motor Co Ltd<br>Location: 27-28, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 591 | - | 471377 106229 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: A C E<br>Location: 7, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Precision Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: R S Vehicle Repair & Roys Rovers<br>Location: 20, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Lynx Garage<br>Location: 19, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Dip & Strip<br>Location: 27-28, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Paint & Varnish Stripping<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Tanneries Trade<br>Location: 27-28, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Car Dealers - Used<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A14SW (E) | 591 | - | 471377 106229 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Metalcraft Fabrications<br>Location: 29, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Metal Products - Fabricated<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 611 | - | 471403 106266 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: E Tech<br>Location: 4, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 611 | - | 471403 106266 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Iso Engineering Electrical Services Ltd<br>Location: 4, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Control Panel Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 611 | - | 471403 106266 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: Iso Engineering Electrical Services<br>Location: 4, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Control Panel Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 611 | - | 471403 106266 |
| | **Contemporary Trade Directory Entries** | | | | |
| 119 | Name: E-Tech Motorsport<br>Location: 4, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Car Radiator Servicing & Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 611 | - | 471403 106266 |
| | **Contemporary Trade Directory Entries** | | | | |
| 120 | Name: Plastic Engineering Solutions<br>Location: 23, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Plastics - Injection Moulding<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 569 | - | 471344 106188 |
| | **Contemporary Trade Directory Entries** | | | | |
| 120 | Name: P D L Technologies Ltd<br>Location: 13, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Spraying - Paint & Coatings<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 579 | - | 471357 106196 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 121 | Name: J Price & Son<br>Location: 108, Bedhampton Road, Havant, Hampshire, PO9 3EZ<br>Classification: Road Haulage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A17SE (NW) | 592 | - | 470346 106731 |
| | **Contemporary Trade Directory Entries** | | | | |
| 122 | Name: Navtec North Europe<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JJ<br>Classification: Marine Equipment & Supplies<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 609 | - | 470985 105767 |
| | **Contemporary Trade Directory Entries** | | | | |
| 122 | Name: Lewmar Ltd<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JJ<br>Classification: Marine Engineering Equipment Manufacturers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8NE (S) | 609 | - | 470985 105767 |
| | **Contemporary Trade Directory Entries** | | | | |
| 123 | Name: R J B Performance<br>Location: 28, Lester Avenue, Havant, Hampshire, PO9 3HE<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A18SW (NW) | 611 | - | 470467 106861 |
| | **Contemporary Trade Directory Entries** | | | | |
| 124 | Name: H & R Fabrications & Finishers Ltd<br>Location: 12-12a, The Tanneries, Brockhampton Lane, Havant, Hampshire, PO9 1JB<br>Classification: Sheet Metal Work<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 618 | - | 471403 106224 |
| | **Contemporary Trade Directory Entries** | | | | |
| 125 | Name: Commercial Printers (Portsmouth) Ltd<br>Location: 39, Park Way, Havant, Hampshire, PO9 1HH<br>Classification: Printers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14NW (E) | 632 | - | 471427 106404 |
| | **Contemporary Trade Directory Entries** | | | | |
| 125 | Name: Performance Car Co<br>Location: 39, Park Way, Havant, Hampshire, PO9 1HH<br>Classification: Car Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14NW (E) | 632 | - | 471427 106404 |
| | **Contemporary Trade Directory Entries** | | | | |
| 126 | Name: Henry Jones Joinery Ltd<br>Location: 59-61, West Street, Havant, Hampshire, PO9 1LB<br>Classification: Joinery Manufacturers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 634 | - | 471428 106291 |
| | **Contemporary Trade Directory Entries** | | | | |
| 126 | Name: Alandown Motors Ltd<br>Location: 98, West Street, Havant, Hampshire, PO9 1LN<br>Classification: Mot Testing Centres<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 638 | - | 471435 106336 |
| | **Contemporary Trade Directory Entries** | | | | |
| 126 | Name: Havant Car Connection<br>Location: 98, West Street, Havant, Hampshire, PO9 1LN<br>Classification: Car Dealers - Used<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A14SW (E) | 638 | - | 471435 106336 |
| | **Contemporary Trade Directory Entries** | | | | |
| 126 | Name: Lawrence Warner Specialist Cars<br>Location: 98, West Street, Havant, Hampshire, PO9 1LN<br>Classification: Car Dealers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A14SW (E) | 638 | - | 471435 106336 |
| | **Contemporary Trade Directory Entries** | | | | |
| 127 | Name: Havant War Memorial Hospital<br>Location: 59, Cross Way, Havant, Hampshire, PO9 1NG<br>Classification: Hospitals<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14NW (NE) | 635 | - | 471371 106616 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 128 | Name: Sam Hartley<br>Location: Bidbury Lawn, Bidbury Lane, HAVANT, Hampshire, PO9 3JG<br>Classification: Car Dealers - Used<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A12NE (W) | 637 | - | 470178 106499 |
| | **Contemporary Trade Directory Entries** | | | | |
| 129 | Name: Seward Lyndhurst<br>Location: unit 1,Southmoor La, Havant, Hampshire, PO9 1JW<br>Classification: Car Body Repairs<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8NE (S) | 642 | - | 470948 105722 |
| | **Contemporary Trade Directory Entries** | | | | |
| 130 | Name: Hydro Cool<br>Location: 46, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Water Coolers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 646 | - | 470447 105804 |
| | **Contemporary Trade Directory Entries** | | | | |
| 130 | Name: Fairview Lifting Gear Services<br>Location: 47, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Lifting Equipment<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A7NE (SW) | 648 | - | 470449 105799 |
| | **Contemporary Trade Directory Entries** | | | | |
| 131 | Name: Burrows Bros Engineering Ltd<br>Location: Selbourne Road, Havant, Hampshire, PO9 1ND<br>Classification: Engineers - General<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 653 | - | 471411 106123 |
| | **Contemporary Trade Directory Entries** | | | | |
| 132 | Name: Lewis Mobility<br>Location: 51, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Disability Equipment - Manufacturers & Suppliers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8NW (SW) | 659 | - | 470462 105778 |
| | **Contemporary Trade Directory Entries** | | | | |
| 132 | Name: Supply Team<br>Location: 52, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Pharmaceutical Manufacturers & Distributors<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8NW (SW) | 662 | - | 470466 105773 |
| | **Contemporary Trade Directory Entries** | | | | |
| 132 | Name: Pds Instruments<br>Location: 7, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Electronic Component Manufacturers & Distributors<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A8NW (SW) | 691 | - | 470461 105742 |
| | **Contemporary Trade Directory Entries** | | | | |
| 133 | Name: C4<br>Location: 42-43, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Commercial Cleaning Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 659 | - | 470417 105807 |
| | **Contemporary Trade Directory Entries** | | | | |
| 133 | Name: Select Freight Ltd<br>Location: 42, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Freight Forwarders<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 659 | - | 470417 105807 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 133 | Name: Hfms Ltd<br>Location: 37, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Mechanical Engineers<br>**Status:** **Active**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 700 | - | 470390 105776 |
| | **Contemporary Trade Directory Entries** | | | | |
| 133 | Name: Raft Systems Ltd<br>Location: 24, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Telecommunications Equipment & Systems<br>**Status:** **Active**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 716 | - | 470402 105748 |
| | **Contemporary Trade Directory Entries** | | | | |
| 133 | Name: Tt Coil Ltd<br>Location: 18, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Heat Exchangers<br>**Status:** **Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 716 | - | 470402 105748 |
| | **Contemporary Trade Directory Entries** | | | | |
| 133 | Name: 2 Teck Ltd<br>Location: 19, Broadmarsh Business & Innovation Centre, Harts Farm Way, Havant, Hampshire, PO9 1HS<br>Classification: Air Conditioning & Refrigeration Contractors<br>**Status:** **Active**<br>Positional Accuracy: Manually positioned to the address or location | A7NE (SW) | 716 | - | 470402 105748 |
| | **Contemporary Trade Directory Entries** | | | | |
| 134 | Name: Pharmstead Uk Ltd<br>Location: Broadmarsh Business Park,Unit 53 Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Chemists' & Pharmacists' Suppliers & Wholesalers<br>**Status:** **Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8NW (SW) | 664 | - | 470538 105734 |
| | **Contemporary Trade Directory Entries** | | | | |
| 135 | Name: Xyratex<br>Location: Langstone Road, Havant, Hampshire, PO9 1SA<br>Classification: Computer Manufacturers<br>**Status:** **Active**<br>Positional Accuracy: Automatically positioned to the address | A8NW (SE) | 666 | - | 471216 105828 |
| | **Contemporary Trade Directory Entries** | | | | |
| 136 | Name: Park Way Centre<br>Location: Park Way, Havant, Hampshire, PO9 1HH<br>Classification: Hospitals<br>**Status:** **Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14NW (E) | 684 | - | 471466 106492 |
| | **Contemporary Trade Directory Entries** | | | | |
| 137 | Name: Visitech<br>Location: Solent Rd, Havant, Hampshire, PO9 1TR<br>Classification: Plastic Products - Manufacturers<br>**Status:** **Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A14SW (SE) | 692 | - | 471434 106075 |
| | **Contemporary Trade Directory Entries** | | | | |
| 138 | Name: Six O<br>Location: Bosmere Building, School Road, Havant, Hampshire, PO9 1NA<br>Classification: Road Haulage Services<br>**Status:** **Active**<br>Positional Accuracy: Automatically positioned to the address | A14SW (E) | 701 | - | 471468 106145 |
| | **Contemporary Trade Directory Entries** | | | | |
| 139 | Name: Mercury Graphics Ltd<br>Location: 1a, Brockhampton Lane, Havant, Hampshire, PO9 1LU<br>Classification: Copying & Duplicating Services<br>**Status:** **Active**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 716 | - | 471509 106272 |
| | **Contemporary Trade Directory Entries** | | | | |
| 139 | Name: Printline<br>Location: 1a, Brockhampton Lane, Havant, Hampshire, PO9 1LU<br>Classification: Printers<br>**Status:** **Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 716 | - | 471509 106272 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 139 | Name: Ers Engineering Services<br>Location: 8-12, Park Road South, Havant, Hampshire, PO9 1HB<br>Classification: Engineers - General<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 754 | - | 471546 106259 |
| | **Contemporary Trade Directory Entries** | | | | |
| 140 | Name: Solent Aggregates Ltd<br>Location: Bedhampton Quay, Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Sand, Gravel & Other Aggregates<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SW (S) | 754 | - | 470535 105640 |
| | **Contemporary Trade Directory Entries** | | | | |
| 140 | Name: Busymix Concrete Ltd<br>Location: Bedhampton Quay, Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Concrete & Mortar Ready Mixed<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SW (S) | 754 | - | 470535 105640 |
| | **Contemporary Trade Directory Entries** | | | | |
| 141 | Name: Seward Accident Repair Centres Ltd<br>Location: Langstone House, Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Car Body Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned in the proximity of the address | A8SE (S) | 768 | - | 470927 105589 |
| | **Contemporary Trade Directory Entries** | | | | |
| 141 | Name: Southmoore Screen Printing<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Screen Process Printers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned in the proximity of the address | A8SE (S) | 768 | - | 470927 105589 |
| | **Contemporary Trade Directory Entries** | | | | |
| 141 | Name: Dot In Print<br>Location: Unit 5 Beaver Indust Est,Southmoor La, Havant, Hampshire, PO9 1JW<br>Classification: Printers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 785 | - | 470961 105578 |
| | **Contemporary Trade Directory Entries** | | | | |
| 141 | Name: Protool Manufacturing Ltd<br>Location: Southmoor La, Havant, Hampshire, PO9 1JW<br>Classification: Tool Design, Manufacturers & Makers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 787 | - | 470961 105576 |
| | **Contemporary Trade Directory Entries** | | | | |
| 141 | Name: Innova Design & Build<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 793 | - | 470961 105570 |
| | **Contemporary Trade Directory Entries** | | | | |
| 141 | Name: Langstone Arc<br>Location: Beaver Indu Estate,Southmoor La, Havant, Hampshire, PO9 1JW<br>Classification: Car Body Repairs<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 817 | - | 470961 105546 |
| | **Contemporary Trade Directory Entries** | | | | |
| 142 | Name: Hanson Aggregates<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Concrete & Mortar Ready Mixed<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A7SE (SW) | 773 | - | 470421 105670 |
| | **Contemporary Trade Directory Entries** | | | | |
| 143 | Name: Aegina Technologies<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Precision Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 787 | - | 471010 105589 |
| | **Contemporary Trade Directory Entries** | | | | |
| 143 | Name: Aegina Technologies Ltd<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Precision Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 787 | - | 471010 105589 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 143 | Name: Aegina Technologies<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Aviation Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 787 | - | 471010 105589 |
| | **Contemporary Trade Directory Entries** | | | | |
| 143 | Name: Aegina Technologies Ltd<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Engineering Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 787 | - | 471010 105589 |
| | **Contemporary Trade Directory Entries** | | | | |
| 143 | Name: Sewards<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Car Body Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 810 | - | 471004 105563 |
| | **Contemporary Trade Directory Entries** | | | | |
| 143 | Name: Rowland Way Ltd<br>Location: Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Spraying - Paint & Coatings<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 816 | - | 471053 105571 |
| | **Contemporary Trade Directory Entries** | | | | |
| 144 | Name: Supasnaps<br>Location: 29, West Street, Havant, Hampshire, PO9 1ER<br>Classification: Photographic Processors<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 804 | - | 471597 106270 |
| | **Contemporary Trade Directory Entries** | | | | |
| 145 | Name: Shell (Uk) Ltd<br>Location: 5, Park Road South, Havant, Hampshire, PO9 1HA<br>Classification: Petrol Filling Stations - 24 Hour<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 807 | - | 471590 106196 |
| | **Contemporary Trade Directory Entries** | | | | |
| 146 | Name: Microsport Ski Simulators Ltd<br>Location: 21, Lodge Road, Havant, Hampshire, PO9 3LL<br>Classification: Sports Equipment Manufacturers & Distributors<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A12NW (W) | 824 | - | 469973 106375 |
| | **Contemporary Trade Directory Entries** | | | | |
| 147 | Name: Langstone Engineering Ltd<br>Location: Langstone House, Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 846 | - | 471027 105531 |
| | **Contemporary Trade Directory Entries** | | | | |
| 147 | Name: Seward<br>Location: Langstone House, Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Commercial Vehicle Bodybuilders & Repairers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 846 | - | 471027 105531 |
| | **Contemporary Trade Directory Entries** | | | | |
| 147 | Name: Seward<br>Location: Langstone House, Southmoor Lane, Havant, Hampshire, PO9 1JW<br>Classification: Car Body Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 846 | - | 471027 105531 |
| | **Contemporary Trade Directory Entries** | | | | |
| 148 | Name: Solent Cleaners Ltd<br>Location: 34, West Street, Havant, Hampshire, PO9 1PG<br>Classification: Dry Cleaners<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 854 | - | 471650 106304 |
| | **Contemporary Trade Directory Entries** | | | | |
| 149 | Name: Tudor Blinds<br>Location: 50, Park Lane, Bedhampton, Havant, Hampshire, PO9 3HL<br>Classification: Blinds, Awnings & Canopies<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A17NE (NW) | 854 | - | 470435 107119 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 150 | Name: A & J Bull<br>Location: Southmoor La, Havant, Hampshire, PO9 1JW<br>Classification: Waste Disposal Services<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 856 | - | 470960 105506 |
| | **Contemporary Trade Directory Entries** | | | | |
| 150 | Name: East-West Trading<br>Location: Unit 1 & 2,Beaver Industrial Estate,Southmoor La, Havant, Hampshire, PO9 1JW<br>Classification: Fireplaces & Mantelpieces<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A8SE (S) | 884 | - | 470960 105477 |
| | **Contemporary Trade Directory Entries** | | | | |
| 150 | Name: Precision Products (Portsmouth) Ltd<br>Location: Unit 2/A, Alexandria Park 1, Penner Road, Havant, Hampshire, PO9 1QY<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 902 | - | 471006 105469 |
| | **Contemporary Trade Directory Entries** | | | | |
| 150 | Name: Precision Products<br>Location: Unit 2/A, Alexandria Park, 1, Penner Road, Havant, Hampshire, PO9 1QY<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 902 | - | 471006 105469 |
| | **Contemporary Trade Directory Entries** | | | | |
| 151 | Name: Ian Golds Tackle Developments Ltd<br>Location: 4, Scratchface Lane, Havant, Hampshire, PO9 3NG<br>Classification: Fishing & Angling Equipment - Manufacturers & Distributors<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A17SE (NW) | 883 | - | 470167 106965 |
| | **Contemporary Trade Directory Entries** | | | | |
| 152 | Name: A & F Office Cleaning<br>Location: A, 127, Barncroft Way, Havant, Hampshire, PO9 3AE<br>Classification: Cleaning Services - Commercial<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A19NW (NE) | 909 | - | 471150 107184 |
| | **Contemporary Trade Directory Entries** | | | | |
| 153 | Name: Spx<br>Location: 13, Park Side, Havant, Hampshire, PO9 3PJ<br>Classification: Air Compressors<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A17SW (NW) | 914 | - | 470028 106841 |
| | **Contemporary Trade Directory Entries** | | | | |
| 153 | Name: J W Blunden<br>Location: 14, Park Side, Havant, Hampshire, PO9 3PL<br>Classification: Coal & Smokeless Fuel Merchants & Distributors<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A17SW (NW) | 929 | - | 469996 106818 |
| | **Contemporary Trade Directory Entries** | | | | |
| 154 | Name: F O'Reilly & Son<br>Location: 7, Market Parade, Havant, Hampshire, PO9 1PY<br>Classification: Electrical Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 934 | - | 471720 106485 |
| | **Contemporary Trade Directory Entries** | | | | |
| 155 | Name: Telegraphica Design & Print<br>Location: 29, Elmleigh Road, Havant, Hampshire, PO9 2AA<br>Classification: Printers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 945 | - | 471688 106661 |
| | **Contemporary Trade Directory Entries** | | | | |
| 156 | Name: Bath Renovation & Management Services<br>Location: Homewell House, 22, Homewell, Havant, Hampshire, PO9 1EE<br>Classification: Bath Resurfacing<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A14SE (E) | 947 | - | 471732 106194 |
| | **Contemporary Trade Directory Entries** | | | | |
| 156 | Name: All About Gas Heating & Plumbing Services<br>Location: 16, The Parchment, Havant, Hampshire, PO9 1HD<br>Classification: Boilers - Servicing, Replacements & Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 952 | - | 471729 106150 |

| Map ID | Details | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Contemporary Trade Directory Entries** | | | | |
| 157 | Name: Robert Dyas Ltd<br>Location: 8-10, Meridian Centre, Havant, Hampshire, PO9 1UW<br>Classification: Hardware<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 958 | - | 471754 106361 |
| | **Contemporary Trade Directory Entries** | | | | |
| 157 | Name: Wilkinson Hardware Store<br>Location: 23, Meridian Centre, HAVANT, Hampshire, PO9 1UW<br>Classification: Hardware<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 958 | - | 471754 106361 |
| | **Contemporary Trade Directory Entries** | | | | |
| 158 | Name: Blazes Fireplace Centres<br>Location: 23-25, Market Parade, Havant, Hampshire, PO9 1PY<br>Classification: Fireplaces & Mantelpieces<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 964 | - | 471742 106537 |
| | **Contemporary Trade Directory Entries** | | | | |
| 159 | Name: Currys<br>Location: 6, West Street, Havant, Hampshire, PO9 1PF<br>Classification: Electrical Goods Sales, Manufacturers & Wholesalers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14SE (E) | 971 | - | 471765 106278 |
| | **Contemporary Trade Directory Entries** | | | | |
| 160 | Name: Pure Chic Interiors<br>Location: Bedhampton Hill, Havant, Hampshire, PO9 3JW<br>Classification: Furniture - Repairing & Restoring<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A12NW (W) | 973 | - | 469824 106373 |
| | **Contemporary Trade Directory Entries** | | | | |
| 161 | Name: Havent & Emsworth Laundrette<br>Location: 34, Market Parade, Havant, Hampshire, PO9 1QF<br>Classification: Laundries & Launderettes<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A14NE (E) | 992 | - | 471779 106491 |
| | **Contemporary Trade Directory Entries** | | | | |
| 162 | Name: B L Wilson<br>Location: 26, Scratchface Lane, Havant, Hampshire, PO9 3NG<br>Classification: Boatbuilders & Repairers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A17SW (NW) | 993 | - | 470027 106974 |
| | **Contemporary Trade Directory Entries** | | | | |
| 163 | Name: Allied National Group<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Pallets, Crates & Packing Cases<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the address or location | A8SE (S) | 994 | - | 470890 105356 |
| | **Contemporary Trade Directory Entries** | | | | |
| 163 | Name: Allied National Group<br>Location: Harts Farm Way, Havant, Hampshire, PO9 1JN<br>Classification: Pallets, Crates & Packing Cases<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A8SE (S) | 994 | - | 470890 105356 |
| | **Contemporary Trade Directory Entries** | | | | |
| 164 | Name: Pesd (Engineering) Ltd<br>Location: 20, South Street, Havant, Hampshire, PO9 1DA<br>Classification: Engineers - General<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the address or location | A14SE (E) | 998 | - | 471754 106064 |
| | **Fuel Station Entries** | | | | |
| 165 | Name: Cambridge Garage<br>Location: 23 Bedhampton Road, HAVANT, Hampshire, PO9 3ES<br>Brand: Obsolete<br>Premises Type: Not Applicable<br>**Status: Obsolete**<br>Positional Accuracy: Automatically positioned to the address | A13NW (NW) | 336 | - | 470568 106592 |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Fuel Station Entries** | | | | | |
| 166 | Name: | Hendy Lennox | A19SW (NE) | 537 | - | 471136 106763 |
| | Location: | New Road, HAVANT, Hampshire, PO9 1DE | | | | |
| | Brand: | Obsolete | | | | |
| | Premises Type: | Not Applicable | | | | |
| | **Status:** | **Obsolete** | | | | |
| | Positional Accuracy: | Automatically positioned to the address | | | | |
| | **Fuel Station Entries** | | | | | |
| 167 | Name: | Havant Lorry Park | A8NE (S) | 629 | - | 470946 105735 |
| | Location: | Southmoor Lane, HAVANT, Hampshire, PO9 1JW | | | | |
| | Brand: | C H Jones | | | | |
| | Premises Type: | Petrol Station | | | | |
| | **Status:** | **Non-Retail** | | | | |
| | Positional Accuracy: | Manually positioned to the road within the address or location | | | | |
| | **Fuel Station Entries** | | | | | |
| 168 | Name: | Tesco Havant Langstone Harbour | A14SE (SE) | 771 | - | 471494 106017 |
| | Location: | Solent Road, HAVANT, Hampshire, PO9 1TR | | | | |
| | Brand: | TESCO | | | | |
| | Premises Type: | Hypermarket | | | | |
| | **Status:** | **Open** | | | | |
| | Positional Accuracy: | Automatically positioned to the address | | | | |
| | **Fuel Station Entries** | | | | | |
| 169 | Name: | Park Road South Service Station | A14SE (E) | 807 | - | 471590 106196 |
| | Location: | Park Road South, Bulbeck Road, HAVANT, Hampshire, PO9 1HA | | | | |
| | Brand: | Texaco | | | | |
| | Premises Type: | Not Applicable | | | | |
| | **Status:** | **Obsolete** | | | | |
| | Positional Accuracy: | Automatically positioned to the address | | | | |

| Map ID | Details | | Quadrant Reference (Compass | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|---|
| | **Nitrate Vulnerable Zones** | | | | | |
| 170 | Name: | Not Supplied | A13NE (NE) | 0 | 6 | 470825 106380 |
| | Description: | Groundwater | | | | |
| | Source: | Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | | | | |

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# Data Currency

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Contaminated Land Register Entries and Notices** | | |
| East Hampshire District Council - Environmental Health Department | August 2008 | Annual Rolling Update |
| Havant Borough Council - Environmental Health Department | December 2008 | Annual Rolling Update |
| Chichester District Council - Environmental Health Department | July 2008 | Annual Rolling Update |
| Portsmouth City Council - Health and Trading Standards | March 2009 | Annual Rolling Update |
| Winchester City Council - Environmental Health Department | October 2008 | Annual Rolling Update |
| **Discharge Consents** | | |
| Environment Agency - Southern Region | January 2009 | Quarterly |
| **Enforcement and Prohibition Notices** | | |
| Environment Agency - Southern Region | March 2009 | As notified |
| **Integrated Pollution Controls** | | |
| Environment Agency - Southern Region | October 2008 | Quarterly |
| **Integrated Pollution Prevention And Control** | | |
| Environment Agency - Southern Region | January 2009 | Quarterly |
| **Local Authority Integrated Pollution Prevention And Control** | | |
| Winchester City Council - Environmental Health Department | April 2008 | Annual Rolling Update |
| Havant Borough Council - Environmental Health Department | December 2008 | Annual Rolling Update |
| East Hampshire District Council - Environmental Health Department | February 2007 | Annual Rolling Update |
| Chichester District Council - Environmental Health Department | March 2008 | Annual Rolling Update |
| Portsmouth City Council - Environmental Health Department | September 2008 | Annual Rolling Update |
| **Local Authority Pollution Prevention and Controls** | | |
| Winchester City Council - Environmental Health Department | April 2008 | Annual Rolling Update |
| Havant Borough Council - Environmental Health Department | December 2008 | Annual Rolling Update |
| East Hampshire District Council - Environmental Health Department | February 2007 | Annual Rolling Update |
| Chichester District Council - Environmental Health Department | March 2008 | Annual Rolling Update |
| Portsmouth City Council - Environmental Health Department | September 2008 | Annual Rolling Update |
| **Local Authority Pollution Prevention and Control Enforcements** | | |
| Winchester City Council - Environmental Health Department | April 2008 | Annual Rolling Update |
| Chichester District Council - Environmental Health Department | April 2009 | Annual Rolling Update |
| Havant Borough Council - Environmental Health Department | December 2008 | Annual Rolling Update |
| East Hampshire District Council - Environmental Health Department | February 2007 | Annual Rolling Update |
| Portsmouth City Council - Environmental Health Department | September 2008 | Annual Rolling Update |
| **Nearest Surface Water Feature** | | |
| Ordnance Survey | December 2008 | Quarterly |
| **Pollution Incidents to Controlled Waters** | | |
| Environment Agency - Southern Region | December 1999 | Not Applicable |
| **Prosecutions Relating to Authorised Processes** | | |
| Environment Agency - Southern Region | February 2009 | As notified |
| **Prosecutions Relating to Controlled Waters** | | |
| Environment Agency - Southern Region | March 2009 | As notified |
| **Registered Radioactive Substances** | | |
| Environment Agency - Southern Region | January 2009 | Quarterly |
| **River Quality** | | |
| Environment Agency - Head Office | November 2001 | Not Applicable |
| **River Quality Biology Sampling Points** | | |
| Environment Agency - Head Office | September 2007 | Annually |
| **River Quality Chemistry Sampling Points** | | |
| Environment Agency - Head Office | August 2007 | Annually |
| **Substantiated Pollution Incident Register** | | |
| Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office | January 2009 | Quarterly |
| Environment Agency - Southern Region - Sussex Area | January 2009 | Quarterly |

# Data Currency

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Water Abstractions** | | |
| Environment Agency - Southern Region | January 2009 | Quarterly |
| **Water Industry Act Referrals** | | |
| Environment Agency - Southern Region | January 2009 | Quarterly |
| **Groundwater Vulnerability** | | |
| Environment Agency - Head Office | January 1999 | Not Applicable |
| **Drift Deposits** | | |
| Environment Agency - Head Office | January 1999 | Not Applicable |
| **Source Protection Zones** | | |
| Environment Agency - Head Office | September 2008 | Variable |
| **Extreme Flooding from Rivers or Sea without Defences** | | |
| Environment Agency - Head Office | March 2009 | Quarterly |
| **Flooding from Rivers or Sea without Defences** | | |
| Environment Agency - Head Office | March 2009 | Quarterly |
| **Areas Benefiting from Flood Defences** | | |
| Environment Agency - Head Office | March 2009 | Quarterly |
| **Flood Water Storage Areas** | | |
| Environment Agency - Head Office | March 2009 | Quarterly |
| **Flood Defences** | | |
| Environment Agency - Head Office | March 2009 | Quarterly |

| Waste | Version | Update Cycle |
|---|---|---|
| **BGS Recorded Landfill Sites** | | |
| British Geological Survey - National Geoscience Information Service | June 1996 | Not Applicable |
| **Historical Landfill Sites** | | |
| Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office | January 2009 | Quarterly |
| Environment Agency - Southern Region - Sussex Area | January 2009 | Quarterly |
| **Integrated Pollution Control Registered Waste Sites** | | |
| Environment Agency - Southern Region | October 2008 | Quarterly |
| **Licensed Waste Management Facilities (Landfill Boundaries)** | | |
| Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office | January 2009 | Quarterly |
| Environment Agency - Southern Region - Sussex Area | January 2009 | Quarterly |
| **Licensed Waste Management Facilities (Locations)** | | |
| Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office | November 2008 | Quarterly |
| Environment Agency - Southern Region - Sussex Area | November 2008 | Quarterly |
| **Local Authority Landfill Coverage** | | |
| Chichester District Council - Environmental Health Department | May 2000 | Not Applicable |
| East Hampshire District Council | May 2000 | Not Applicable |
| Hampshire County Council - Minerals and Waste Planning | May 2000 | Not Applicable |
| Havant Borough Council - Environmental Health Department | May 2000 | Not Applicable |
| Portsmouth City Council - Environmental Health Department | May 2000 | Not Applicable |
| West Sussex County Council - Environment & Development | May 2000 | Not Applicable |
| Winchester City Council - Environmental Health Department | May 2000 | Not Applicable |
| **Local Authority Recorded Landfill Sites** | | |
| Chichester District Council - Environmental Health Department | May 2000 | Not Applicable |
| East Hampshire District Council | May 2000 | Not Applicable |
| Hampshire County Council - Minerals and Waste Planning | May 2000 | Not Applicable |
| Havant Borough Council - Environmental Health Department | May 2000 | Not Applicable |
| Portsmouth City Council - Environmental Health Department | May 2000 | Not Applicable |
| West Sussex County Council - Environment & Development | May 2000 | Not Applicable |
| Winchester City Council - Environmental Health Department | May 2000 | Not Applicable |
| **Registered Landfill Sites** | | |
| Environment Agency - Southern Region - Hampshire Area | March 2003 | Not Applicable |
| Environment Agency - Southern Region - Sussex Area | March 2003 | Not Applicable |
| **Registered Waste Transfer Sites** | | |
| Environment Agency - Southern Region - Hampshire Area | March 2003 | Not Applicable |
| Environment Agency - Southern Region - Sussex Area | March 2003 | Not Applicable |
| **Registered Waste Treatment or Disposal Sites** | | |
| Environment Agency - Southern Region - Hampshire Area | March 2003 | Not Applicable |
| Environment Agency - Southern Region - Sussex Area | March 2003 | Not Applicable |

# Data Currency

| Hazardous Substances | Version | Update Cycle |
|---|---|---|
| **Control of Major Accident Hazards Sites (COMAH)** | | |
| Health and Safety Executive | October 2008 | Bi-Annually |
| **Explosive Sites** | | |
| Health and Safety Executive | January 2009 | Bi-Annually |
| **Notification of Installations Handling Hazardous Substances (NIHHS)** | | |
| Health and Safety Executive | November 2000 | Not Applicable |
| **Planning Hazardous Substance Enforcements** | | |
| East Hampshire District Council | December 2008 | Annual Rolling Update |
| Havant Borough Council - Commercial Team | July 2008 | Annual Rolling Update |
| Chichester District Council - Planning Department | March 2009 | Annual Rolling Update |
| West Sussex County Council - Environment & Development | October 2006 | Annual Rolling Update |
| Winchester City Council - Waste Management Team | October 2008 | Annual Rolling Update |
| Hampshire County Council - Minerals and Waste Planning | September 2008 | Annual Rolling Update |
| Portsmouth City Council - Planning Office | September 2008 | Annual Rolling Update |
| **Planning Hazardous Substance Consents** | | |
| East Hampshire District Council | December 2008 | Annual Rolling Update |
| Havant Borough Council - Commercial Team | July 2008 | Annual Rolling Update |
| Chichester District Council - Planning Department | March 2009 | Annual Rolling Update |
| West Sussex County Council - Environment & Development | October 2006 | Annual Rolling Update |
| Winchester City Council - Waste Management Team | October 2008 | Annual Rolling Update |
| Hampshire County Council - Minerals and Waste Planning | September 2008 | Annual Rolling Update |
| Portsmouth City Council - Planning Office | September 2008 | Annual Rolling Update |

# Data Currency

| Geological | Version | Update Cycle |
|---|---|---|
| **BGS Recorded Mineral Sites** | | |
| British Geological Survey - National Geoscience Information Service | October 2008 | Bi-Annually |
| **BGS 1:625,000 Solid Geology** | | |
| British Geological Survey - National Geoscience Information Service | August 1996 | Not Applicable |
| **Brine Compensation Area** | | |
| Cheshire Brine Subsidence Compensation Board | November 2002 | As notified |
| **Coal Mining Affected Areas** | | |
| The Coal Authority - Mining Report Service | January 2006 | As notified |
| **Mining Instability** | | |
| Ove Arup & Partners | October 2000 | Not Applicable |
| **Natural and Mining Cavities** | | |
| Peter Brett Associates | December 2005 | Variable |
| **Potential for Collapsible Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | Annually |
| **Potential for Compressible Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | Annually |
| **Potential for Ground Dissolution Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | Annually |
| **Potential for Landslide Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | Annually |
| **Potential for Running Sand Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | Annually |
| **Potential for Shrinking or Swelling Clay Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | Annually |
| **Radon Potential - Radon Affected Areas** | | |
| British Geological Survey - National Geoscience Information Service | May 2007 | Annually |
| **Radon Potential - Radon Protection Measures** | | |
| British Geological Survey - National Geoscience Information Service | May 2007 | Annually |
| **Shallow Mining Hazards** | | |
| British Geological Survey - National Geoscience Information Service | August 2002 | Not Applicable |

| Industrial Land Use | Version | Update Cycle |
|---|---|---|
| **Contemporary Trade Directory Entries** | | |
| Thomson Directories | November 2008 | Quarterly |
| **Fuel Station Entries** | | |
| Catalist Ltd - (Fuel Station Data) | February 2009 | Quarterly |

| Sensitive Land Use | Version | Update Cycle |
|---|---|---|
| **Areas of Outstanding Natural Beauty**<br>Natural England | December 2008 | Bi-Annually |
| **Environmentally Sensitive Areas**<br>Natural England | February 2009 | Annually |
| **Forest Parks**<br>Forestry Commission | April 1997 | Not Applicable |
| **Local Nature Reserves**<br>Natural England | December 2008 | Bi-Annually |
| **Marine Nature Reserves**<br>Natural England | February 2009 | Bi-Annually |
| **National Nature Reserves**<br>Natural England | December 2008 | Bi-Annually |
| **National Parks**<br>Natural England | February 2009 | Annually |
| **Nitrate Sensitive Areas**<br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | December 2003 | Not Applicable |
| **Nitrate Vulnerable Zones**<br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | May 2007 | Annually |
| **Ramsar Sites**<br>Natural England | December 2008 | Bi-Annually |
| **Sites of Special Scientific Interest**<br>Natural England | December 2008 | Bi-Annually |
| **Special Areas of Conservation**<br>Natural England | December 2008 | Bi-Annually |
| **Special Protection Areas**<br>Natural England | December 2008 | Bi-Annually |

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# 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 | |
| Countryside Council for Wales | |
| Scottish Natural Heritage | |
| Natural England | |
| Health Protection Agency | |
| Ove Arup | |
| Peter Brett Associates | |

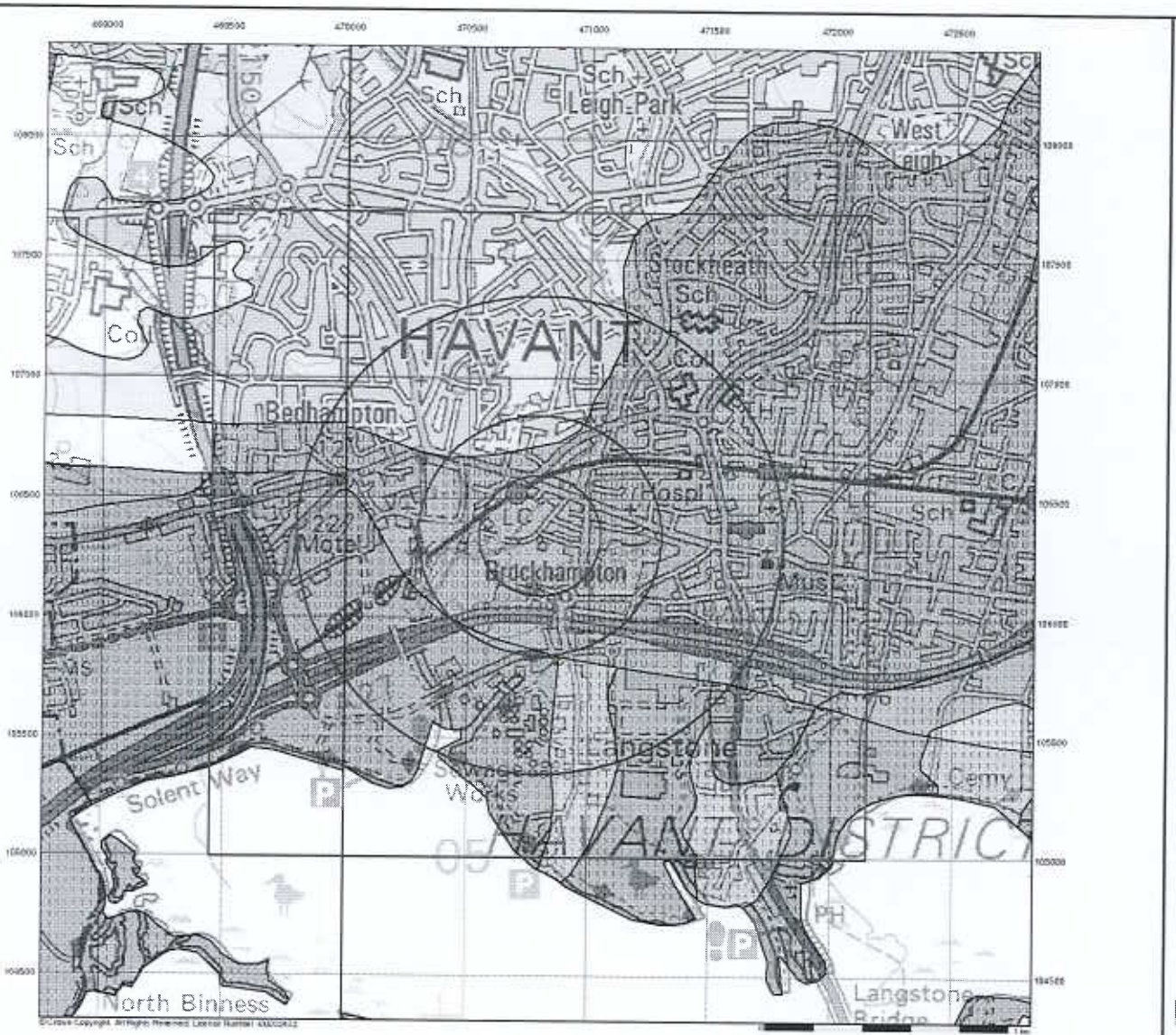
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# Useful Contacts

| Contact | Name and Address | Contact Details |
|---|---|---|
| 1 | **Environment Agency - National Customer Contact Centre (NCCC)**<br>PO Box 544, Templeborough, Rotherham, S60 1BY | Telephone: 08708 506 506<br>Email: enquiries@environment-agency.gov.uk |
| 2 | **Havant Borough Council - Environmental Health Department**<br>Civic Offices, Civic Centre Road, Havant, Hampshire, PO9 2AX | Telephone: 023 92474174<br>Fax: 01705 446659<br>Email: env.services@havant.gov.uk<br>Website: www.havant.gov.uk |
| 3 | **British Geological Survey - Enquiry Service**<br>British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk |
| 4 | **Peter Brett Associates**<br>Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN | Telephone: 0118 950 0761<br>Fax: 0118 959 7498<br>Email: reading@pba.co.uk<br>Website: www.pba.co.uk |
| 5 | **Natural England**<br>Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA | Telephone: 0845 600 3078<br>Fax: 01733 455103<br>Email: enquiries@naturalengland.org.uk<br>Website: www.naturalengland.org.uk |
| 6 | **Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)**<br>Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT | Telephone: 0113 2613333<br>Fax: 0113 230 0879 |
| 7 | **Hampshire County Council - Minerals and Waste Planning**<br>Room 130, Ashburton Court West, The Castle, Winchester, Hampshire, SO23 8UD | Telephone: 01962 841841<br>Fax: 01962 847055<br>Website: www.hants.gov.uk |
| - | **Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards**<br>Chilton, Didcot, Oxfordshire, OX11 0RQ | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@hpa.org.uk<br>Website: www.hpa.org.uk |
| - | **Landmark Information Group Limited**<br>The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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

# Appendix C
# Site Sensitivity Maps




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## Groundwater Vulnerability

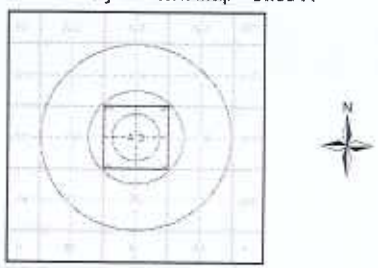
### General

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

### Agency and Hydrological

| Geological Classes | Soil Classes |
|---|---|
| Major Aquifer (Highly Permeable) | High (H) 1, 2, 3, U |
| | Intermediate (I) 1, 2 |
| | Low |
| Minor Aquifer (Variably Permeable) | High (H) 1, 2, 3, U |
| | Intermediate (I) 1, 2 |
| | Low |
| Non Aquifer (Negligibly Permeable) | |
| Water or Sea | |
| Drift Deposit | |

### Site Sensitivity Context Map - Slice A




### Order Details

| | |
|---|---|
| Order Number: | 27638420_1_1 |
| Customer Ref: | 49318640 |
| National Grid Reference: | 470800, 106350 |
| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 1000 |

### Site Details

1 Ranelagh Road, HAVANT, Hampshire, PO9 1NR

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## Source Protection Zones

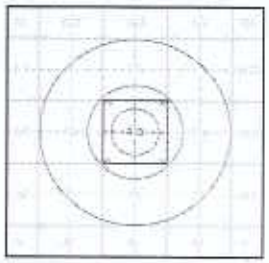
### General

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

### Agency and Hydrological

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

### Site Sensitivity Context Map - Slice A



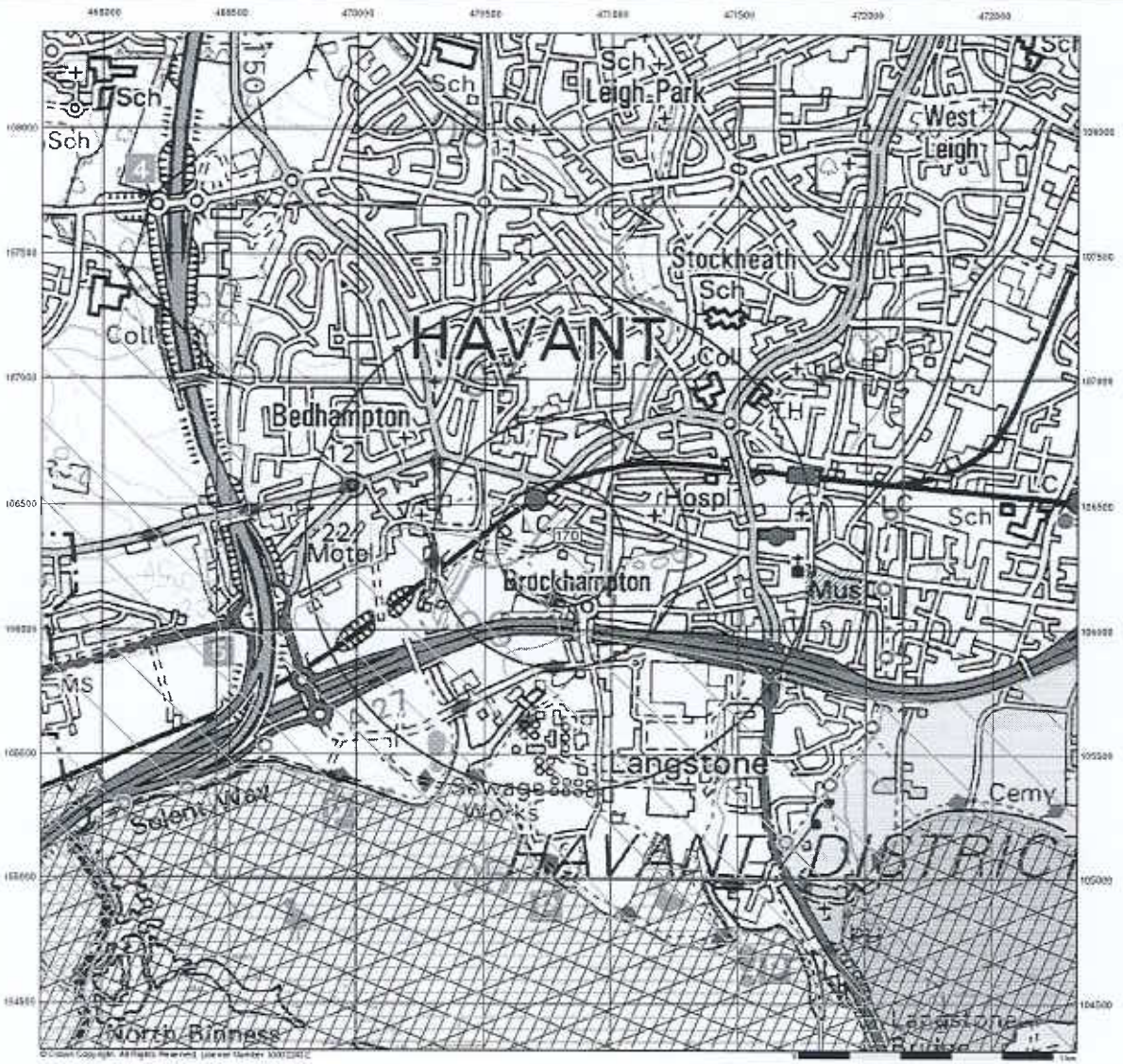
### Order Details

| | |
|---|---|
| Order Number: | 27638420_1_1 |
| Customer Ref: | 49318540 |
| National Grid Reference: | 470800, 106350 |
| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 1000 |

### Site Details

1 Ranelagh Road, HAVANT, Hampshire, PO9 1NR

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## Sensitive Land Uses

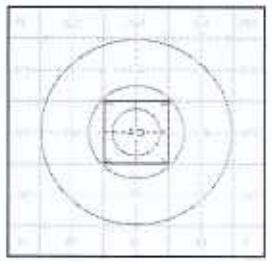
### General

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

### Sensitive Land Uses

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

### Site Sensitivity Context Map - Slice A




### Order Details

| | |
|---|---|
| Order Number: | 27638420_1_1 |
| Customer Ref: | 49318640 |
| National Grid Reference: | 470800, 106350 |
| Slice: | A |
| Site Area (Ha): | 0.01 |
| Search Buffer (m): | 1000 |

### Site Details

1 Ranelagh Road, HAVANT, Hampshire, PO9 1NR

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## Appendix D
## Site Photographs









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