

**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HS  
**Grid Ref:** 560622, 174687

**Map Name:** County Series

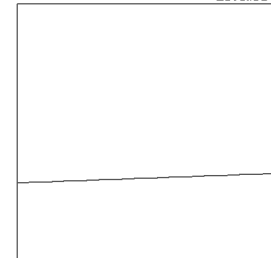
**Map date:** 1938-1939

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1939  
Revised 1939  
Edition N/A  
Copyright N/A  
Levelled N/A



Surveyed 1938  
Revised 1938  
Edition N/A  
Copyright N/A  
Levelled N/A



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

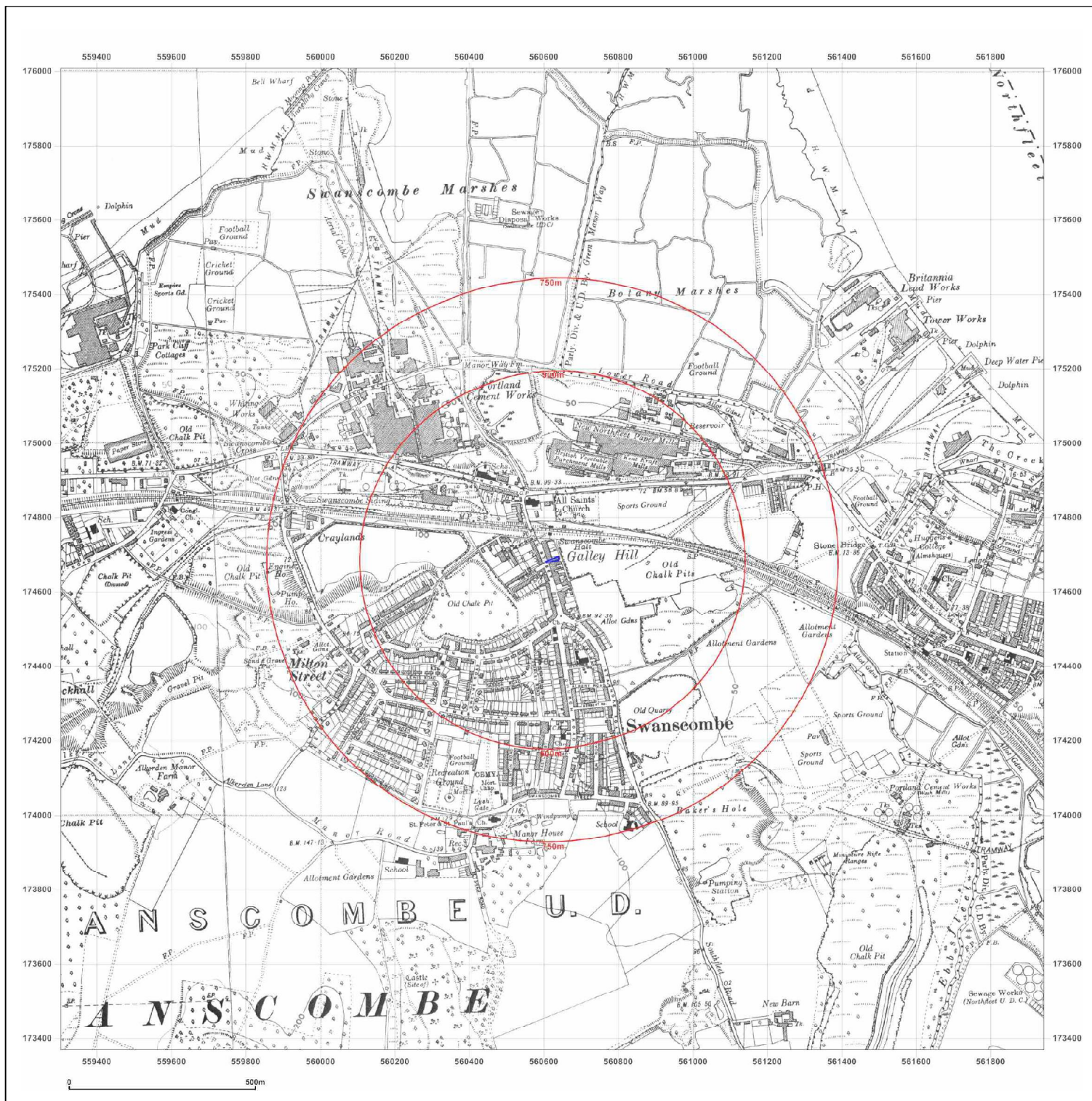
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)



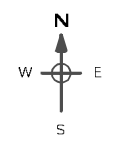




**Site Details:**  
 23 High Street, Swanscombe,  
 Kent, DA10 0AG

**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HS  
**Grid Ref:** 560622, 174687

**Map Name:** County Series  
**Map date:** 1946-1948  
**Scale:** 1:10,560  
**Printed at:** 1:10,560



<p>Surveyed 1864          Revised 1948          Edition N/A          Copyright N/A          Levelled N/A</p>	<p>Surveyed 1864          Revised 1946          Edition N/A          Copyright N/A          Levelled N/A</p>
--	--



Produced by  
 Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)



**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

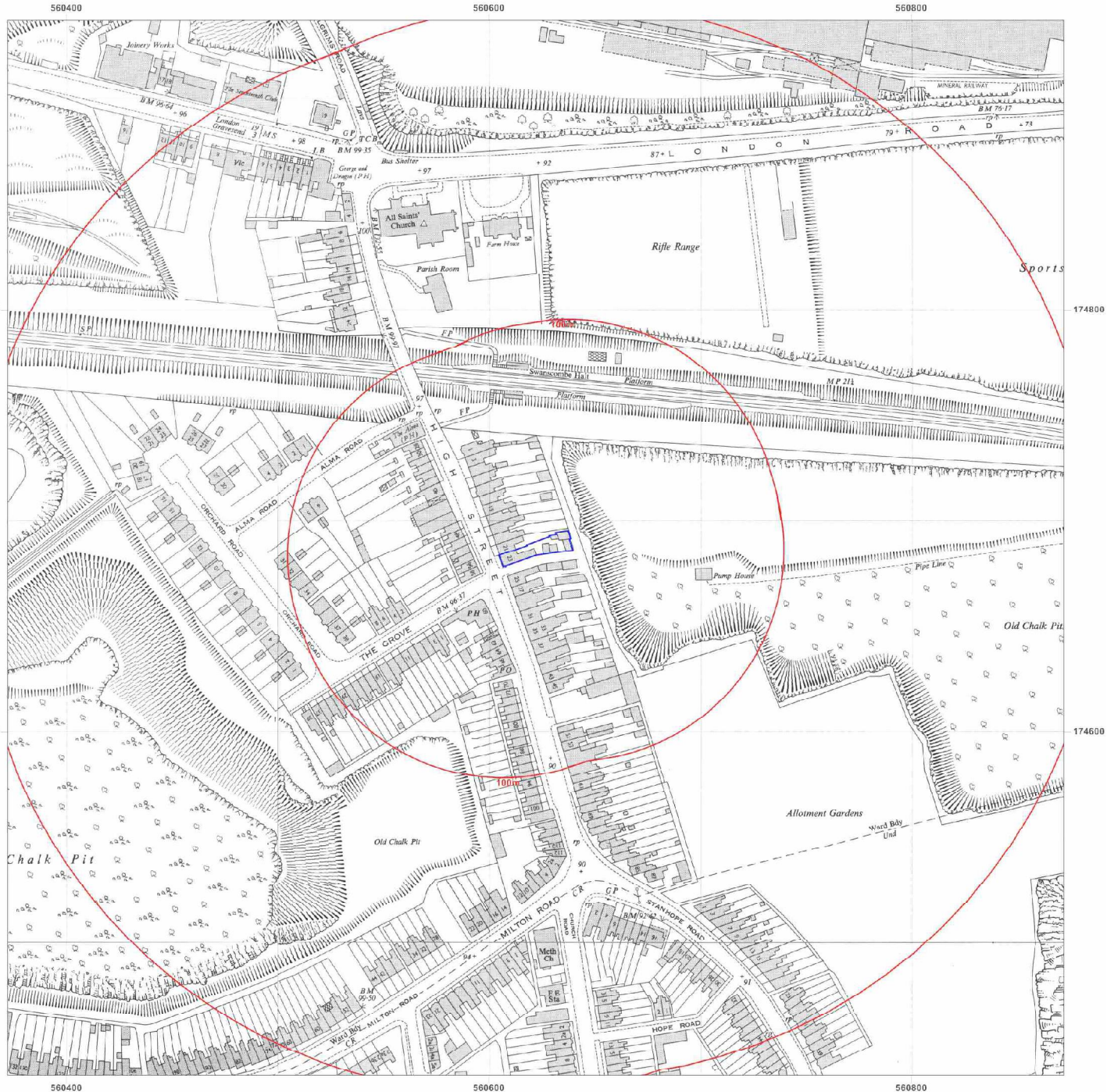
**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 1952

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1952 Revised 1952 Edition N/A Copyright N/A Levelled 1952	Surveyed 1952 Revised 1952 Edition N/A Copyright N/A Levelled 1952
Surveyed 1952 Revised 1952 Edition N/A Copyright N/A Levelled 1952	Surveyed 1952 Revised 1952 Edition N/A Copyright N/A Levelled 1952



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)







**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HS  
**Grid Ref:** 560622, 174687

**Map Name:** Provisional

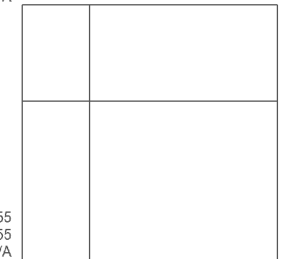
**Map date:** 1961-1966

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1966 Revised 1966 Edition N/A Copyright N/A Levelled N/A	Surveyed 1966 Revised 1966 Edition N/A Copyright N/A Levelled N/A
---	---



Surveyed 1955 Revised 1955 Edition N/A Copyright 1961 Levelled N/A	Surveyed 1966 Revised 1966 Edition N/A Copyright N/A Levelled N/A
--	---



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)







**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

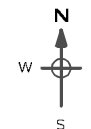
**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 1971-1973

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1952  
Revised 1970  
Edition N/A  
Copyright 1971  
Levelled 1956

Surveyed 1952  
Revised 1970  
Edition N/A  
Copyright 1971  
Levelled 1956

Surveyed 1952  
Revised 1970  
Edition N/A  
Copyright 1971  
Levelled 1952

Surveyed 1952  
Revised 1973  
Edition N/A  
Copyright 1973  
Levelled 1952



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)

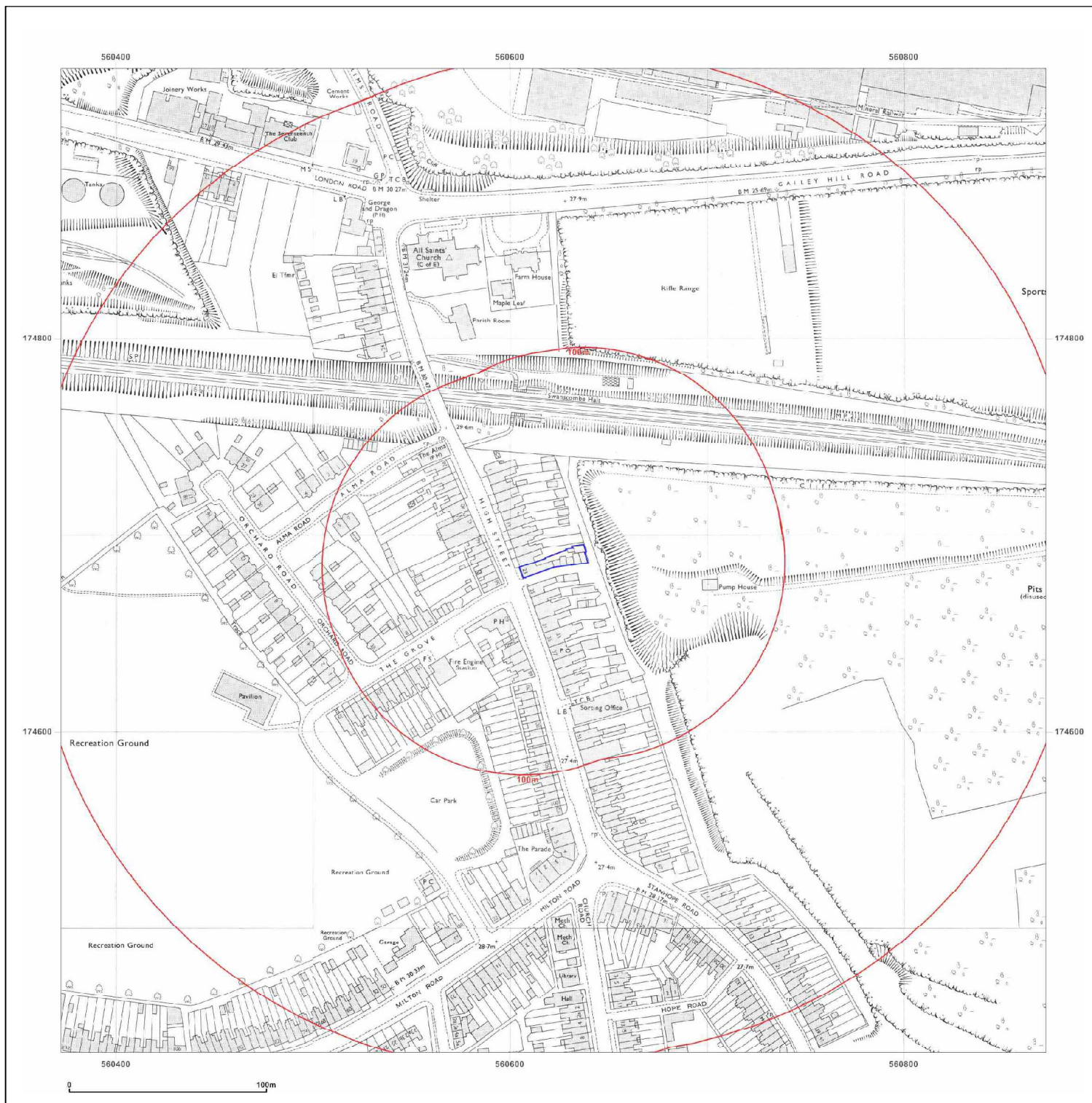


Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)







**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 1971-1974

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1974  
Revised 1974  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1973  
Revised 1973  
Edition N/A  
Copyright N/A  
Levelled N/A



Surveyed 1974  
Revised 1974  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1971  
Revised 1971  
Edition N/A  
Copyright N/A  
Levelled N/A



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)

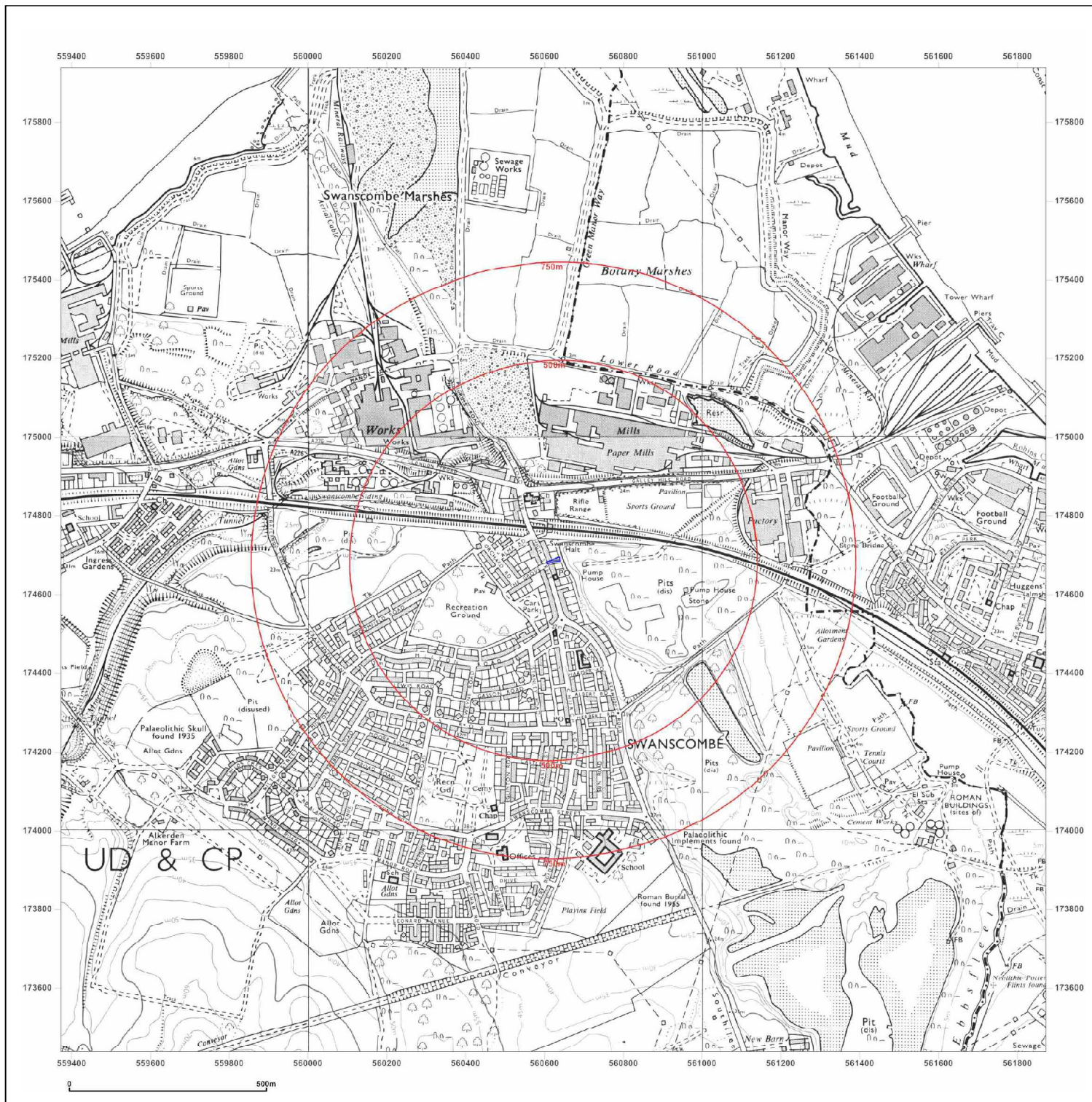


Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

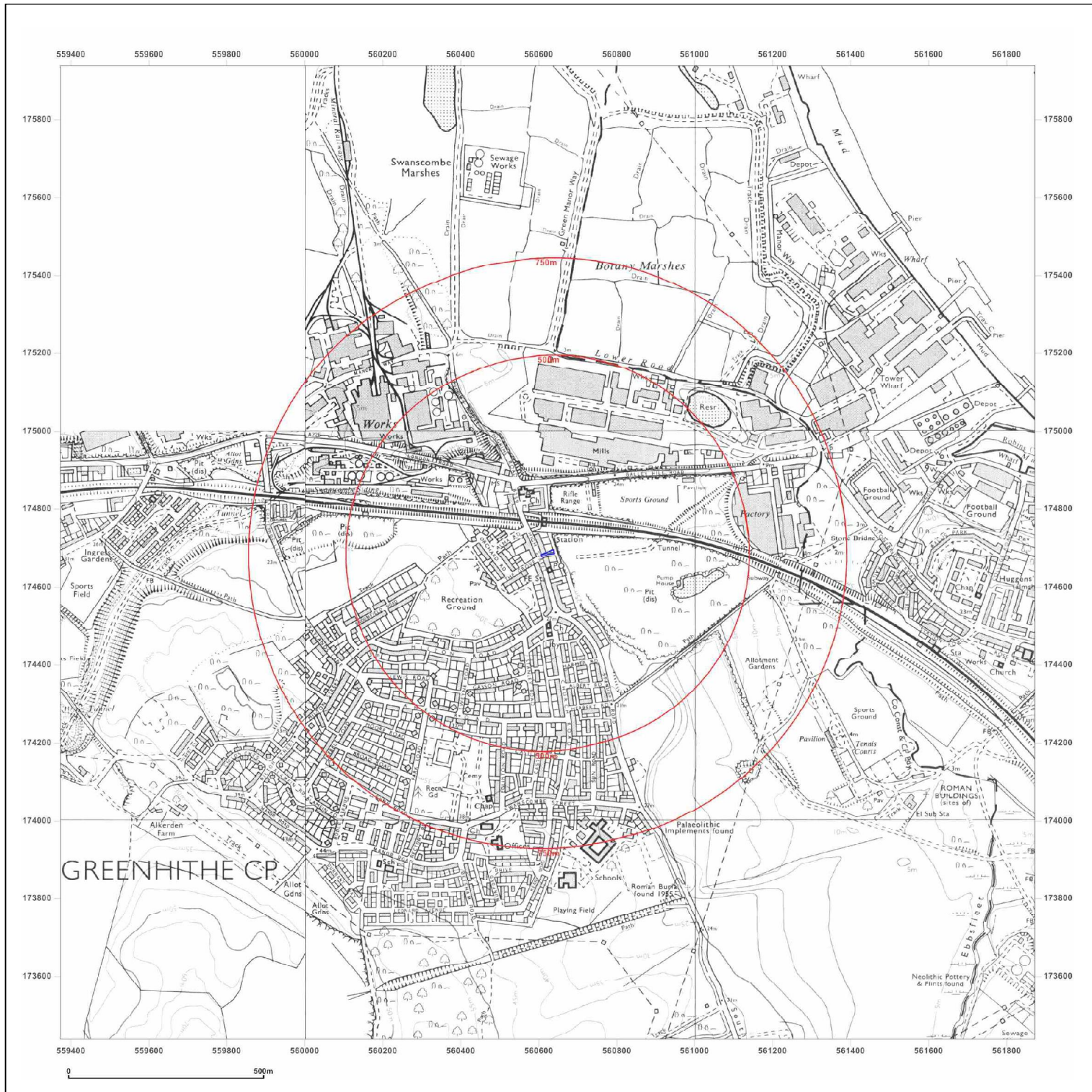
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)







**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

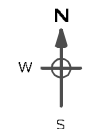
**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

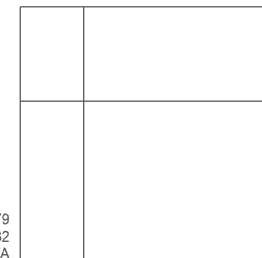
**Map date:** 1977-1982

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1981  
Revised 1982  
Edition N/A  
Copyright N/A  
Levelled N/A



Surveyed 1979  
Revised 1982  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1977  
Revised 1977  
Edition N/A  
Copyright N/A  
Levelled N/A



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)





**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 1983-1988

**Scale:** 1:1,250

**Printed at:** 1:2,000



<p>Surveyed N/A Revised N/A Edition N/A Copyright 1983 Levelled 1956</p>	<p>Surveyed 1984 Revised 1988 Edition N/A Copyright 1988 Levelled 1984</p>
<p>Surveyed 1984 Revised 1985 Edition N/A Copyright 1985 Levelled 1984</p>	



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)

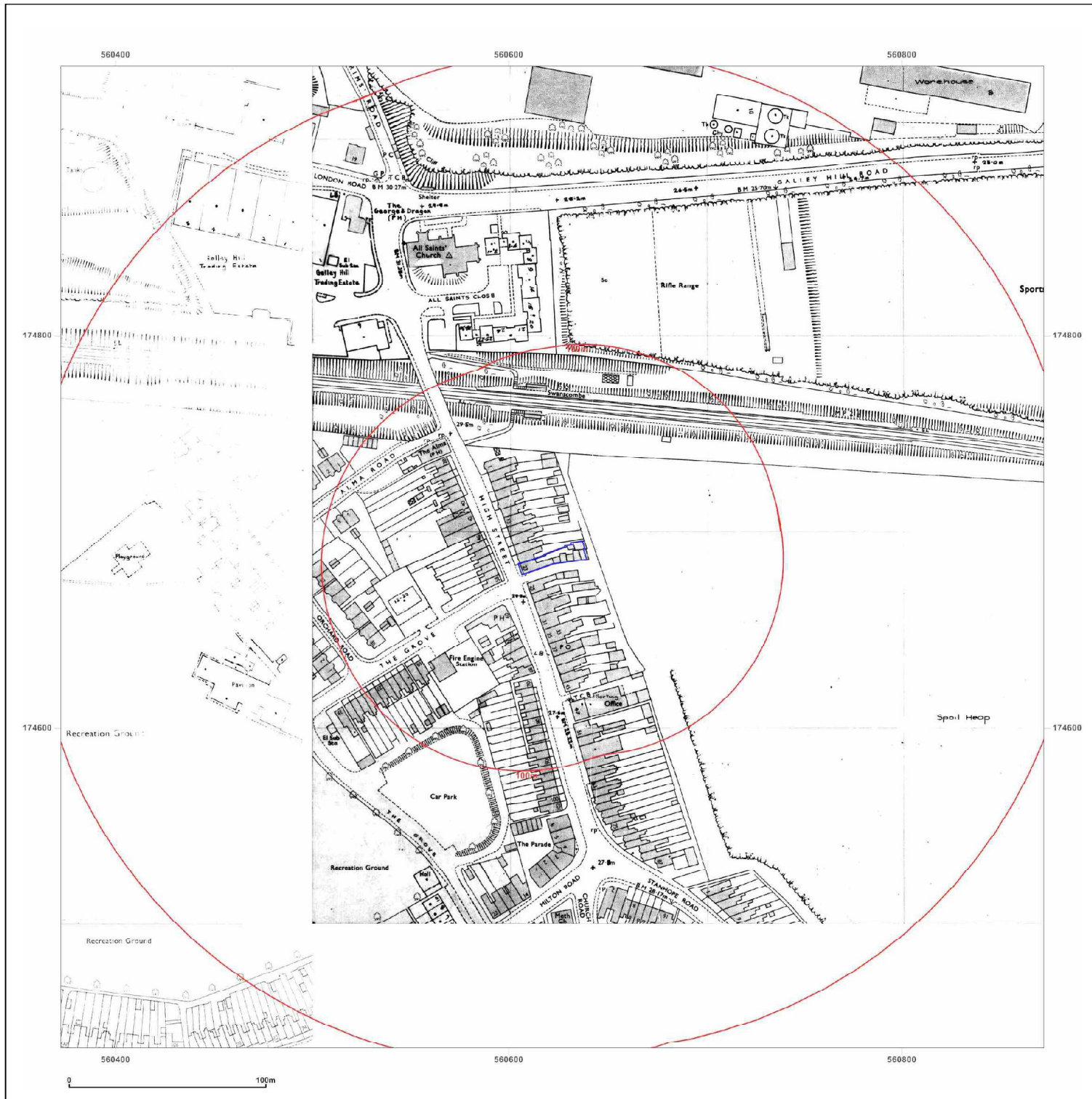


Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)









**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 1990-1993

**Scale:** 1:1,250

**Printed at:** 1:2,000



	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
--	---

Surveyed 1984  
Revised 1990  
Edition N/A  
Copyright 1990  
Levelled 1984



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

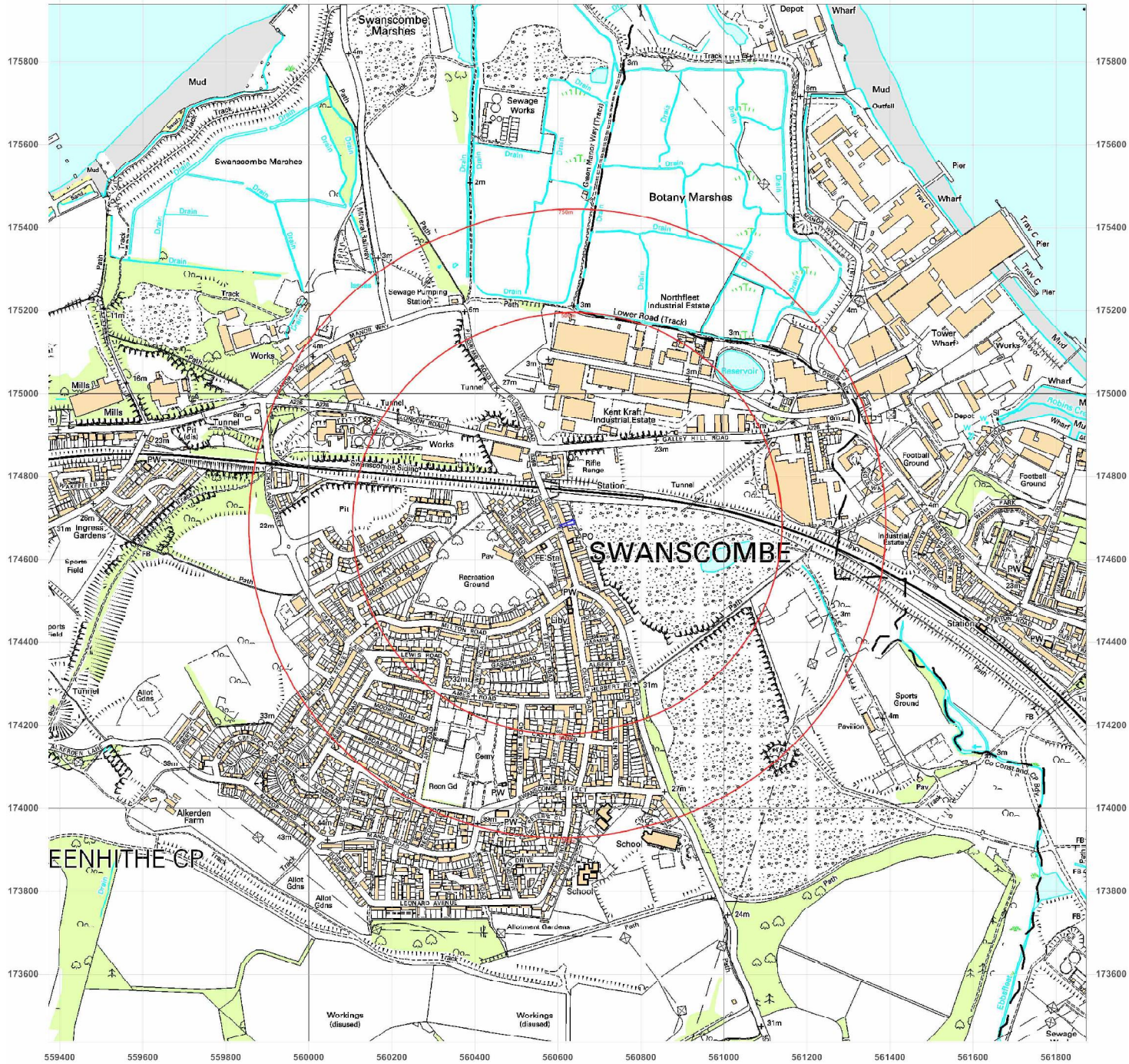
Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)





559400 559600 559800 560000 560200 560400 560600 560800 561000 561200 561400 561600 561800



0 500m



**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

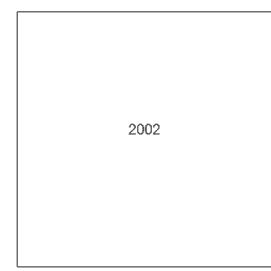
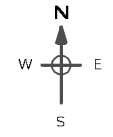
**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



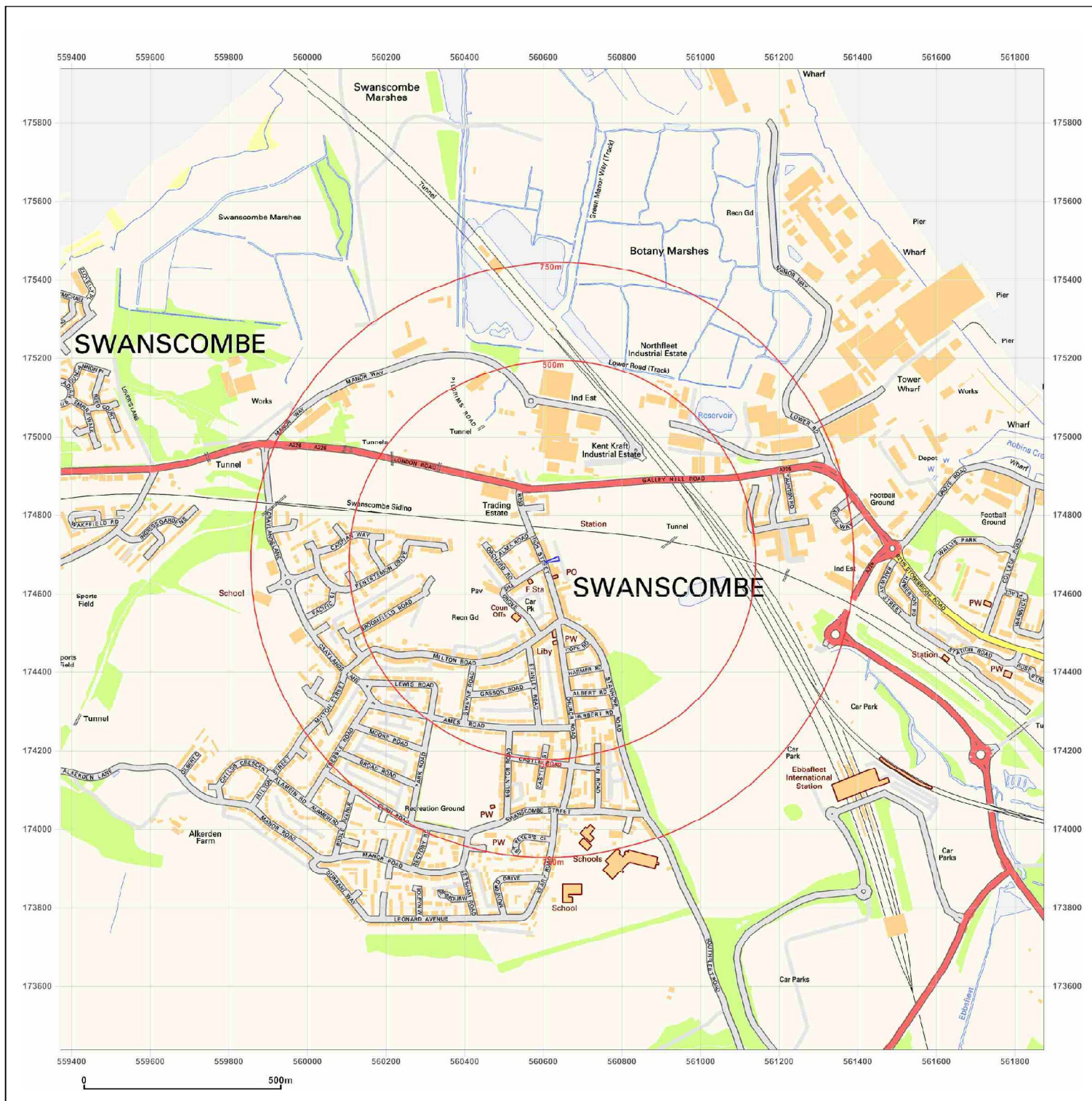
Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)





**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

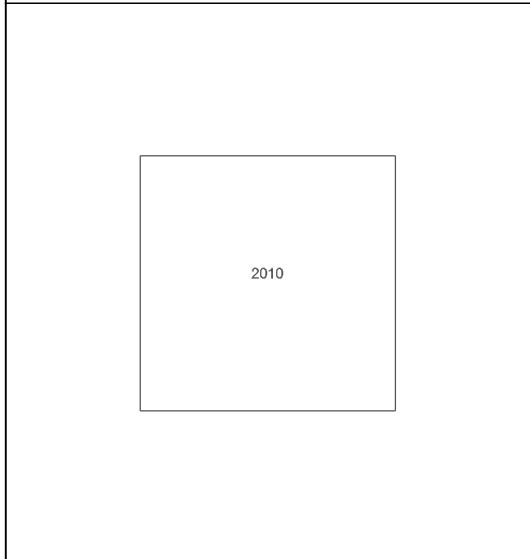
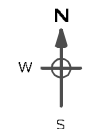
**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)



Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)



**Site Details:**

23 High Street, Swanscombe,  
Kent, DA10 0AG

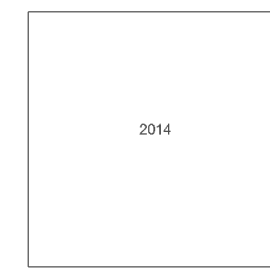
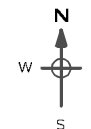
**Client Ref:** 5500  
**Report Ref:** CMAPS-CM-783166-5500-070319HIS  
**Grid Ref:** 560622, 174687

**Map Name:** National Grid

**Map date:** 2014

**Scale:** 1:10,000

**Printed at:** 1:10,000



Produced by  
Groundsure Insights  
[www.groundsure.com](http://www.groundsure.com)

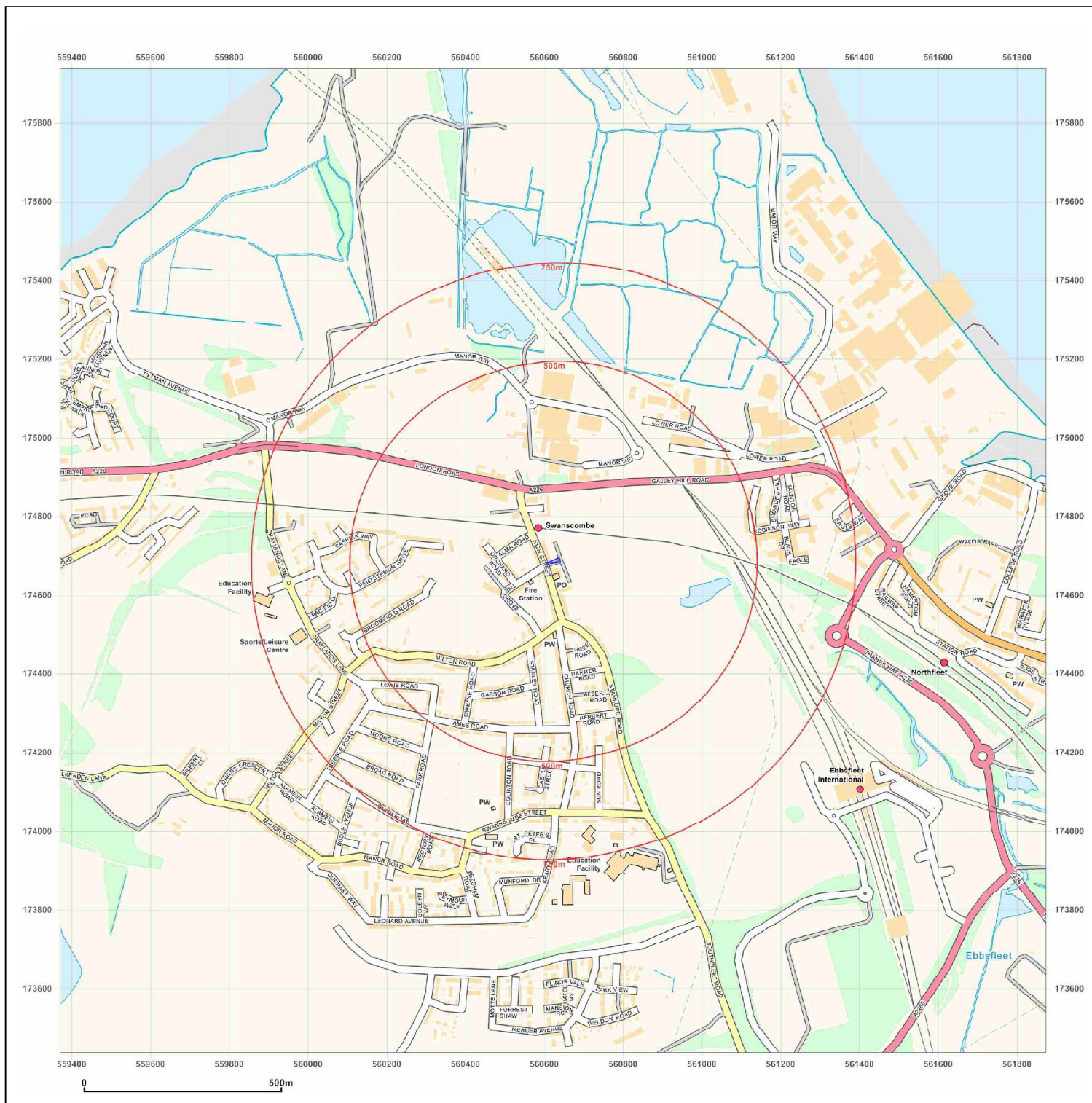


Supplied by:  
[www.centremapslive.com](http://www.centremapslive.com)  
[groundsure@centremaps.com](mailto:groundsure@centremaps.com)

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 07 March 2019

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)





## APPENDIX 5

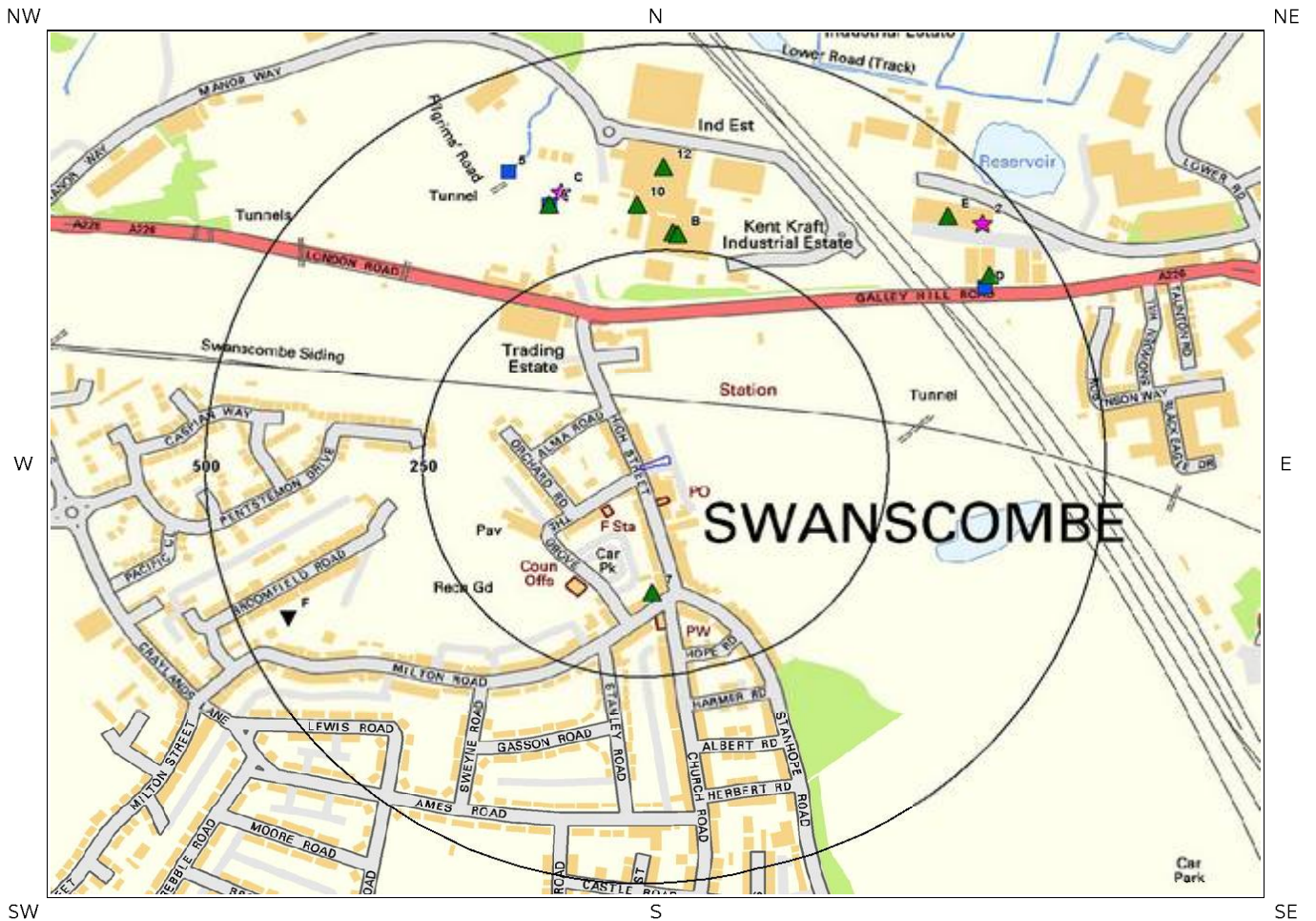
### ENVIRONMENTAL MAPS




















# 2. Environmental Permits, Incidents and Registers Map

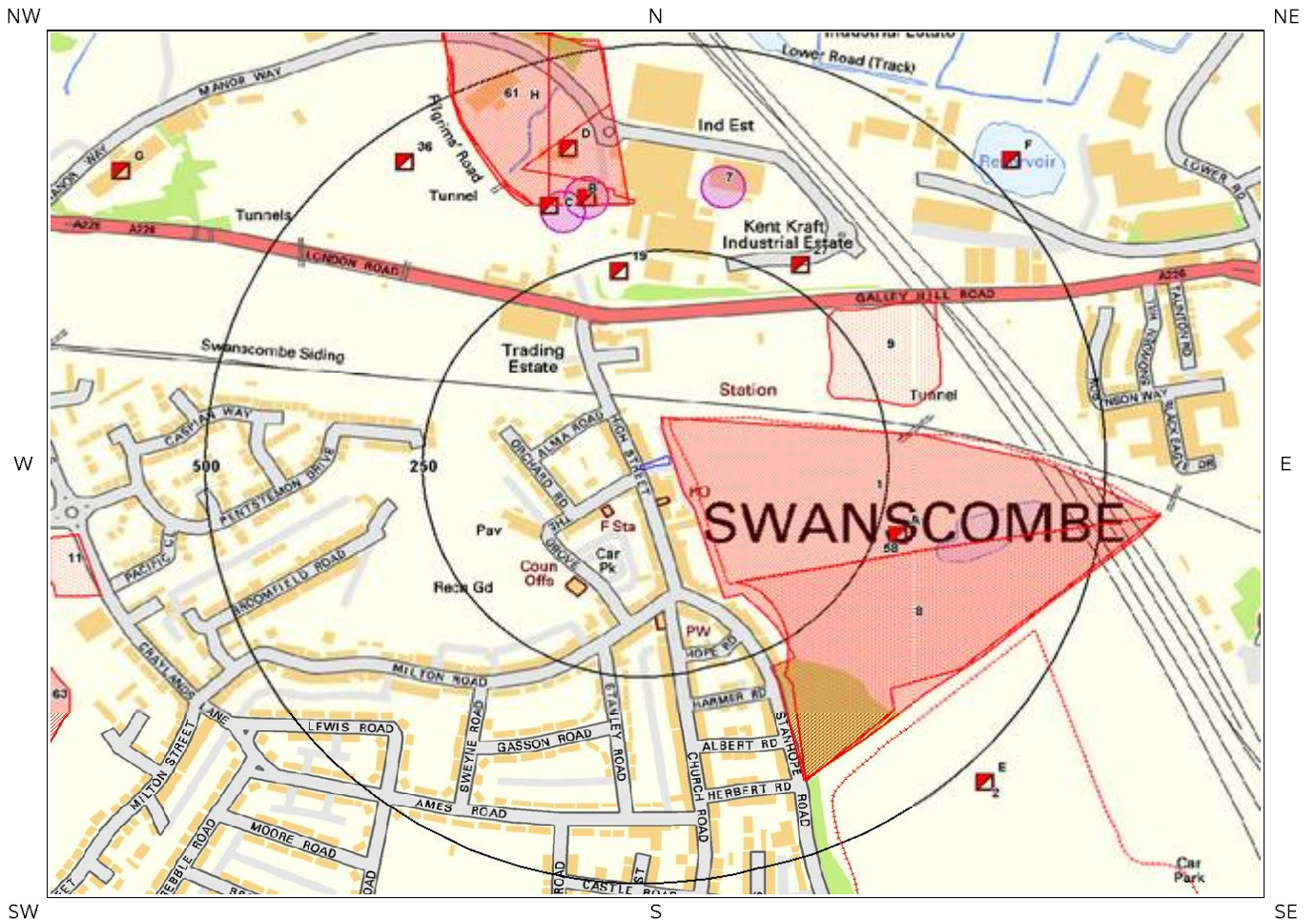


© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.








- |   |                               |  |  |  |   |
|---|-------------------------------|--|--|--|---|
|  | Site Outline                  |   | Recorded Pollution Incident                                    |  | RAS 3 & 4 Authorisations                      |
|  | Dangerous Substances (List 1) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |  | Part A(2) and Part B Authorised Processes     |
|  | Dangerous Substances (List 2) |   | Water Industry Referrals                                       |   | Sites Determined as Contaminated Land         |
|  | Licensed Discharge Consents   |   | Hazardous Substance Referrals                                  |   | Hazardous Substance Consents and Enforcements |
|  | Red List Discharge Consents   |  |  |  |   |



# 3. Landfill and Other Waste Sites Map

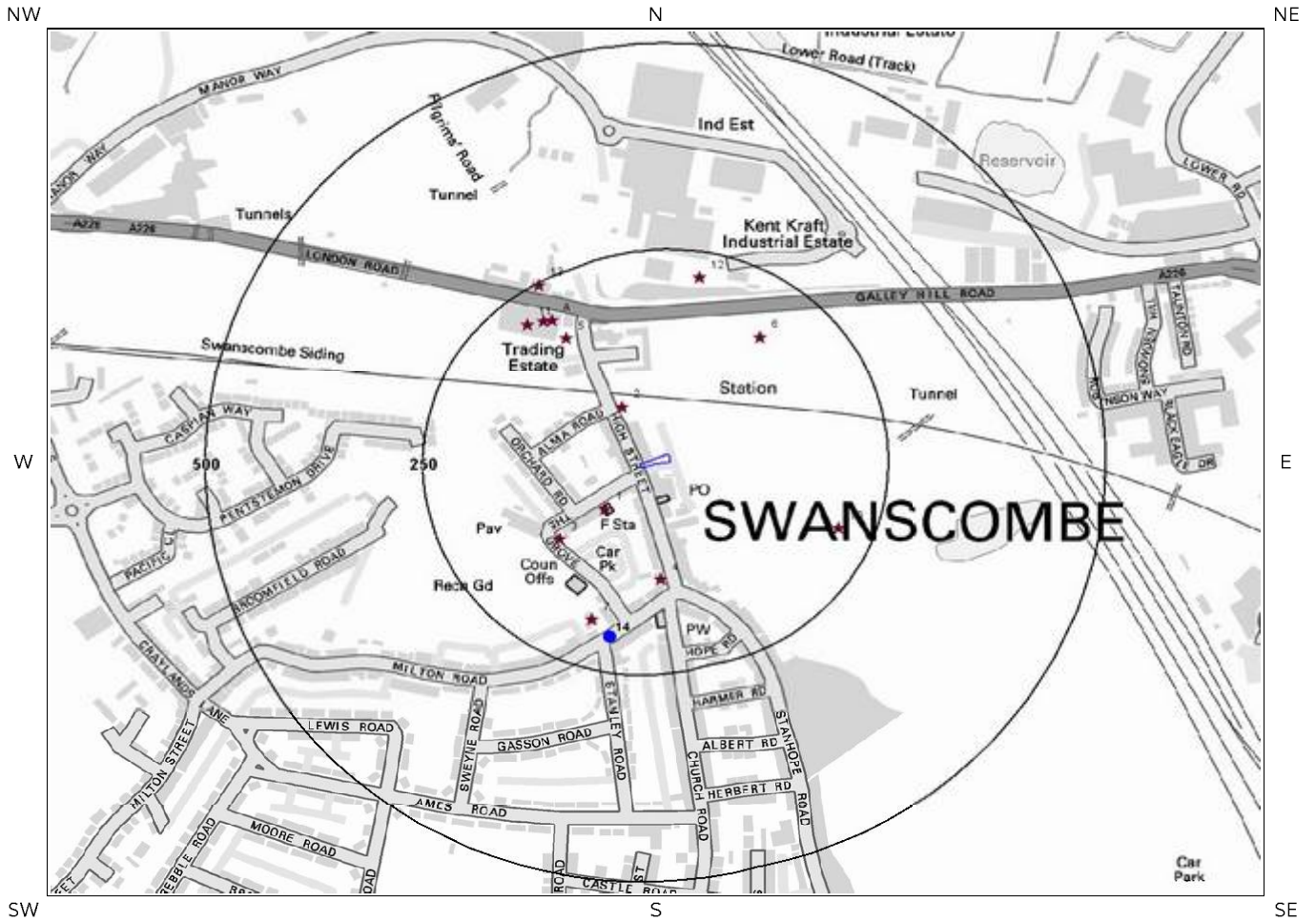


© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.

- |   |                        |   |                           |   |   |
|---|------------------------|---|---------------------------|---|---|
|  | Site Outline           |  | EA/NRW Active Landfill    |  | Historic and Planned Waste Sites                    |
|  | 250 Search Buffers (m) |  | EA/NRW Historic Landfill  |  | EA/NRW Licensed Waste Site                          |
|  | 500 Search Buffers (m) |  | BGS / DoE Survey Landfill |  | Local Authority/Historical Mapping Landfill Records |



# 4. Current Land Use Map



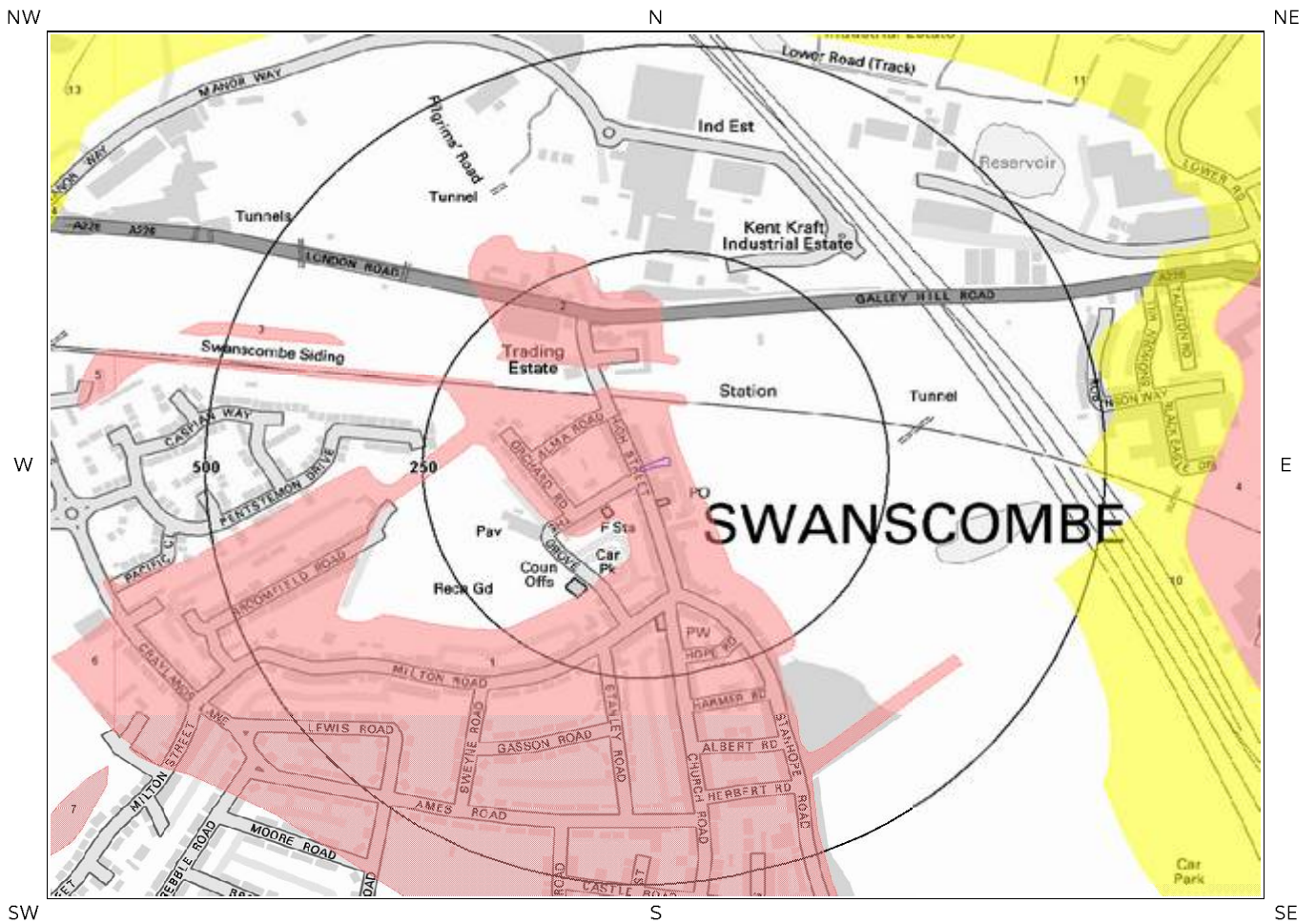
© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.

-  Site Outline
-  Current Industrial Sites
-  Electricity Transmission Cables
-  Search Buffers (m)
-  Petrol & Fuel Sites
-  Gas Transmission Pipelines

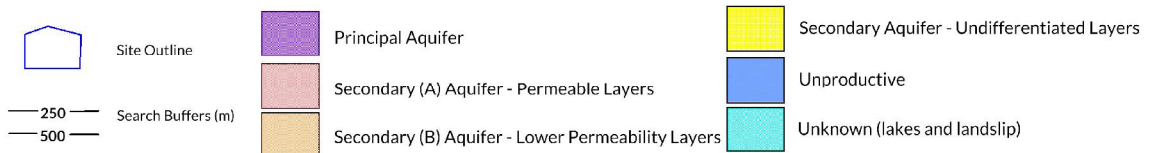


# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology

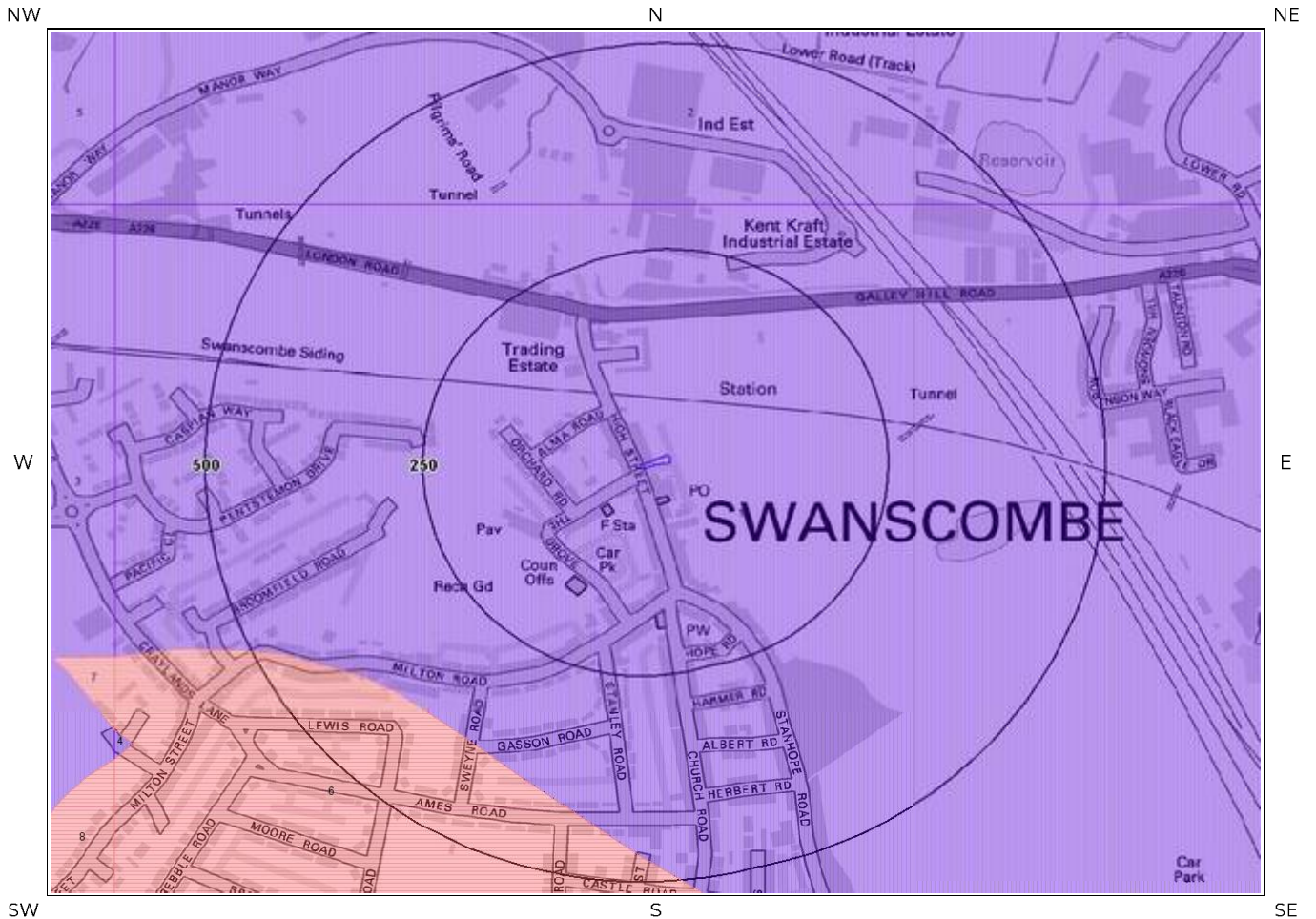


© Crown copyright and database rights 2019  
Ordnance Survey licence 100035207.

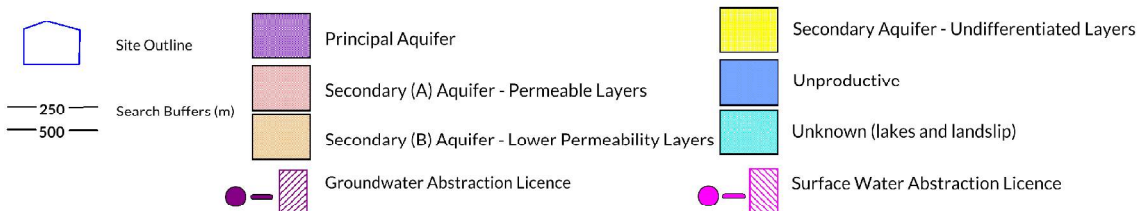




# 6b. Aquifer Within Bedrock Geology and Abstraction Licences



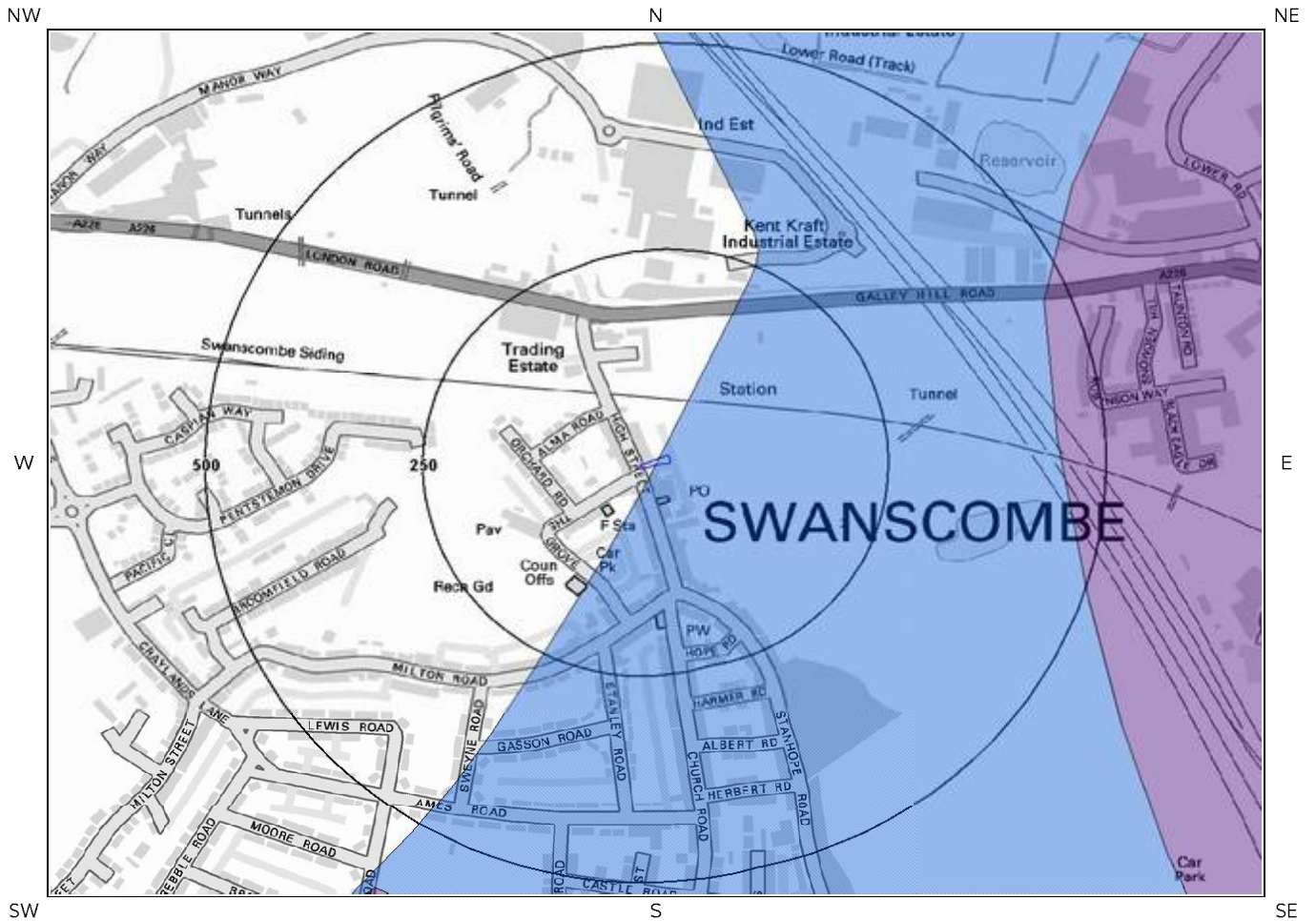
© Crown copyright and database rights 2019  
Ordnance Survey licence 100035207.



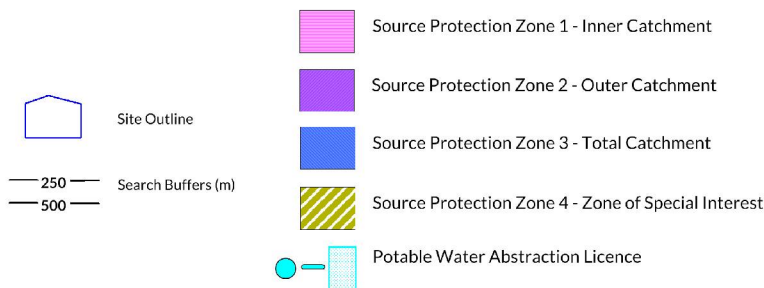




# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences

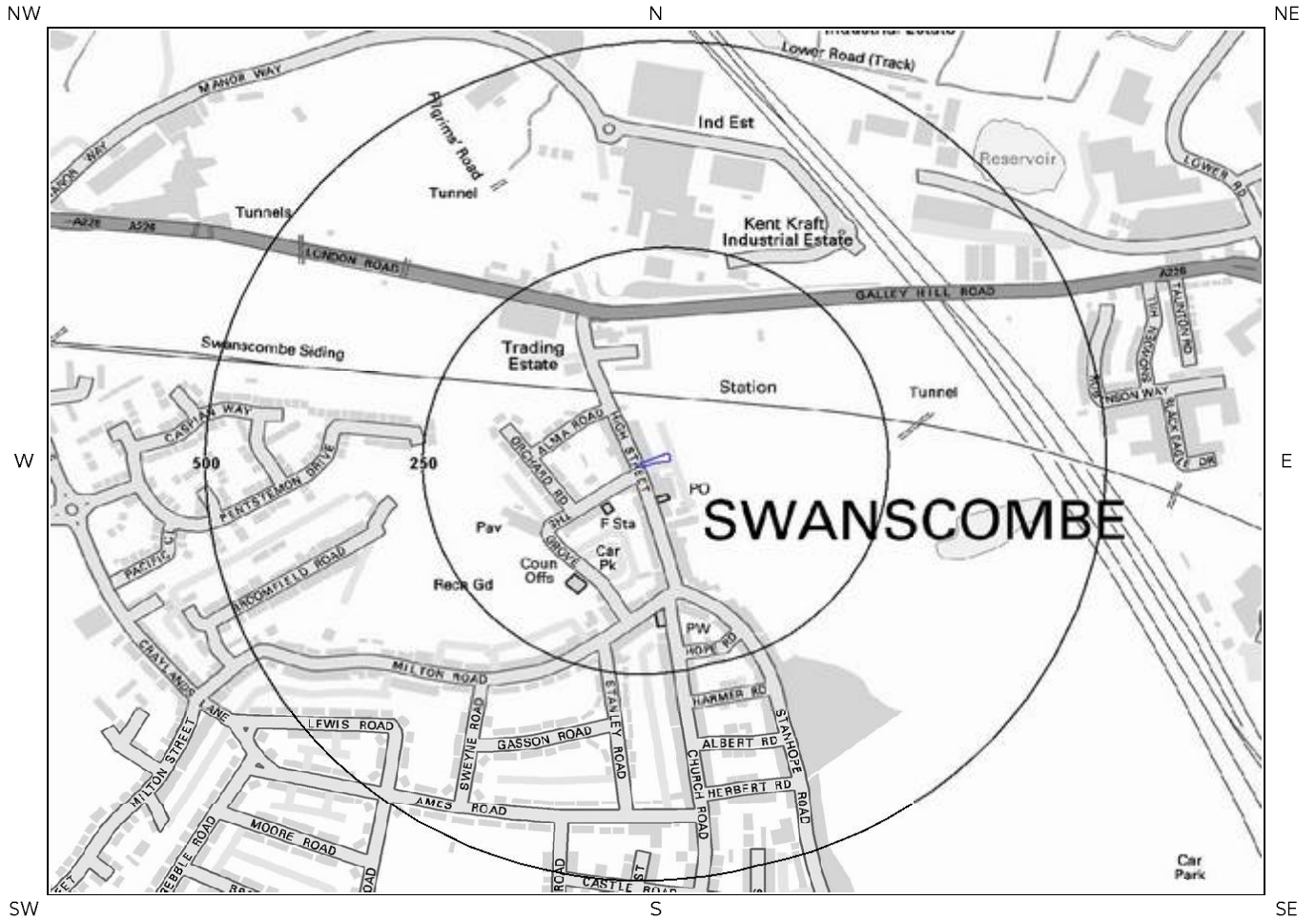


© Crown copyright and database rights 2019  
Ordnance Survey licence 100035207.

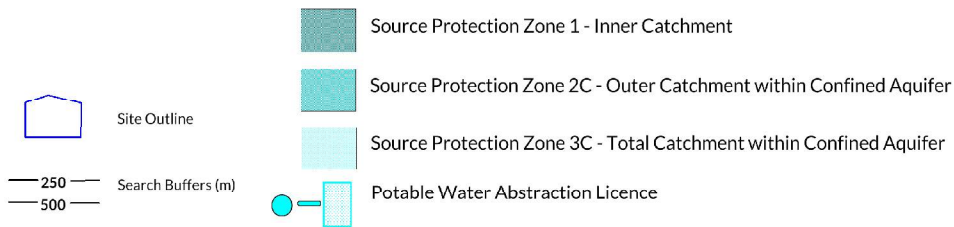




# 6d. Hydrogeology – Source Protection Zones within confined aquifer

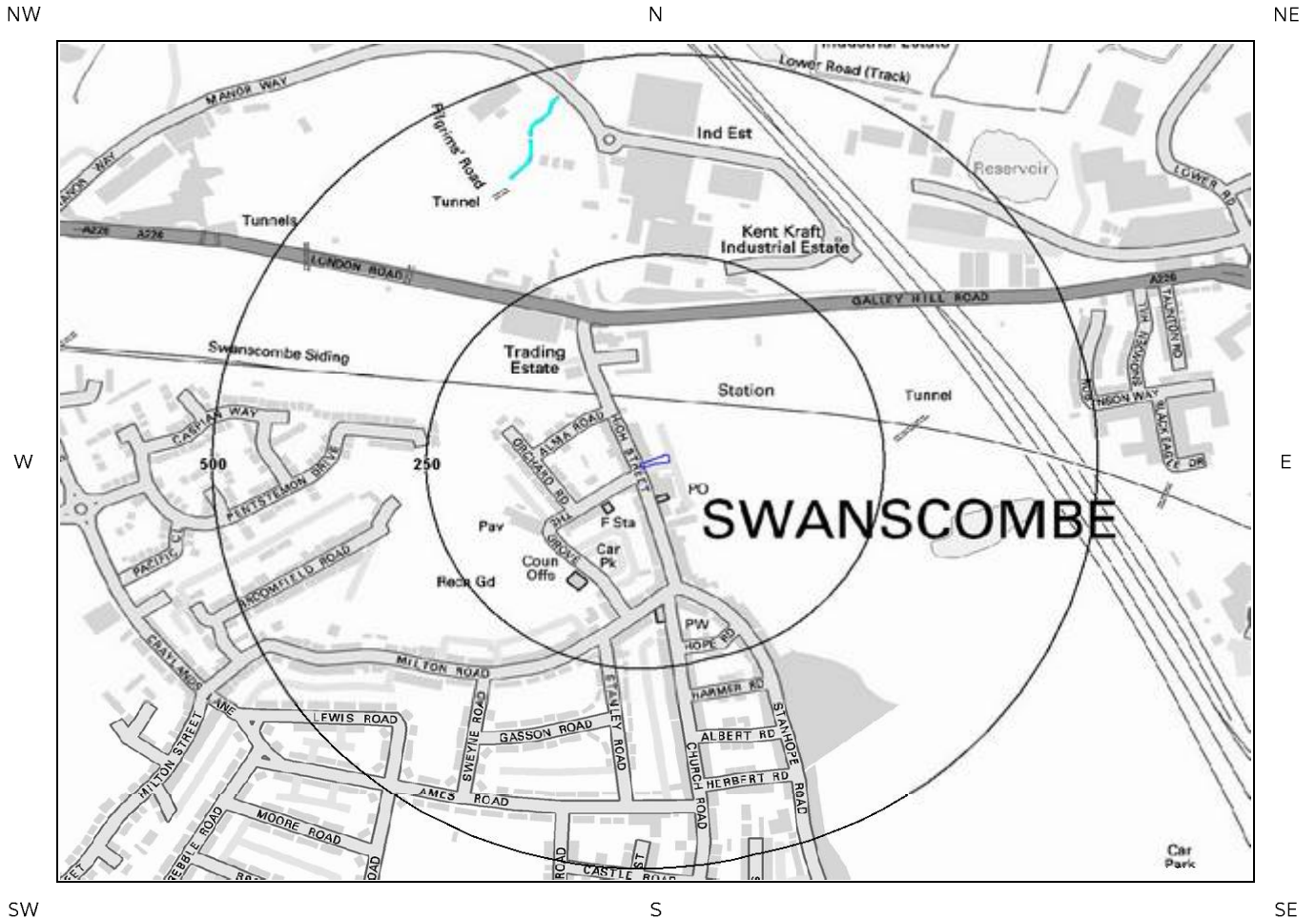


© Crown copyright and database rights 2019  
Ordnance Survey licence 100035207.

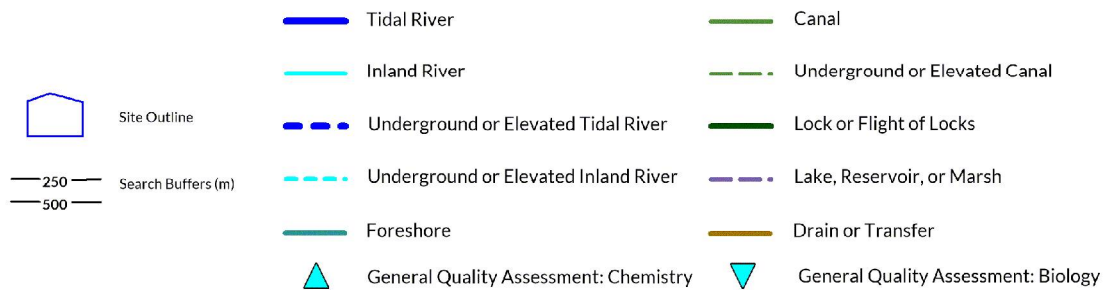




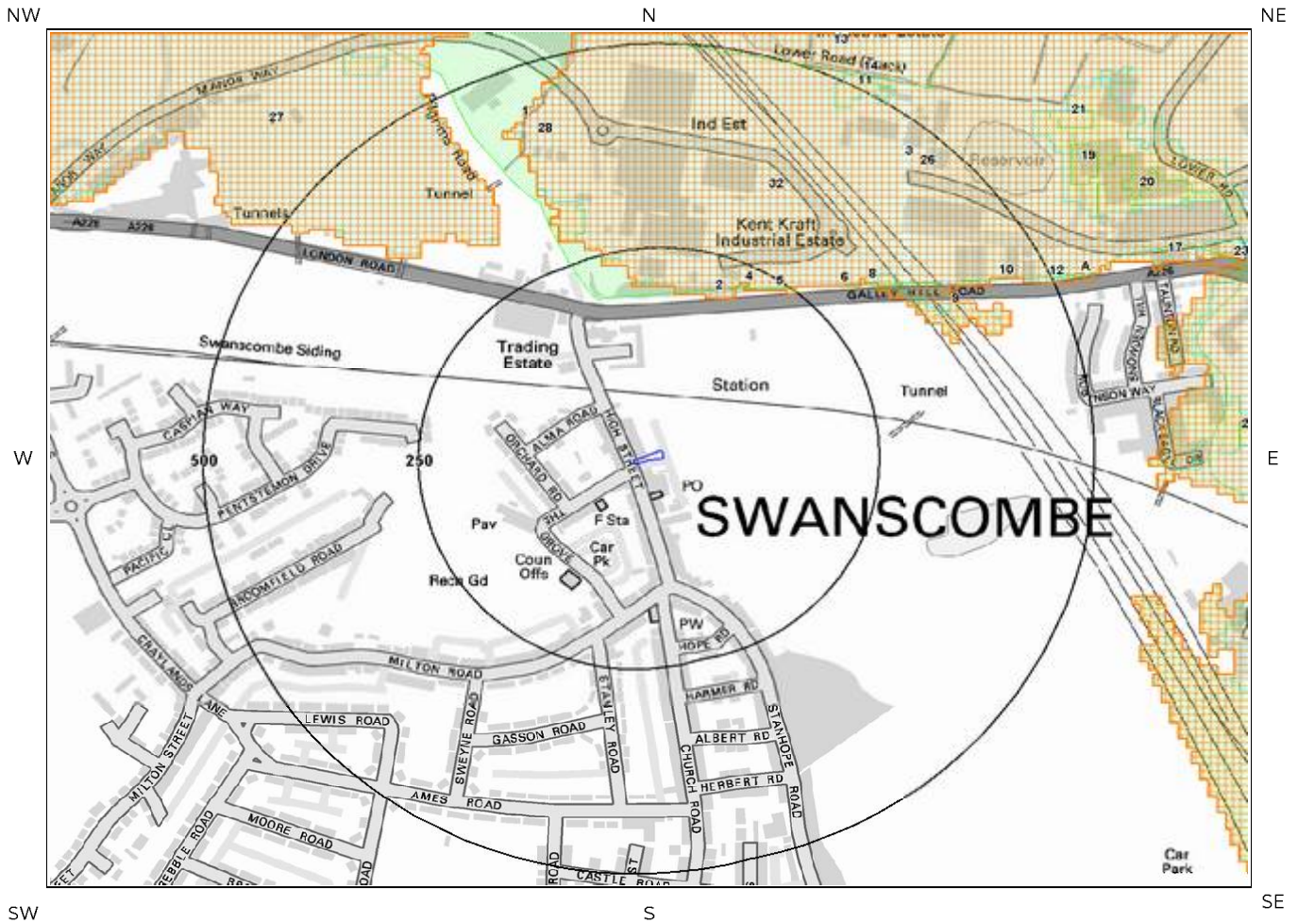
# 6e. Hydrology – Watercourse Network and River Quality



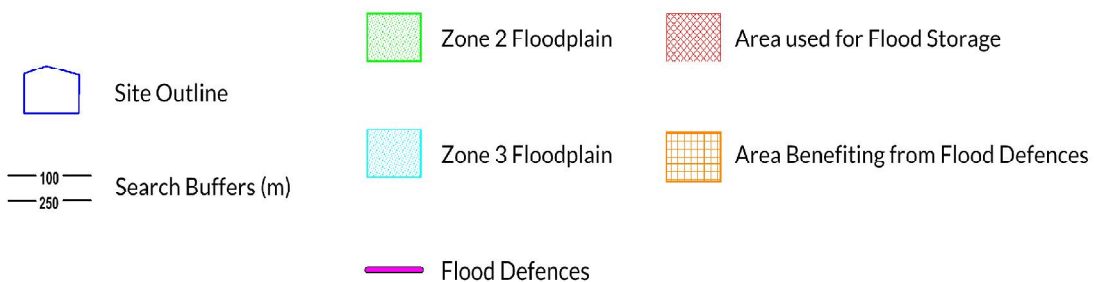
© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



# 7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)

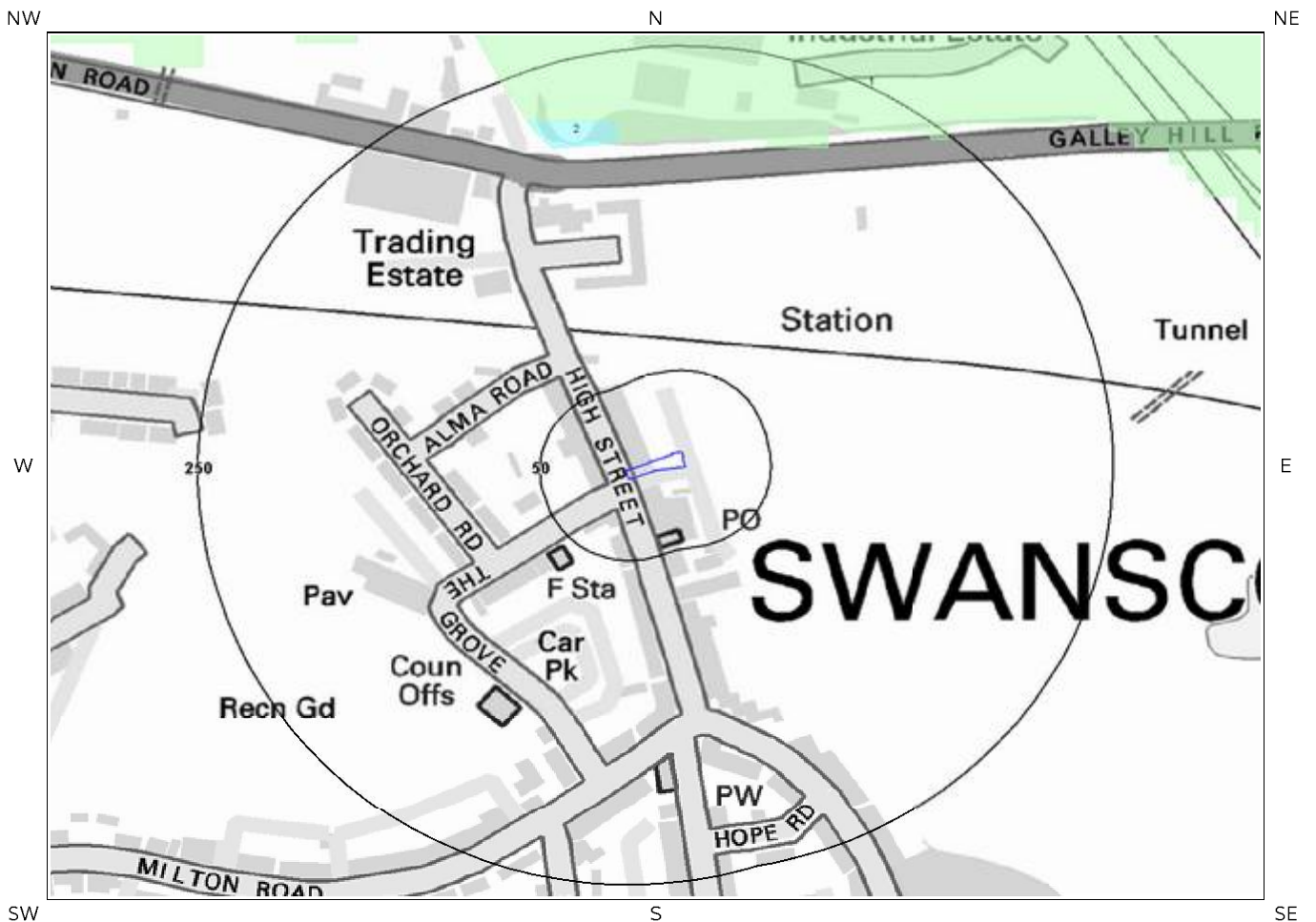


© Crown copyright and database rights 2019.  
Ordnance Survey Licence 100035207.

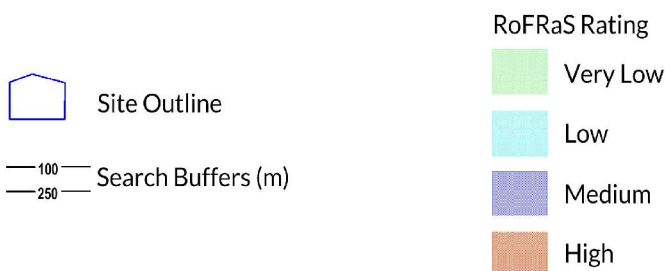




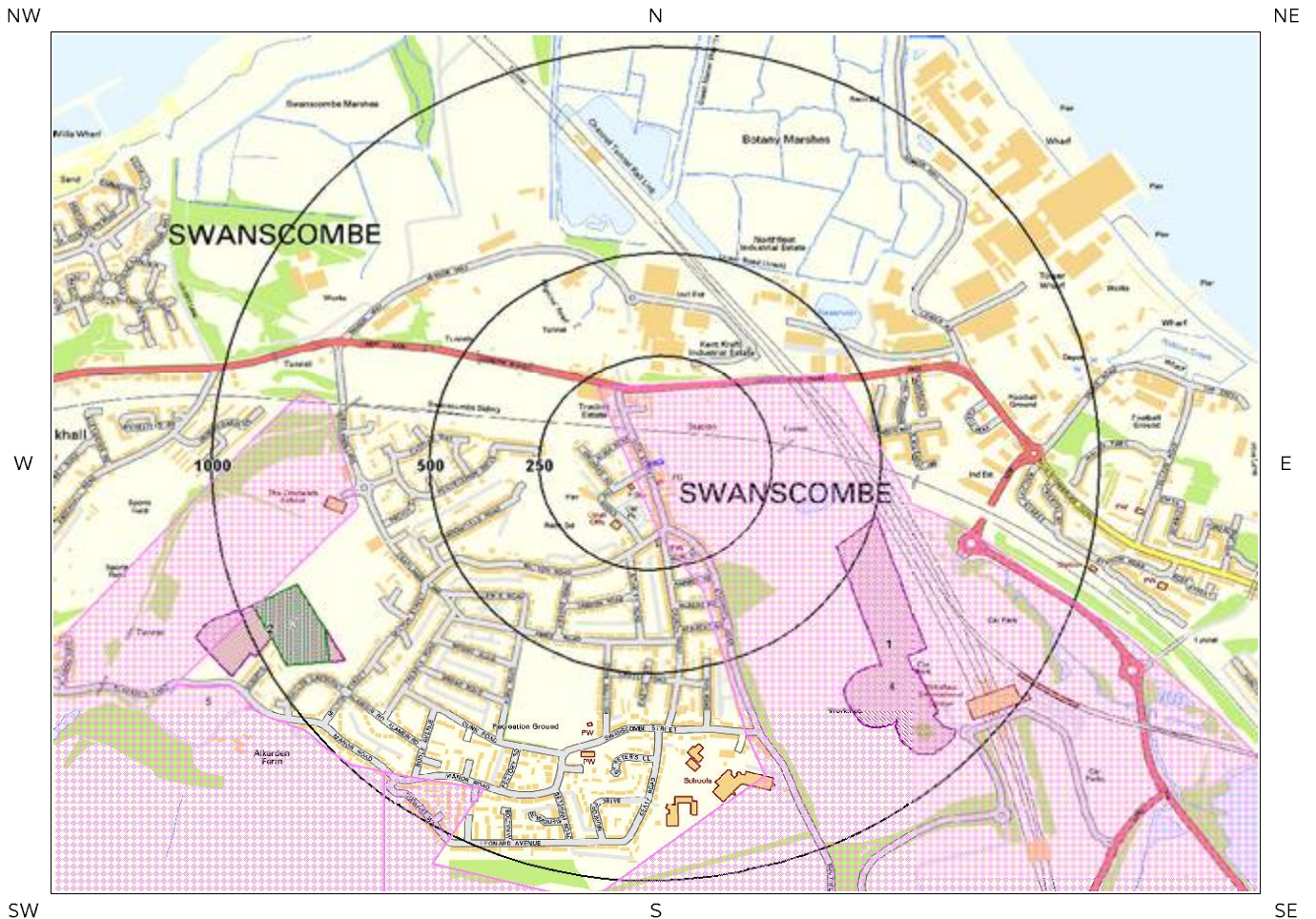
# 7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



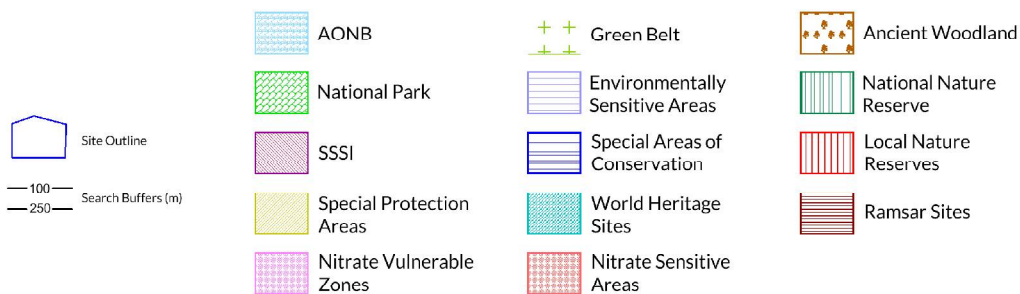
© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



# 8. Designated Environmentally Sensitive Sites Map



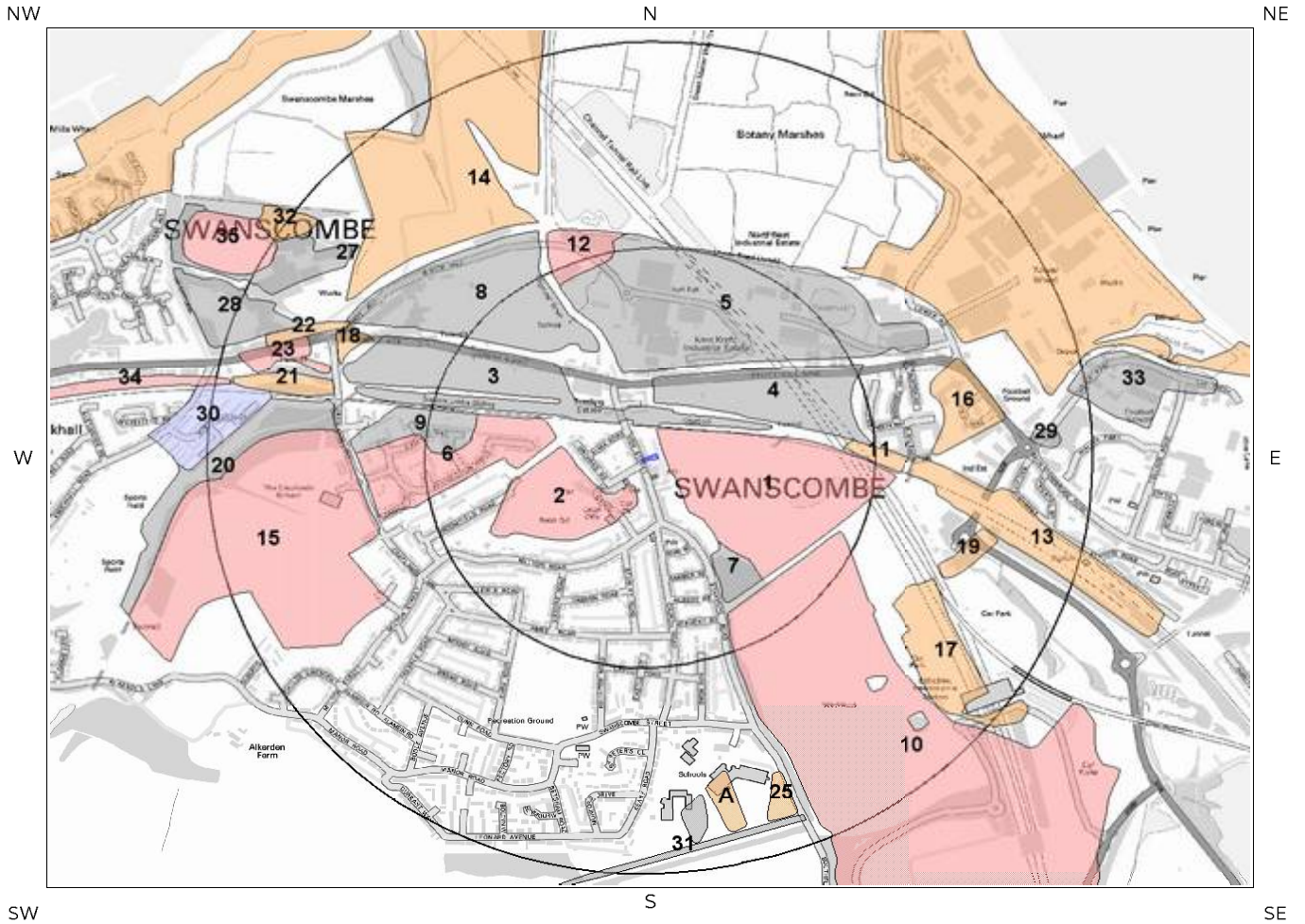
© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



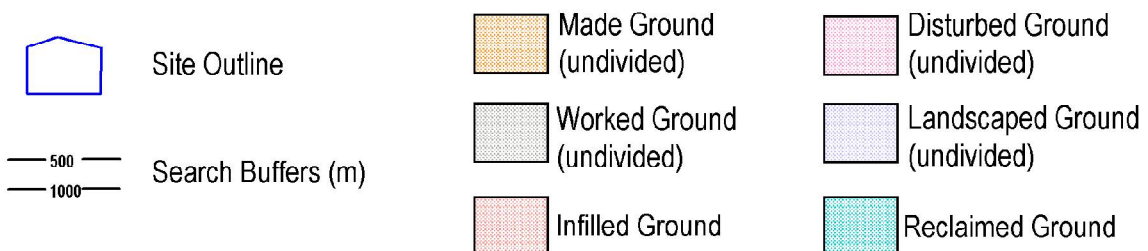


# 2 Geology 1:50,000 Scale

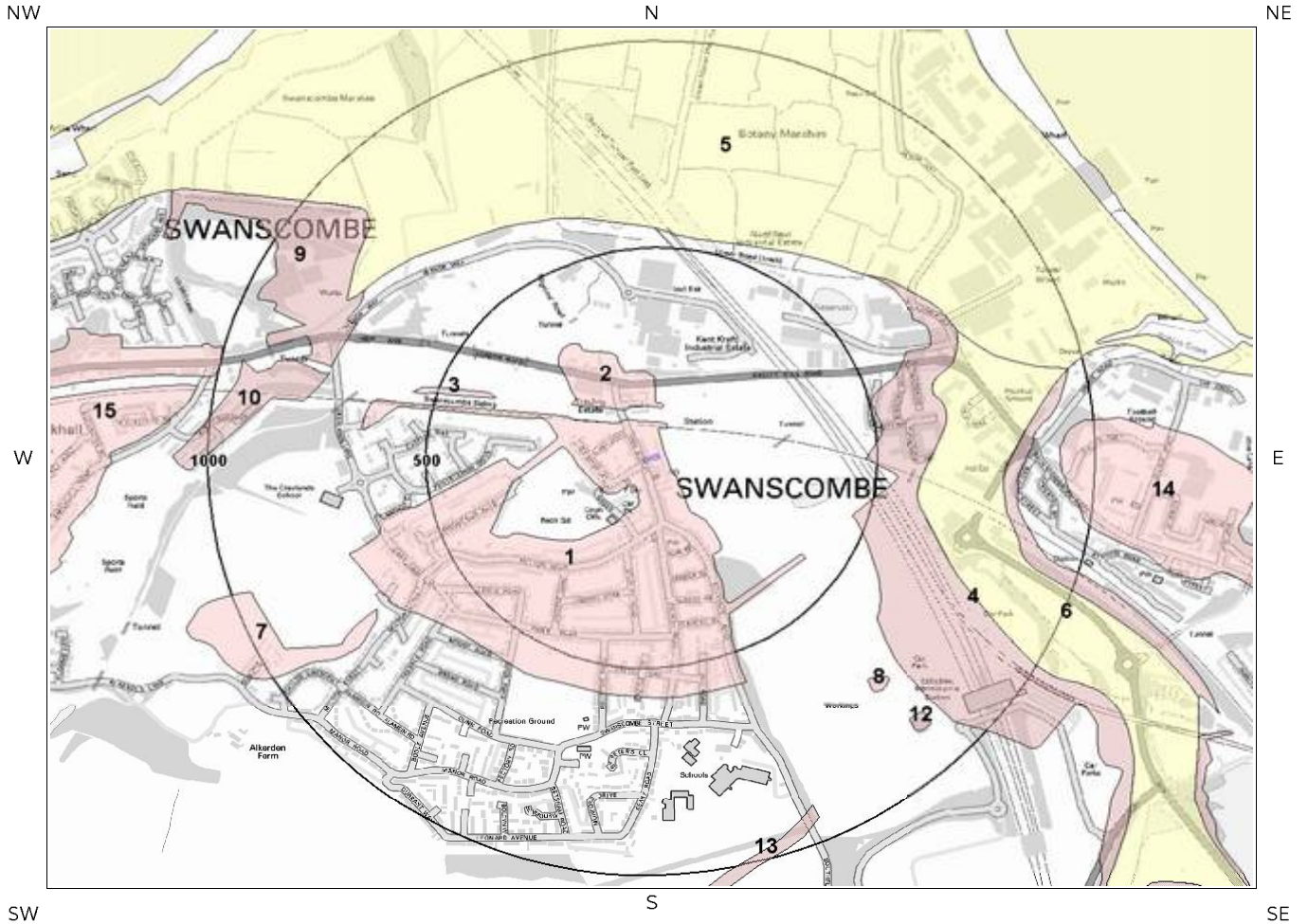
## 2.1 Artificial Ground map



© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



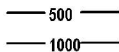
# 2.2 Superficial Deposits and Landslips map (1:50,000 scale)



© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



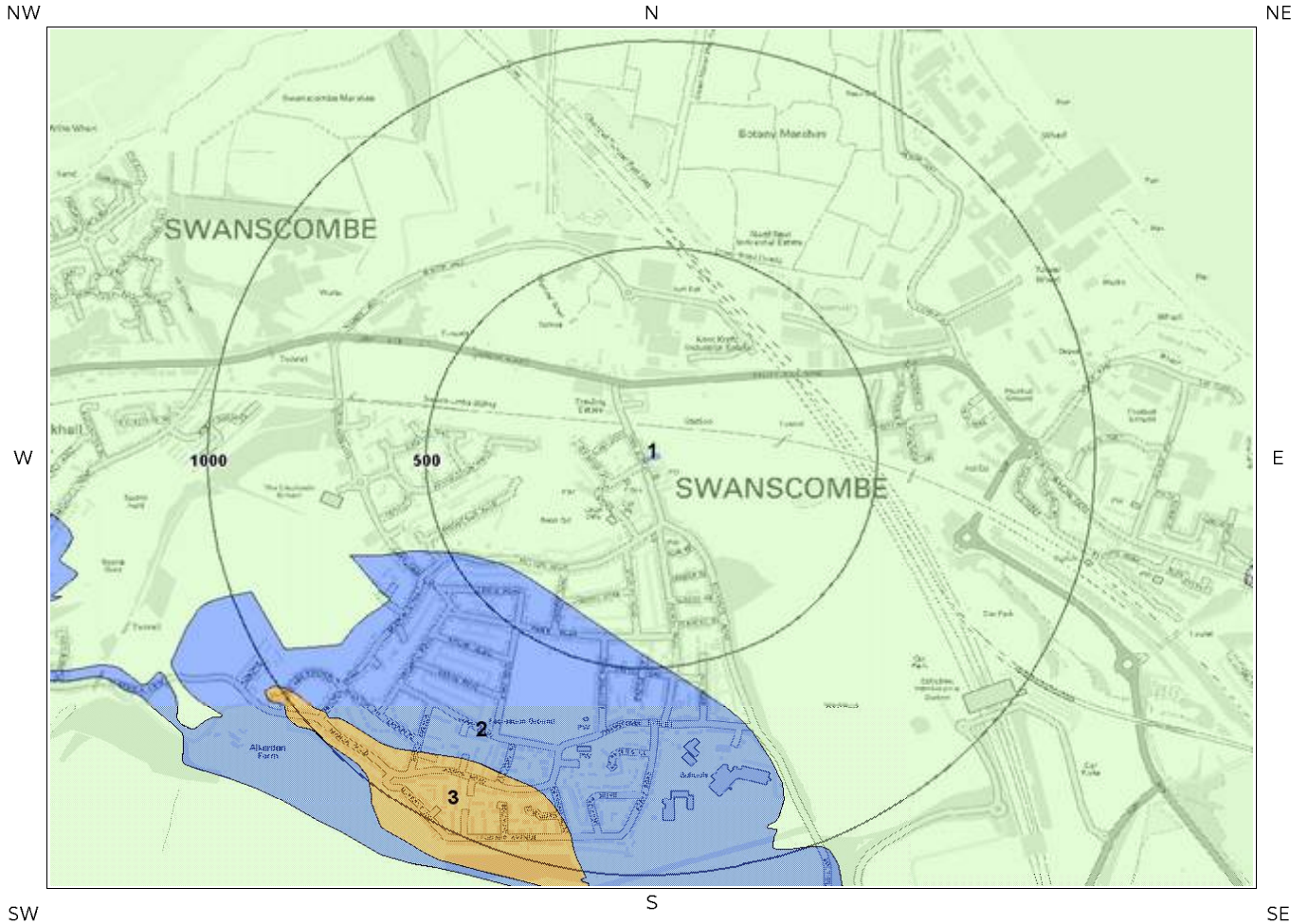
Site Outline



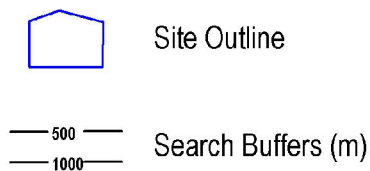
Search Buffers (m)



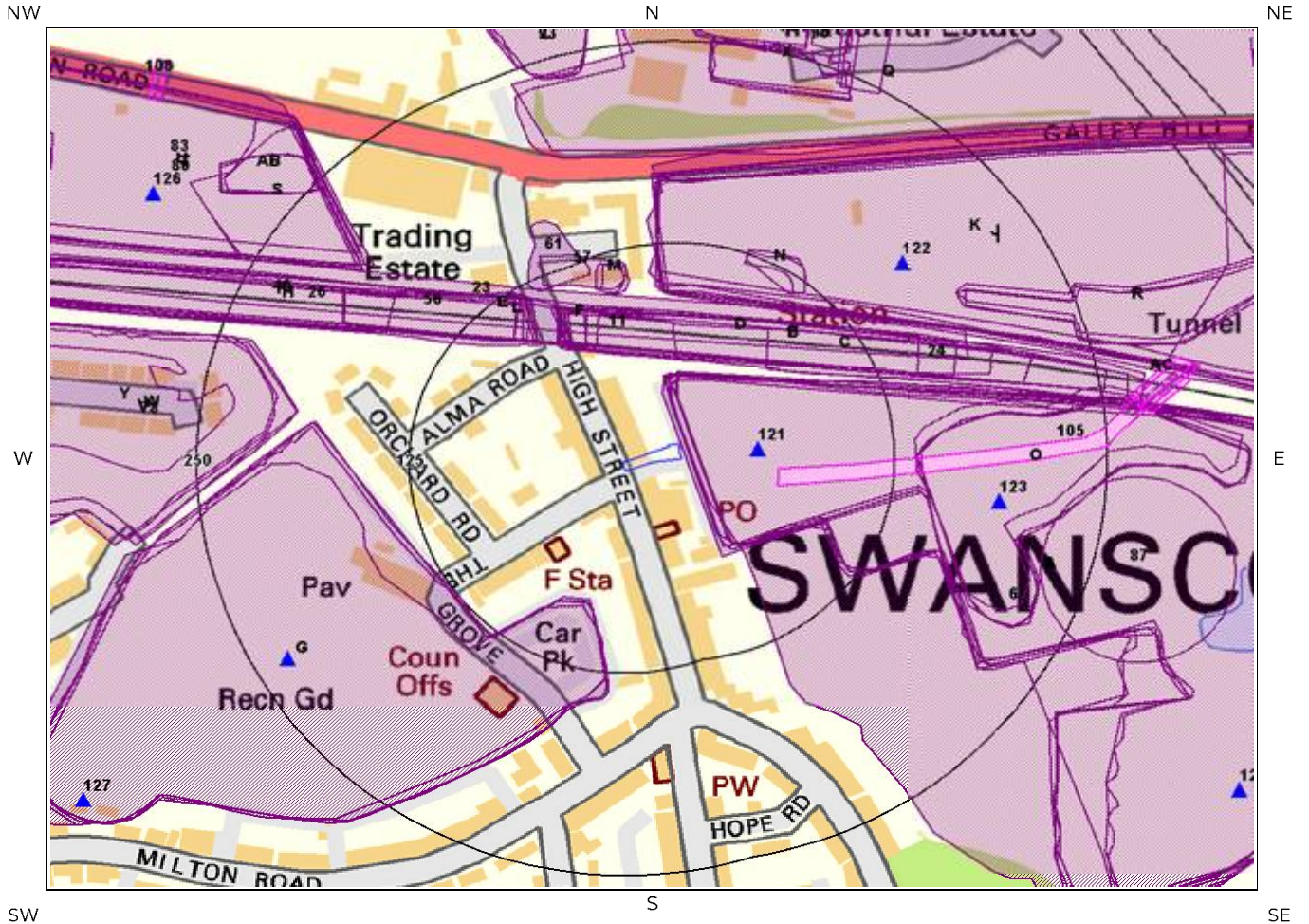
# 2.3 Bedrock and linear features map (1:50,000 scale)



© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.





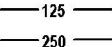


# 4 Ground Workings map



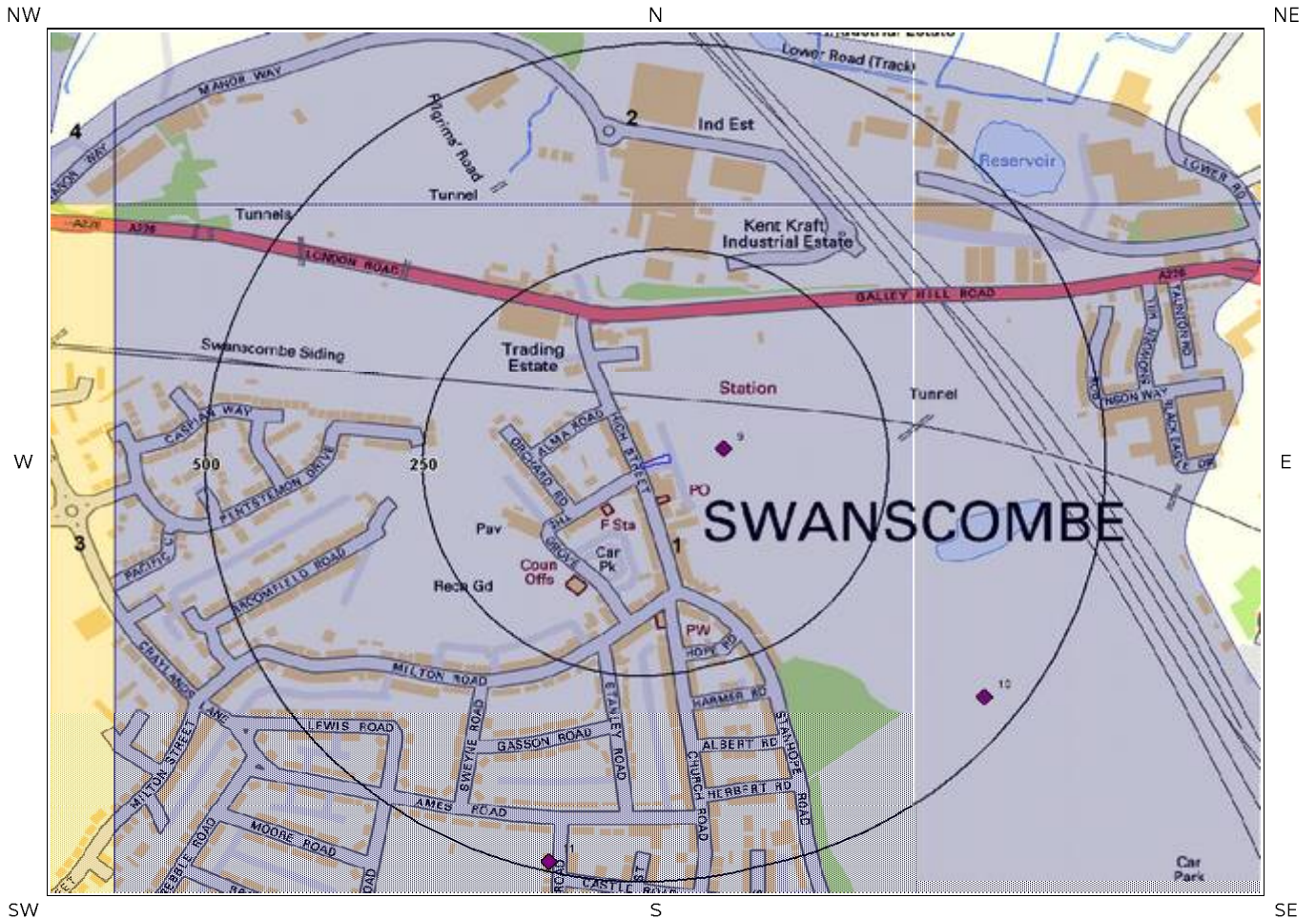
Ground Workings Legend

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.

-  Site Outline
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Current Ground Workings
-  Search Buffers (m)

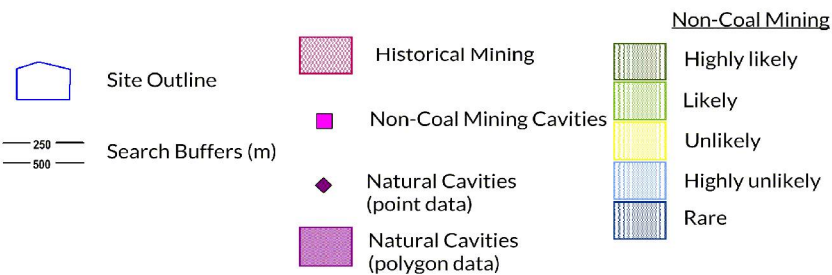


# 5 Mining, Extraction & Natural Cavities map



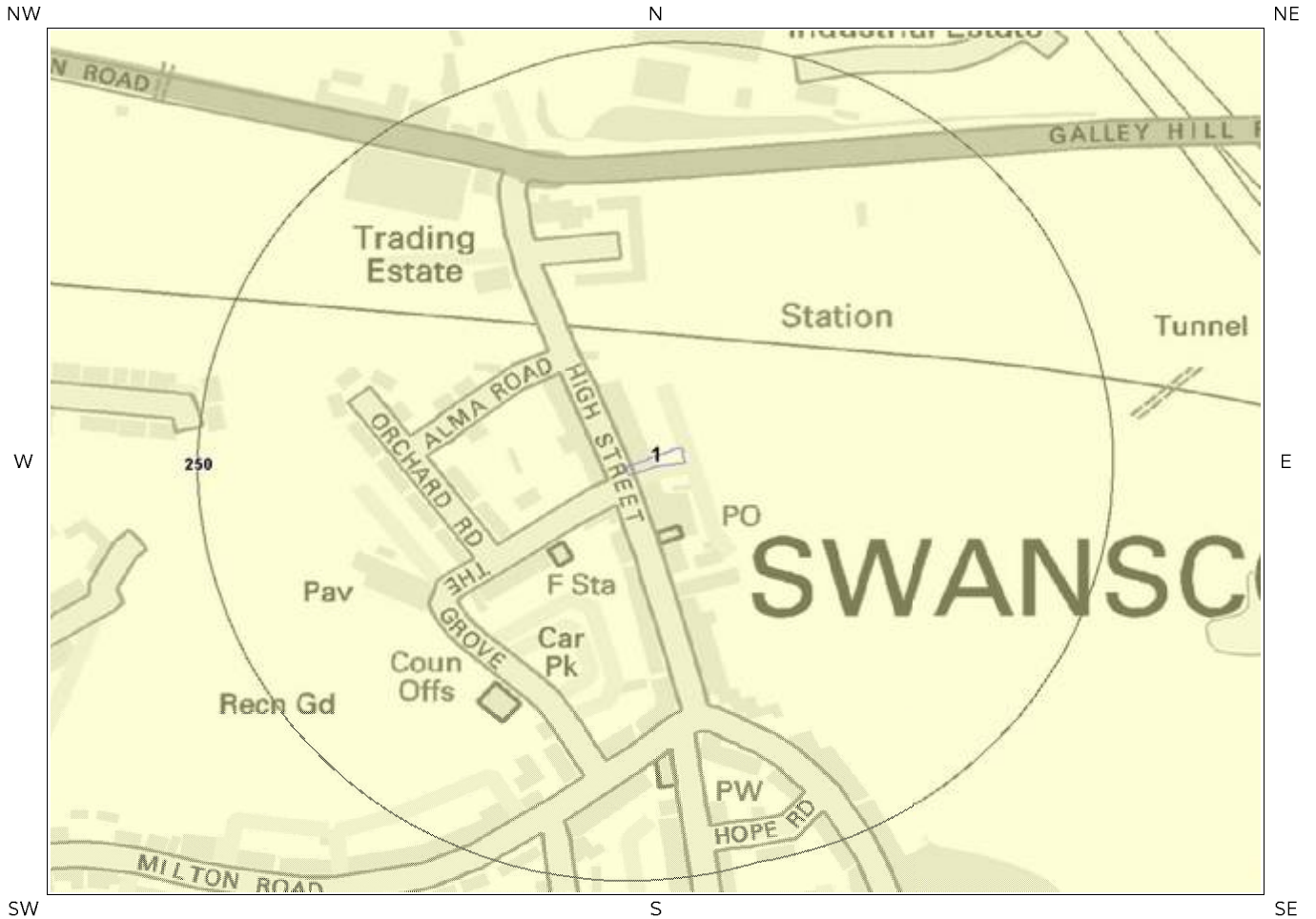
**Mining, Extraction and Natural Cavities Legend**

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



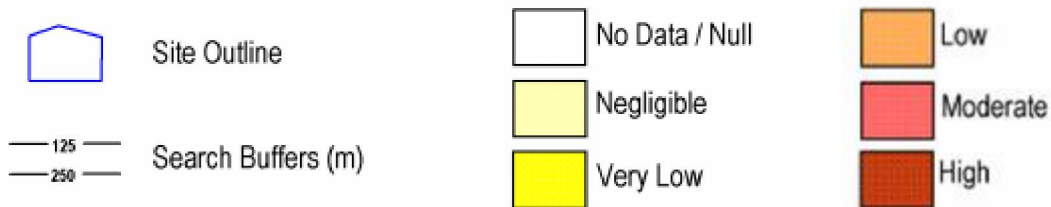
# 6 Natural Ground Subsidence

## 6.1 Shrink-Swell Clay map



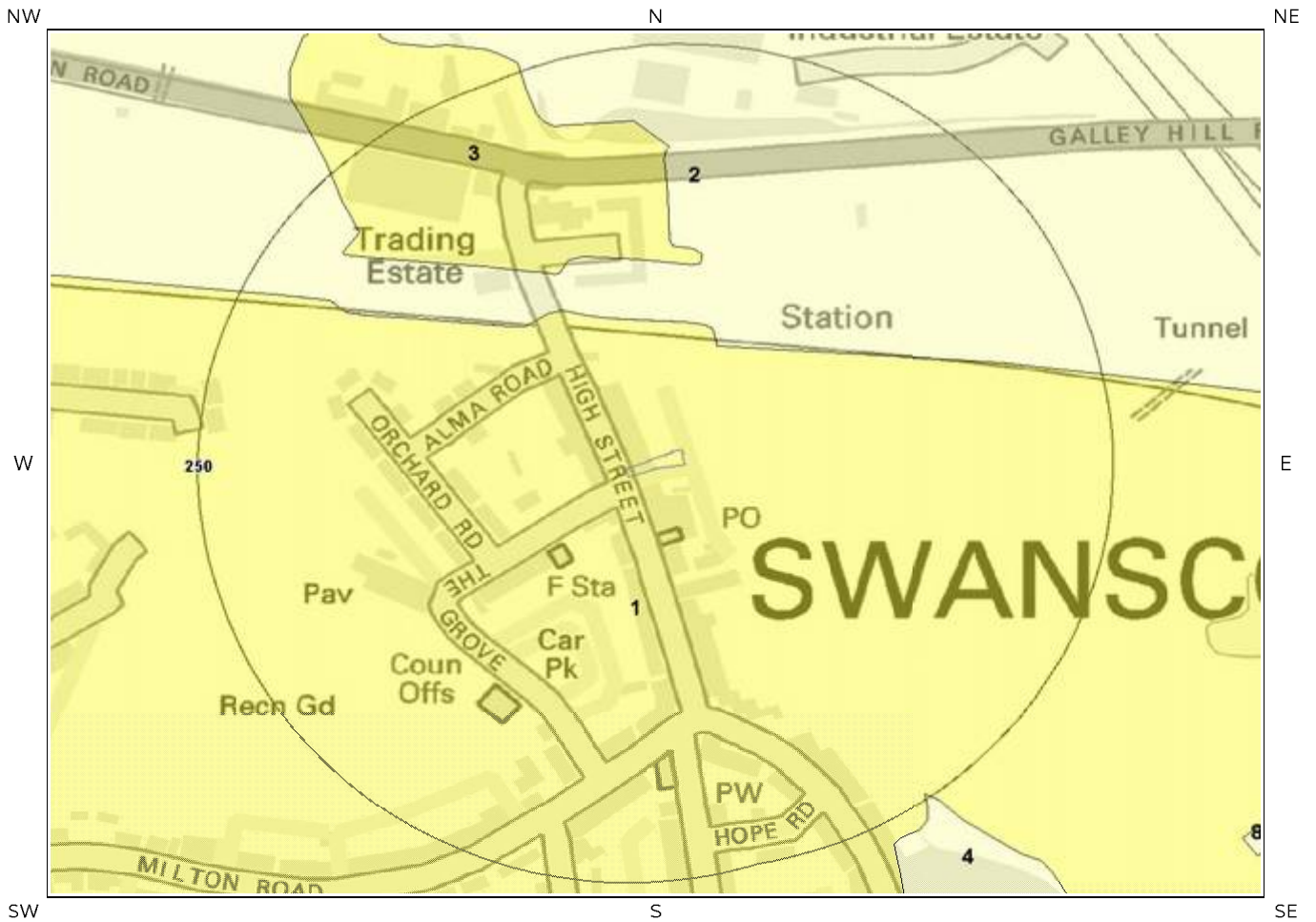
**Shrink Swell Clay Legend**

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



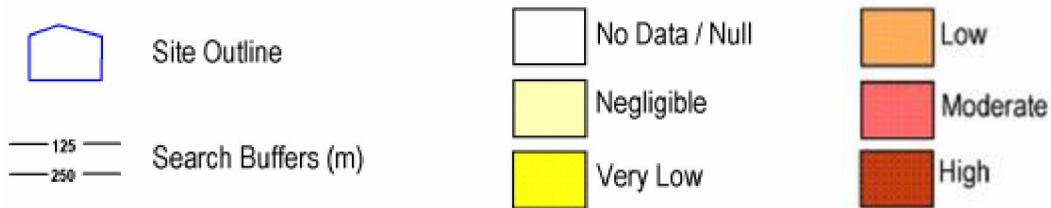


# 6.2 Landslides map

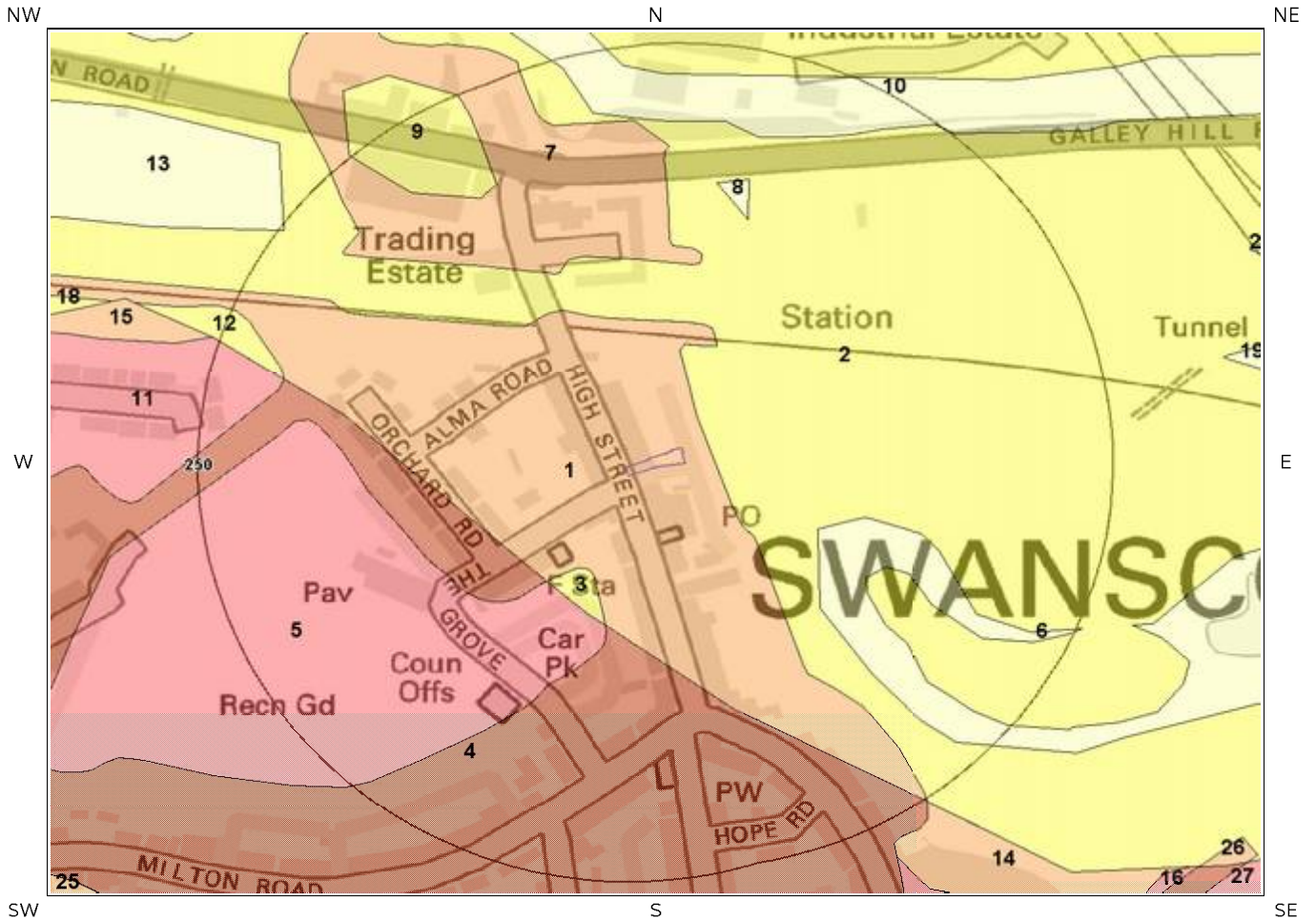


Landslides Legend

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.

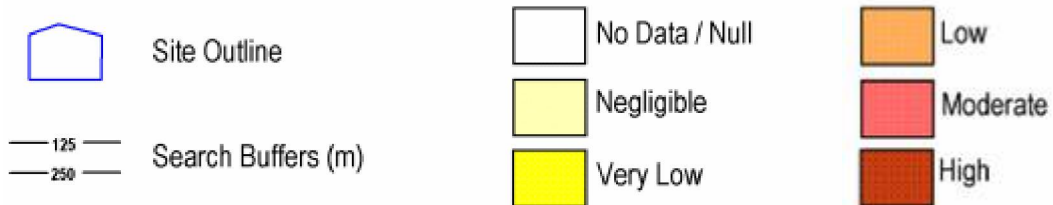


# 6.3 Ground Dissolution of Soluble Rocks map



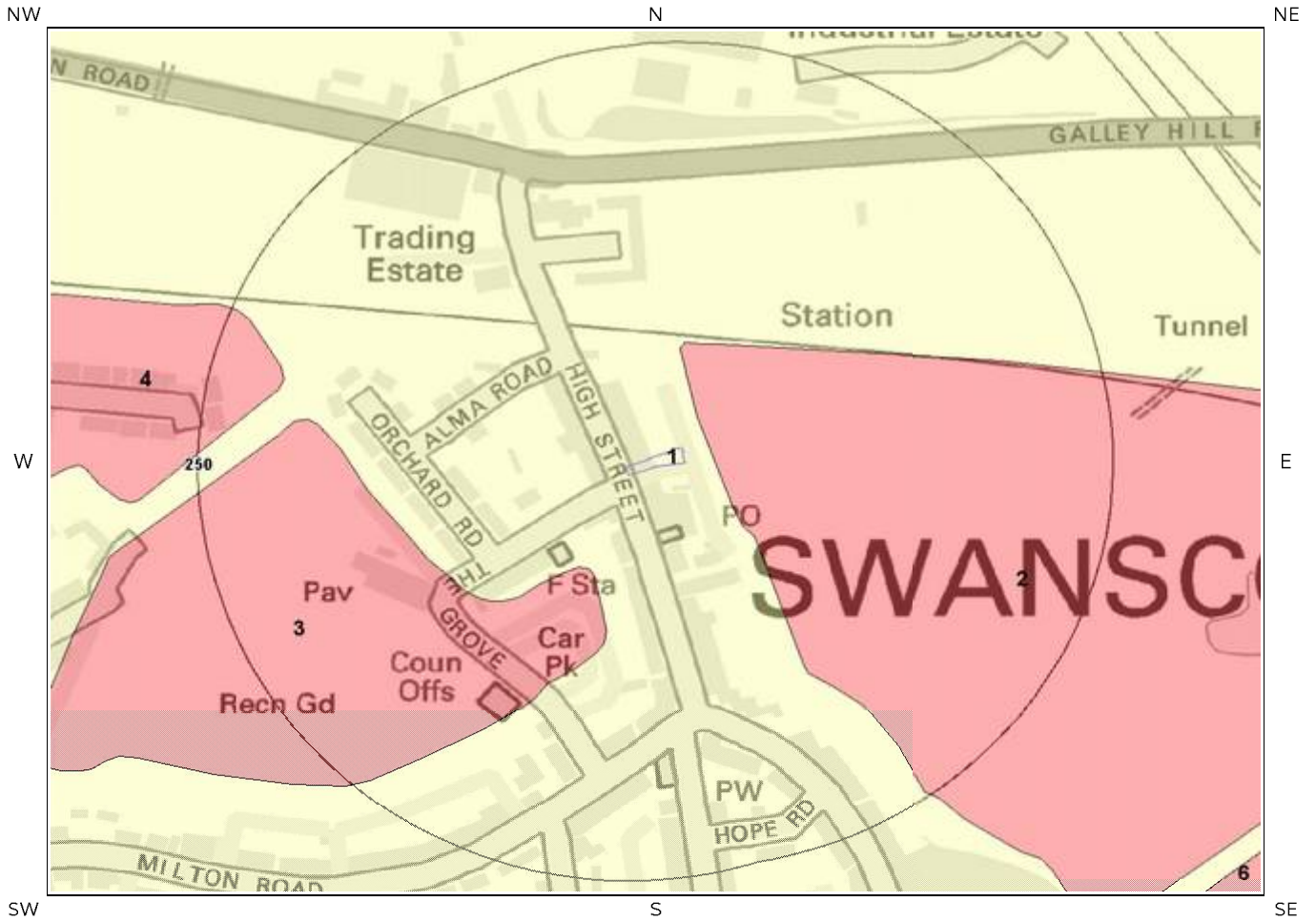
**Ground Dissolution Soluble Rocks Legend**

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



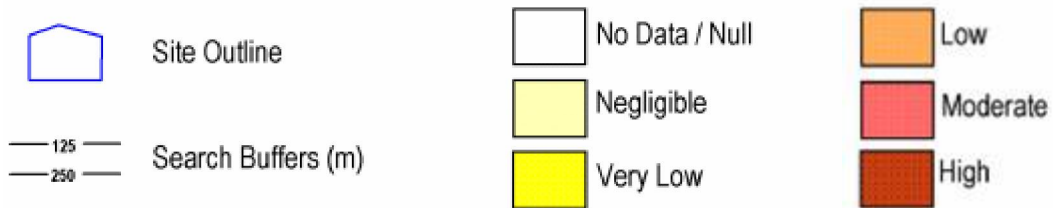


# 6.4 Compressible Deposits map

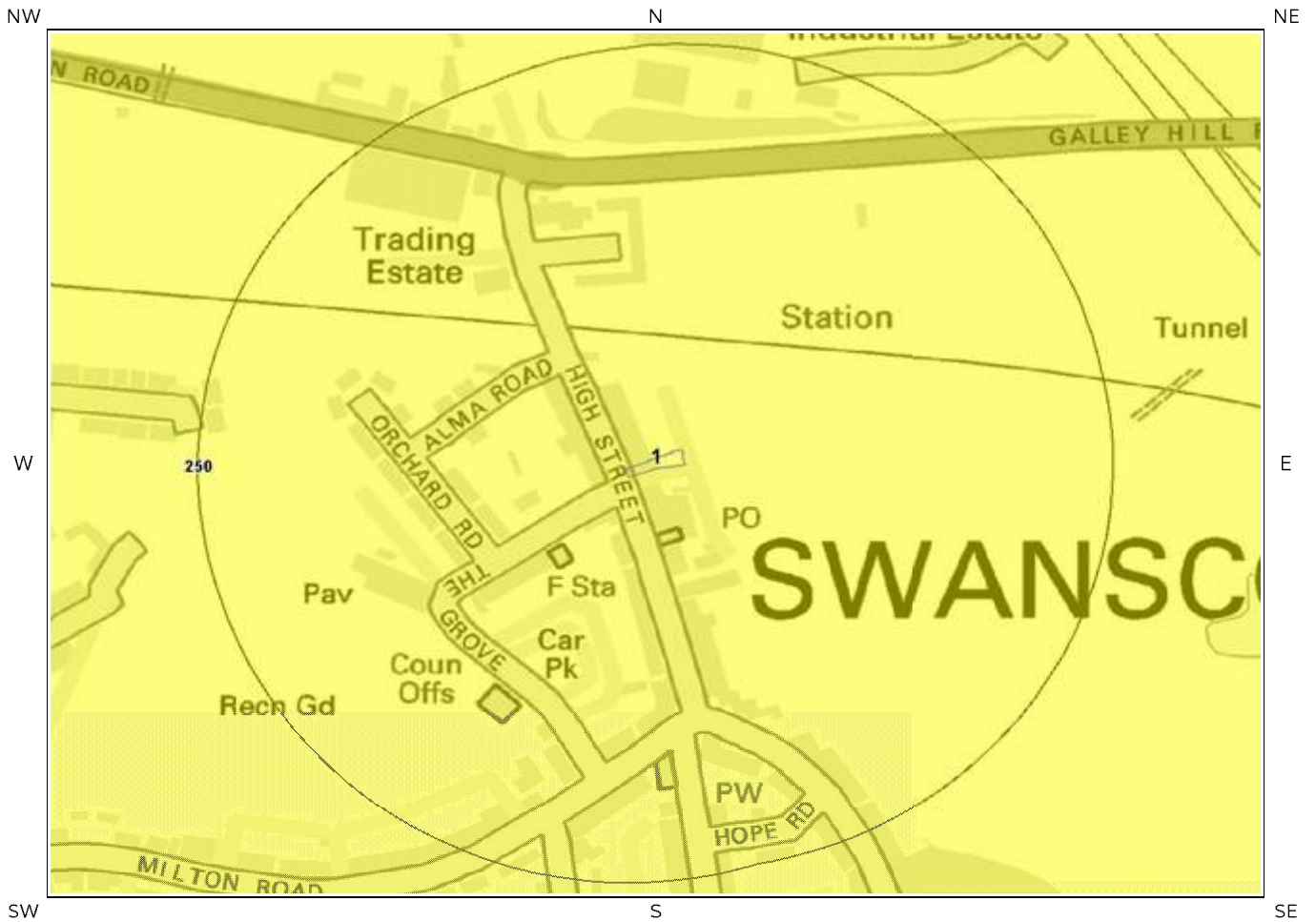


**Compressible Deposits Legend**

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.

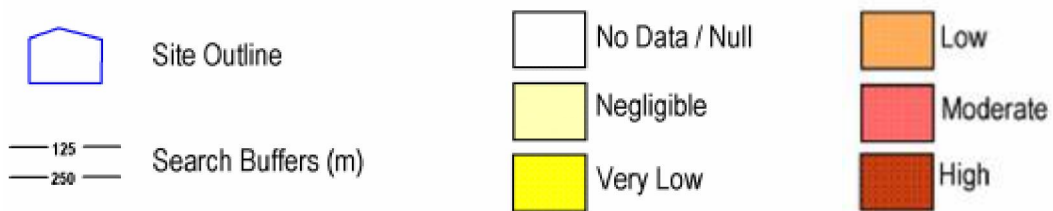


# 6.5 Collapsible Deposits map



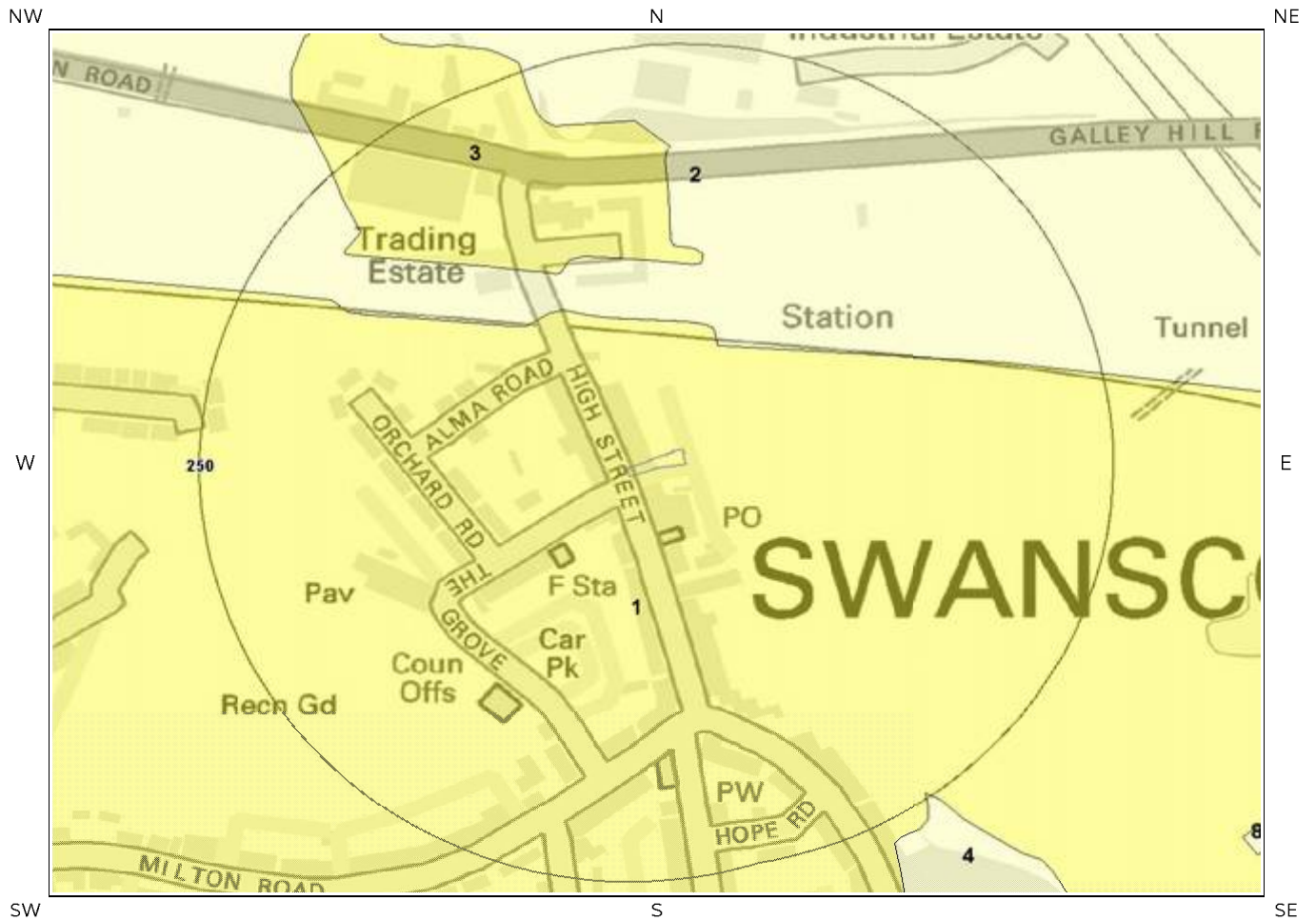
**Collapsible Deposits Legend**

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.



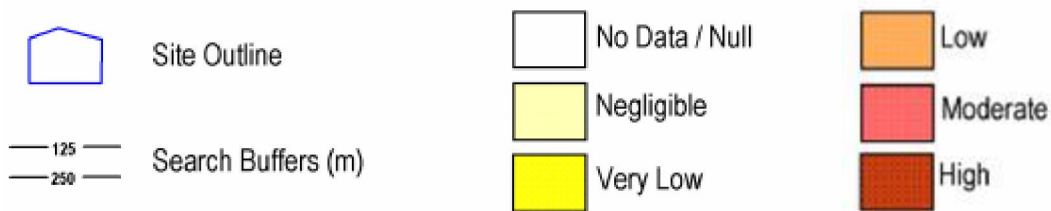


# 6.6 Running Sand map

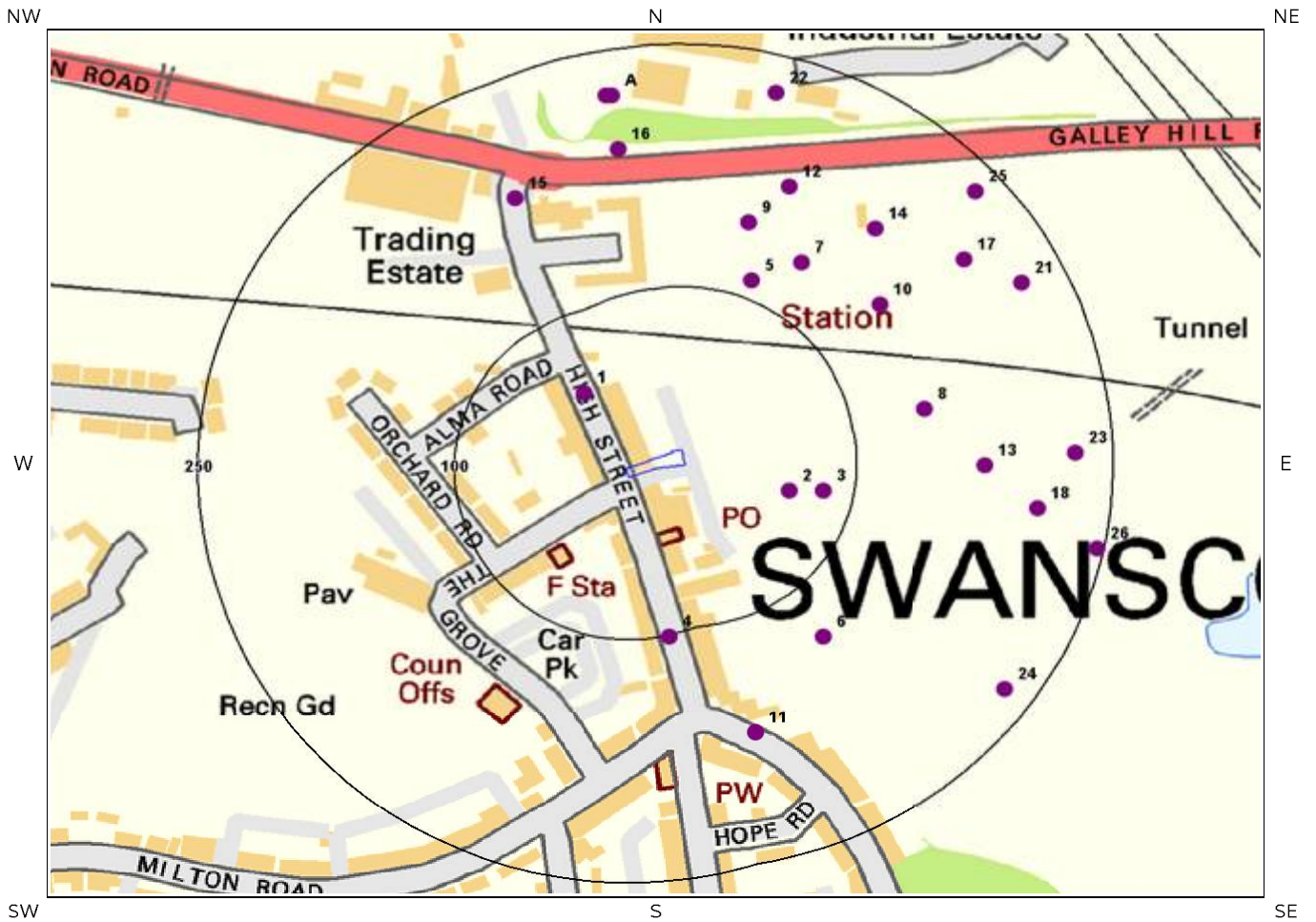


Running Sand Legend

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.







# 7 Borehole Records map



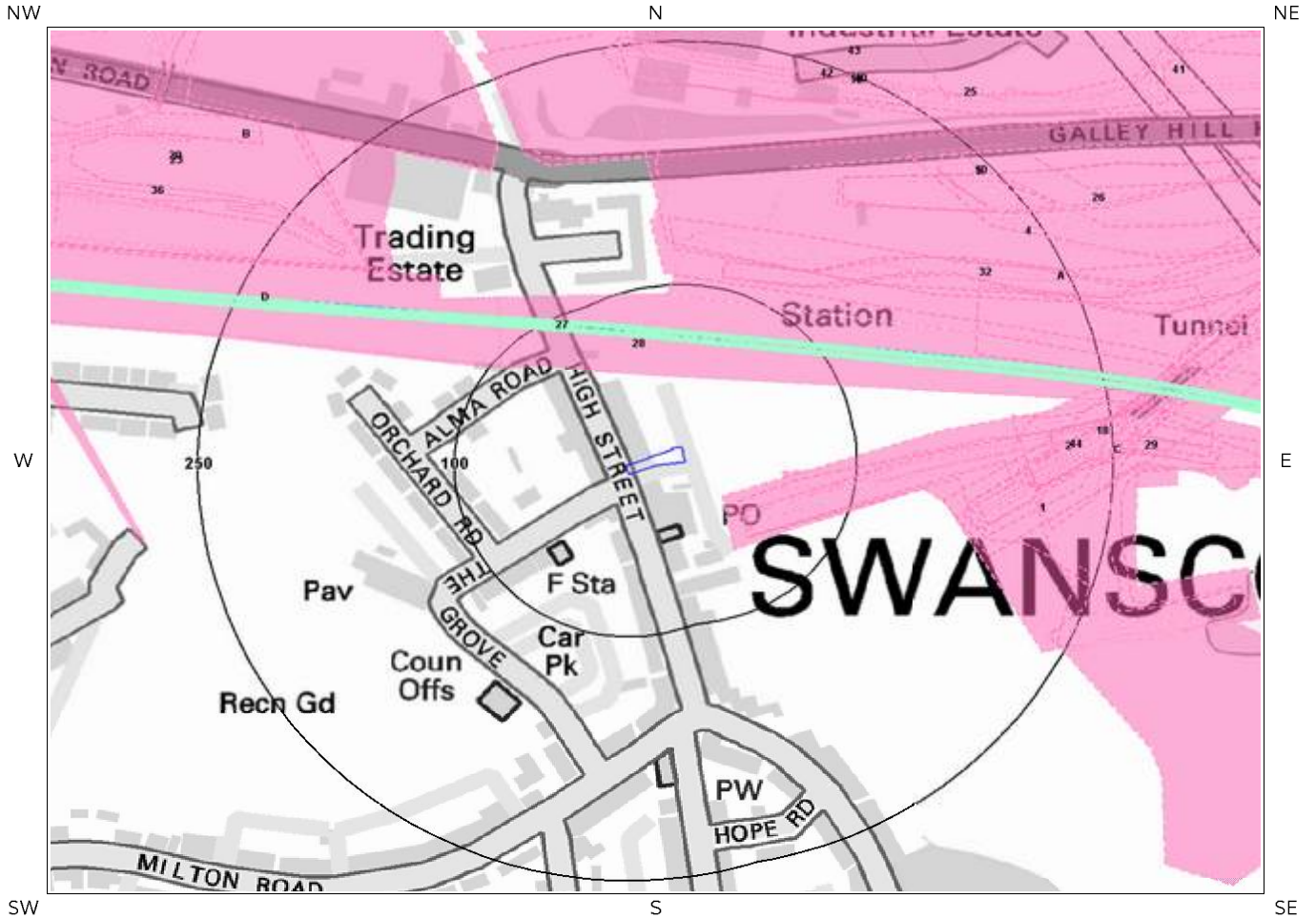
Borehole Records Legend

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.

-  Site Outline
-  Borehole Locations
-  125 Search Buffers (m)
-  250 Search Buffers (m)














# 9 Railways and Tunnels map



**Railways and Tunnels Legend**

© Crown copyright and database rights 2019.  
Ordnance Survey licence 100035207.  
© OpenStreetMapContributors

- |  |  |   |
|--|--|---|
|  Site Outline       |  Underground or Partially Underground Railway / Subway System |  Railway Track (OpenStreetMap)                         |
|  Search Buffers (m) |  Railway Tunnel (OS Mapping)                                  |  High Speed 2  |
|  |  Abandoned or Dismantled Railway (OpenStreetMap)              |  High Speed 2 Revised Proposed Route                   |
|  |  Railway Track (OS Mapping)                                   |  Crossrail 1   |
|  |  |  Railway and/or Tunnel Feature from Historical Mapping |

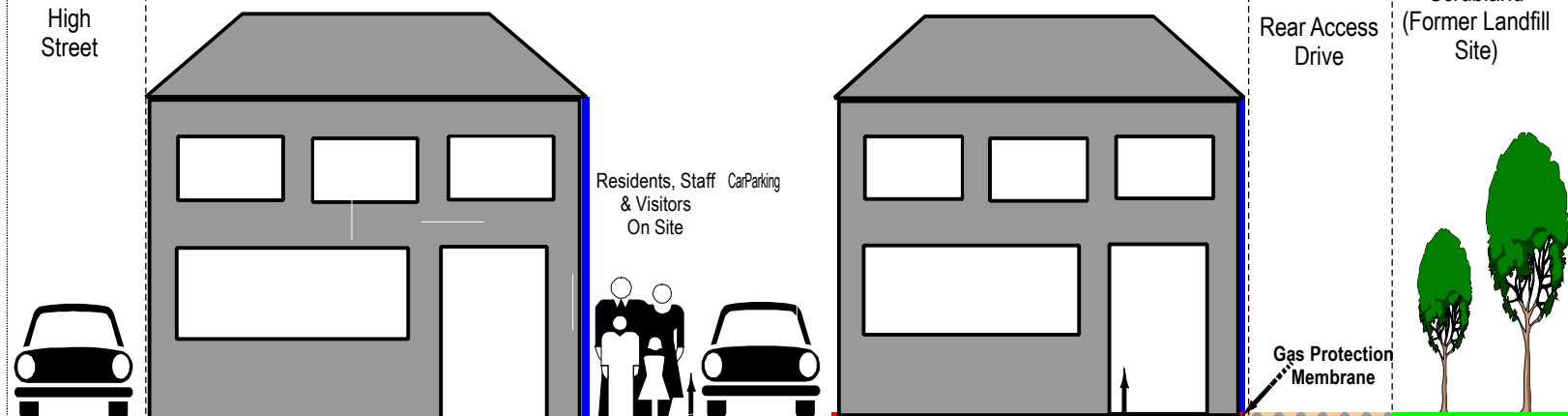
## APPENDIX 6

### CONCEPTUAL MODEL



**Existing Building - Dental Surgery & Flats  
(Dental Surgery to be  
Converted to Studio Flat)**

**New Building  
(Dental Surgery)**



Dusts, Gases & Vapours/Ingestion  
Dermal Contact  
(During Construction Only)

Dusts, Gases (no gases with protection)  
& Vapours

Surface Water Discharge - Existing Mains

Foul Drainage System Existing Mains

Possible Contaminants On Site:  
Heavy Metals, PAH's, TPH's, BTEX,  
Asbestos, Landfill Gases

Possible Contamination  
impact from off  
site sources

No Contamination  
impact from off  
site sources

**Groundwater (Principal Aquifer) and SPZ**

**CONCEPTUAL MODEL**

KEY :

- Boyn Hill Gravel (sand and gravel)
- Lewes Nodular, Seaford and/or Newhaven Chalk Formations
- Hard Cover
- Gravel/Soil
- Landfill

First edition following  
the Desk Study

**Soiltec**

CLIENT : Chopra and Associates

SITE : 23 High Street  
SWANSCOMBE  
Kent DA10 0AG

Job No : 08494/25

DATE : 26/03/19

SCALE : N.T.S.

DRAWN : KDH