



ENVIRONMENTAL RISK ASSESSMENT

O'Brien Aggregate Marsden Ltd

Marsden Quarry Landfill Site Marsden Quarry
Whitburn Sunderland
Tyne and Wear
SR6 7NG

EPR/GB3206CB

BASIS OF REPORT

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REFERENCED DOCUMENTS AND SOURCES

Habitats Management Plan

Odour Management Plan

Working Plan / EMS

Waste Acceptance and Rejection procedures

Washplant Specification (OT)

INFORMATION SOURCES

Groundsure Report **Ref:** GS-4X7-DEJ-Y35-MA4

Willy Weather [WillyWeather - iPhone App](#)

Flood Risk [Get flood risk information for planning in England - Flood map for planning - GOV.UK](#)

Footpath Map [UK footpaths, bridleways and byways online map | FootPathMap.co.uk](#)

APPENDICIES

Receptor Plan 004

Groundsure Report **Ref:** GS-4X7-DEJ-Y35-MA4

1.0 Introduction

O'Brien Aggregates Marsden Ltd (OBAM) has instructed Olive Compliance Limited (OCL) to prepare an application for a Bespoke Environmental Permit Variation Application.

This ERA has been undertaken in accordance with the Environment Agency (EA) *Risk assessments for your environmental permit*¹ (2016) and is a simple assessment of the risks to the environment and human health from accidents, noise and fugitive emissions that may be associated with the proposed operations at the site.

The aim of the assessment is to identify any significant risks and demonstrate that the risk of pollution or harm will be acceptable by taking the appropriate measures to manage these risks.

The above guidance requires all receptors that are near the site and could reasonably be affected by the proposed activities to be identified and considered as part of the ERA. Therefore:

- a 2km radius has been adopted in reviewing potentially sensitive receptors of ecological importance; and
- a radius of 1km from the proposed permit boundary has been adopted for all other potentially sensitive receptors (for example, residential, cultural heritage, commercial, industrial, agricultural and surface water receptors).

2.0 Site Setting and Receptors

2.1 Site Setting

The site is located at Land at Marsden Quarry. Sunderland, SR6 7NG.

A summary of the immediate environmental site setting is provided in Table 1 below.

Table 1

Boundary	Description
North	Coastal / Transport Link
South	Residential / greenspace
East	Coastal / Tourist Feature
West	Public use space

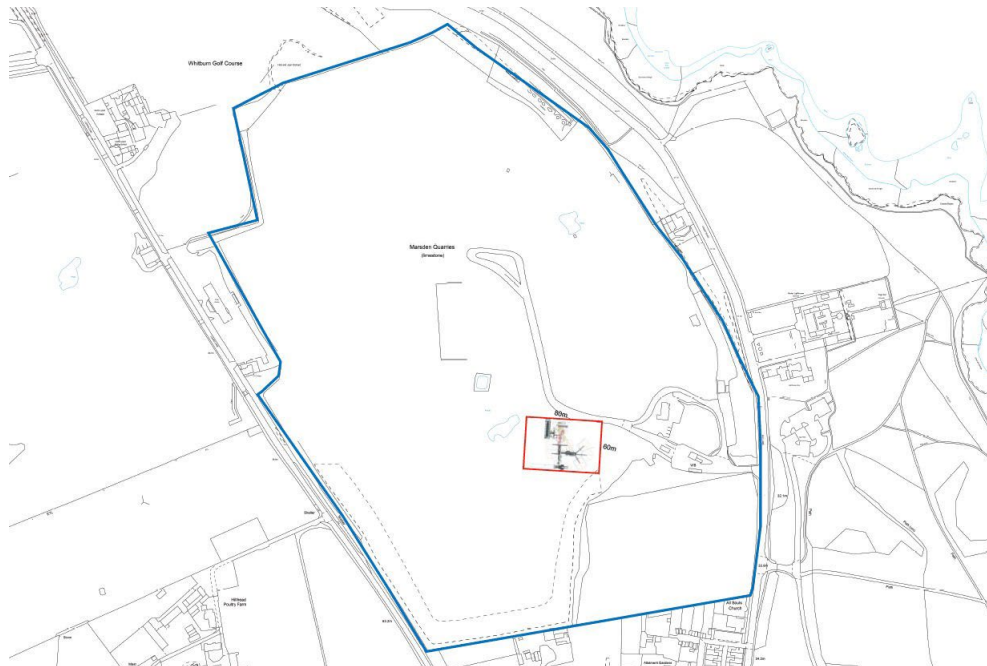
The site location and environmental site setting is shown below.

¹ <https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit>

Image 1 – Site Setting



Image 2 – Site Boundary



2.2 Site Activities

The subject site comprises an active limestone quarry and Inert Landfill. The site is largely free of structures with the exception of smaller site offices situated to the east in close proximity to the site entrance off A183, Coast Road.

The site operates between the hours of 07:00 and 17:00 Monday to Friday and 07:00 to 13:00 Saturday and is licenced to accept between 1,000 and 1,500 tonnes of Inert waste per day. Access to the site is controlled with fencing provided to restrict unauthorised access, with security provided including 24hr Remote CCTV surveillance.

The location of the proposed wash plant is situated within a central location, approximately 280m from the site's eastern boundary, 240m from the site's southern boundary, and 200m and 340m from the site's western and northern boundaries respectively. The wash plant is to be positioned in an area which lies at an elevation approximately 30m below the quarry rim height as shown on Image 2.

A small quarry lagoon is present adjacent the proposed wash plant location which is currently utilised for dust suppression.

2.2.1 Permitted Sites

There are no permitted sites within 1k of the site.

2.2.2 Exemptions

There is one organisation (National Trust 0.2m) with registered waste exemptions within 1k of the site.

National Trust	SOUTER LIGHTHOUSE, COAST ROAD, SUNDERLAND, SR6 7NH	D7, S2, T12, T23, T6, U1, U12, U13, U14, U3, U8
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After a review of the registered exemptions there is no posed risk to the activities proposed on site.

2.2.3 European/International Sites

According to the Groundsure Report, the site is located within an area of Adopted Green belt. No further designations or protected species or habitats are recorded on site or within a 250m radius of the proposed wash plant location.

Durham Coast is located 395m to the north, which is recorded as a Site of Special Scientific Interest (SSSI) and Special Area of Conservation (SAC). The nearest Local Nature Reserve is located 810m to the northwest, named as Marsden Old Quarry.

A Habitats Management Plan (HMP) has been produced in support of this application.

2.2.4 Other receptors

None of the following receptors have been identified within 1km of the proposed permit boundary.

- National Nature Reserves;
- World Heritage Sites;
- Registered Parks and Gardens;
- Area of Outstanding Natural Beauty;
- Woodland Trust Sites; and
- National Forest.

2.2.5 Major Roads and Transport Links

There are no motorways within 1km of the site boundary.

The site is within 20m (east of the site) of the Network Rail Eastern Railway Line.

2.2.6 Public/Tourist Areas

The site is surrounded by open coastal beaches, leisure activities such as a golf course and public use areas for dogwalkers or horse riders using the greenspace surrounding the site.

In general, the majority of the wider quarry site is bounded by undeveloped, agricultural or golf course land.

The nearest residential properties to the proposed wash plant location are situated approximately 250m to the northeast, 260m to the east and 260m to the south. Souter Lighthouse is located 300m to the northeast. Whitburn Golf Club is situated approximately 410m to the northeast and Hillhead Tea Room , 440m to the southwest.

The A183 (Coast Road) from which access to the site is gained is located 210m to the east.

Lizard Lane is present 280m to the west.

England Coastal Path follows the coastline approximately 450m to the east, with a designated Coastal Margin recorded 460m to the east. Both of which are classed as areas of Open Access.

The quarry has been operational at the site for over 150 years with O'Brien Aggregate Marsden Ltd having operated the site since 2018. Quarry/landfill related traffic has operated in the area with no significant issues in accordance with existing operational requirements.

Image 3 – Public Use Areas



Image 4 -Public Footpaths and Bridleways surrounding the site



Layers

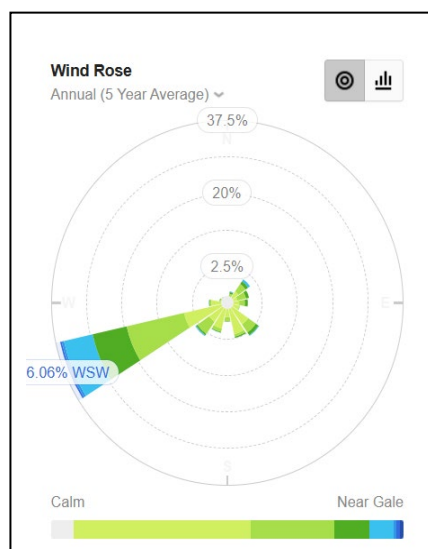
	Footpath, Bridleway, Byway	
	National Trails / Coastal Path	
	Right to Roam	
	Cycle Network	

2.2.7 Prevailing Wind Direction

Data and the wind rose (Image 3) from the windfinder.com website is based on real-time observations taken between March 2016 and August 2021. The wind rose below shows the percentage of wind vector that could be generated in each of the 16 points of the compass, reflecting dominant wind direction from the site boundary.

Upon review of this data the prevailing wind directions are predominately north north easterly in respect of the site as shown in Image 3 below.

Image 4 – Wind Direction Average 5-year data - Marsden



2.2.8 Geology

Made Ground

Records indicate the presence of Made Ground deposits largely within the south-eastern and eastern part of the quarry, likely related to landfilling activities undertaken at the site.

Superficial Drift

Environmental Risk Assessment

The subject site is free of superficial drift deposits due to historic quarrying activities having been undertaken on site. Superficial deposits remaining in surrounding area are shown to comprise Devensian Till (Diamicton).

Solid geological deposits underlying the site are recorded as comprising the Roker Formation which is known to have been quarried. They may support water supply and/or river base flow on a in the area since prior to 1856 as shown on available historic mapping with numerous smaller quarries recorded. Extraction of these deposits at the quarry site appears to have commenced prior to 1894.

Economic Geology

The site comprises an active limestone quarry which has been in operation for over 150 years.

2.2.9 Hydrogeology

The site is located Source Protection Zone 3 (Total Catchment) - This is the area around a supply source within which all the groundwater ends up at the abstraction point. This is the point from where the water is taken. This could extend some distance from the source point.

There is one assumed active groundwater abstraction recorded within 1km registered to the Coal Authority and reportedly utilised for Pollution Remediation at a location 510m to the southeast. No potable water supply boreholes are recorded within 1km of the subject site, with the nearest potable water supply abstraction, being recorded 1812m to the west.

2.2.10 Flood Risk and Water Features and Courses

Table 2 – Flood Risk and Water Features and Courses

Hydrological Context	
Surface Watercourses	A small lagoon is present within the quarry area. No further surface water features are recorded within a plausible migration distance of the site. The North Sea is present approximately 410m to the northeast.
Culverted Watercourses	Based on the available information and following the completion of the site walkover no evidence of a culverted watercourse has been noted. Should further clarification on this point be required, it would be necessary to undertake an intrusive drainage survey to trace the course of drainage infrastructure.
Surface Water Abstractions Licences	There are no surface water abstraction licences recorded within 2km of the subject site.
River and Sea Flood Risk (Environment Agency database)	Flood Zone 1 - Land outside the area at significant risk of flooding from rivers and sea. Land within Flood Zone 1 can typically be considered to have a low risk with regard river and sea flooding.

Environmental Risk Assessment

Surface Water Flood Risk	According to the Groundsure Report, the site is unlikely to be at significant risk of surface water flooding. Localised areas of the site may experience surface water accumulation during periods of high or prolonged rainfall.
Groundwater Flood Risk	The Groundsure report identifies the potential for Groundwater Flooding to Occur at Surface on site. This is likely due to site levels have been reduced due to past quarrying activities.
Area Benefitting from Flood Defences	None recorded within 1km of the site.
Evidence of Previous Flood Events at Site	Based on available information, none have been identified.
Overall Flood Risk	Based on available information, it is considered the site has an overall Low flood risk.
Source Protection Zone	The site is not within a Source Protection Zone

2.2.11 Air Quality

A search was made on the UK Defra Air Quality Map website (see below link).

<https://uk-air.defra.gov.uk/aqma/maps/>

The website and South Tyneside Council website confirms that the site does not in an AQMA area²

2.2.12 Sensitive Receptors

A list of potentially sensitive receptors within a 1km radius of the site boundary are detailed in Table 3 below.

Table 3 – Environmental and Human Receptors

Receptor	Distance	Receptor Assessment
North Lizard Riding School	464m	Due to the proximity of site and waste types, there is a low risk of impact from site activities.
The Whitburn Golf Club Limited	380m	Due to the proximity of site, there is a low risk of impact from site activities. All wastes are accepted treated, and

² <https://uk-air.defra.gov.uk/aqma/maps/>

Environmental Risk Assessment

		stored in site in accordance with site management systems, regulated stockpiles with secure fencing to prevent loss of materials during handling and treatment.
Lizard Lane Holiday Park	660m	Due to the proximity of site, there is a low risk of impact from site activities. Dust, Litter, Noise and Fire Controls in place to prevent impact to local residents/visitors.
Dog Park	294m	Due to the proximity of site, there is a risk of impact from site activities. Dust, Litter, Noise and Fire Controls in place to prevent impact to the business and public use areas
Marsden Rock	634m	Due to the proximity of site, there is a risk of impact from site activities. Dust, Litter, Noise and Fire Controls in place to prevent impact to these receptors and visitors.
Souters Lighthouse	395m	Due to the proximity of site, there is a risk of impact from site activities. Dust, Litter, Noise and Fire Controls in place to prevent impact to the neighbouring businesses and visitors.
Marsden old hall quarry Nature reserve - Marsden Old Quarry	769m	The location of the woodland and prevailing wind direction means there is a low risk of ash settlement and any potential wildlife habitats. Due to its location, there is minimal risk of dust settlement and wildlife impact in the event of an emissions release. Due to the proximity of site, there is a low risk of impact from site activities.
A183	234m	Low risk of impact on transport links

Environmental Risk Assessment

North Sea	634m	Due to the proximity of site, there is a risk of impact from site activities. No water discharge from site activities
Durham Coast SSSI	395m (north)	Due to the proximity of site, there is a risk of impact from site activities. No water discharge from site activities
Special Area of Conservation (SAC) – Durham Coast	395m (north)	Due to the proximity of site, there is a risk of impact from site activities. No water discharge from site activities

2.2.13 Archaeological / Historic Land Use

According to Magic Map data, a Scheduled Monument named as Marsden Lime Kilns is located approximately 350m from the proposed wash plant location.

A second Scheduled Monument named as Lizard Lane Heavy Anti-aircraft Battery is shown to be located 450m to the southwest.

2.2.14 Flood Risk

The site is not in a Flood Risk area.

2.3 Assessment of site changes

Changes to Waste Activities

Wash Plant

The variation seeks to add a washing activity to permitted activities.

OBM wish to operate a wash plant is situated within a central location, approximately 280m from the site's eastern boundary, 240m from the site's southern boundary, and 200m and 340m from the site's western and northern boundaries respectively. The wash plant is positioned in an area which lies at an elevation approximately 30m below the quarry rim height as shown below.

The wash plant has been installed but is in commissioning phase.

The proposed wash plant is aimed at reclaiming useable aggregate from waste materials delivered to the quarry, thereby providing a locally derived source of aggregates and reducing demand on raw material derived aggregates. By reclaiming aggregates from incoming waste materials, the operation will also provide added benefits by extending the capacity at the landfill by reducing the volumes of such aggregates requiring landfill disposal.

Environmental Risk Assessment

The foundations for the proposed wash plant are shallow and require no significant excavation or un-conventional ground stabilisation or improvement measures and can be developed with limited impact on existing site surfacing.

Wastes processed by wash plant are confirmed as Inert prior to acceptance on site and as such are of negligible leachability with regard potential contaminants. No change to the permitted wastes already received by the site is proposed. However, the addition of the Inert

Wash water is to be sourced from a mains supply, bowser or where necessary an on-site lagoon. Wash water will also be sourced from rainfall falling on plant structures via a rainwater harvesting system, which will feed directly to the clarifying tank.

The flocculant (SPERFLOC A-130) is non-hazardous and is noted to have low mobility in soil.

Please refer to the Technical Data Sheet, as shown in **Appendix 2 of the Washplant Management Plan** for further details relating to this flocculant. Waste, wash water, aggregate and filter cake will be subject to inspection and laboratory analysis on the following frequency to confirm adherence to permitting requirements.

- **Incoming Waste** – Waste Acceptance Criteria (WAC) testing Prior to acceptance onsite. Visual inspection of incoming loads.
- **Wash water** – Twice per month for the first 6 months at which point a report would be produced presenting the data and providing a discussion on contaminant accumulation over time. Subject to data demonstrating a significant accumulation of contaminants was not occurring, monitoring will continue on a quarterly basis. Testing will include for the following determinands based on Inert WAC testing suite:-
 - pH,
 - Heavy Metals (Sb, Ar, Ba, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Zn),
 - Chloride,
 - Fluoride,
 - Sulphate,
 - Total dissolved solids,
 - Phenol index,
 - Dissolved organic carbon,
 - Total organic carbon,
 - BTEX,
 - PCB's,
 - Mineral oil (C10 – C40),
 - PAH (total).

Aggregates (Product) – Monthly testing. See The Quality Protocol dated: 13 June 2022 for details.

Waste Filter Cake – One sample per month for WM3, Waste Classification technical Guidance and Inert WAC testing.

Any filter cake will be tested to identify recovery or disposal options with records maintained as required.

With the exception of the flocculant no additional chemicals or materials will be stored, used or processed on site other than those already stored, used and processed under the existing permit.

Removal of EWC Codes

The removal of EWC code from Table 2.1 of the permit.

- 10-11-03 Waste glass-based fibrous materials

Increased Tonnages

The company wish to increase the tonnage for the Transfer Station activity from 75,000 to 250,000 to reflect the recycling activities conducted separately from the landfill operation. Tonnages are currently specified in Schedule 2 of the permit (S2.1) and Table S1.4.

3.0 Environmental Risk Assessment

3.1 Overview and Approach

This section outlines the procedure that has been followed in the undertaking of the ERA for the site. The results are presented, in accordance with the EA Guidance, in the Table 4.

3.1.1 Identification of Hazards

The first step of an ERA is to consider and identify the risks posed to the environment by the activities proposed for a site.

The EA Guidance states that an operator must:

"...identify whether any of the following risks could occur and what the environmental impact could be:

- *any discharge, for example sewage or trade effluent to surface or groundwater*
- *accidents*
- *odour (not for standalone water discharge and groundwater activities)*
- *noise and vibration (not for standalone water discharge and groundwater activities)*
- *uncontrolled or unintended ('fugitive') emissions, for which risks include dust, litter, pests and pollutants that shouldn't be in the discharge*
- *visible emissions, eg smoke or visible plumes."*

3.1.2 Identification of Receptors

Section 2 of this document describes the site setting and the land uses in the vicinity of the proposed site. This information has been used in order to focus on the main receptors that could be potentially at risk from the activities of the site.

The site due the site setting and low risk activities it is not felt that the facility will impact sensitive receptors, habitats or local environment.

Environmental Risk Assessment

The site naturally lies in a depression with an established headline along the northern boundary of the site, to screen offsite activities. The processing building, and external concrete walls and bays are used as a further site control to reduce the risk of escape the of waste and any fugitive emissions such as noise and dust from site.

3.1.3 Identification of Potential Pathways

For each of the identified hazards for operation of the site, the ERA has considered that pathways through which each hazard may impact on a sensitive receptor. Where such pathways exist, the risks of potentially significant impacts have been assessed and presented in Table 4.

Where no pathway exists between an identified hazard and an identified receptor, the associated risks are not considered further within the ERA and are, thus, not included in Table 4.

3.1.4 Assessment of Risks

The EA Guidance states that the nature of the ERA will be influenced by the type of activity (or activities) that are proposed for a site. For installations/waste operations, the ERA is required to consider, *"...one or more of the following, depending on the substances you discharge and where they're discharged to:*

- *assess the risks of your air emissions*
- *calculate the global warming impact of your air emissions*
- *assess risks to groundwater*
- *assess risk to groundwater from landfill leachate*
- *assess risks to surface water from hazardous pollutants*
- *assess risks to surface water from sanitary and other pollutants"*

For installations and waste operations, an operator is also required to decide how to treat, recycle or dispose of waste. The ERA has therefore included consideration of the environmental impact of the ultimate fate of the materials that will be processed by the proposed activities of the site.

3.1.5 Controlling Risks

The EA Guidance states:

"You'll need to show how you're managing any risks appropriately by controlling and monitoring your emissions and through your management system."

Where an ERA identifies risks that are potentially significant, the ERA is required to demonstrate how the risk of pollution or harm can be mitigated by measures to manage these risks. The approach undertaken to the implementation of management/mitigation measures, for this ERA, is (in order of preference):

- Avoidance / prevention;
- Minimisation / management;
- Mitigation; and

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- Offset / compensation.

The following tables present the assessment in terms of hazards posed, receptors and pathways, along with management and residual risks for the following hazards:

- Odour;
- Noise and Vibration;
- Fugitive Emissions (including dust, mud, litter and pests); and
- Accidents.

4.0 Conclusion

The overall conclusion from the Environmental Risk Assessment undertaken in support of the permit variation application is that there is unlikely to be a significant environmental impact upon potentially sensitive receptors as a result of the proposed Environmental Permit variation.

OBAM is fully committed to ensuring the highest standards are met and will undertake its activities in a manner consistent with best industrial practices and with the implementation of the company's management system.

HAZARD	RECEPTOR	PATHWAY	CONSEQUENCE	RISK MANAGEMENT	PROBABILITY OF EXPOSURE	OVERALL RISK
Emissions to air (dust)	On-site workers, visitors and off-site residents and employees.	Airborne	Inhalation of dusts. Coverage of property by dust. Impact on visibility.	Site operations to be undertaken in accordance with dust management plan. Daily monitoring and dust suppression to be adopted as per existing arrangements. Wash plant to damp down materials thereby controlling dust generation during operation and materials movement. Site specific Dust and Emissions Plan in place.	LOW following implementation of management measures. No significant increase in dust generation is anticipated.	LOW (to both on and off-site receptors).
Emissions to the Environment (light)	Off-site residents, nocturnal animals	Visual	Detrimental to any nocturnal wildlife foraging or commuting in surrounding area. Light impact for neighbouring residential properties at	The wash plant location is positioned at a lower elevation than surrounding receptors and is not directly visible from surrounding areas. Lighting at the proposed wash plant will be active during operational hours of 07:00 to 17:00 Monday to Friday and 07:00 to 13:00 on Saturday. Therefore, eliminating risk to the nocturnal wildlife and neighbouring properties.	LOW – the exposure to excess light generated by the proposed wash plant has been eliminated by the measures outlined in the risk management section. No significant increase in light pollution	LOW (to both receptors categories).

					is anticipated.	
Emissions to the Environment (noise and vibration)	On-site workers, visitors and off-site residents and employees. Natural environment in surrounding areas.	Air via wind and noise waves	Harm/nuisance to on-site and off-site receptors.	A noise risk assessment has been undertaken which identifies no significant noise risk arising from the proposed wash plant. Wash plant will operate between the hours of 07:00 and 17:00 Monday to Friday and 07:00 to 13:00 on Saturday. No increase in traffic will occur as a result of the wash plant operations. Wash plant location has been chosen to provide attenuation between operations and off-site receptors.	LOW – Noise risk assessment has identified no significant increase in noise generated at the quarry as a result of the wash plant. Plant and operations will result in no significant increase in vibration.	LOW (to all receptor categories).
Emissions to the Environment (Odour)	On-site workers, visitors and off-site residents and employees.	Air via wind and diffusion	Harm/nuisance to on-site and off-site receptors.	Wastes processed at wash plant are inert with low organic matter content. Incoming wastes will be controlled, and odour monitoring will be undertaken on a daily basis. Water will be subject to sampling and	LOW – A significant source of odours has not been identified. Measures are in place to	LOW (to all receptor categories).

				analysis to identify the accumulation of potential odorous compounds.	address residual risks. No increase in odour generation is anticipated.	
Emissions to land (water, leachate, chemicals/oils and soils)	Soils underlying the site	Lateral and vertical migration across surface and through pore spaces and discontinuities	Soil pollution and reduction in associated soil functioning	Waste materials are proven inert prior to acceptance on site. Inert wastes are of low leachability. Flocculant is non-hazardous. Aggregates and filter cake will contain negligible residual moisture content with most held in material by capillary action. Following washing and grading, processed aggregate will be stored temporarily in a dedicated storage area, underlain by an impermeable liner. Plant is monitored locally by trained staff and undergoes regular inspection and maintenance. Emergency procedures are in place.	LOW – Wastes, aggregates and process waters have limited contamination potential. Management measures are in place to address residual risks.	LOW

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Emissions to groundwater (water, leachate, chemicals/oils)	Groundwaters underlying the site and wider area	Lateral and vertical migration across surface and through pore spaces and discontinuities to groundwaters and movement through groundwaters.	Groundwater pollution	Wash water will be sourced from mains supply or bowser, alternatively a pre-existing lagoon is available on site. Waste materials are proven Inert prior to acceptance on site. Inert wastes are of low leachability. Flocculant is non-hazardous. Aggregates and filter cake will contain negligible residual moisture content with most held in material by capillary action. Aggregate will be stored in dedicated area underlain by impermeable liner. Wate, Aggregate, Filter Cake and Process Water will be subject to regular testing. Plant is monitored locally by trained staff and undergoes regular inspection and maintenance. Emergency procedures are in place.	LOW – Wastes, aggregates and process waters have limited contamination potential. Management measures are in place to address residual risks.	LOW
Flood Risk	On-site workers, visitors and properties and off- site residents, employees and property.	Surface water run-off, upward movement of groundwater	Damage to property, harm to life	No mitigation measures required. Proposed wash plant location is sufficiently distant from surrounding receptors and at an elevation sufficiently low enough to address flood water impacting adjacent properties. Wash plant footprint is of limited size and will result in a negligible increase	LOW – Negligible increase in surface waters anticipated.	LOW (to all receptor categories).

				in surface waters. Surface water flowing from plant, will be significantly reduced due to rainwater harvesting system with water fed directly to clarifying tank. No below ground infrastructure required for plant operation, foundations will be shallow and will require limited earthworks.	Groundwater s are not considered an issue.	
OVERALL RISK						LOW

Appendices

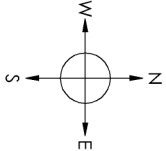
NOTES

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LEGEND

- SITE / SITE BOUNDARY
- - - 1KM OFF SET BOUNDARY
- RESIDENTIAL AREAS
- 1 NORTH IZARD RIDING SCHOOL
- 2 THE WHITBURN GOLF CLUB LIMITED
- 3 LIZARD LANE HOLIDAY PARK
- 4 DOG PARK
- 5 MARSDEN ROCK
- 6 SOUTER'S LIGHTHOUSE
- 7 MARSDEN OLD HALL QUARRY NATURE RESERVE
- 8 A183

SITE	
O BRIEN AGGREGATE MARSDEN LTD	
LAND AT MARSDEN QUARRY, SUNDERLAND, SR6 7NG.	
PROJECT	
EA PERMIT APPLICATION	
DRAWING TITLE	
SITE RECEPTOR PLAN	
DRAWING NUMBER	REVISION
004	0
SCALE	DATE
1:10000 @ A3	15.04.23



0m 10m 20m 30m 40m 50m

Marsden Quarry

Order Details

Date: 16/05/2025
Your ref: PO22
Our Ref: GS-4X7-DEJ-Y35-MA4

Site Details

Location: 440399 564070
Area: 23.58 ha
Authority: [South Tyneside Council](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

N/A: >10ha

[Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	29	2	52	46	-
19 >	1.2 >	Historical tanks >	2	0	8	3	-
20 >	1.3 >	Historical energy features >	1	1	2	2	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
21	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
22 >	2.1 >	Historical industrial land uses >	35	3	61	54	-
28 >	2.2 >	Historical tanks >	3	0	14	4	-
29 >	2.3 >	Historical energy features >	1	2	4	5	-
30	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
31 >	3.1 >	Active or recent landfill >	1	0	0	0	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
32	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
32 >	3.4 >	Historical landfill (EA/NRW records) >	2	0	0	2	-
33 >	3.5 >	Historical waste sites >	2	0	0	0	-
34 >	3.6 >	Licensed waste sites >	4	0	8	0	-
37 >	3.7 >	Waste exemptions >	0	0	40	29	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	4.1 >	Recent industrial land uses >	3	0	5	-	-
44	4.2	Current or recent petrol stations	0	0	0	0	-
44	4.3	Electricity cables	0	0	0	0	-
44	4.4	Gas pipelines	0	0	0	0	-
45	4.5	Sites determined as Contaminated Land	0	0	0	0	-



45	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
45	4.7	Regulated explosive sites	0	0	0	0	-
45	4.8	Hazardous substance storage/usage	0	0	0	0	-
45	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
46	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
46 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	1	0	0	0	-
46	4.12	Radioactive Substance Authorisations	0	0	0	0	-
46 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	0	5	-
47	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
48	4.15	Pollutant release to public sewer	0	0	0	0	-
48	4.16	List 1 Dangerous Substances	0	0	0	0	-
48	4.17	List 2 Dangerous Substances	0	0	0	0	-
48	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
48	4.19	Pollution inventory substances	0	0	0	0	-
49	4.20	Pollution inventory waste transfers	0	0	0	0	-
49	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
50 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
52 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
54 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
56 >	5.4 >	<u>Groundwater vulnerability- soluble rock risk ></u>	Identified (within 0m)				
56 >	5.5 >	<u>Groundwater vulnerability- local information ></u>	Identified (within 0m)				
58 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	2	2
60	5.7	Surface water abstractions	0	0	0	0	0
60 >	5.8 >	<u>Potable abstractions ></u>	0	0	0	0	2
61	5.9	Source Protection Zones	0	0	0	0	-
61	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
62	6.1	Water Network (OS MasterMap)	0	0	0	-	-



62	6.2	Surface water features	0	0	0	-	-
63 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
63 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
64 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
65	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
65	7.2	Historical Flood Events	0	0	0	-	-
65	7.3	Flood Defences	0	0	0	-	-
66	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
66	7.5	Flood Storage Areas	0	0	0	-	-
67	7.6	Flood Zone 2	None (within 50m)				
67	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
68	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
69 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	1	0	4
71 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	2
72 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	1	0	0
72 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	2
73	10.5	National Nature Reserves (NNR)	0	0	0	0	0
73 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	1	3
74	10.7	Designated Ancient Woodland	0	0	0	0	0
74	10.8	Biosphere Reserves	0	0	0	0	0
74	10.9	Forest Parks	0	0	0	0	0
74	10.10	Marine Conservation Zones	0	0	0	0	0
74 >	10.11 >	Green Belt >	1	0	0	0	0
75	10.12	Proposed Ramsar sites	0	0	0	0	0



75	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
75	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
75	10.15	Nitrate Sensitive Areas	0	0	0	0	0
76	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
77 >	10.17 >	SSSI Impact Risk Zones >	3	-	-	-	-
80 >	10.18 >	SSSI Units >	0	0	2	2	6
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
85	11.1	World Heritage Sites	0	0	0	-	-
86	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
86	11.3	National Parks	0	0	0	-	-
86 >	11.4 >	Listed Buildings >	0	0	3	-	-
87	11.5	Conservation Areas	0	0	0	-	-
87 >	11.6 >	Scheduled Ancient Monuments >	0	0	3	-	-
87	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	12.1 >	Agricultural Land Classification >	Grade 3b (within 250m)				
89	12.2	Open Access Land	0	0	0	-	-
89	12.3	Tree Felling Licences	0	0	0	-	-
89 >	12.4 >	Environmental Stewardship Schemes >	0	0	7	-	-
90 >	12.5 >	Countryside Stewardship Schemes >	2	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	13.1 >	Priority Habitat Inventory >	0	1	16	-	-
92 >	13.2 >	Habitat Networks >	1	2	6	-	-
93 >	13.3 >	Open Mosaic Habitat >	1	0	1	-	-
93	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	14.1 >	10k Availability >	Identified (within 500m)				
96 >	14.2 >	Artificial and made ground (10k) >	4	0	3	1	-
98 >	14.3 >	Superficial geology (10k) >	3	0	6	5	-

99	14.4	Landslip (10k)	0	0	0	0	-
100 >	14.5 >	Bedrock geology (10k) >	2	0	1	3	-
101 >	14.6 >	Bedrock faults and other linear features (10k) >	1	0	1	2	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	15.1 >	50k Availability >	Identified (within 500m)				
103 >	15.2 >	Artificial and made ground (50k) >	1	0	1	1	-
104 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
105 >	15.4 >	Superficial geology (50k) >	2	0	3	2	-
106 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
106	15.6	Landslip (50k)	0	0	0	0	-
106	15.7	Landslip permeability (50k)	None (within 50m)				
107 >	15.8 >	Bedrock geology (50k) >	2	0	0	0	-
108 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
108 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	1	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
109 >	16.1 >	BGS Boreholes >	1	0	14	-	-
Page	Section	Natural ground subsidence >					
111 >	17.1 >	Shrink swell clays >	Low (within 50m)				
113 >	17.2 >	Running sands >	Very low (within 50m)				
115 >	17.3 >	Compressible deposits >	Very low (within 50m)				
117 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
118 >	17.5 >	Landslides >	Moderate (within 50m)				
120 >	17.6 >	Ground dissolution of soluble rocks >	Very low (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
122 >	18.1 >	BritPits >	7	1	8	10	-
129 >	18.2 >	Surface ground workings >	30	4	47	-	-
132 >	18.3 >	Underground workings >	1	0	4	1	8
133	18.4	Underground mining extents	0	0	0	0	-
133	18.5	Historical Mineral Planning Areas	0	0	0	0	-



133	18.6	Non-coal mining	0	0	0	0	0
134	18.7	JPB mining areas	None (within 0m)				
134	18.8	The Coal Authority non-coal mining	0	0	0	0	-
134	18.9	Researched mining	0	0	0	0	-
134	18.10	Mining record office plans	0	0	0	0	-
135	18.11	BGS mine plans	0	0	0	0	-
135 >	18.12 >	Coal mining >	Identified (within 0m)				
135	18.13	Brine areas	None (within 0m)				
135	18.14	Gypsum areas	None (within 0m)				
136	18.15	Tin mining	None (within 0m)				
136	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
137 >	19.1 >	Natural cavities >	0	0	0	1	-
138	19.2	Mining cavities	0	0	0	0	0
138	19.3	Reported recent incidents	0	0	0	0	-
138 >	19.4 >	Historical incidents >	0	0	1	12	-
Page	Section	Radon >					
140 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
142 >	21.1 >	BGS Estimated Background Soil Chemistry >	13	1	-	-	-
143	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
143	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
144	22.1	Underground railways (London)	0	0	0	-	-
144	22.2	Underground railways (Non-London)	0	0	0	-	-
145	22.3	Railway tunnels	0	0	0	-	-
145 >	22.4 >	Historical railway and tunnel features >	13	2	14	-	-
146	22.5	Royal Mail tunnels	0	0	0	-	-
146 >	22.6 >	Historical railways >	1	0	2	-	-



147	22.7	Railways	0	0	0	-	-
147	22.8	Crossrail 2	0	0	0	0	-
147	22.9	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 23.58ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 16 May 2025

Recent site history - 2018 aerial photograph



Capture Date: 18/07/2018

Site Area: 23.58ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 16 May 2025

Recent site history - 2008 aerial photograph



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Capture Date: 07/05/2008

Site Area: 23.58ha



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Date: 16 May 2025

Recent site history - 2000 aerial photograph



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Capture Date: 07/05/2000

Site Area: 23.58ha



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01273 257 755

Date: 16 May 2025

Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

Site Area: 23.58ha



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info@groundsure.com

01273 257 755

Date: 16 May 2025

1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

129

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Ground Workings	1966	1333014



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Heap	1966	1350455
3	On site	Unspecified Quarry	1966	1386734
4	On site	Unspecified Quarries	1951	1399209
5	On site	Railway Sidings	1921	1428846
A	On site	Cuttings	1951	1327920
A	On site	Unspecified Heap	1951 - 1966	1390675
A	On site	Unspecified Works	1951 - 1966	1398920
A	On site	Unspecified Tank	1951 - 1966	1423043
B	On site	Limestone Quarries	1983	1328233
B	On site	Unspecified Quarry	1921	1369260
B	On site	Unspecified Quarry	1921 - 1938	1372718
B	On site	Railway Sidings	1895	1390326
B	On site	Unspecified Quarry	1895	1399206
C	On site	Refuse Heap	1966	1329189
D	On site	Unspecified Mine	1966	1334641
D	On site	Railway Sidings	1966	1381890
E	On site	Unspecified Heap	1966	1350456
E	On site	Unspecified Old Quarry	1921 - 1938	1374538
E	On site	Unspecified Old Quarry	1921	1398161
E	On site	Railway Sidings	1951	1415431
E	On site	Unspecified Quarries	1895	1425865
F	On site	Unspecified Heap	1951	1350457
F	On site	Old Limestone Quarry	1855	1360128
F	On site	Unspecified Ground Workings	1966 - 1983	1401508
G	On site	Unspecified Heap	1895	1361842
G	On site	Unspecified Heap	1966	1411349
H	On site	Railway Sidings	1938	1402199
H	On site	Railway Sidings	1921	1429373



ID	Location	Land use	Dates present	Group ID
I	12m NE	Unspecified Ground Workings	1951 - 1966	1409713
I	34m N	Unspecified Heaps	1951	1346740
7	62m SE	Railway Sidings	1951	1377771
H	62m SE	Colliery	1938 - 1951	1410517
J	62m N	Unspecified Ground Workings	1966	1333013
J	62m N	Old Limestone Quarries	1855	1337211
H	65m SE	Colliery	1921	1399856
H	66m SE	Colliery	1921	1367088
K	68m SE	Unspecified Ground Workings	1966 - 1983	1402525
L	75m SE	Colliery	1895	1416733
I	76m N	Lime Kilns	1983	1334015
M	77m E	Refuse Heap	1951	1401895
J	80m N	Unspecified Old Quarry	1921 - 1938	1381041
N	81m N	Railway Sidings	1921	1394161
I	86m N	Lime Kilns	1983	1334014
I	87m N	Railway Building	1921	1357116
K	90m S	Unspecified Pit	1951	1341743
J	91m N	Unspecified Quarry	1895	1348171
J	91m N	Unspecified Old Quarry	1921	1405660
I	100m N	Lime Kilns	1983	1334013
8	103m NW	Unspecified Old Quarry	1921	1331552
O	105m NE	Sandstone Quarries	1855	1352613
M	109m E	Unspecified Ground Workings	1895	1333012
N	113m N	Railway Sidings	1938	1398492
O	117m NE	Refuse Heap	1966 - 1983	1371507
10	118m SE	Unspecified Heap	1895	1350454
P	121m SE	Unspecified Old Quarry	1895	1407439
P	125m SE	Unspecified Old Quarry	1921	1386600



ID	Location	Land use	Dates present	Group ID
P	126m SE	Unspecified Old Quarry	1921	1396887
P	128m SE	Unspecified Old Quarry	1938	1380197
Q	140m N	Refuse Heap	1966	1329188
11	141m NW	Filter Beds	1966 - 1983	1404469
12	147m SE	Unspecified Pit	1895	1341741
R	157m SW	Old Limestone Quarry	1855	1360129
R	160m SW	Unspecified Pit	1921	1341742
R	162m SW	Unspecified Quarry	1938	1348172
S	172m E	Refuse Heap	1966	1381769
P	176m SE	Unspecified Heap	1895	1350452
L	187m SE	Old Limestone Quarries	1855	1337209
Q	188m N	Railway Building	1938	1357115
14	196m NE	Unspecified Hole	1855	1333909
R	199m SW	Unspecified Tank	1951	1354226
Q	208m N	Railway Station	1921	1335063
S	213m SE	Unspecified Quarry	1921 - 1938	1382506
S	215m SE	Unspecified Quarry	1921	1429559
Q	217m N	Railway Station	1895 - 1921	1363639
Q	221m N	Railway Station	1938	1363140
15	229m E	Unspecified Ground Workings	1951	1333011
U	233m N	Cuttings	1951	1327921
T	243m SE	Unspecified Tank	1921	1354221
16	245m SE	Unspecified Depot	1983	1336493
U	246m N	Railway Sidings	1951	1430478
T	248m SE	Unspecified Tank	1966	1354220
S	250m SE	Unspecified Ground Workings	1895	1333010
V	277m SE	Sand Pit	1951	1340026
S	287m SE	Unspecified Quarry	1895	1363809



ID	Location	Land use	Dates present	Group ID
W	301m SE	Electric Substation	1983	1335849
U	308m N	Railway Building	1938	1356816
X	325m NW	Cuttings	1951	1327261
Y	375m NW	Unspecified Workings	1968	1336595
Z	376m E	Unspecified Hole	1921 - 1938	1408606
X	387m NW	Unspecified Heap	1951	1348791
X	391m NW	Railway Building	1938	1356817
AA	393m NW	Unspecified Tank	1951	1353965
X	396m NW	Railway Building	1938	1356818
17	397m N	Unspecified Ground Workings	1951	1333015
AB	405m NW	Cuttings	1921	1398876
Z	405m E	Unspecified Hole	1951	1379353
18	406m E	Old Limestone Quarries	1855	1337210
Z	406m E	Old Quay	1855	1327235
AB	406m NW	Cuttings	1938 - 1951	1421097
AB	407m NW	Cuttings	1968	1377504
19	408m NW	Unspecified Heap	1951	1350225
Z	413m E	Unspecified Hole	1895	1384984
Y	427m NW	Unspecified Old Quarry	1921	1417214
Z	428m E	Unspecified Hole	1983	1410043
Y	430m NW	Unspecified Old Quarry	1921 - 1938	1377772
Y	433m NW	Unspecified Disused Quarry	1974 - 1985	1367751
Y	435m NW	Unspecified Old Quarry	1951	1421988
Z	437m E	Unspecified Hole	1966	1373740
Y	439m NW	Unspecified Quarry	1895	1348101
Z	442m E	Unspecified Hole	1855	1379756
AC	442m SE	Unspecified Disused Quarry	1966 - 1983	1427791
20	448m NW	Railway Sidings	1951	1359338



ID	Location	Land use	Dates present	Group ID
AC	458m SE	Unspecified Heap	1951	1350451
AD	459m SW	Unspecified Quarry	1951	1405835
AD	462m SW	Old Limestone Quarry	1855	1360130
V	463m SE	Unspecified Hole	1921	1333910
AD	464m SW	Unspecified Old Quarry	1921	1425391
AD	464m SW	Unspecified Old Quarry	1921 - 1938	1382935
AD	467m SW	Unspecified Quarry	1895	1398649
AE	470m NW	Unspecified Heap	1921	1350224
AF	474m SE	Unspecified Heap	1921	1404300
AE	475m NW	Cuttings	1938	1327801
AG	479m SE	Unspecified Hole	1938	1382099
AH	482m SE	Refuse Heap	1938	1403308
AG	482m SE	Unspecified Hole	1921	1389812
AH	484m SE	Refuse Heap	1921	1372502
AF	485m SE	Unspecified Heap	1921	1409339
AH	487m SE	Refuse Heap	1921	1412331

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

13

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1942	224183
A	On site	Unspecified Tank	1956	232394



ID	Location	Land use	Dates present	Group ID
13	160m E	Unspecified Tank	1896 - 1990	221758
T	209m SE	Unspecified Tank	1942	212345
T	211m SE	Tanks	1959	214976
T	215m SE	Unspecified Tank	1942	212346
T	222m SE	Unspecified Tank	1959	212361
T	235m SE	Unspecified Tank	1959	212362
T	243m SE	Unspecified Tank	1896 - 1915	220064
T	246m SE	Unspecified Tank	1959	208581
T	254m SE	Unspecified Tank	1942	212347
AA	391m NW	Unspecified Tank	1940	212351
AA	415m NW	Unspecified Tank	1956 - 1957	230422

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	6
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Electricity Substation	1990	127735
C	26m E	Electricity Substation	1956	135939
6	59m E	Electricity Substation	1971 - 1990	139002
9	110m E	Electricity Substation	1956	139688
W	297m SE	Electricity Substation	1982 - 1990	133200
X	391m NW	Electricity Substation	1955 - 1956	141151

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m**0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m**0**

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

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2.1 Historical industrial land uses

Records within 500m

153

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 22](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Heap	1966	1350455
2	On site	Unspecified Ground Workings	1966	1333014
3	On site	Unspecified Quarry	1966	1386734



ID	Location	Land Use	Date	Group ID
4	On site	Unspecified Quarries	1951	1399209
5	On site	Railway Sidings	1921	1428846
A	On site	Unspecified Heap	1895	1361842
A	On site	Unspecified Heap	1966	1411349
B	On site	Railway Sidings	1938	1402199
B	On site	Railway Sidings	1921	1429373
C	On site	Railway Sidings	1895	1390326
D	On site	Unspecified Ground Workings	1983	1401508
D	On site	Unspecified Ground Workings	1966	1401508
D	On site	Old Limestone Quarry	1855	1360128
D	On site	Unspecified Heap	1951	1350457
E	On site	Unspecified Heap	1966	1350456
E	On site	Unspecified Old Quarry	1921	1374538
E	On site	Railway Sidings	1951	1415431
E	On site	Unspecified Old Quarry	1938	1374538
E	On site	Unspecified Quarries	1895	1425865
E	On site	Unspecified Old Quarry	1921	1398161
F	On site	Refuse Heap	1966	1329189
G	On site	Railway Sidings	1966	1381890
G	On site	Unspecified Mine	1966	1334641
H	On site	Unspecified Tank	1966	1423043
H	On site	Unspecified Works	1966	1398920
H	On site	Unspecified Heap	1966	1390675
H	On site	Cuttings	1951	1327920
H	On site	Unspecified Heap	1951	1390675
H	On site	Unspecified Tank	1951	1423043
H	On site	Unspecified Works	1951	1398920
I	On site	Limestone Quarries	1983	1328233



ID	Location	Land Use	Date	Group ID
I	On site	Unspecified Quarry	1921	1372718
I	On site	Unspecified Quarry	1938	1372718
I	On site	Unspecified Quarry	1895	1399206
I	On site	Unspecified Quarry	1921	1369260
J	12m NE	Unspecified Ground Workings	1966	1409713
J	15m NE	Unspecified Ground Workings	1951	1409713
J	34m N	Unspecified Heaps	1951	1346740
6	62m SE	Railway Sidings	1951	1377771
B	62m SE	Colliery	1951	1410517
L	62m N	Unspecified Ground Workings	1966	1333013
L	62m N	Old Limestone Quarries	1855	1337211
M	65m SE	Colliery	1938	1410517
B	65m SE	Colliery	1921	1399856
B	66m SE	Colliery	1921	1367088
B	66m SE	Colliery	1921	1367088
N	68m SE	Unspecified Ground Workings	1983	1402525
N	68m SE	Unspecified Ground Workings	1966	1402525
O	75m SE	Colliery	1895	1416733
J	76m N	Lime Kilns	1983	1334015
P	77m E	Refuse Heap	1951	1401895
L	80m N	Unspecified Old Quarry	1921	1381041
Q	81m N	Railway Sidings	1921	1394161
Q	81m N	Railway Sidings	1895	1390326
J	86m N	Lime Kilns	1983	1334014
J	87m N	Railway Building	1921	1357116
N	90m S	Unspecified Pit	1951	1341743
L	90m N	Unspecified Old Quarry	1938	1381041
L	91m N	Unspecified Old Quarry	1921	1405660



ID	Location	Land Use	Date	Group ID
L	91m N	Unspecified Quarry	1895	1348171
J	100m N	Lime Kilns	1983	1334013
7	103m NW	Unspecified Old Quarry	1921	1331552
R	105m NE	Sandstone Quarries	1855	1352613
P	109m E	Unspecified Ground Workings	1895	1333012
Q	113m N	Railway Sidings	1938	1398492
R	117m NE	Refuse Heap	1983	1371507
R	117m NE	Refuse Heap	1966	1371507
8	118m SE	Unspecified Heap	1895	1350454
C	121m SE	Unspecified Old Quarry	1895	1407439
C	125m SE	Unspecified Old Quarry	1921	1386600
C	126m SE	Unspecified Old Quarry	1921	1396887
C	128m SE	Unspecified Old Quarry	1938	1380197
T	140m N	Refuse Heap	1966	1329188
U	141m NW	Filter Beds	1983	1404469
U	141m NW	Filter Beds	1966	1404469
C	147m SE	Unspecified Pit	1895	1341741
V	157m SW	Old Limestone Quarry	1855	1360129
V	160m SW	Unspecified Pit	1921	1341742
V	162m SW	Unspecified Quarry	1938	1348172
X	172m E	Refuse Heap	1966	1381769
C	176m SE	Unspecified Heap	1895	1350452
O	187m SE	Old Limestone Quarries	1855	1337209
T	188m N	Railway Building	1938	1357115
9	196m NE	Unspecified Hole	1855	1333909
V	199m SW	Unspecified Tank	1951	1354226
T	208m N	Railway Station	1921	1335063
X	213m SE	Unspecified Quarry	1921	1382506



ID	Location	Land Use	Date	Group ID
X	213m SE	Unspecified Quarry	1938	1382506
X	215m SE	Unspecified Quarry	1921	1429559
T	217m N	Railway Station	1921	1363639
T	217m N	Railway Station	1895	1363639
T	221m N	Railway Station	1938	1363140
10	229m E	Unspecified Ground Workings	1951	1333011
Y	233m N	Cuttings	1951	1327921
M	243m SE	Unspecified Tank	1921	1354221
11	245m SE	Unspecified Depot	1983	1336493
Y	246m N	Railway Sidings	1951	1430478
M	248m SE	Unspecified Tank	1966	1354220
X	250m SE	Unspecified Ground Workings	1895	1333010
Z	277m SE	Sand Pit	1951	1340026
X	287m SE	Unspecified Quarry	1895	1363809
AA	301m SE	Electric Substation	1983	1335849
Y	308m N	Railway Building	1938	1356816
AB	325m NW	Cuttings	1951	1327261
AC	375m NW	Unspecified Workings	1968	1336595
AD	376m E	Unspecified Hole	1938	1408606
AD	376m E	Unspecified Hole	1921	1408606
AB	387m NW	Unspecified Heap	1951	1348791
AB	391m NW	Railway Building	1938	1356817
AE	393m NW	Unspecified Tank	1951	1353965
AB	396m NW	Railway Building	1938	1356818
12	397m N	Unspecified Ground Workings	1951	1333015
AF	405m NW	Cuttings	1921	1398876
AD	405m E	Unspecified Hole	1951	1379353
13	406m E	Old Limestone Quarries	1855	1337210



ID	Location	Land Use	Date	Group ID
AD	406m E	Old Quay	1855	1327235
AF	406m NW	Cuttings	1938	1421097
AF	407m NW	Cuttings	1968	1377504
AF	407m NW	Cuttings	1951	1421097
14	408m NW	Unspecified Heap	1951	1350225
AD	413m E	Unspecified Hole	1895	1384984
AC	427m NW	Unspecified Old Quarry	1921	1417214
AD	428m E	Unspecified Hole	1983	1410043
AC	430m NW	Unspecified Old Quarry	1921	1377772
AC	433m NW	Unspecified Disused Quarry	1985	1367751
AC	433m NW	Unspecified Disused Quarry	1974	1367751
AC	434m NW	Unspecified Old Quarry	1938	1377772
AC	435m NW	Unspecified Old Quarry	1951	1421988
AD	437m E	Unspecified Hole	1966	1373740
AC	439m NW	Unspecified Quarry	1895	1348101
AD	442m E	Unspecified Hole	1855	1379756
AG	442m SE	Unspecified Disused Quarry	1983	1427791
AG	442m SE	Unspecified Disused Quarry	1966	1427791
15	448m NW	Railway Sidings	1951	1359338
AG	458m SE	Unspecified Heap	1951	1350451
AH	459m SW	Unspecified Quarry	1951	1405835
AH	462m SW	Old Limestone Quarry	1855	1360130
Z	463m SE	Unspecified Hole	1921	1333910
AH	464m SW	Unspecified Old Quarry	1921	1425391
AH	464m SW	Unspecified Old Quarry	1938	1382935
AH	467m SW	Unspecified Quarry	1895	1398649
AH	470m SW	Unspecified Old Quarry	1921	1382935
AI	470m NW	Unspecified Heap	1921	1350224



ID	Location	Land Use	Date	Group ID
AJ	474m SE	Unspecified Heap	1921	1404300
AJ	474m SE	Unspecified Heap	1921	1404300
AI	475m NW	Cuttings	1938	1327801
AK	479m SE	Unspecified Hole	1938	1382099
AL	482m SE	Refuse Heap	1938	1403308
AK	482m SE	Unspecified Hole	1921	1389812
AL	484m SE	Refuse Heap	1921	1372502
AL	484m SE	Refuse Heap	1921	1372502
AJ	485m SE	Unspecified Heap	1921	1409339
AL	487m SE	Refuse Heap	1921	1412331

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

21

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
H	On site	Unspecified Tank	1942	224183
H	On site	Unspecified Tank	1956	232394
H	On site	Unspecified Tank	1956	232394
W	160m E	Unspecified Tank	1896	221758
W	160m E	Unspecified Tank	1915	221758
W	160m E	Unspecified Tank	1942	221758
W	162m E	Unspecified Tank	1956	221758
W	162m E	Unspecified Tank	1971	221758
W	162m E	Unspecified Tank	1990	221758
M	209m SE	Unspecified Tank	1942	212345



ID	Location	Land Use	Date	Group ID
M	211m SE	Tanks	1959	214976
M	215m SE	Unspecified Tank	1942	212346
M	222m SE	Unspecified Tank	1959	212361
M	235m SE	Unspecified Tank	1959	212362
M	243m SE	Unspecified Tank	1896	220064
M	243m SE	Unspecified Tank	1915	220064
M	246m SE	Unspecified Tank	1959	208581
M	254m SE	Unspecified Tank	1942	212347
AE	391m NW	Unspecified Tank	1940	212351
AE	415m NW	Unspecified Tank	1957	230422
AE	415m NW	Unspecified Tank	1956	230422

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

12

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
I	On site	Electricity Substation	1990	127735
F	26m E	Electricity Substation	1956	135939
F	27m E	Electricity Substation	1956	135939
K	59m E	Electricity Substation	1971	139002
K	60m E	Electricity Substation	1990	139002
S	110m E	Electricity Substation	1956	139688
S	110m E	Electricity Substation	1956	139688
AA	297m SE	Electricity Substation	1982	133200
AA	297m SE	Electricity Substation	1988	133200



ID	Location	Land Use	Date	Group ID
AA	297m SE	Electricity Substation	1990	133200
AB	391m NW	Electricity Substation	1956	141151
AB	391m NW	Electricity Substation	1955	141151

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

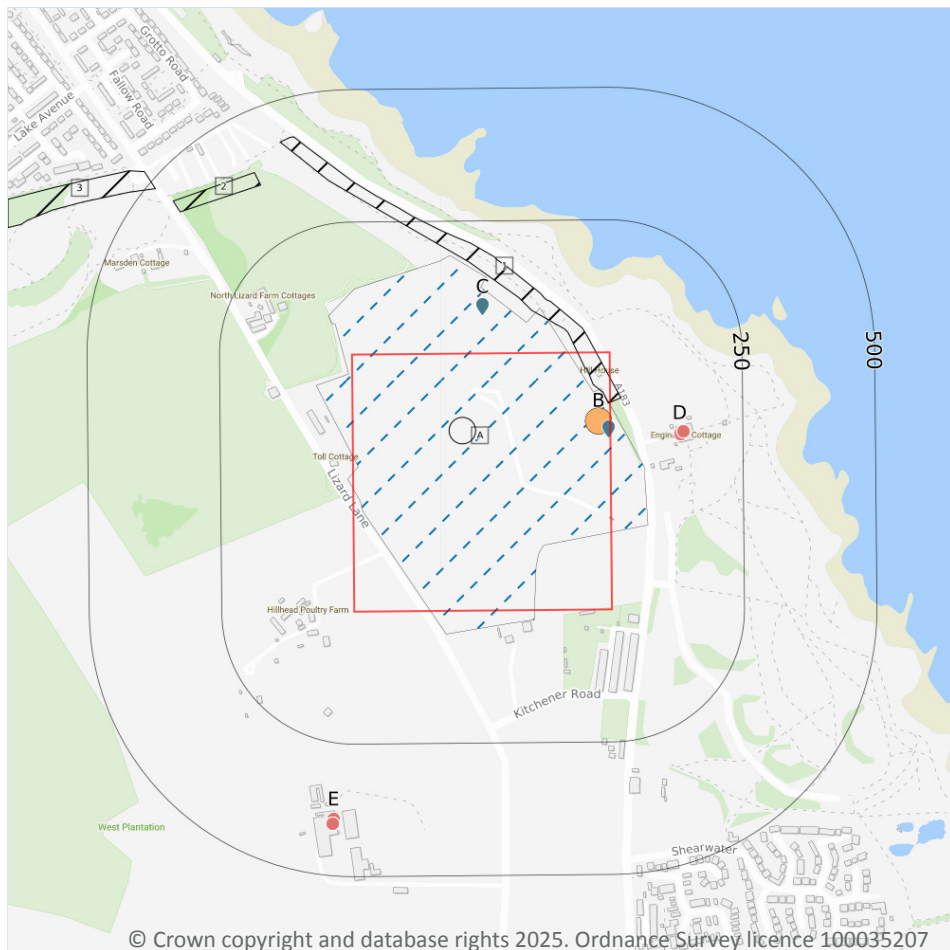
0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on [page 31](#) >

ID	Location	Details	
A	On site	Operator: O' Brien Aggregate Mardsen Limited Site Address: O' Brien Aggregate Mardsen Limited, Mardsen Quarry, Whitburn, Sunderland, Tyne & Wear, SR6 7NG	WML Number: 64063 EPR Reference: 645824 Landfill type: L05: Inert LF Status: Issued IPPC Reference: - EPR Number: EA/EPR/GB3206CB

This data is sourced from the Environment Agency and Natural Resources Wales.



3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

4

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 31 >](#)

ID	Location	Details		
1	On site	Site Address: Mineral Railway, Coast Road, Mardsen, South Shield, Tyne and Wear Licence Holder Address: Town Hall, South Shields, Tyne and Wear	Waste Licence: Yes Site Reference: ST 013, TW 046 ST Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: YO1/L/SOU001 Licence Issue: 04/01/1979 Licence Surrender: 31/03/1994	Operator: South Tyneside Borough Council Licence Holder: South Tyneside Metropolitan Borough Council First Recorded 01/04/1978 Last Recorded: 08/10/1980
A	On site	Site Address: Part Of Mardsen Quarry Landfill, Whitburn, Tyne and Wear Licence Holder Address: Conyngham Hall, Knaresborough, North Yorkshire	Waste Licence: Yes Site Reference: TW 087 ST Waste Type: - Environmental Permitting Regulations (Waste) Reference: YO1/L/TIL003 Licence Issue: 13/01/1982 Licence Surrender: 31/03/1994	Operator: - Licence Holder: Tilcon Limited First Recorded - Last Recorded: -



ID	Location	Details		
2	363m NW	Site Address: Disused Quarry off Quarry Lane, Marsden, South Tyneside Licence Holder Address: -	Waste Licence: - Site Reference: ST 037 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
3	485m NW	Site Address: Disused Quarry off Quarry Lane, Marsden, South Tyneside Licence Holder Address: -	Waste Licence: - Site Reference: ST 037 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	2
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Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 31 >](#)

ID	Location	Address	Further Details	Date
B	On site	Site Address: Marsden Quarry, Coast Road, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7NH	Type of Site: Recycling Operation Planning application reference: ST/1742/07/FUL Description: Scheme comprises introduction of recycling operation to recover inert construction waste for export from the site in addition to the quarrying and landfill operations. An application (ref: ST/1742/07/FUL) for detailed planning permission was granted by South Tyneside M.B.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-



ID	Location	Address	Further Details	Date
B	On site	Site Address: Marsden Quarry, Coast Road, Whitburn, SUNDERLAND, Tyne & Wear, SR6 7	Type of Site: Waste Management Facility Planning application reference: ST/0094/11/FUL Description: Scheme comprises application for the extension of the time limit relating to the previously approved planning application Ref ST/1742/07/FUL for introduction of recycling operation to recover inert construction waste for export from the site in addition to quarrying and landfill operations. An application (ref: ST/0094/11/FUL) for detailed planning permission was withdrawn from South Tyneside M.B.C. A detailed planning application has been withdrawn. Data source: Historic Planning Application Data Type: Point	-

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	12
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 31 >](#)

ID	Location	Details		
B	On site	Site Name: Marsden Quarry Landfill Site Site Address: Marsden Quarry, Whitburn, Sunderland, Tyne & Wear, SR6 7NG Correspondence Address: -	Type of Site: Inert LF Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OWE005 EPR reference: EA/EPR/PP3194ZV/V004 Operator: Owen Pugh & Company Limited Waste Management licence No: 64063 Annual Tonnage: 45000	Issue Date: 31/05/2005 Effective Date: - Modified: 09/05/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
B	On site	Site Name: Marsden Quarry Landfill Site Site Address: Marsden Quarry, Whitburn, Sunderland, Tyne & Wear, SR6 7NG Correspondence Address: -	Type of Site: Inert LF Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OBR001 EPR reference: EA/EPR/GB3206CB/T001 Operator: O' Brien Aggregate Marsden Limited Waste Management licence No: 64063 Annual Tonnage: 45000	Issue Date: 31/05/2005 Effective Date: 08/02/2019 Modified: 09/05/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
B	On site	Site Name: Marsden Quarry Landfill Site Site Address: Marsden Quarry, Whitburn, Sunderland, Tyne & Wear, SR6 7NG Correspondence Address: -	Type of Site: Inert LF Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OWE005 EPR reference: EA/EPR/PP3194ZV/V004 Operator: Owen Pugh & Co Ltd Waste Management licence No: 64063 Annual Tonnage: 45000	Issue Date: 31/05/2005 Effective Date: - Modified: 09/05/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	On site	Site Name: Marsden Quarry Landfill Site Site Address: Marsden Quarry, Whitburn, Sunderland, Tyne & Wear, SR6 7NG Correspondence Address: -	Type of Site: Inert LF Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 650370 EPR reference: EA/EPR/GB3206CB Operator: O' Brien Aggregate Marsden Limited Waste Management licence No: 64063 Annual Tonnage: 45000	Issue Date: 31/05/2005 Effective Date: 31/05/2005 Modified: 31/05/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	88m N	Site Name: Part Of Marsden Quarry Landfill Site Address: Whitburn, Tyne & Wear Correspondence Address: Conyngham Hall, Knaresborough, North Yorkshire, HG5 9AY	Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TIL003 EPR reference: - Operator: Tilcon Ltd Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 13/01/1982 Effective Date: - Modified: - Surrendered Date: 31/03/1994 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
C	88m N	Site Name: Part Of Marsden Quarry Landfill Site Address: Whitburn, Tyne & Wea Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TIL003 EPR reference: EA/EPR/BP3294EG/S002 Operator: Tilcon Ltd Waste Management licence No: 64486 Annual Tonnage: 150000	Issue Date: 13/01/1982 Effective Date: - Modified: - Surrendered Date: Mar 31 1994 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	88m N	Site Name: Mineral Railway Line Site Address: Coast Road, South Shields, Tyne & Wea Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SOU001 EPR reference: EA/EPR/JP3898EF/S002 Operator: South Tyneside Metropolitan Borough Council Waste Management licence No: 64454 Annual Tonnage: 150000	Issue Date: 04/01/1979 Effective Date: - Modified: - Surrendered Date: Mar 31 1994 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	88m N	Site Name: Mineral Railway Line Site Address: Coast Road, South Shields, Tyne & Wear Correspondence Address: Town Hall, South Shields, Tyne & Wear, NE33 2RL	Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SOU001 EPR reference: - Operator: South Tyneside Metropolitan Borough Council Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 04/01/1979 Effective Date: - Modified: - Surrendered Date: 31/03/1994 Expiry Date: - Cancelled Date: - Status: Surrendered
C	88m N	Site Name: Mineral Railway Line Site Address: Coast Road, South Shields, Tyne & Wear Correspondence Address: Town Hall, South Shields, Tyne & Wear, NE33 2RL	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: SOU001 EPR reference: - Operator: South Tyneside Metropolitan Borough Council Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 04/01/1979 Effective Date: - Modified: - Surrendered Date: 31/03/1994 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
C	88m N	Site Name: Part Of Marsden Quarry Landfill Site Address: Whitburn, Tyne & Wear Correspondence Address: Conyngham Hall, Knaresborough, North Yorkshire, HG5 9AY	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: TIL003 EPR reference: - Operator: Tilcon Ltd Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 13/01/1982 Effective Date: - Modified: - Surrendered Date: 31/03/1994 Expiry Date: - Cancelled Date: - Status: Surrendered
C	88m N	Site Name: Part Of Marsden Quarry Landfill Site Address: Whitburn, Tyne & Wear, NE34 7AF Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 653163 EPR reference: EA/EPR/BP3294EG Operator: Tilcon Limited Waste Management licence No: 64486 Annual Tonnage: 150000	Issue Date: 13/01/1982 Effective Date: 13/01/1982 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered
C	88m N	Site Name: Mineral Railway Line Site Address: Coast Road, South Shields, Tyne & Wear, NE34 7BS Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 634427 EPR reference: EA/EPR/JP3898EF Operator: South Tyneside Metropolitan Borough Council Waste Management licence No: 64454 Annual Tonnage: 150000	Issue Date: 04/01/1979 Effective Date: 04/01/1979 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

69

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 31](#) >



ID	Location	Site	Reference	Category	Sub-Category	Description
D	131m E	Land At Grid Reference: Nz 40772 64162	EPR/TE5684RB /A001	Treating waste exemption	Non-agricultural waste only	Aerobic composting and associated prior treatment
D	131m E	Land At Grid Reference: Nz 40772 64162	EPR/TE5684RB /A001	Using waste exemption	Non-agricultural waste only	Spreading waste on non-agricultural land to confer benefit
D	131m E	Land At Grid Reference: Nz 40772 64162	EPR/TE5684RB /A001	Using waste exemption	Non-agricultural waste only	Incorporation of ash into soil
D	131m E	Land At Grid Reference: Nz 40772 64162	EPR/TE5684RB /A001	Disposing of waste exemption	Non-agricultural waste only	Burning waste in the open
D	131m E	Land At Grid Reference: Nz 40772 64162	EPR/TE5684RB /A001	Using waste exemption	Non-agricultural waste only	Use of mulch
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Disposing of waste exemption	Not on a farm	Burning waste in the open
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Treating waste exemption	Not on a farm	Manual treatment of waste
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Using waste exemption	Not on a farm	Incorporation of ash into soil
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Using waste exemption	Not on a farm	Use of mulch
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Using waste exemption	Not on a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
D	132m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX381022	Using waste exemption	Not on a farm	Use of waste in construction
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Disposing of waste exemption	Not on a farm	Burning waste in the open
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Treating waste exemption	Not on a farm	Manual treatment of waste
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Using waste exemption	Not on a farm	Use of mulch
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Using waste exemption	Not on a farm	Use of waste in construction
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Using waste exemption	Not on a farm	Use of waste for a specified purpose
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Using waste exemption	Not on a farm	Incorporation of ash into soil
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Using waste exemption	Not on a farm	Use of waste in construction
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Using waste exemption	Not on a farm	Incorporation of ash into soil
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX108328	Using waste exemption	Not on a farm	Use of waste for a specified purpose
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX081639	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX081639	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Using waste exemption	Not on a farm	Use of mulch
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Treating waste exemption	Not on a farm	Manual treatment of waste
D	137m E	Souter Lighthouse, Coast Road, Sunderland, Sr6 7nh	WEX251029	Disposing of waste exemption	Not on a farm	Burning waste in the open
E	394m SW	-	WEX254389	Using waste exemption	On a farm	Use of waste for a specified purpose
E	394m SW	-	WEX254389	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from a portable sanitary convenience
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Storing waste exemption	Agricultural waste only	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Storing waste exemption	Agricultura l waste only	Storage of waste in a secure place
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Cleaning, washing, spraying or coating relevant waste
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Aerobic composting and associated prior treatment
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Preparatory treatments (baling, sorting, shredding etc)
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Mechanical treatment of end-of- life tyres
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Use of waste in construction
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Spreading waste on non- agricultural land to confer benefit
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Spreading of plant matter to confer benefit
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Incorporation of ash into soil
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Use of baled end-of-life tyres in construction
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Use of waste derived biodiesel as fuel
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Use of waste for a specified purpose

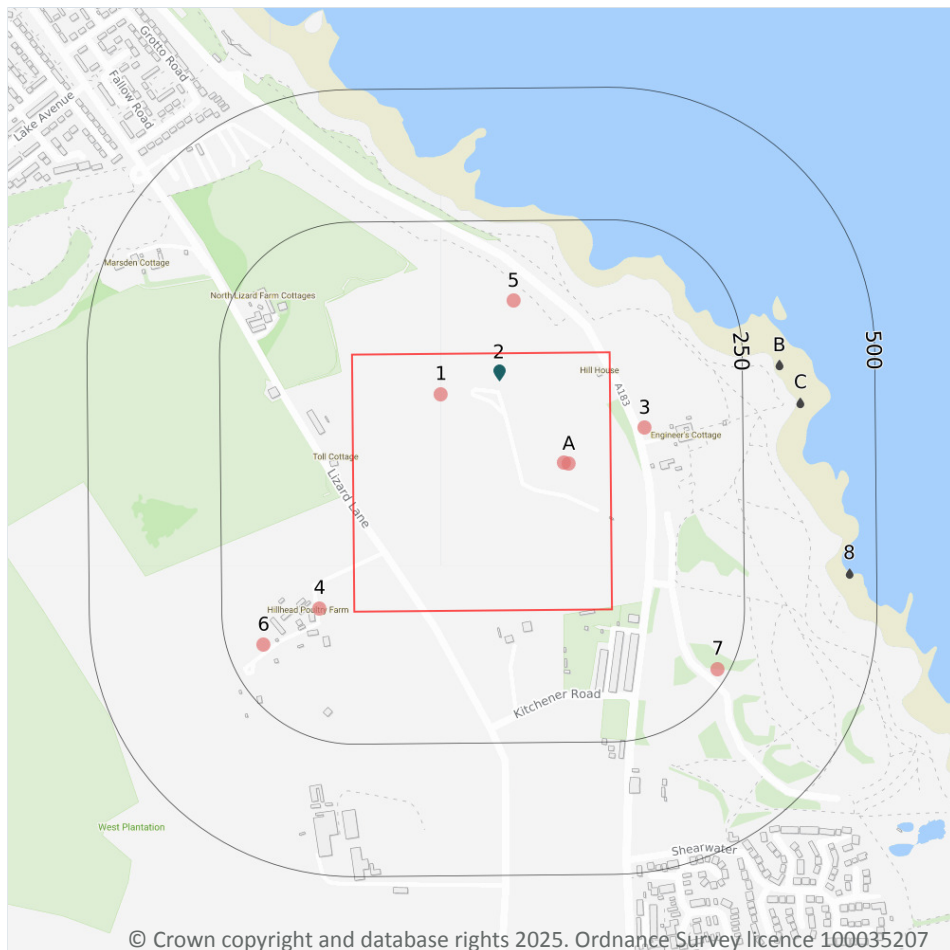


ID	Location	Site	Reference	Category	Sub-Category	Description
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Disposing of waste exemption	Agricultura l waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Disposing of waste exemption	Agricultura l waste only	Burning waste in the open
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Sorting mixed waste
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Crushing and emptying waste vehicle oil filters
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Treatment of waste aerosol cans
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Screening and blending of waste
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Treating waste exemption	Agricultura l waste only	Recovery of scrap metal
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Spreading waste on agricultural land to confer benefit
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Use of mulch
E	402m SW	Lizards Farm Lizard Lane Sunderland Sr6 7nw	EPR/KF0634C W/A001	Using waste exemption	Agricultura l waste only	Use of waste to manufacture finished goods

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m

8

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 43](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Marsden Quarries (Limestone)	Tyne & Wear, NE34	Stone Quarrying and Preparation	Extractive Industries
A	On site	Gantry	Tyne & Wear, SR6	Travelling Cranes and Gantries	Industrial Features



ID	Location	Company	Address	Activity	Category
A	On site	Gantry	Tyne & Wear, SR6	Travelling Cranes and Gantries	Industrial Features
3	65m E	Electricity Sub Station	Tyne & Wear, SR6	Electrical Features	Infrastructure and Facilities
4	65m SW	Poultry Farm	Tyne & Wear, SR6	Poultry Farming, Equipment and Supplies	Farming
5	99m N	Limekilns	Tyne & Wear, NE34	Lime Kilns	Industrial Features
6	182m SW	Mast	Tyne & Wear, SR6	Telecommunications Features	Infrastructure and Facilities
7	229m SE	Sewage Pumping Station	Tyne & Wear, SR6	Waste Storage, Processing and Disposal	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

1

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 43 >](#)

ID	Location	Address	Details	
2	On site	O'Brien Aggregate Marsden Ltd, Marsden Quarry, Coast Road, Whitburn, SR6 7NG	Process: Quarry Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

5

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 43 >](#)



ID	Location	Address	Details	
B	320m E	MARSDENVILLAGEOUTFALL,SOUTHSHIELDS,TYNEANDWEAR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 235/1210 Permit Version: 1 Receiving Water: NORTH SEA	Status: REVOKED - UNSPECIFIED Issue date: 25/02/1993 Effective Date: 25/02/1993 Revocation Date: 28/07/2000
B	320m E	MARSDENVILLAGEOUTFALL,SOUTHSHIELDS,TYNEANDWEAR	Effluent Type: UNSPECIFIED Permit Number: 235/X/0073 Permit Version: 1 Receiving Water: NORTH SEA	Status: REVOKED - UNSPECIFIED Issue date: 14/05/1987 Effective Date: 14/05/1987 Revocation Date: 25/02/1993
C	359m E	SOUTERLIGHTHOUSE,MARSDEN,SOUTHSHIELDS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 235/1038 Permit Version: 1 Receiving Water: NORTH SEA	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/11/1990 Effective Date: 07/11/1990 Revocation Date: 06/08/2003
C	359m E	SOUTERLIGHTHOUSE,MARSDEN,SOUTHSHIELDS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 235/1867 Permit Version: 1 Receiving Water: NORTH SEA	Status: CONSENTS WITHOUT APPLICATION (WRA 91, SCHED 10) Issue date: 06/08/2003 Effective Date: 06/08/2003 Revocation Date: -
8	448m E	FORMERWHITBURNCOLLIERY,WHITBURNCOASTALPARK,MILLAN E,WHITBURN,SUNDERLAND,SR67 NF	Effluent Type: MINEWATER Permit Number: EPREP3622XS Permit Version: 1 Receiving Water: NORTH SEA	Status: NEW ISSUED UNDER EPR 2010 Issue date: 26/11/2010 Effective Date: 01/12/2010 Revocation Date: 30/03/2015

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m**0**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m**0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

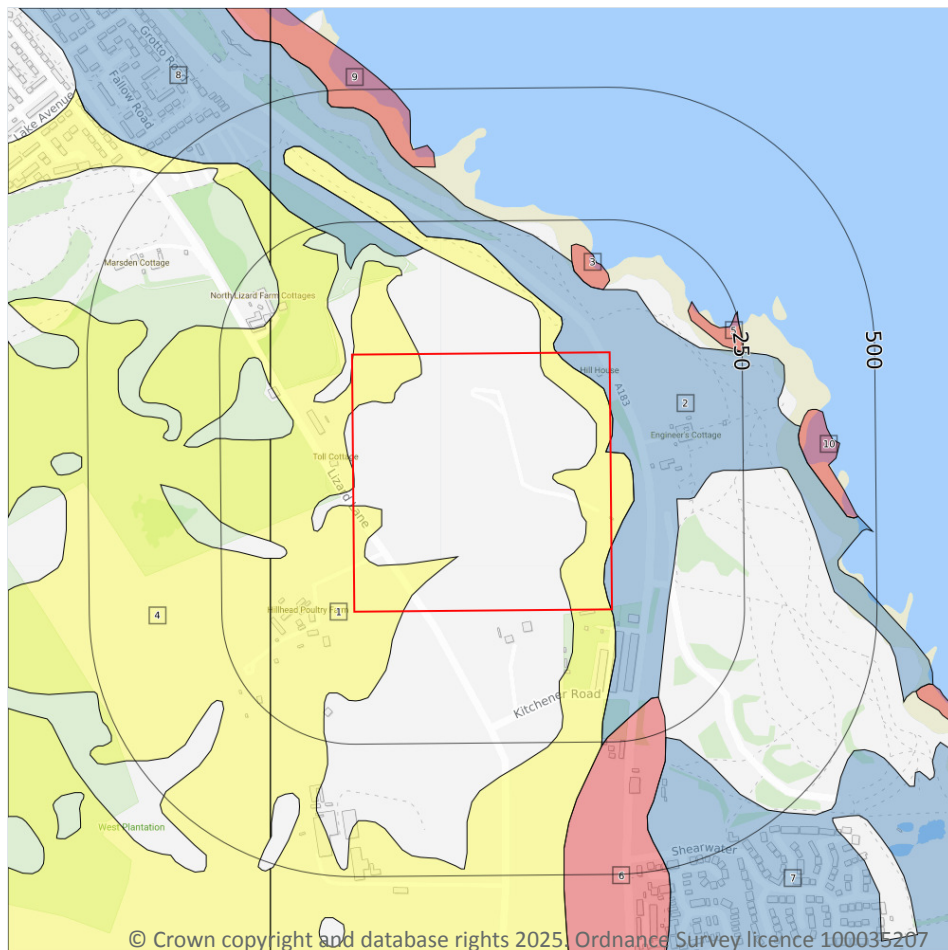
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

10

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 50 >](#)

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

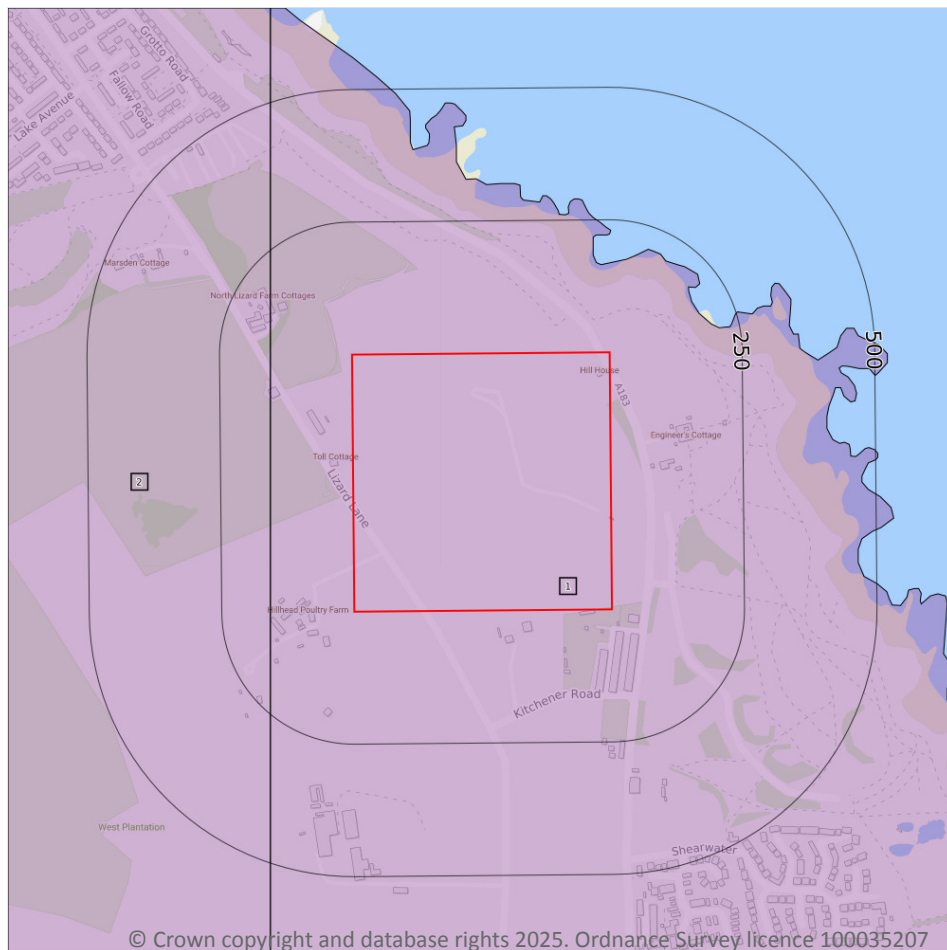


ID	Location	Designation	Description
3	118m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	154m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	165m NE	Secondary A	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
6	184m SE	Secondary A	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
7	262m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	344m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	352m N	Secondary A	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
10	355m E	Secondary A	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 52](#) >

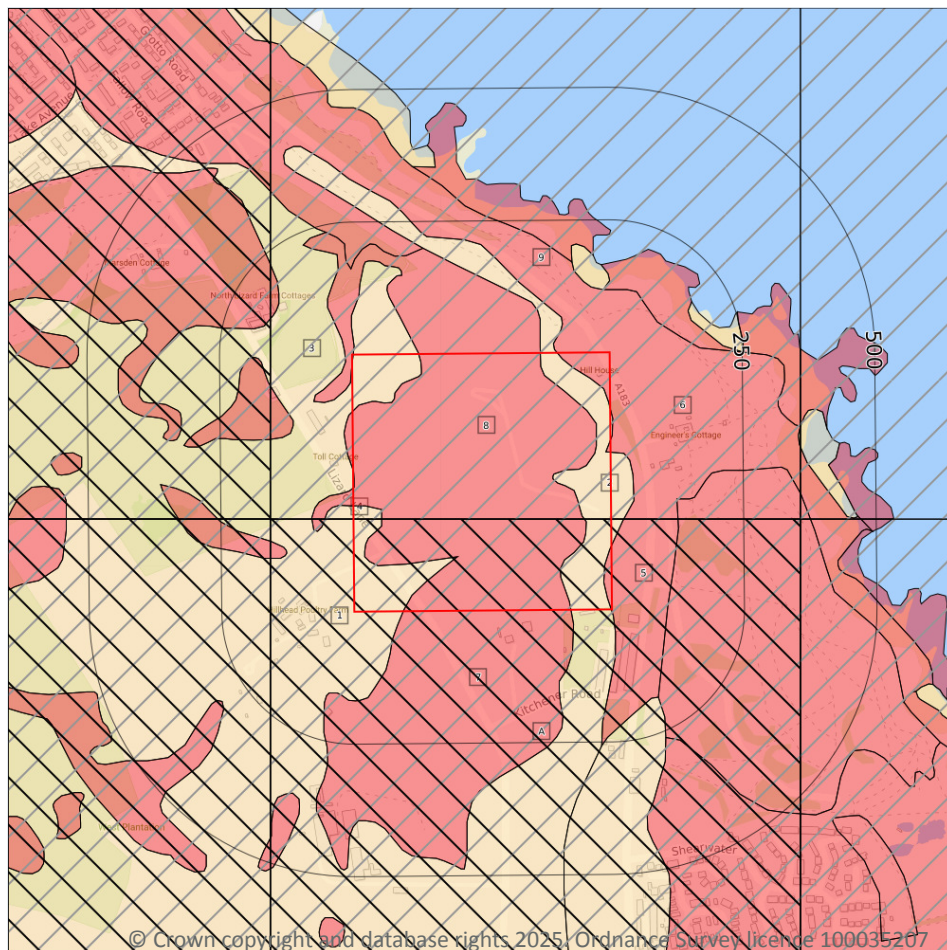
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	154m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

8

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid.

Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 54](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
6	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
8	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	2
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
9	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	62.0%
A	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	100.0%

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	1
------------------------	----------

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

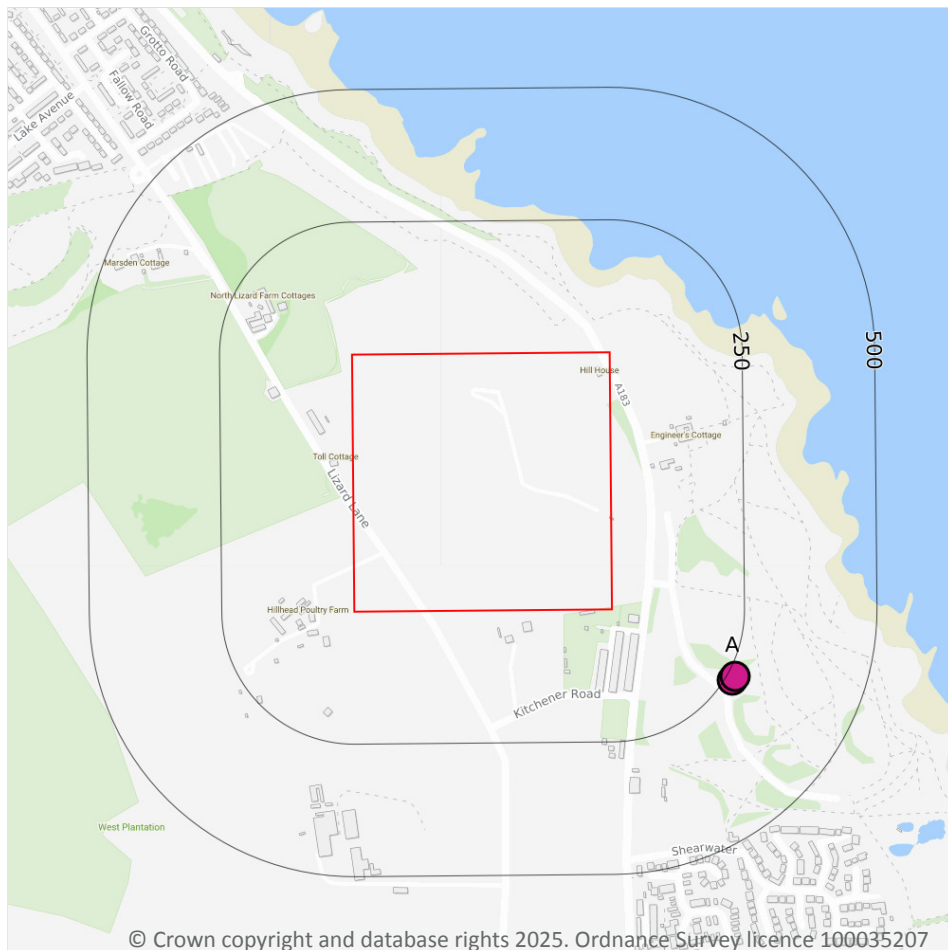
ID	Summary	Additional information
A	Limited protection of aquifers by superficial deposits	Local studies show that thin superficial deposits offer limited protection to the aquifers beneath



This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

4

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 58 >](#)



ID	Location	Details	
A	263m SE	Status: Historical Licence No: NE/023/0003/006 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - WHITBURN COASTAL PARK Data Type: Point Name: THE COAL AUTHORITY Easting: 440871 Northing: 563696	Annual Volume (m ³): 946080 Max Daily Volume (m ³): 2592 Original Application No: NPS/WR/004837 Original Start Date: 24/07/2014 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 24/07/2014 Version End Date: -
A	264m SE	Status: Active Licence No: NE/023/0003/006 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE AT WHITBURN COASTAL PARK Data Type: Point Name: The Coal Authority Easting: 440876 Northing: 563704	Annual Volume (m ³): 946080 Max Daily Volume (m ³): 2592 Original Application No: NPS/WR/036446 Original Start Date: 24/07/2014 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 25/07/2022 Version End Date: -
-	1459m W	Status: Historical Licence No: 1/23/05/001 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: CLEADON (MAGNESIAN LIMESTONE) Data Type: Point Name: NORTHUMBRIAN WATER Easting: 438720 Northing: 563580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/04/1968 Version End Date: -
-	1459m W	Status: Historical Licence No: 1/23/05/001 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - CLEADON Data Type: Point Name: NORTHUMBRIAN WATER Easting: 438720 Northing: 563580	Annual Volume (m ³): 1241058 Max Daily Volume (m ³): 5773.55 Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/04/1968 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.7 Surface water abstractions

Records within 2000m

0

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

2

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 58 >](#)

ID	Location	Details	
-	1459m W	Status: Historical Licence No: 1/23/05/001 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: CLEADON (MAGNESIAN LIMESTONE) Data Type: Point Name: NORTHUMBRIAN WATER Easting: 438720 Northing: 563580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/04/1968 Version End Date: -
-	1459m W	Status: Historical Licence No: 1/23/05/001 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - CLEADON Data Type: Point Name: NORTHUMBRIAN WATER Easting: 438720 Northing: 563580	Annual Volume (m ³): 1241058 Max Daily Volume (m ³): 5773.55 Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/04/1968 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

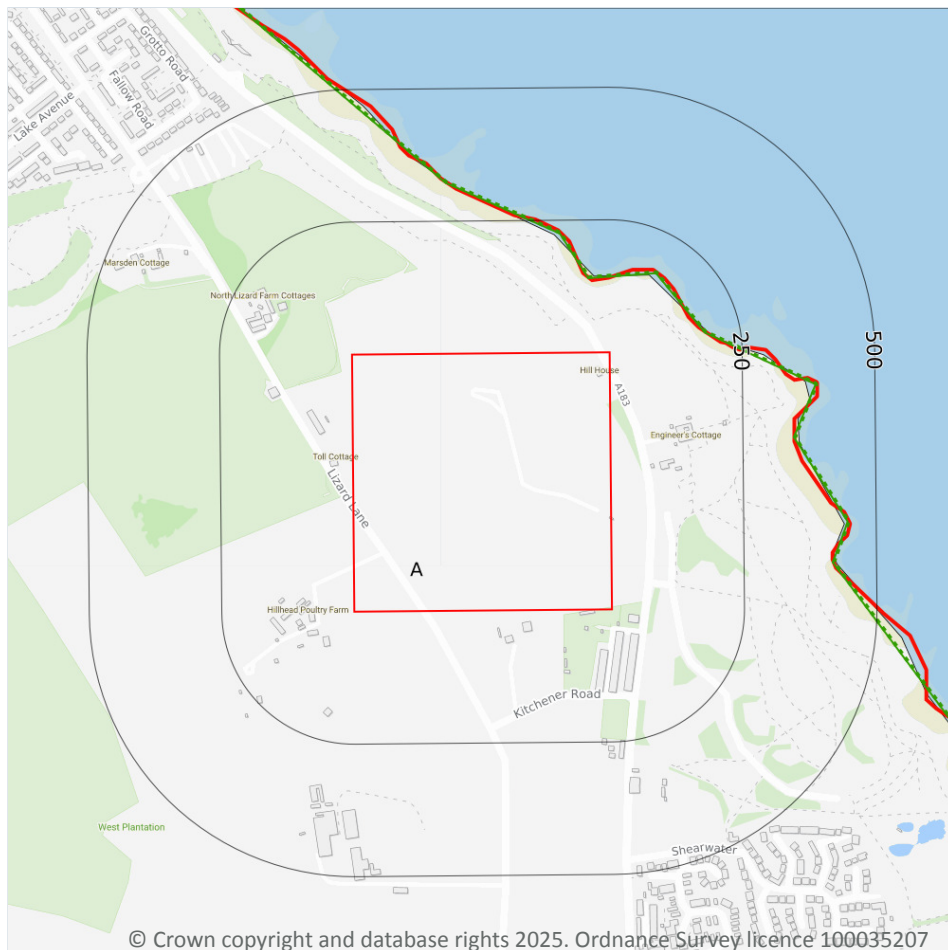
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 62](#) >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	364	Tyne Lower and Estuary	Tyne

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 62](#) >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	144m NE	Coastal	Tyne and Wear	GB650301500002 ↗	Moderate	Fail	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 62 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Wear Magnesian Limestone	GB40301G703900 ↗	Poor	Poor	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

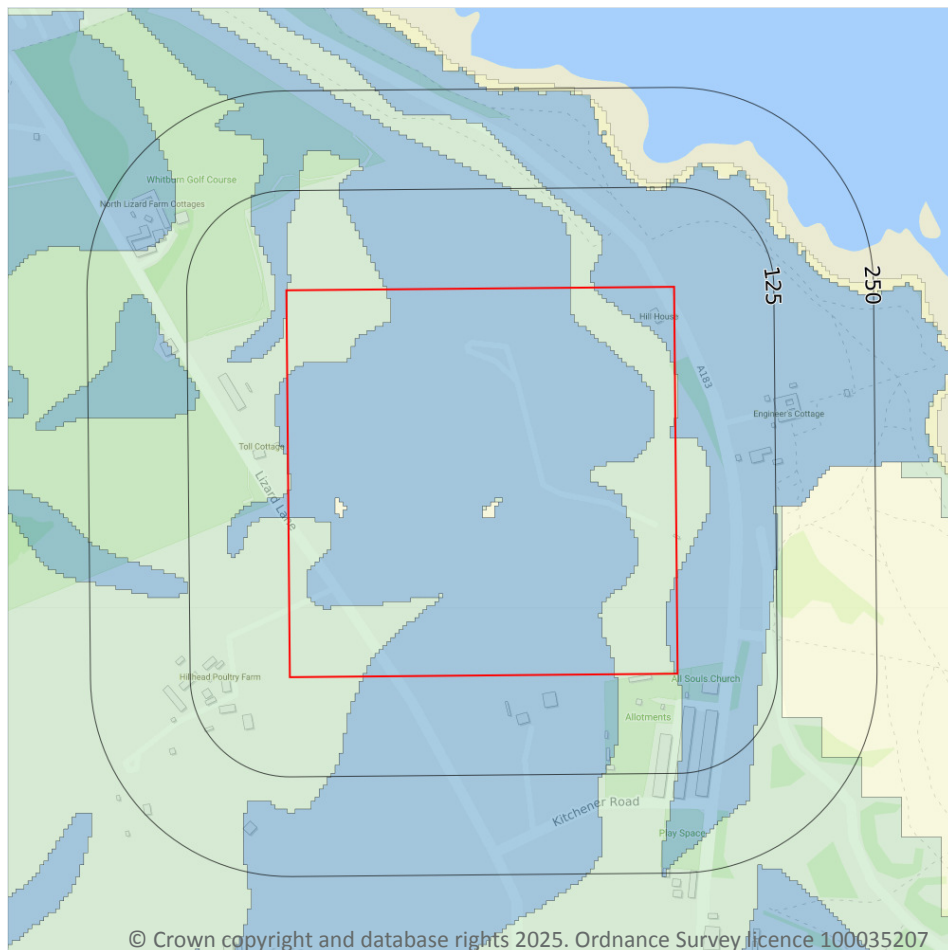
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

Moderate

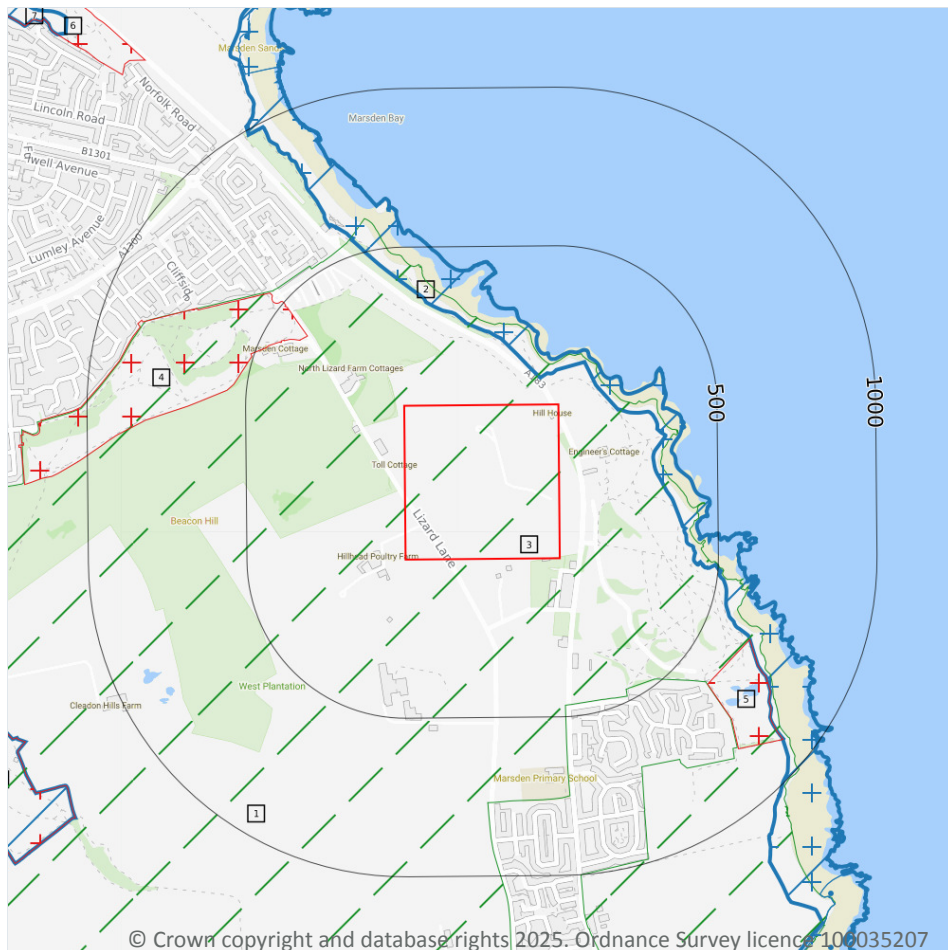
Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 69](#) >

This data is sourced from Ambiantal Risk Analytics.



10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- ▢ Sites of Special Scientific Interest (SSSI)
- ⊗ Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)
- ▨ Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

5

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on [page 70](#) >

ID	Location	Name	Data source
2	85m NE	Durham Coast SSSI	Natural England



ID	Location	Name	Data source
B	1286m SW	Cleadon Hill SSSI	Natural England
7	1586m NW	Harton Down Hill SSSI	Natural England
-	1599m SE	Durham Coast SSSI	Natural England
-	1689m SE	Durham Coast SSSI	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	2
-----------------------------	----------

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

Features are displayed on the Environmental designations map on [page 70 >](#)

ID	Location	Site	Details
A	1138m NW	Name: Northumbria Coast Site status: Listed Data source: Natural England	Overview: The Northumbria Coast Ramsar site comprises several discrete sections of rocky foreshore between Spittal, in the north of Northumberland, and an area just south of Blackhall Rocks in County Durham. These stretches of coast regularly support nationally important numbers of purple sandpiper and high concentrations of turnstone. The Ramsar site also includes an area of sandy beach at Low Newton, which supports an nationally important breeding colony of little tern, and parts of three artificial pier structures which form important roost sites for purple sandpiper. Ramsar criteria: Ramsar criterion 6 The site supports internationally important wintering populations of ruddy turnstone <i>Arenaria interpres</i> and purple sandpiper <i>Calidris maritima</i> .



ID	Location	Site	Details
C	1330m SE	Name: Northumbria Coast Site status: Listed Data source: Natural England	Overview: The Northumbria Coast Ramsar site comprises several discrete sections of rocky foreshore between Spittal, in the north of Northumberland, and an area just south of Blackhall Rocks in County Durham. These stretches of coast regularly support nationally important numbers of purple sandpiper and high concentrations of turnstone. The Ramsar site also includes an area of sandy beach at Low Newton, which supports an nationally important breeding colony of little tern, and parts of three artificial pier structures which form important roost sites for purple sandpiper. Ramsar criteria: Ramsar criterion 6 The site supports internationally important wintering populations of ruddy turnstone <i>Arenaria interpres</i> and purple sandpiper <i>Calidris maritima</i>.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	1
-----------------------------	----------

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on [page 70 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
3	85m NE	Durham Coast	Vegetated sea cliffs; Dune grassland	Coastal sand dunes, Sand beaches, Machair; Marine areas, Sea inlets; Shingle, Sea cliffs, Islets; Humid grassland, Mesophile grassland	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	2
-----------------------------	----------

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on [page 70 >](#)



ID	Location	Name	Species of interest	Habitat description	Data source
A	1138m NW	Northumbria Coast	Purple sandpiper; Ruddy turnstone; Arctic tern; Little tern	Marine areas, Sea inlets; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair	Natural England
C	1330m SE	Northumbria Coast	Purple sandpiper; Ruddy turnstone; Arctic tern; Little tern	Marine areas, Sea inlets; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0
-----------------------------	----------

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	4
-----------------------------	----------

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 70 >](#)

ID	Location	Name	Data source
4	376m NW	Marsden Old Quarry	Natural England
5	612m SE	Whitburn Point	Natural England
B	1286m SW	Cleadon Hills	Natural England
6	1362m NW	Harton Down Hill	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

1

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on [page 70 >](#)



ID	Location	Name	Local Authority name
1	On site	Tyne and Wear Green Belt	South Tyneside

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0
-----------------------------	----------

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0
-----------------------------	----------

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0
-----------------------------	----------

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0
-----------------------------	----------

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their

full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

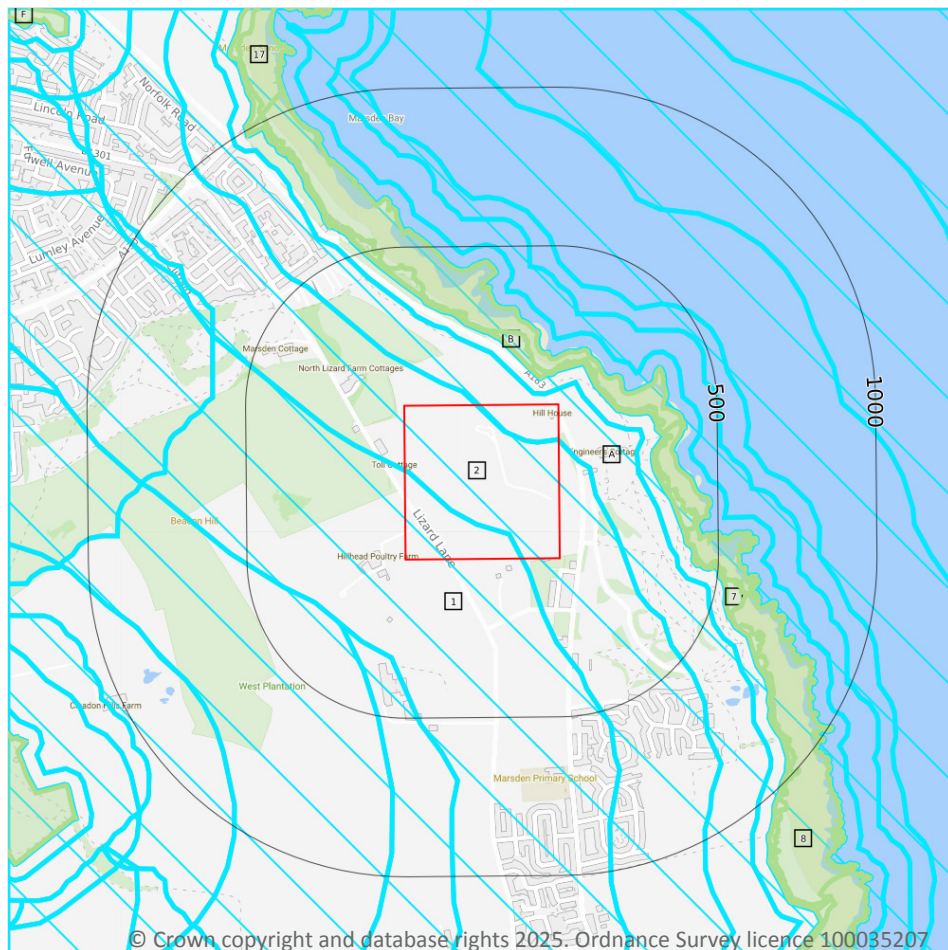
0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

3

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 77](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 2m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply . Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.



ID	Location	Type of developments requiring consultation
2	On site	All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply . Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.



ID	Location	Type of developments requiring consultation
A	On site	All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 10 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply . Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	10
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on [page 77](#) >



ID: B
 Location: 85m NE
 SSSI name: Durham Coast
 Unit name: Velvet Beds-Lizard Point: Cliff
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Cormorant, <i>Phalacrocorax carbo sinensis</i>	Favourable	01/08/2013
Aggregations of breeding birds - Fulmar, <i>Fulmarus glacialis</i>	Favourable	01/08/2013
Aggregations of breeding birds - Kittiwake, <i>Rissa tridactyla</i>	Favourable	01/08/2013
EC - Marine Permian	Favourable	01/08/2013
H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts	Favourable	01/08/2013
IA - Coastal Geomorphology	Favourable	01/08/2013
Lowland calcareous grassland (CG2)	Favourable	01/08/2013
Lowland neutral grassland (MG5)	Favourable	01/08/2013

ID: B
 Location: 102m NE
 SSSI name: Durham Coast
 Unit name: Velvet Beds-Lizards Point: Rocky Shore
 Broad habitat: Littoral Rock
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Sanderling, <i>Calidris alba</i>	Favourable	29/11/2010
EC - Marine Permian	Favourable	01/08/2014
IA - Coastal Geomorphology	Favourable	01/08/2014

ID: 7
 Location: 297m E
 SSSI name: Durham Coast
 Unit name: Lizard Point-Souter Point: Cliff
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable



Reportable features:

Feature name	Feature condition	Date of assessment
EC - Marine Permian	Favourable	06/08/2013
H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts	Favourable	06/08/2013
Lowland calcareous grassland (CG2)	Favourable	06/08/2013
Lowland neutral grassland (MG5)	Favourable	06/08/2013

ID: 8
 Location: 306m E
 SSSI name: Durham Coast
 Unit name: Lizard Point-Souter Point: Rocky Shore
 Broad habitat: Littoral Rock
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Purple sandpiper, Calidris maritima	Favourable	29/11/2010
Aggregations of non-breeding birds - Sanderling, Calidris alba	Favourable	29/11/2010
EC - Marine Permian	Favourable	01/08/2014

ID: 15
 Location: 998m NW
 SSSI name: Durham Coast
 Unit name: Trow Point-Velvet Beds: Cliff
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
EC - Marine Permian	Favourable	31/07/2013
H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts	Favourable	31/07/2013
IA - Coastal Geomorphology	Favourable	31/07/2013
Lowland calcareous grassland (CG2)	Favourable	31/07/2013
Lowland neutral grassland (MG5)	Favourable	31/07/2013



ID: 17
 Location: 1020m NW
 SSSI name: Durham Coast
 Unit name: Trow Point-Velvet Beds: Rocky Shore
 Broad habitat: Littoral Rock
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Purple sandpiper, <i>Calidris maritima</i>	Favourable	29/11/2010
Aggregations of non-breeding birds - Sanderling, <i>Calidris alba</i>	Favourable	29/11/2010
EC - Marine Permian	Favourable	01/08/2014
IA - Coastal Geomorphology	Favourable	01/08/2014

ID: 26
 Location: 1286m SW
 SSSI name: Cleadon Hill
 Unit name: 1
 Broad habitat: Calcareous Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG3-5)	Favourable	10/10/2006
Lowland calcareous grassland (CG8)	Favourable	06/10/2006

ID: 29
 Location: 1330m SE
 SSSI name: Durham Coast
 Unit name: Souter Point-Whitburn Steel: Rocky Shore
 Broad habitat: Littoral Rock
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Purple sandpiper, <i>Calidris maritima</i>	Favourable	29/11/2010
Aggregations of non-breeding birds - Sanderling, <i>Calidris alba</i>	Favourable	29/11/2010
EC - Marine Permian	Favourable	01/08/2014



ID: 31
 Location: 1372m SE
 SSSI name: Durham Coast
 Unit name: Souter Point-Whitburn Steel: Cliff
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
EC - Marine Permian	Favourable	07/08/2013
H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts	Favourable	07/08/2013
Lowland calcareous grassland (CG2)	Favourable	07/08/2013
Lowland neutral grassland (MG5)	Favourable	07/08/2013
Sand dune; strandline, embryo and mobile dunes (SD1-6)	Favourable	07/08/2013

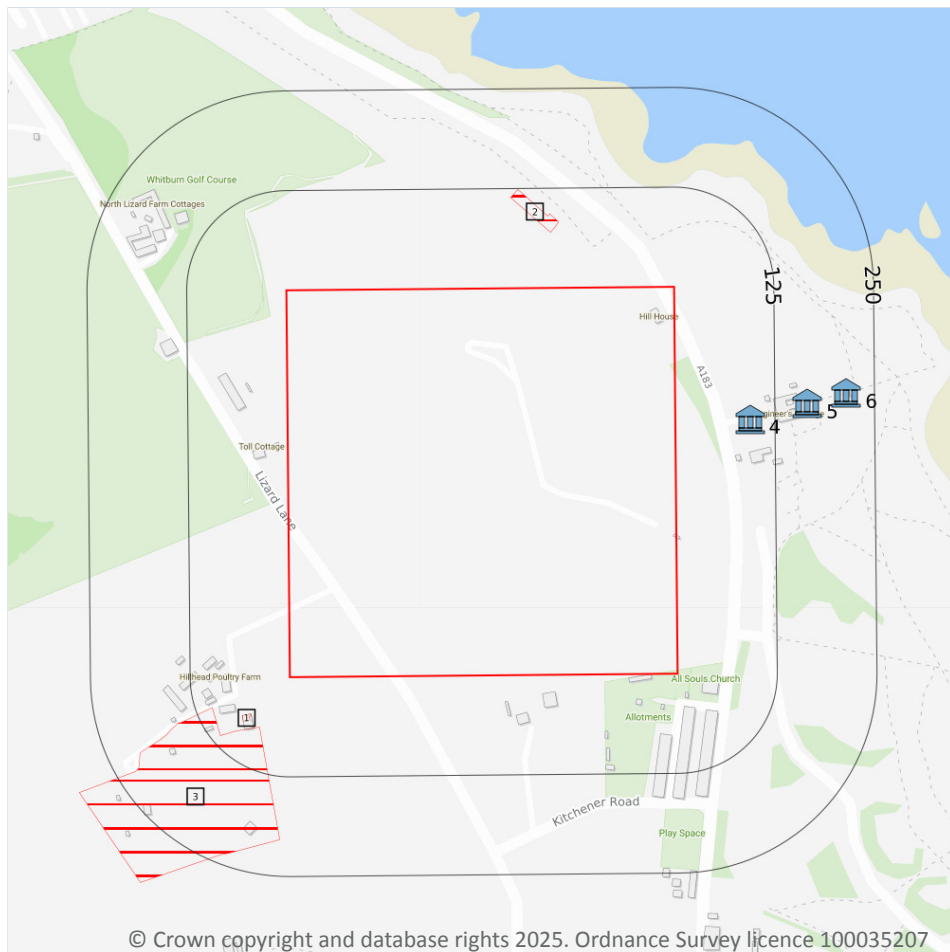
ID: F
 Location: 1586m NW
 SSSI name: Harton Down Hill
 Unit name: Harton Down Hill
 Broad habitat: Calcareous Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG2)	Favourable	10/10/2006
Lowland calcareous grassland (CG8)	Favourable	06/10/2006

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

3

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on [page 85 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
4	93m E	Walls Extending From Mill Lane Around The Lighthouse And Linked Buildings	II	1185616	26/02/1985
5	166m E	Souter Point Lighthouse And Attached Buildings	II*	1185593	26/02/1985
6	215m E	Souter Point Lighthouse Foghorn To East Of Lighthouse And Steps And Walls To East Of Lighthouse	II	1355068	26/02/1985

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

3

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

Features are displayed on the Visual and cultural designations map on [page 85 >](#)

ID	Location	Ancient monument name	Reference number
1	67m SW	Lizard Lane Heavy Anti-Aircraft Battery	1419998
2	70m N	Marsden lime kilns	1005911
3	73m SW	Lizard Lane Heavy Anti-Aircraft Battery	1419998

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

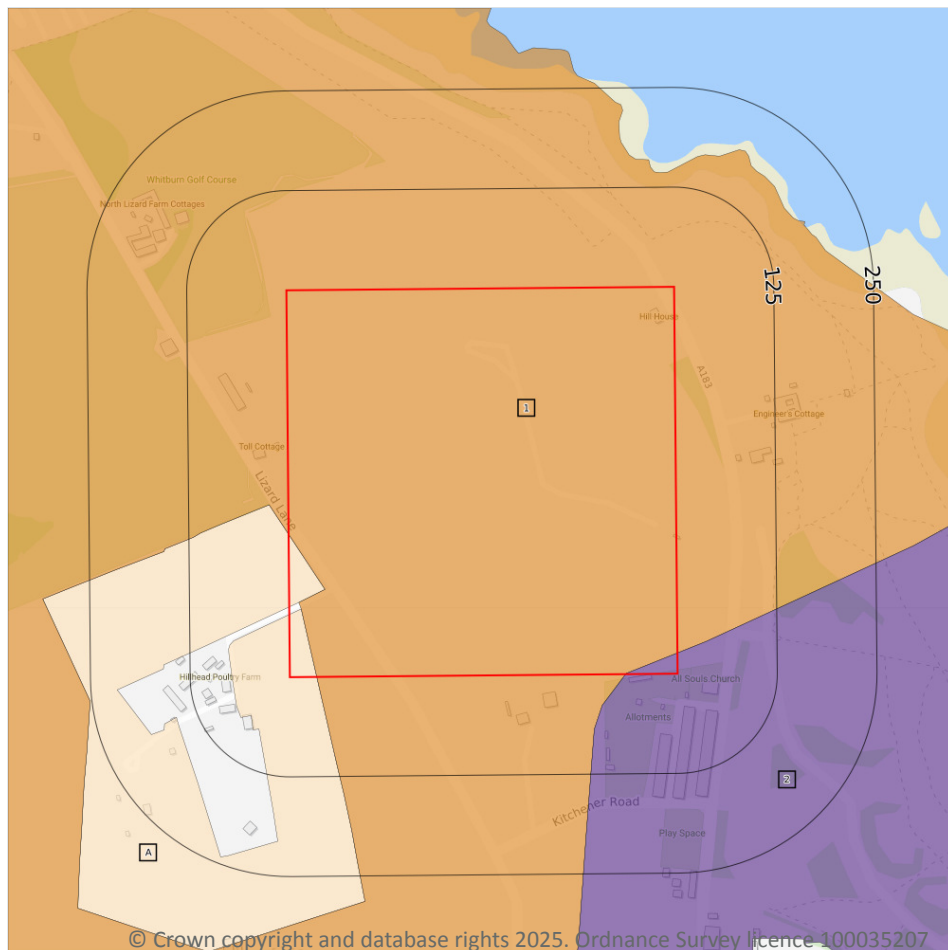
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

3

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 88](#) >

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
2	On site	Urban	Non-agricultural/no quality assigned



ID	Location	Classification	Description
A	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

7

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
79m SE	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018
80m E	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018
108m E	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018
116m E	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018
117m E	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018



Location	Reference	Scheme	Start Date	End date
149m E	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018
235m E	AG00431040	Entry Level Stewardship	01/05/2013	30/04/2018

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

2

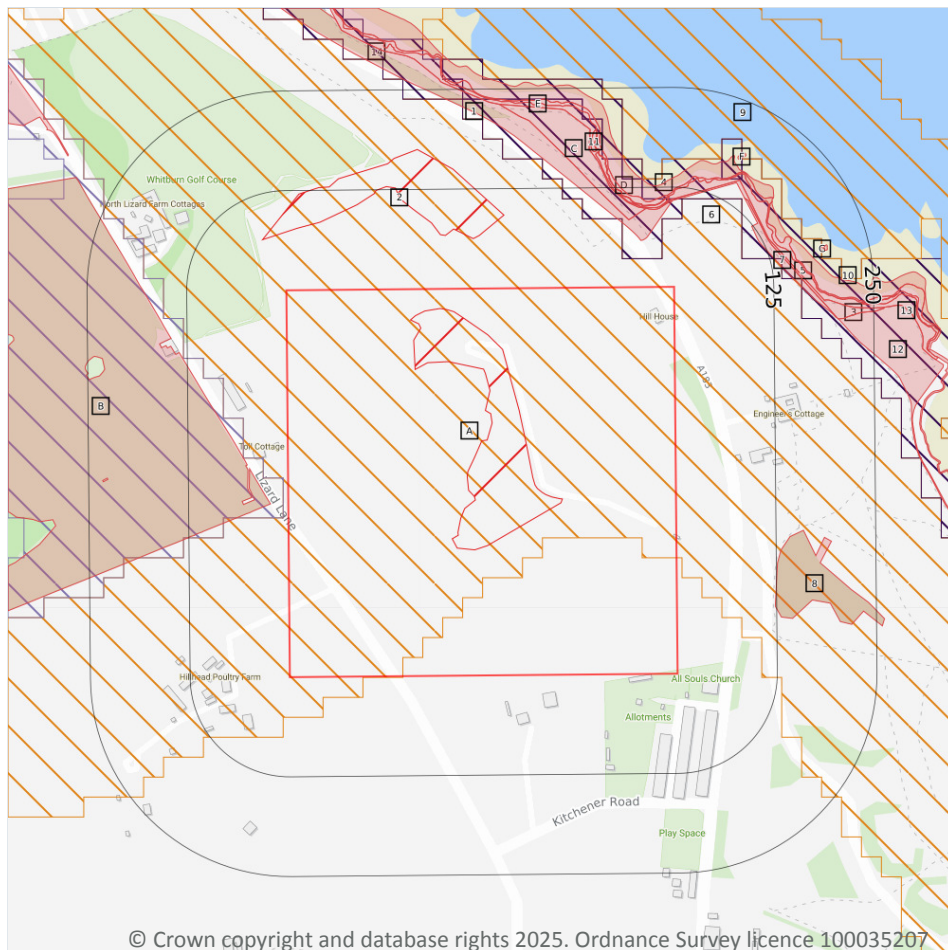
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	1647643	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
On site	1271446	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

17

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 91](#) >

ID	Location	Main Habitat	Other habitats
B	22m W	No main habitat but additional habitats present	Additional: LCGRA (FEP 50%); GQSIG (FEP 50%)
1	59m NE	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
C	85m NE	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%, ENSIS L1); LMEAD (ENSIS L1); Additional: MCSLP (ENSIS L2)



ID	Location	Main Habitat	Other habitats
4	97m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%, ENSIS L1); MCSLP (INV > 50%); LMEAD (ENSIS L1)
D	99m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%, ENSIS L1); MCSLP (INV > 50%); LMEAD (ENSIS L1)
5	102m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%); MCSLP (INV > 50%)
6	102m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%); MCSLP (INV > 50%)
E	107m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%); MCSLP (INV > 50%)
7	121m NE	Maritime cliff and slope	Main habitat: MCSLP (INV > 50%)
8	123m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	142m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%); MCSLP (INV > 50%)
11	170m N	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%, ENSIS L1); MCSLP (INV > 50%); LMEAD (ENSIS L1)
F	179m NE	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
G	191m NE	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
G	194m NE	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
12	205m NE	Maritime cliff and slope	Main habitat: MCSLP (INV > 50%)
13	235m NE	Maritime cliff and slope	Main habitat: LCGRA (INV > 50%, ENSIS L1); MCSLP (INV > 50%); LMEAD (ENSIS L1)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

9

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on [page 91 >](#)

ID	Location	Type	Habitat
A	On site	Network Enhancement Zone 1	Not specified
B	6m W	Restorable Habitat	Not specified
C	35m NE	Primary Habitat	Lowland calcareous grassland



ID	Location	Type	Habitat
3	92m NE	Primary Habitat	Maritime cliff and slope
9	135m NE	Network Enhancement Zone 1	Not specified
D	136m NE	Primary Habitat	Maritime cliff and slope
F	148m NE	Primary Habitat	Lowland calcareous grassland
E	161m NE	Primary Habitat	Maritime cliff and slope
14	238m N	Primary Habitat	Lowland calcareous grassland

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	2
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Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on [page 91 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
A	On site	BRITPITS ref: 99001	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-
2	63m N	BRITPITS ref: 99001	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0
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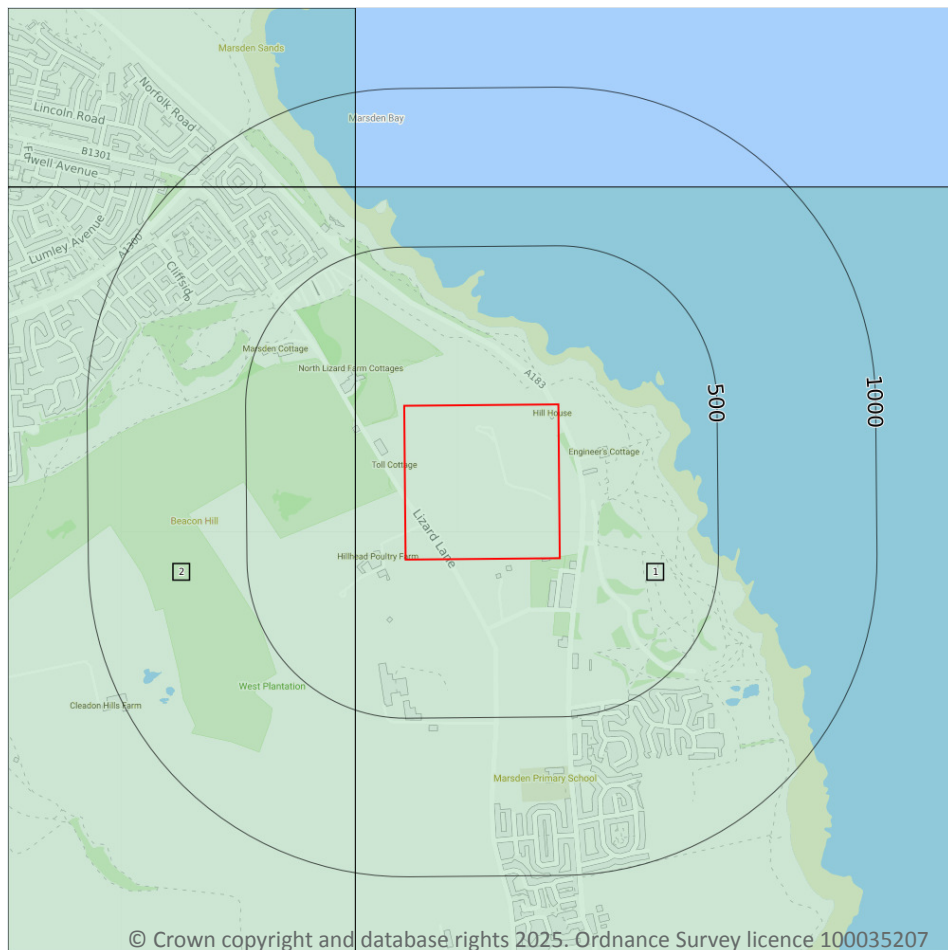
Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.



This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

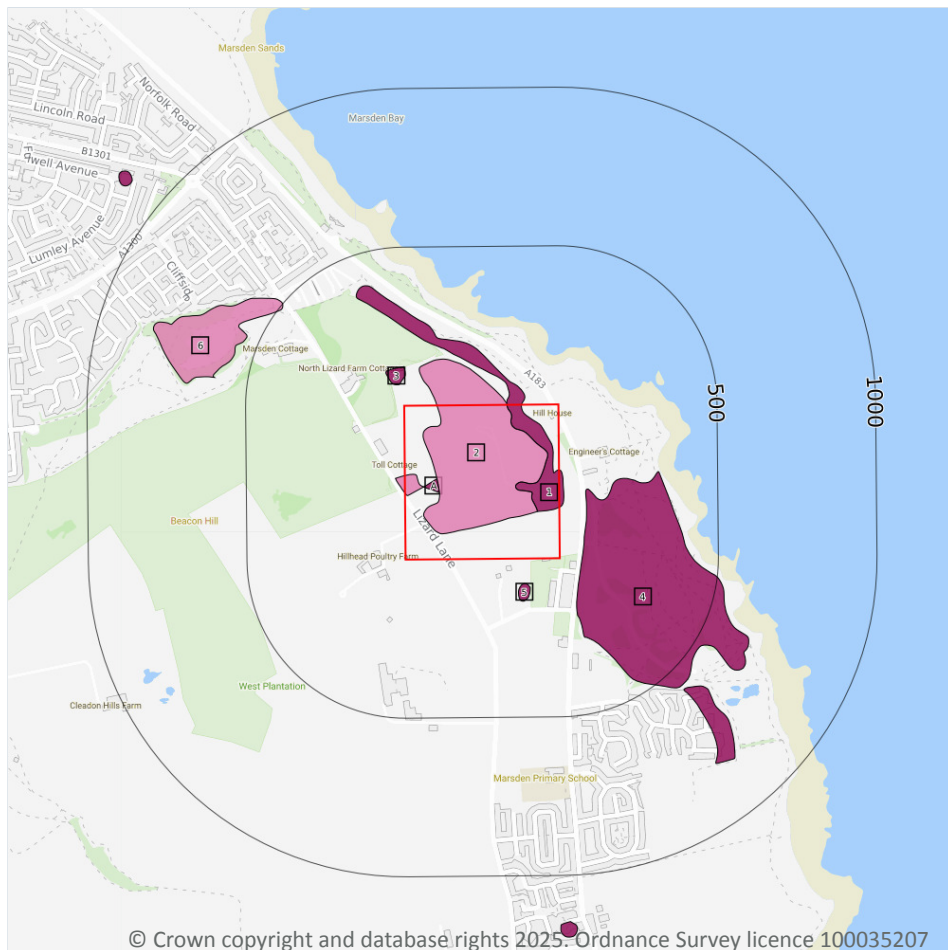
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme. Features are displayed on the Geology 1:10,000 scale - Availability map on [page 95](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	NZ46SW
2	154m NW	Full	Full	Full	No coverage	NZ36SE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

8

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 96](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
A	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	On site	WGR-VOID	Worked Ground (Undivided)	Void

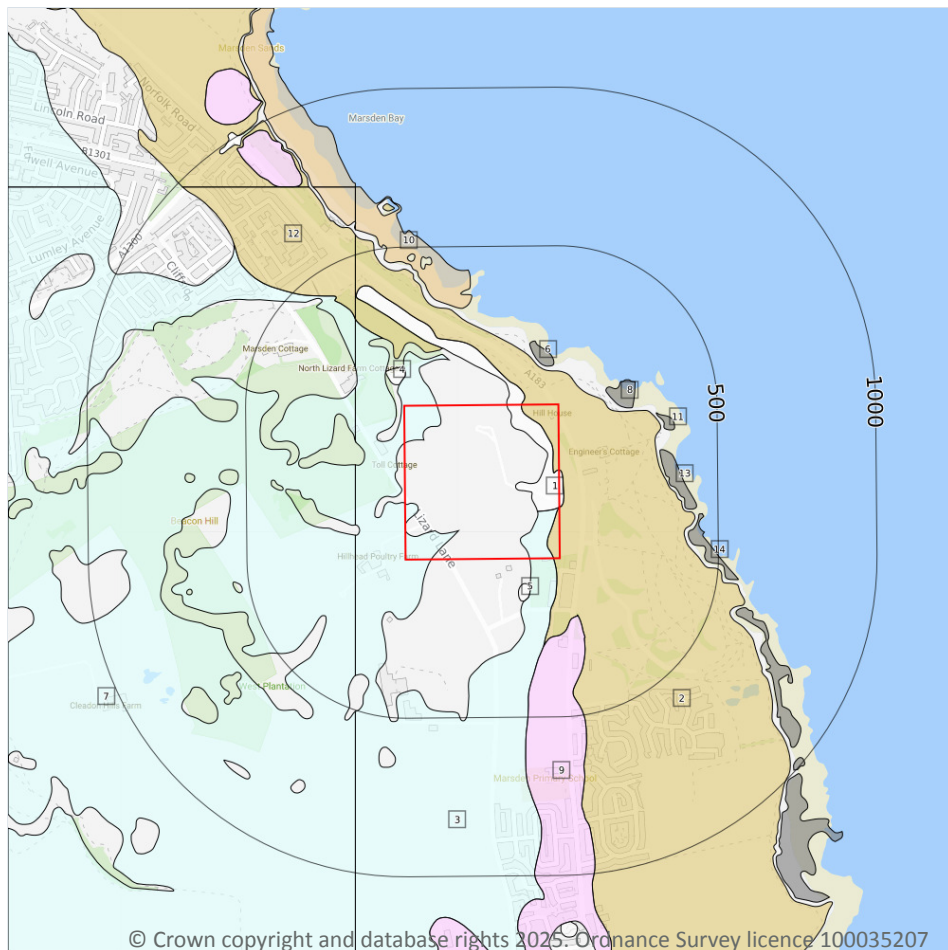


ID	Location	LEX Code	Description	Rock description
3	69m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	70m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	79m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	492m NW	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

14

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 98 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
2	On site	PELC-C	Pelaw Clay Member - Clay	Clay
3	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
4	69m NW	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
5	79m SE	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
6	121m NE	BCHD-XCZS	Beach Deposits - Clay, Silt And Sand	Clay, Silt And Sand
7	154m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
8	156m NE	BCHD-XCZS	Beach Deposits - Clay, Silt And Sand	Clay, Silt And Sand
9	188m SE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
10	305m N	BCHD-XSV	Beach Deposits - Sand And Gravel	Sand And Gravel
11	308m E	BCHD-XCZS	Beach Deposits - Clay, Silt And Sand	Clay, Silt And Sand
12	314m NW	PELC-C	Pelaw Clay Member - Clay	Clay
13	319m E	BCHD-XCZS	Beach Deposits - Clay, Silt And Sand	Clay, Silt And Sand
14	406m E	BCHD-XCZS	Beach Deposits - Clay, Silt And Sand	Clay, Silt And Sand

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

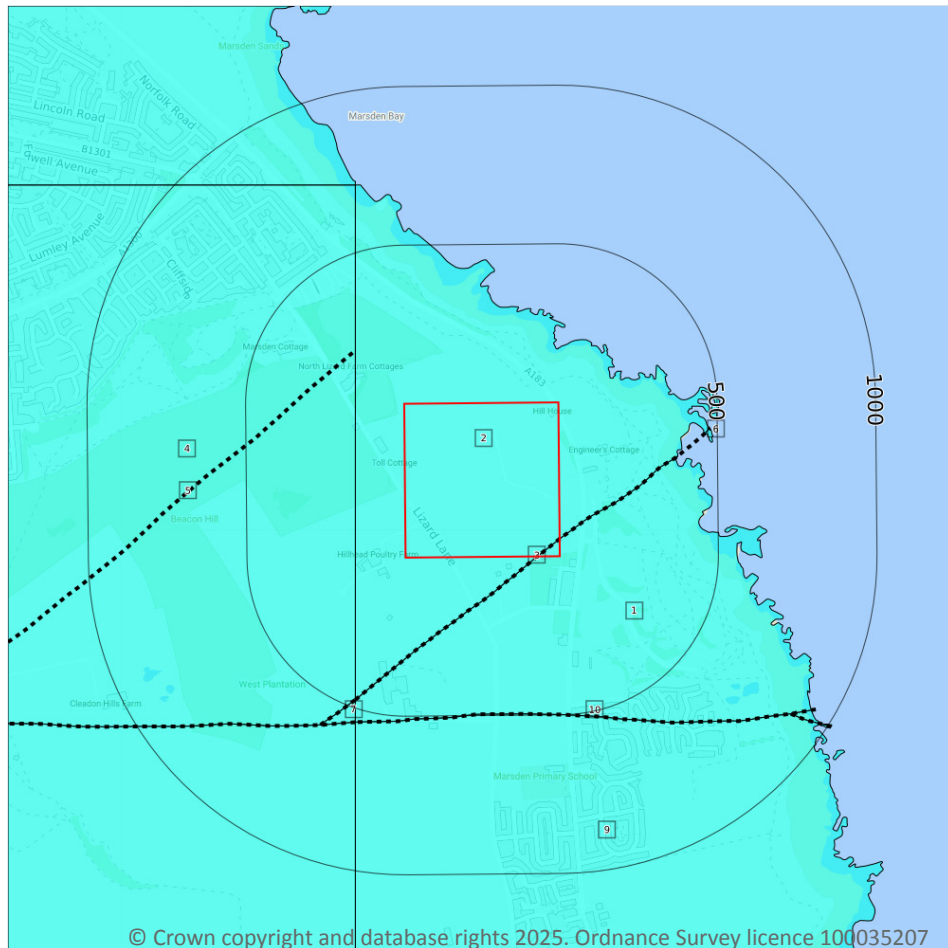
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

6

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 100](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	ROD-DOLO	Roker Formation - Dolostone	Late Permian Epoch [Obsolete name]
2	On site	ROD-DOLO	Roker Formation - Dolostone	Late Permian Epoch [Obsolete name]



ID	Location	LEX Code	Description	Rock age
4	154m NW	ROD-DOLO	Roker Formation - Dolostone	Late Permian Epoch [Obsolete name]
6	461m E	ROD-DOLO	Roker Formation - Dolostone	Late Permian Epoch [Obsolete name]
7	475m SW	ROD-DOLO	Roker Formation - Dolostone	Late Permian Epoch [Obsolete name]
9	496m S	ROD-DOLO	Roker Formation - Dolostone	Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

4

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 100](#) >

ID	Location	Category	Description
3	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
5	228m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	475m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	496m S	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

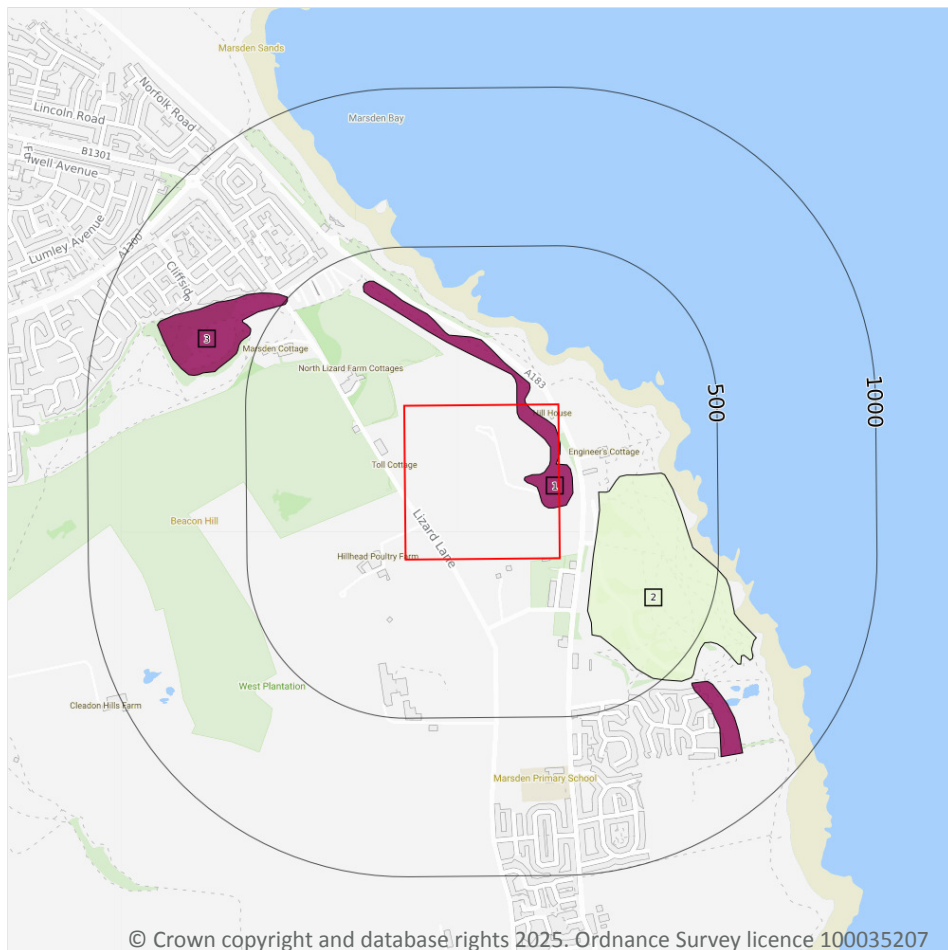
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 102](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW021_sunderland_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

3

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 103](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	104m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	493m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 16 May 2025

15.3 Artificial ground permeability (50k)

Records within 50m

1

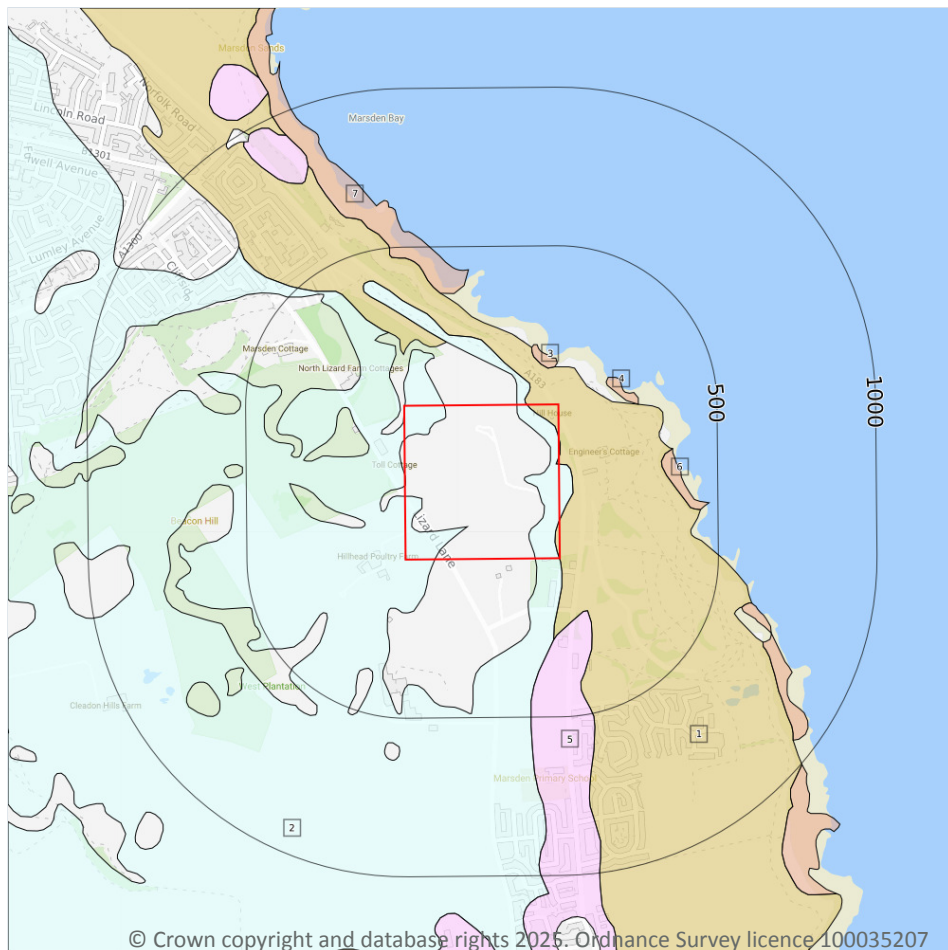
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

7

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 105 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	PELC-C	PELAW CLAY MEMBER	CLAY
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	115m NE	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	165m NE	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL
5	184m SE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
6	323m E	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL
7	352m N	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Low	Very Low
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

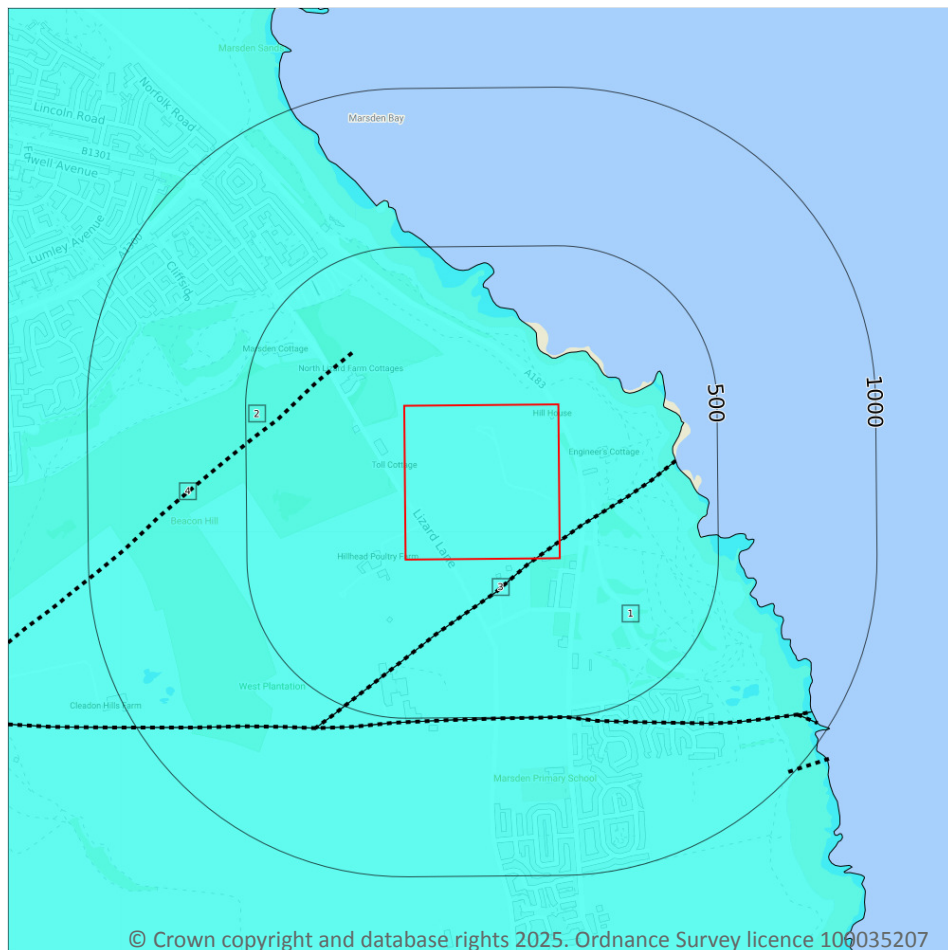
Records within 50m	0
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 107 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	ROD-DOLO	ROKER FORMATION - DOLOSTONE	-
2	On site	ROD-DOLO	ROKER FORMATION - DOLOSTONE	-

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Very High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

2

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

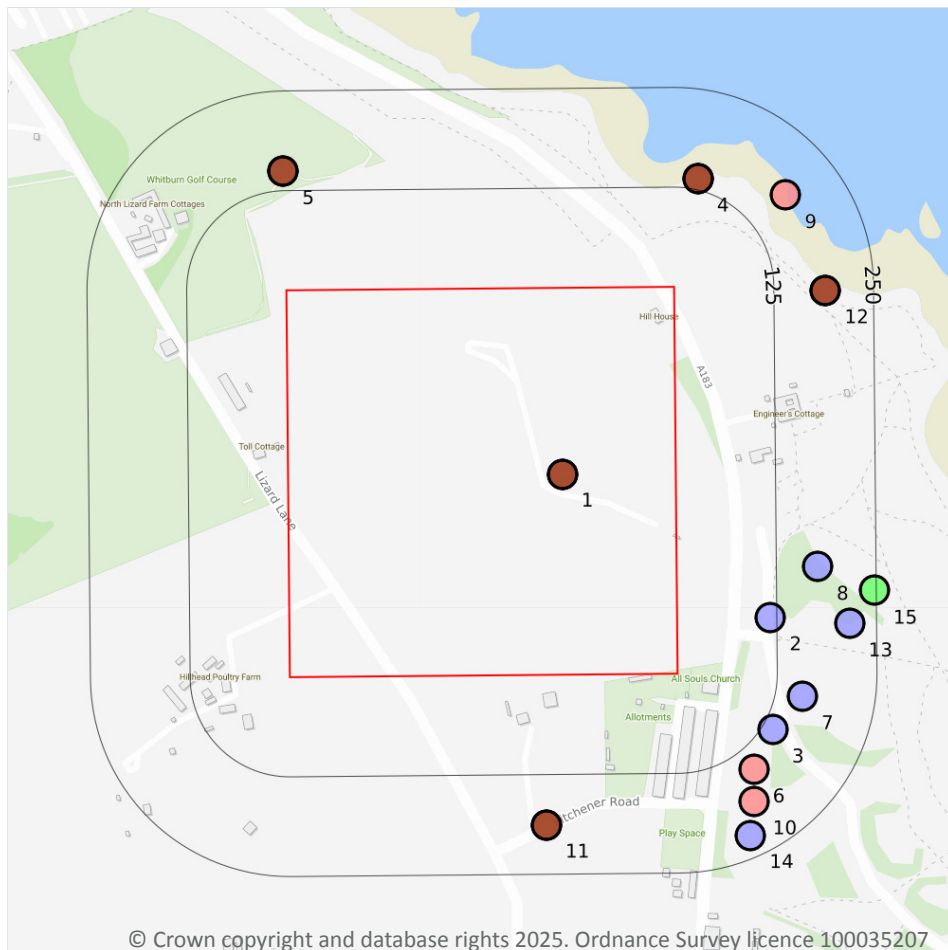
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 107 >](#)

ID	Location	Category	Description
3	On site	FAULT	Fault, inferred, displacement unknown
4	234m NW	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

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16.1 BGS Boreholes

Records within 250m

15

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 109 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	440500 564080	NCB QUARRY COAST RD MARSDEN	-1.0	N	703948 ↗
2	117m SE	440761 563900	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 2	2.0	N	17315396 ↗

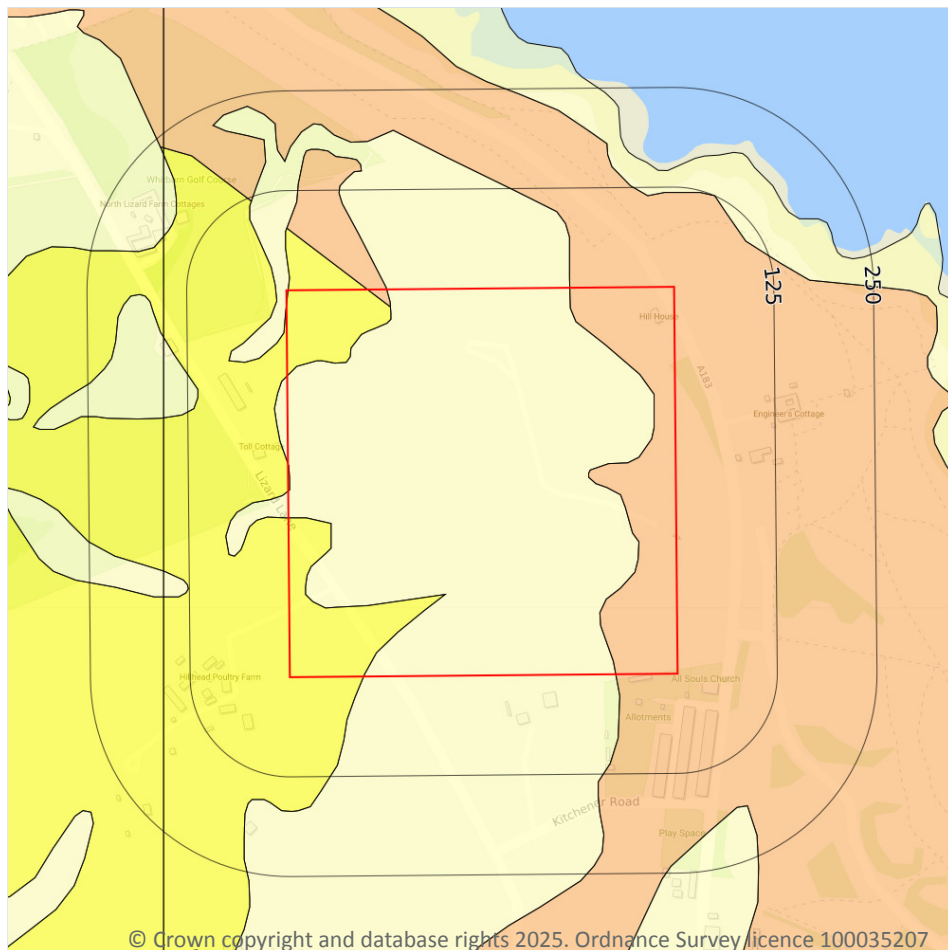


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	138m SE	440764 563760	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 6A	0.5	N	17315400 ↗
4	139m NE	440670 564450	CLIFF BELOW NE END NORTH STREET	-1.0	N	703957 ↗
5	150m NW	440150 564460	HOB & JOAN ORCHARD	-1.0	N	703947 ↗
6	153m SE	440740 563710	NO2 SHAFT AT WHITBURN WINNING	48.77	N	703892 ↗
7	159m SE	440801 563801	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 5	5.2	N	17315399 ↗
8	177m E	440820 563964	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 1	8.2	N	17315395 ↗
9	181m NE	440780 564430	NO1 WHITBURN COLLIERY UPOVER	82.57	N	703883 ↗
10	186m SE	440740 563670	NO1 SOUTH PIT WHITBURN COLLIERY	521.61	N	703886 ↗
11	188m S	440480 563640	ROADSIDE 100YDS SSW OF RESEVOIR	-1.0	N	703950 ↗
12	190m NE	440830 564310	CLIFFS BELOW GEORGE ST MARSDEN	-1.0	N	703956 ↗
13	216m E	440860 563893	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 3	9.5	N	17315397 ↗
14	222m SE	440736 563627	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 12A	1.6	N	17315407 ↗
15	248m E	440891 563934	RECLAMATION SCHEME, WHITBURN COLLIERY. BH 4	10.3	N	17315398 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

3

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 111](#) >

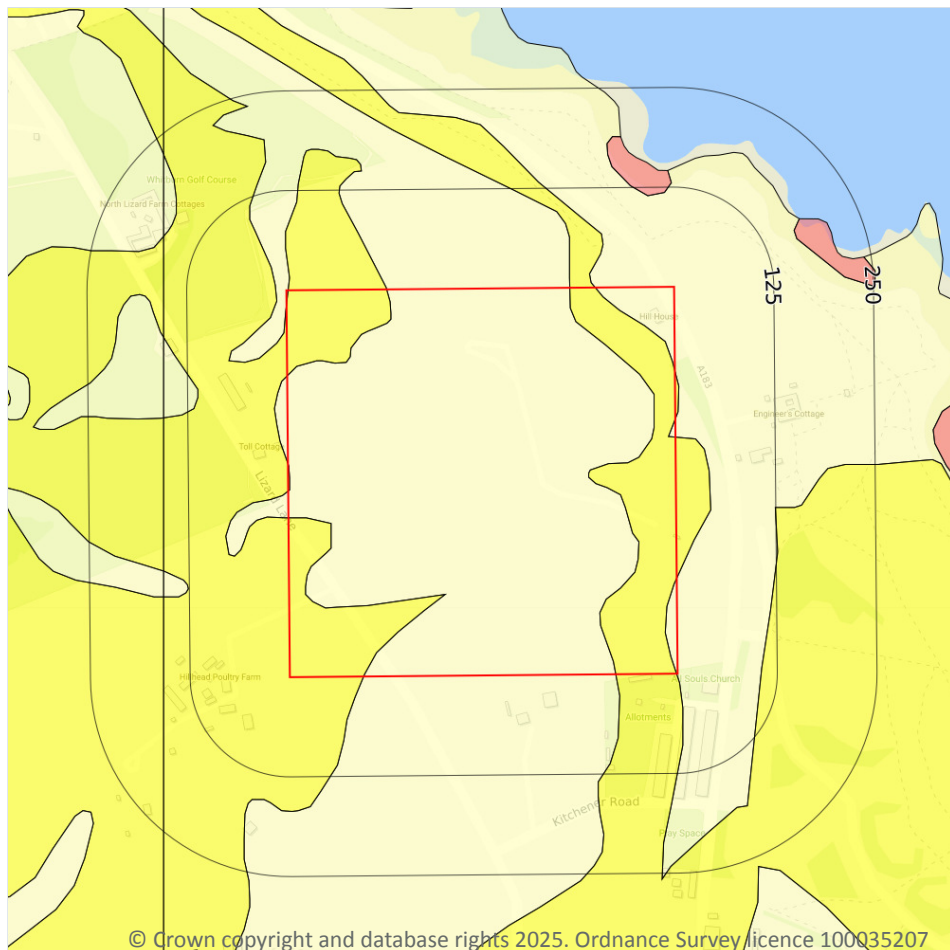
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline**
- Search buffers in metres (m)**
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 113](#) >

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

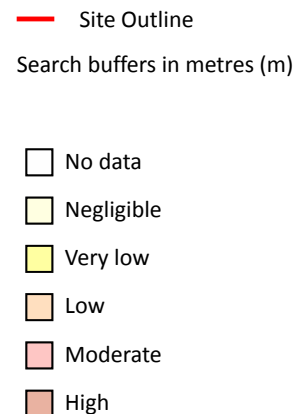
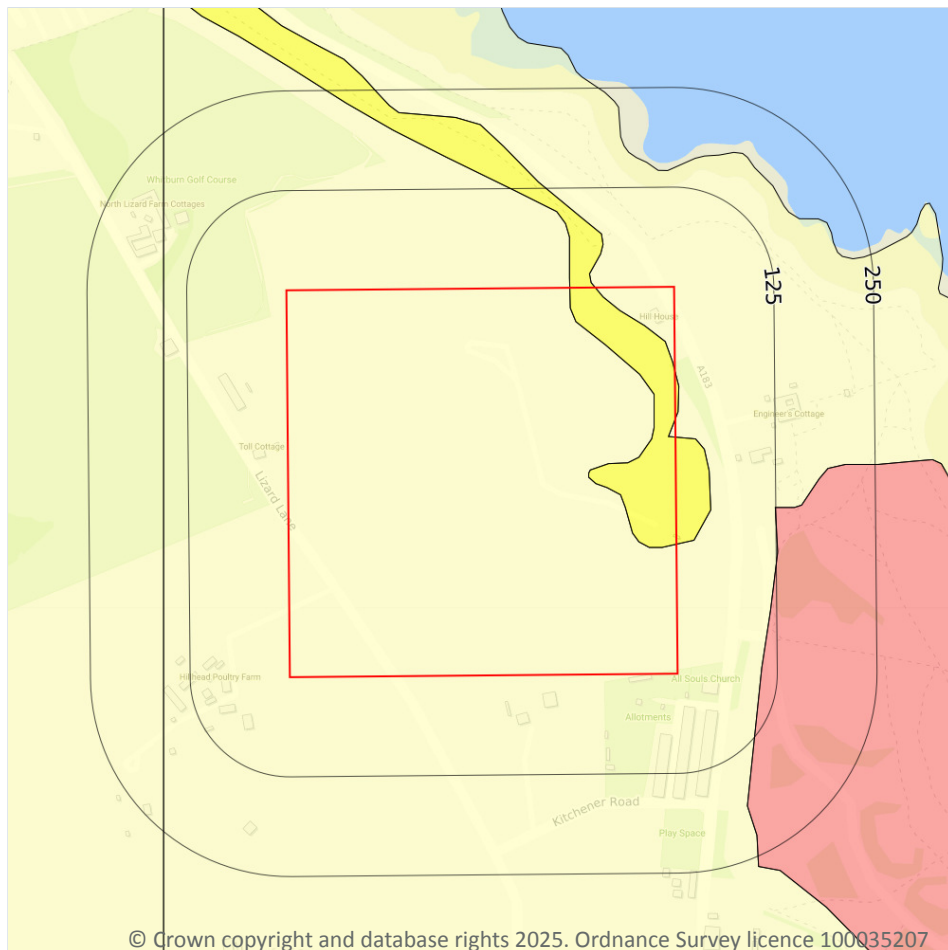


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 115 >](#)

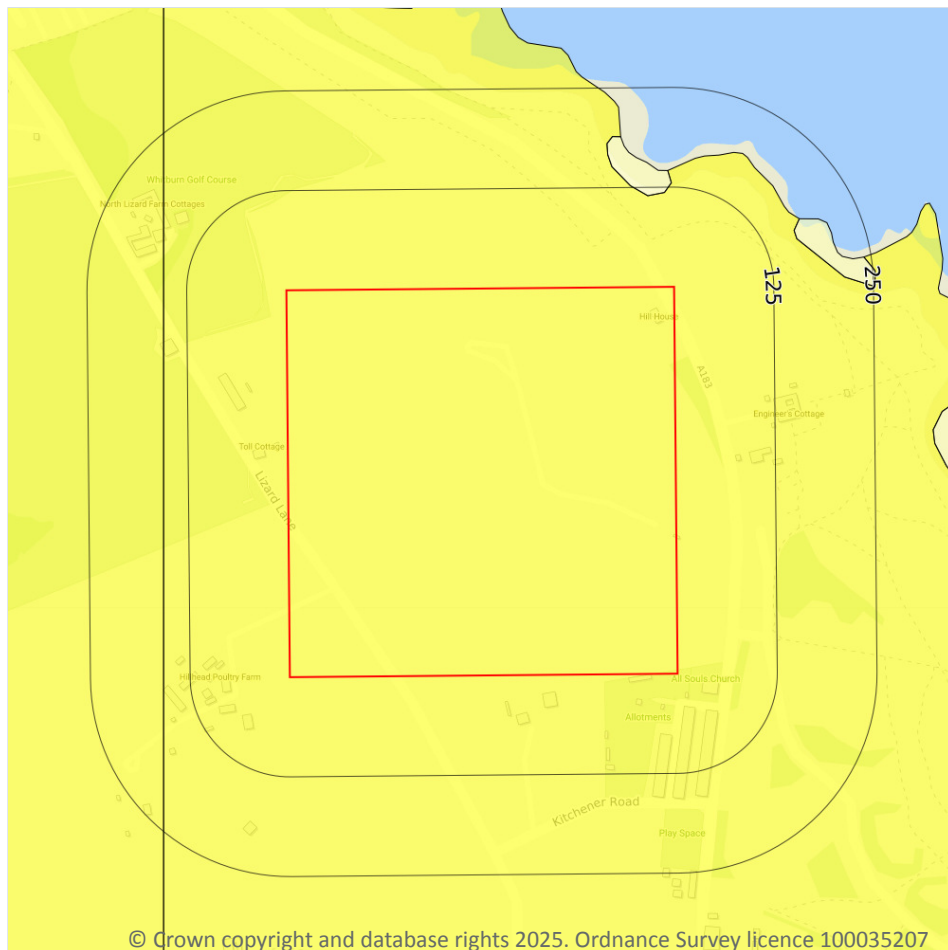
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

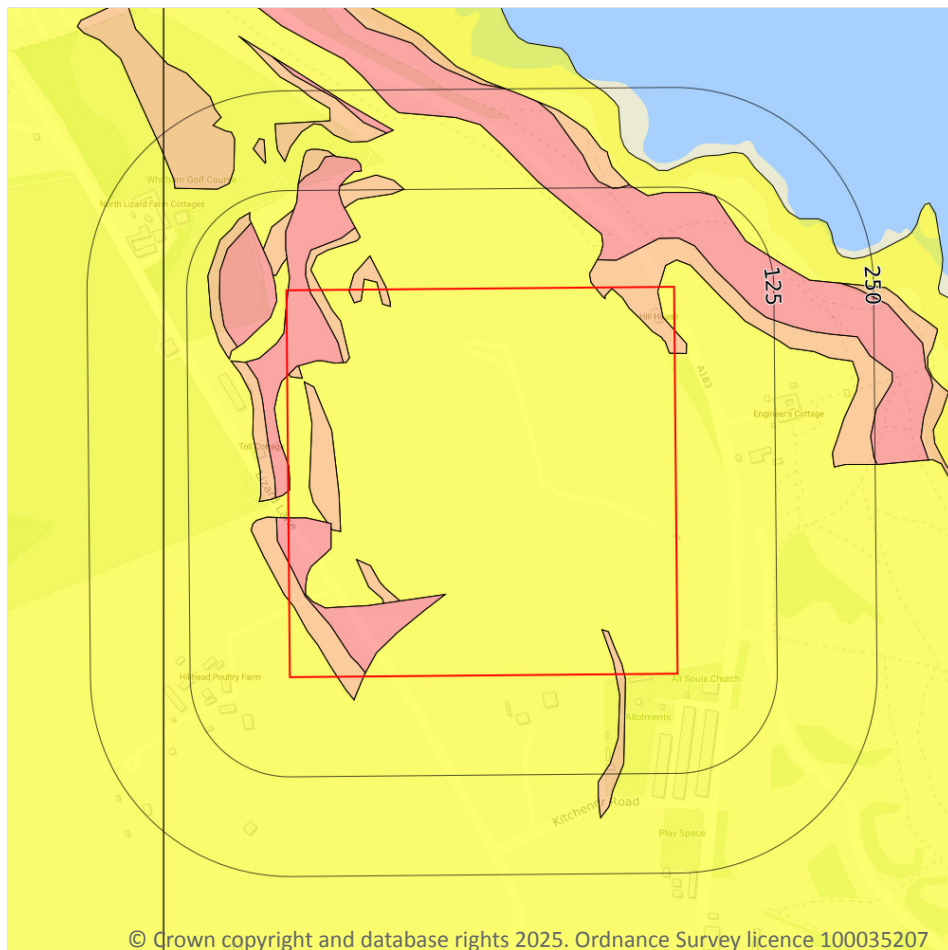
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 117 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

7

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 118](#) >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

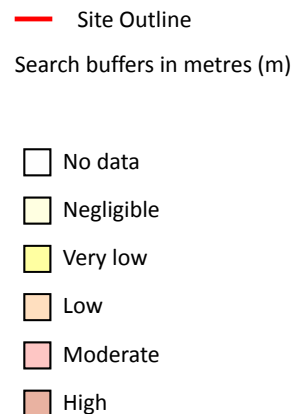
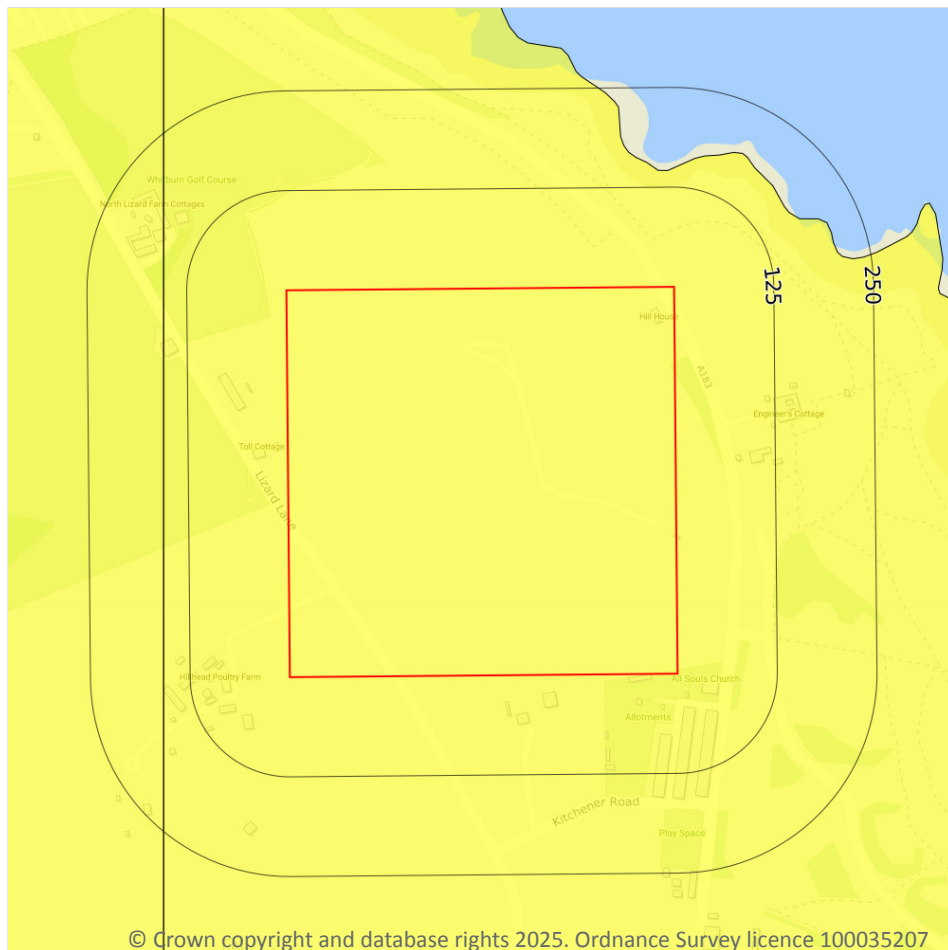


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
12m NW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
16m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
23m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
34m NE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 120](#) >

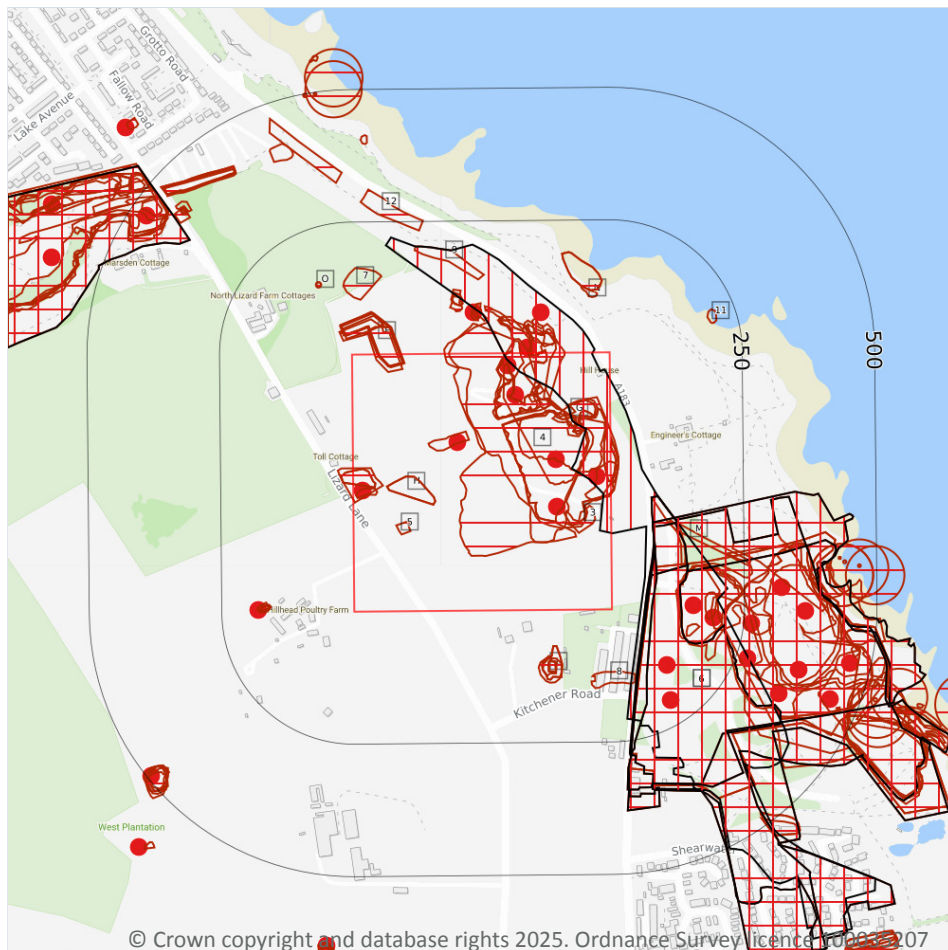
Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
 - Sporadic underground mining of restricted extent possible
 - Localised small scale underground mining possible
 - Small scale mining possible
 - Underground mining known or likely within or in close proximity
 - Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

26

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on [page 122](#) >



ID	Location	Details	Description
1	On site	Name: Marsden Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
A	On site	Name: Marsden Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
B	On site	Name: Marsden Quarry Address: Marsden, SOUTH SHIELDS, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
C	On site	Name: Marsden Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
C	On site	Name: Marsden Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
D	On site	Name: Glebe Land Address: Marsden, SOUTH SHIELDS, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
E	On site	Name: Marsden Quarry Address: Marsden, SUNDERLAND, Tyne and Wear, SR6 7NG Commodity: Limestone Status: Active	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals
C	10m N	Name: Marsden Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
C	77m N	Name: Lizards Quarries Address: Marsden, SOUTH SHIELDS, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
J	77m N	Name: Lizards Limestone Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
J	99m N	Name: Lizards Limestone Quarries Address: Marsden, SOUTH SHIELDS, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
10	147m SE	Name: Whitburn Colliery No. 2 Pit Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	153m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
P	180m SW	Name: Glebe Land Address: Marsden, SOUTH SHIELDS, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	192m SE	Name: Whitburn Quarries Address: Whitburn, SUNDERLAND, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
K	204m SE	Name: Whitburn Colliery No. 1 Pit Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	263m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
I	273m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
R	320m E	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	352m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
Q	364m E	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
Q	371m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
S	444m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
Y	460m SE	Name: Whitburn Colliery Quarry Address: Whitburn, SUNDERLAND, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
AB	468m NW	Name: Marsden Hall Quarries Address: Marsden, SOUTH SHIELDS, Co. Durham Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.



ID	Location	Details	Description
AA	492m SW	Name: West Plantation Address: Cleadon, SOUTH SHIELDS, Tyne and Wear Commodity: Dolomite Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	81
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Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 122 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Unspecified Quarry	1966	1:10560
3	On site	Unspecified Ground Workings	1966	1:10560
4	On site	Unspecified Quarries	1951	1:10560
5	On site	Cuttings	1951	1:10560
A	On site	Refuse Heap	1966	1:10560
B	On site	Limestone Quarries	1983	1:10000
B	On site	Unspecified Quarry	1938	1:10560
B	On site	Unspecified Quarry	1895	1:10560
B	On site	Unspecified Quarry	1921	1:10560
B	On site	Unspecified Quarry	1921	1:10560
C	On site	Unspecified Old Quarry	1938	1:10560
C	On site	Unspecified Quarries	1895	1:10560
C	On site	Unspecified Old Quarry	1921	1:10560
C	On site	Unspecified Old Quarry	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	On site	Unspecified Heap	1966	1:10560
D	On site	Old Limestone Quarry	1855	1:10560
D	On site	Unspecified Ground Workings	1983	1:10000
D	On site	Unspecified Ground Workings	1966	1:10560
D	On site	Unspecified Heap	1951	1:10560
E	On site	Unspecified Heap	1966	1:10560
F	On site	Reservoirs	1966	1:10560
F	On site	Reservoirs	1921	1:10560
F	On site	Reservoirs	1921	1:10560
F	On site	Reservoirs	1938	1:10560
F	On site	Reservoirs	1951	1:10560
F	On site	Reservoir	1895	1:10560
G	On site	Unspecified Heap	1895	1:10560
G	On site	Unspecified Heap	1966	1:10560
H	On site	Unspecified Heap	1966	1:10560
H	On site	Unspecified Heap	1951	1:10560
C	12m NE	Unspecified Ground Workings	1966	1:10560
C	15m NE	Unspecified Ground Workings	1951	1:10560
F	32m NW	Disused Reservoir	1983	1:10000
C	34m N	Unspecified Heaps	1951	1:10560
I	62m SE	Colliery	1951	1:10560
J	62m N	Unspecified Ground Workings	1966	1:10560
J	62m N	Old Limestone Quarries	1855	1:10560
K	65m SE	Colliery	1938	1:10560
I	65m SE	Colliery	1921	1:10560
I	66m SE	Colliery	1921	1:10560
I	66m SE	Colliery	1921	1:10560
L	68m SE	Unspecified Ground Workings	1983	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
L	68m SE	Unspecified Ground Workings	1966	1:10560
I	75m SE	Colliery	1895	1:10560
M	77m E	Refuse Heap	1951	1:10560
J	80m N	Unspecified Old Quarry	1921	1:10560
L	87m S	Reservoir	1921	1:10560
L	90m S	Unspecified Pit	1951	1:10560
J	90m N	Unspecified Old Quarry	1938	1:10560
J	91m N	Unspecified Old Quarry	1921	1:10560
J	91m N	Unspecified Quarry	1895	1:10560
L	96m S	Reservoir	1938	1:10560
L	96m S	Reservoir	1895	1:10560
L	96m S	Reservoir	1921	1:10560
7	103m NW	Unspecified Old Quarry	1921	1:10560
N	105m NE	Sandstone Quarries	1855	1:10560
M	109m E	Unspecified Ground Workings	1895	1:10560
N	117m NE	Refuse Heap	1983	1:10000
N	117m NE	Refuse Heap	1966	1:10560
8	118m SE	Unspecified Heap	1895	1:10560
I	121m SE	Unspecified Old Quarry	1895	1:10560
I	125m SE	Unspecified Old Quarry	1921	1:10560
I	126m SE	Unspecified Old Quarry	1921	1:10560
I	128m SE	Unspecified Old Quarry	1938	1:10560
9	140m N	Refuse Heap	1966	1:10560
O	141m NW	Filter Beds	1983	1:10000
O	141m NW	Filter Beds	1966	1:10560
I	147m SE	Unspecified Pit	1895	1:10560
P	157m SW	Old Limestone Quarry	1855	1:10560
P	160m SW	Unspecified Pit	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
P	162m SW	Unspecified Quarry	1938	1:10560
Q	172m E	Refuse Heap	1966	1:10560
I	176m SE	Unspecified Heap	1895	1:10560
I	187m SE	Old Limestone Quarries	1855	1:10560
11	196m NE	Unspecified Hole	1855	1:10560
Q	213m SE	Unspecified Quarry	1938	1:10560
Q	213m SE	Unspecified Quarry	1921	1:10560
Q	215m SE	Unspecified Quarry	1921	1:10560
R	229m E	Unspecified Ground Workings	1951	1:10560
12	233m N	Cuttings	1951	1:10560
Q	250m SE	Unspecified Ground Workings	1895	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

14

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on [page 122 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
6	On site	Unspecified Mine	1966	1:10560
I	62m SE	Colliery	1951	1:10560
K	65m SE	Colliery	1938	1:10560
I	65m SE	Colliery	1921	1:10560
I	75m SE	Colliery	1895	1:10560
U	375m NW	Unspecified Workings	1968	1:10560
-	844m SE	Colliery	1983	1:10000
-	844m SE	Colliery	1966	1:10560
-	844m SE	Colliery	1951	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	985m SE	Unspecified Old Shaft	1938	1:10560
-	986m SE	Unspecified Disused Shaft	1966	1:10560
-	990m SE	Unspecified Old Shaft	1951	1:10560
-	993m SE	Unspecified Disused Shaft	1983	1:10000
-	994m SE	Unspecified Old Shaft	1921	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.



18.7 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site**1**

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site**0**

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site**0**

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.15 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

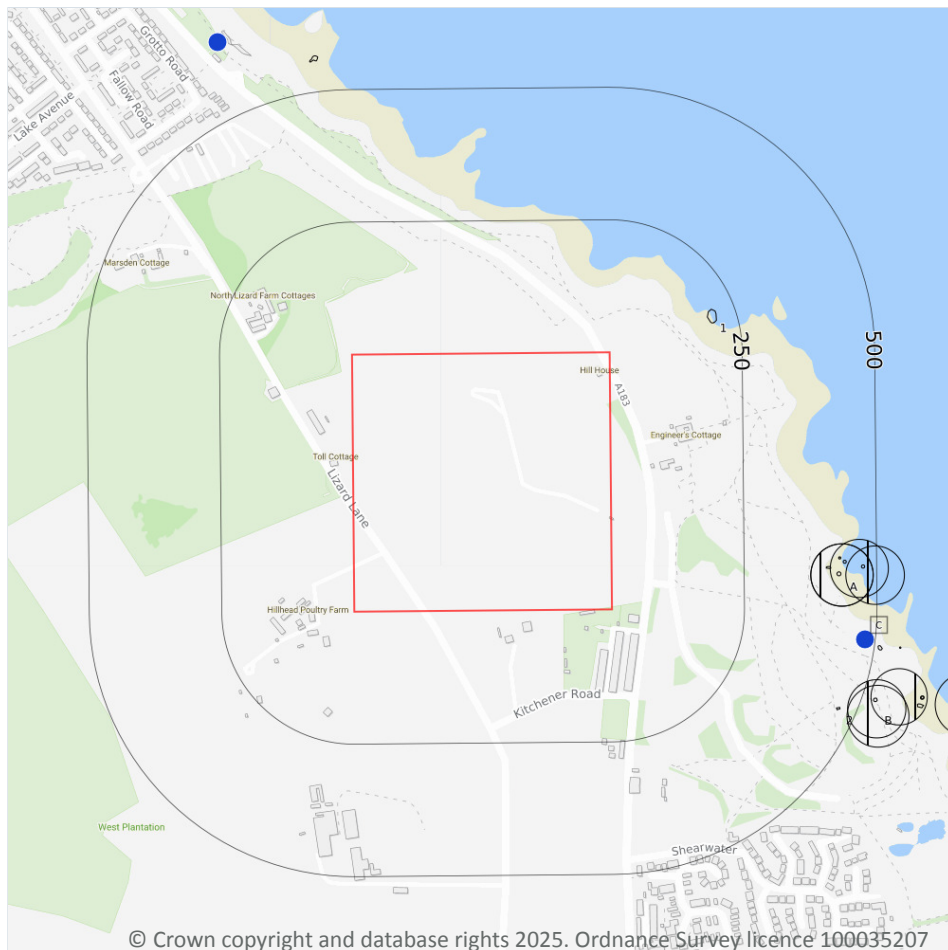
Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Ground cavities and sinkholes



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents

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19.1 Natural cavities

Records within 500m

1

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

Features are displayed on the Ground cavities and sinkholes map on [page 137 >](#)

ID	Location	Details
C	481m E	Type: Sinkhole x 1 Superficial Geology: Pelaw Clay Member-Clay/Marine Beach Deposits-Sand and Gravel margin Bedrock Geology: Pelaw Clay Member, Roker Formation - Dolostone

This data is sourced from Stantec UK Ltd.



19.2 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

13

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

Features are displayed on the Ground cavities and sinkholes map on [page 137](#) >

ID	Location	Type	Date of mapping
1	196m NE	Unspecified Hole	1855
A	376m E	Unspecified Hole	1938
A	376m E	Unspecified Hole	1921

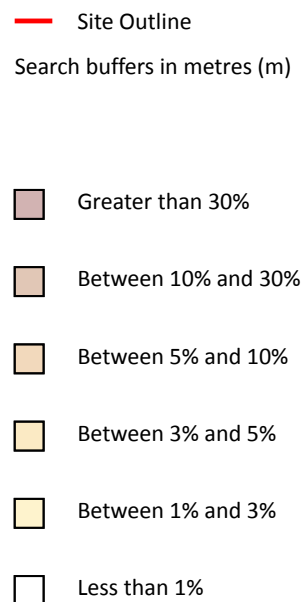
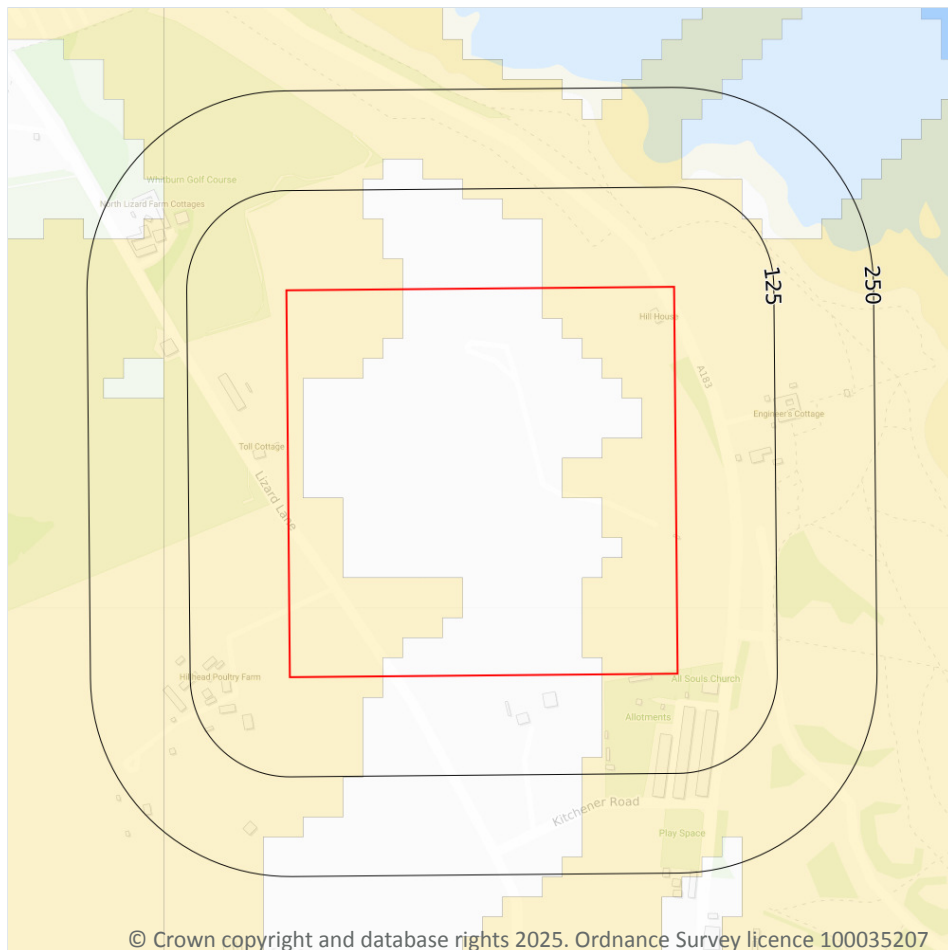


ID	Location	Type	Date of mapping
A	405m E	Unspecified Hole	1951
A	413m E	Unspecified Hole	1895
A	425m E	Hole	1959
A	428m E	Unspecified Hole	1983
A	437m E	Unspecified Hole	1966
A	442m E	Unspecified Hole	1855
2	463m SE	Unspecified Hole	1921
A	471m E	Hole	1994
B	479m SE	Unspecified Hole	1938
B	482m SE	Unspecified Hole	1921

This data is sourced from Groundsure.



20 Radon



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20.1 Radon

Records on site

2

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 140 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

14

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0
--------------------	---

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

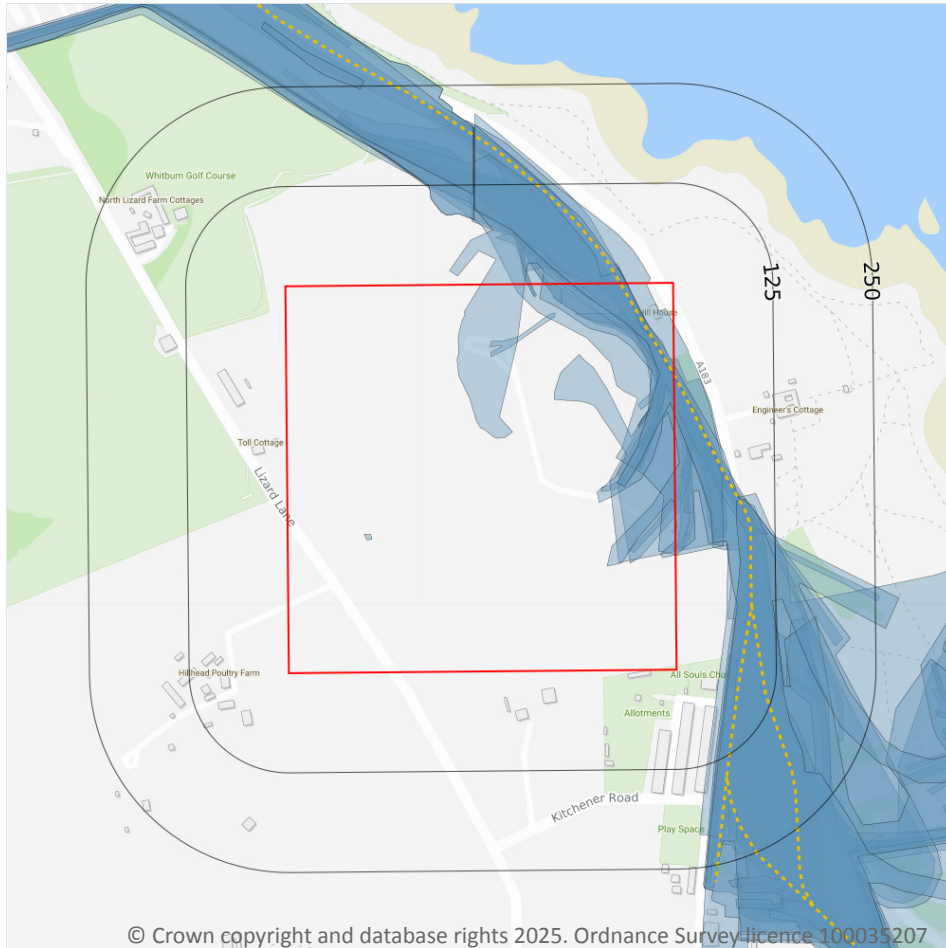
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0
--------------------	---

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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22.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

29

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on [page 144 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1956	1250
On site	Railway Sidings	1959	2500
On site	Tramway Sidings	1942	2500
On site	Colliery Railway Sidings	1896	2500
On site	Colliery Railway Sidings	1915	2500
On site	Mineral Railway Sidings	1956	1250
On site	Mineral Railway Sidings	1956	2500
On site	Railway Sidings	1942	2500
On site	Railway Sidings	1921	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1895	10560
On site	Railway Sidings	1966	10560
On site	Railway Sidings	1951	10560
1m E	Railway Sidings	1956	1250
6m E	Railway Sidings	1956	1250
62m SE	Railway Sidings	1951	10560
67m N	Mineral Railway Sidings	1956	1250



Location	Land Use	Year of mapping	Mapping scale
69m SE	Railway Sidings	1959	2500
81m N	Mineral Railway Sidings	1956	1250
81m N	Railway Sidings	1921	10560
81m N	Railway Sidings	1895	10560
82m E	Railway Sidings	1956	1250
106m N	Mineral Railway Sidings	1940	2500
111m N	Railway Sidings	1915	2500
113m N	Railway Sidings	1938	10560
116m N	Railway Sidings	1896	2500
174m N	Railway Sidings	1940	2500
189m N	Railway Sidings	1955	1250
246m N	Railway Sidings	1951	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

3

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on [page 144 >](#)

Location	Description
On site	Razed



Location	Description
95m SE	Razed
148m SE	Razed

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

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Site Details:

Marsden Quarry

Client Ref: PO22
Report Ref: GS-5VC-D65-TLM-E8R
Grid Ref: 440399, 564070

Map Name: County Series

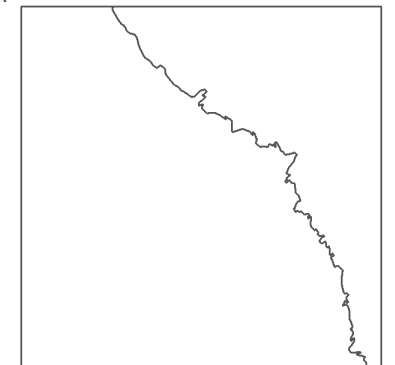
Map date: 1855

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1855
Revised 1855
Edition N/A
Copyright N/A
Levelled N/A

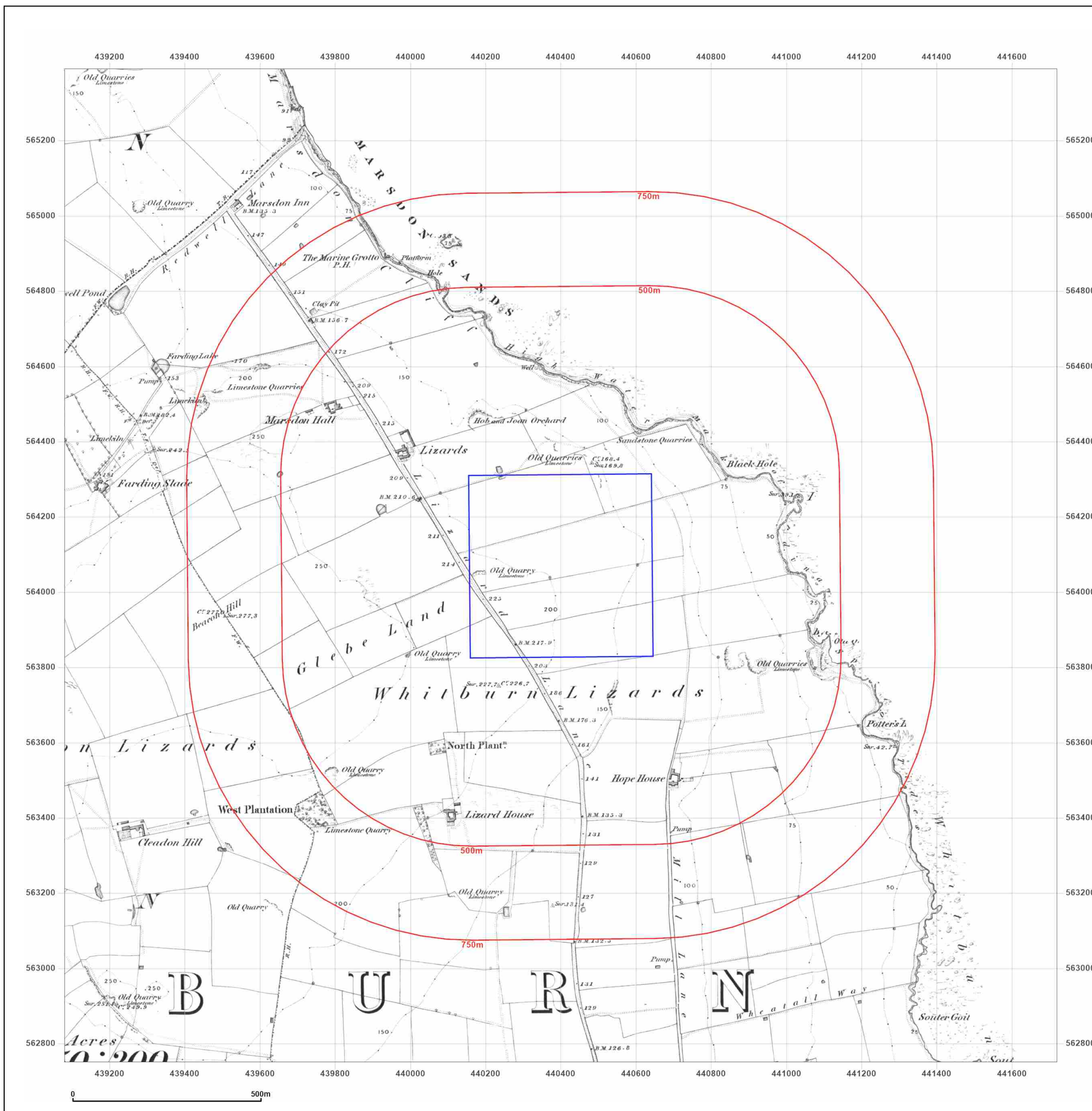


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Client Ref: PO22
Report Ref: GS-5VC-D65-TLM-E8R
Grid Ref: 440399, 564070

Map Name: County Series

Map date: 1895

Scale: 1:10,560

Printed at: 1:10,560



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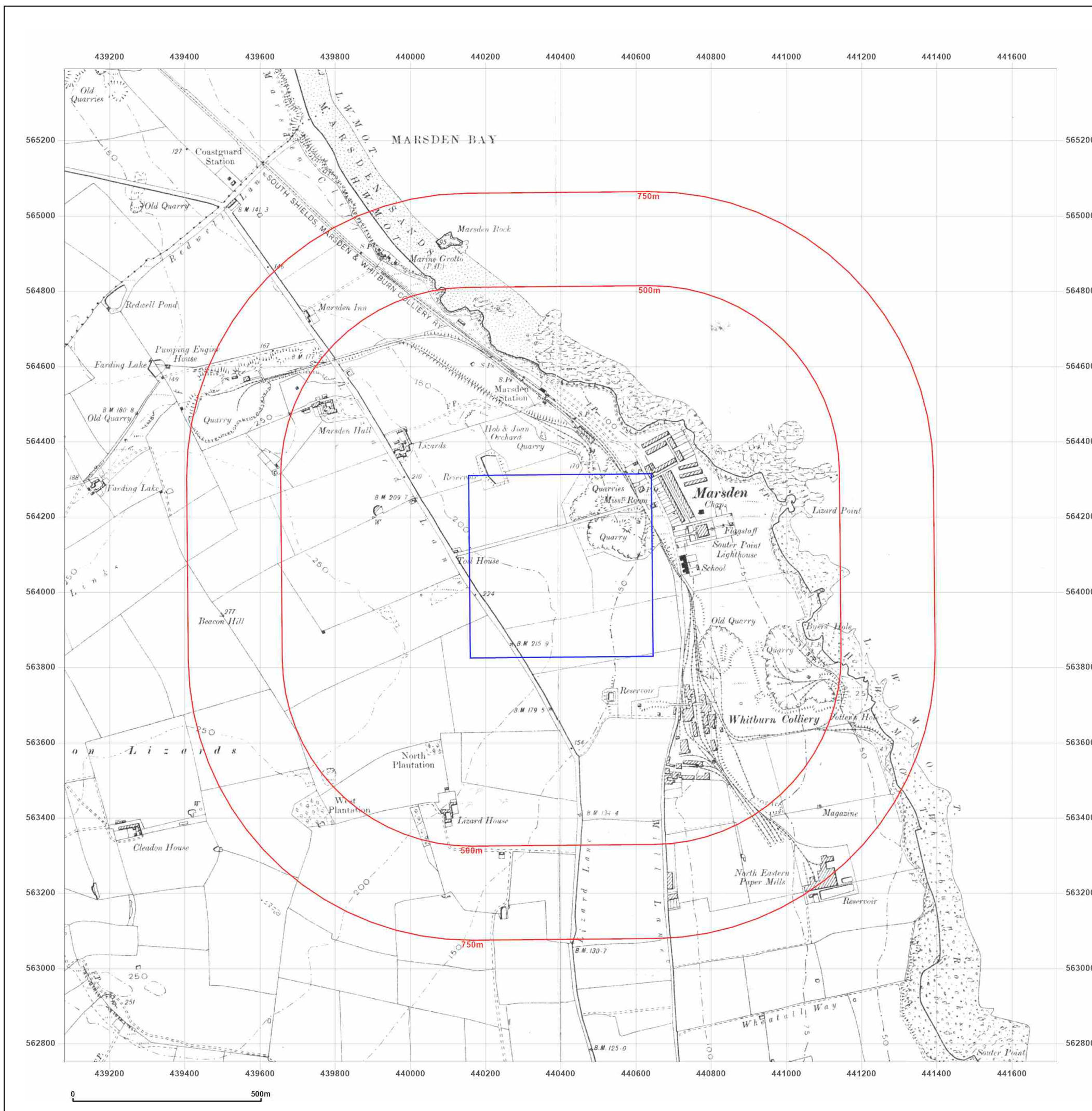


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Report Ref: GS-5VC-D65-TLM-E8R
Grid Ref: 440399, 564070

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1921
Edition 1921
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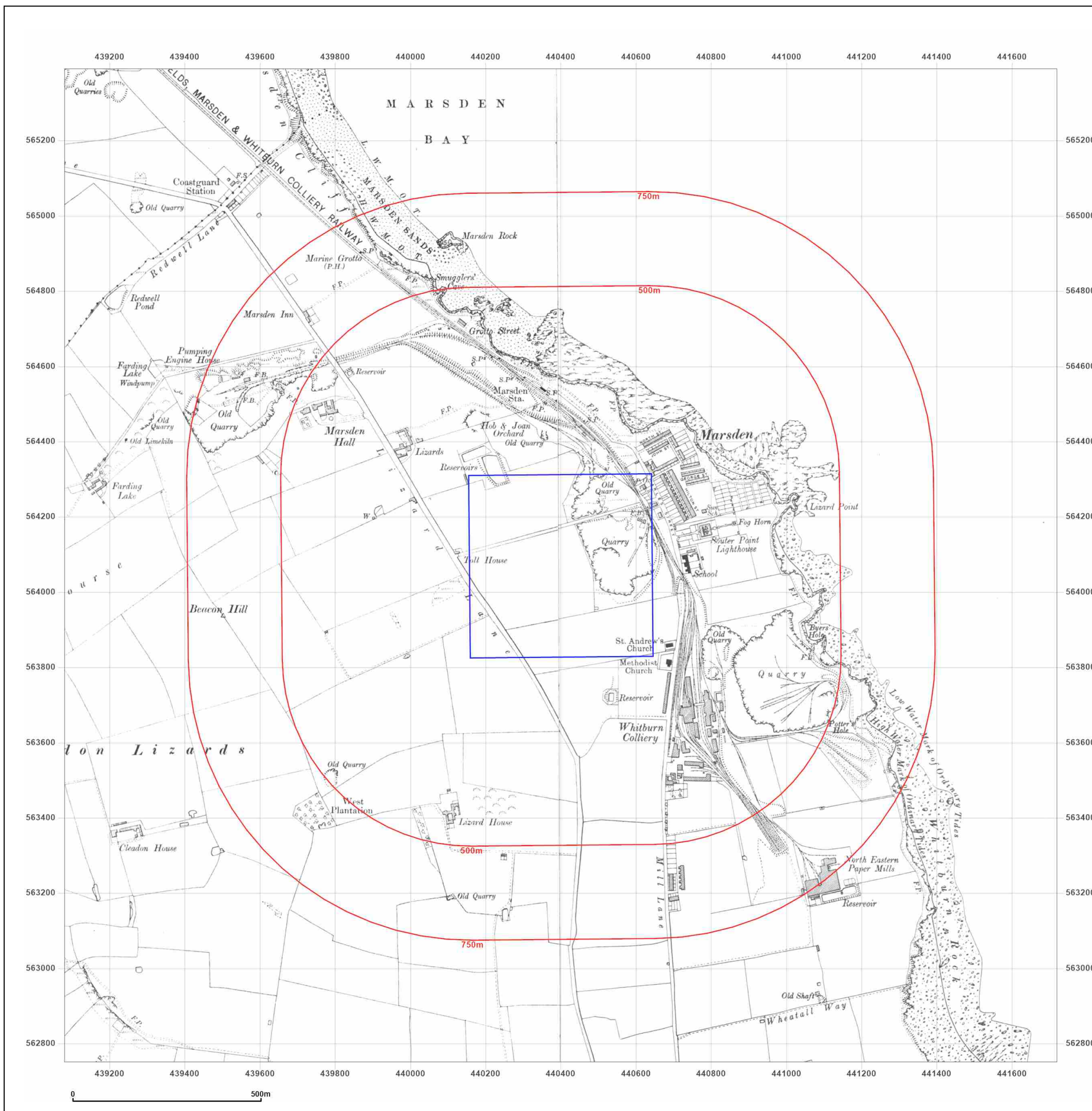


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Grid Ref: 440399, 564070

Map Name: County Series

Map date: 1938

Scale: 1:10,560

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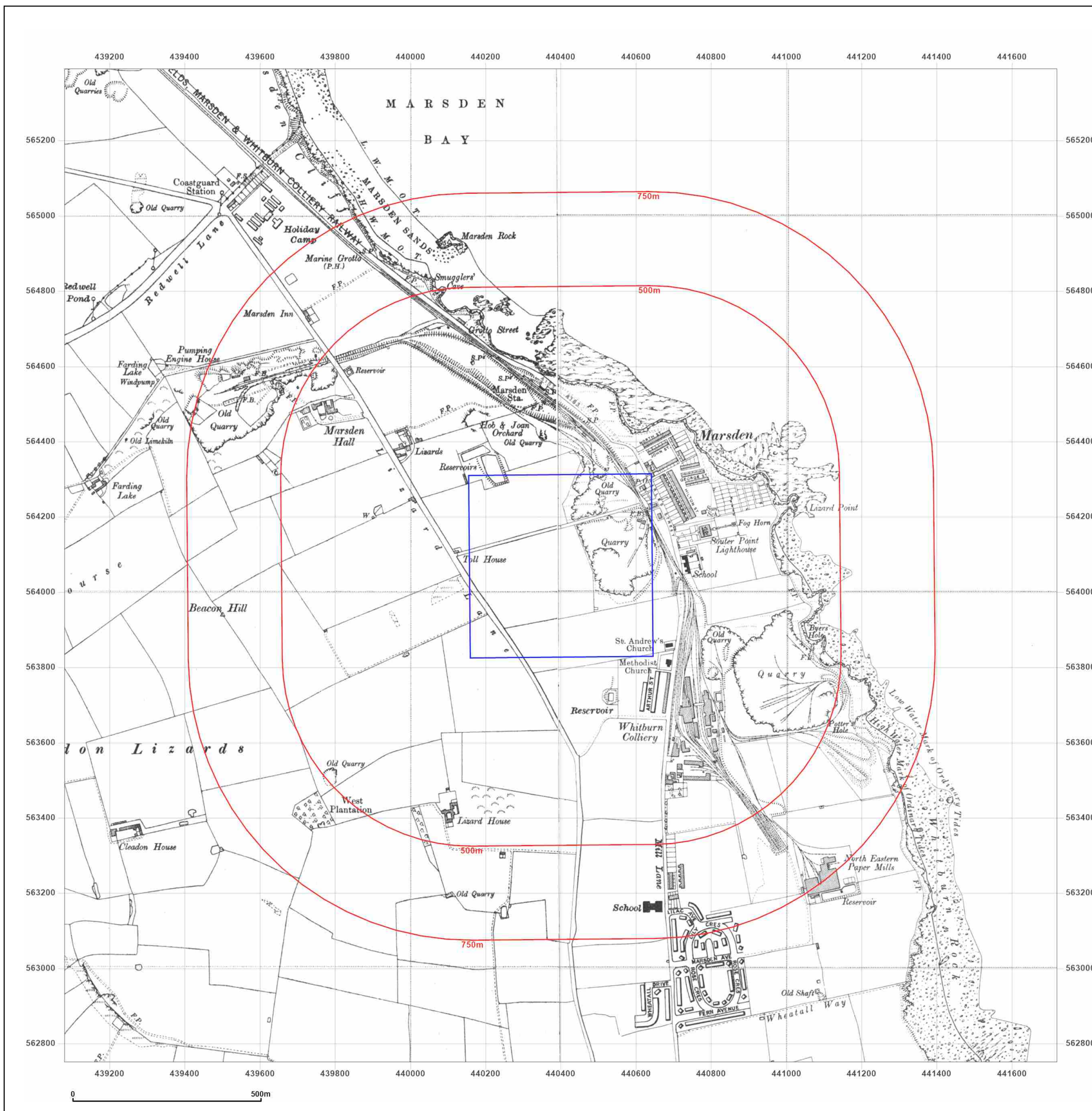


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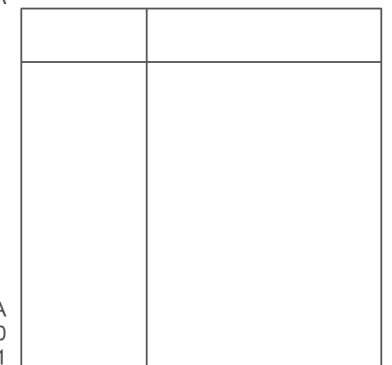
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Scale: 1:10,560

Printed at: 1:10,560



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Revised 1950
Edition 1952
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Revised 1950
Edition 1951
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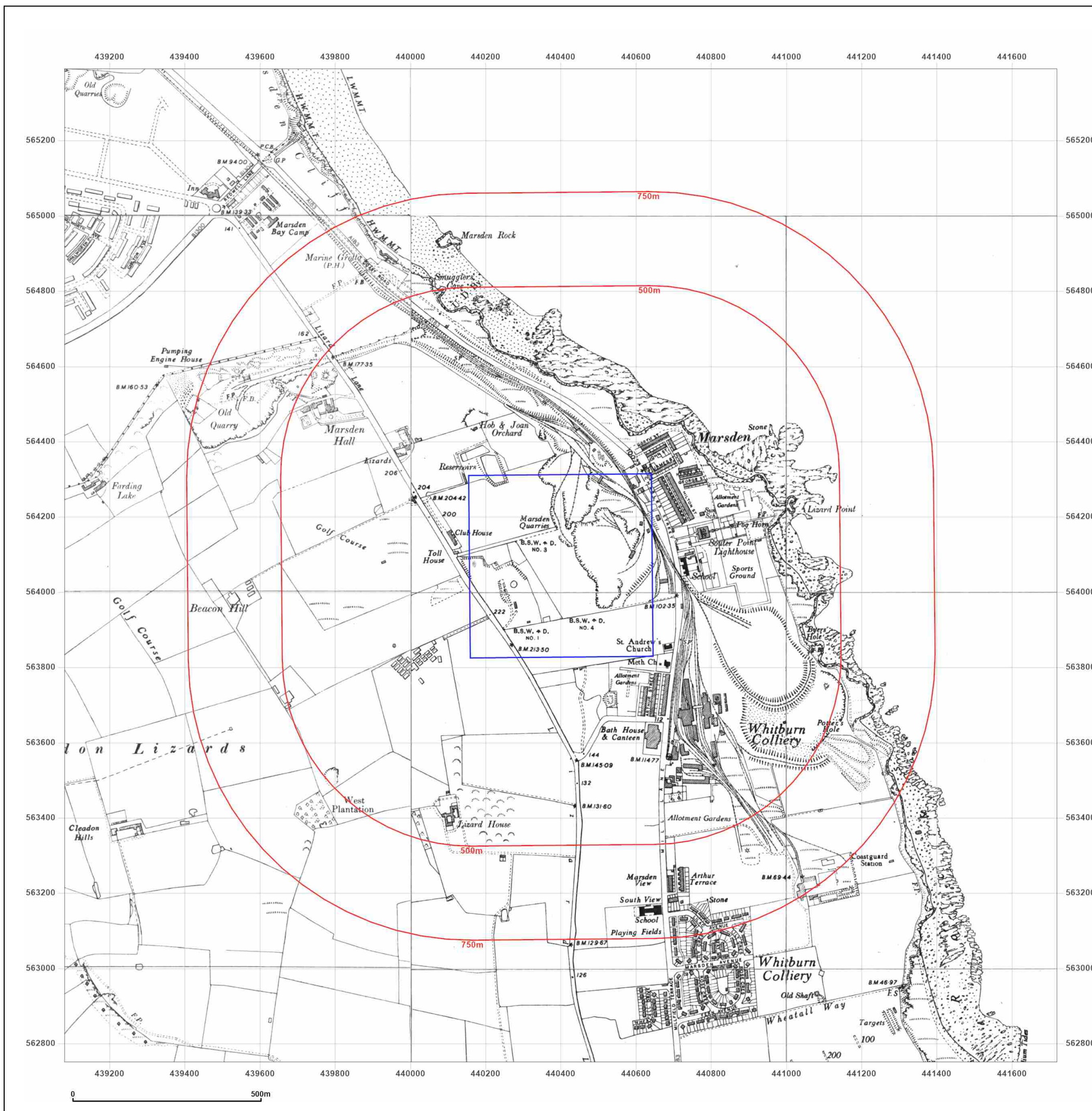


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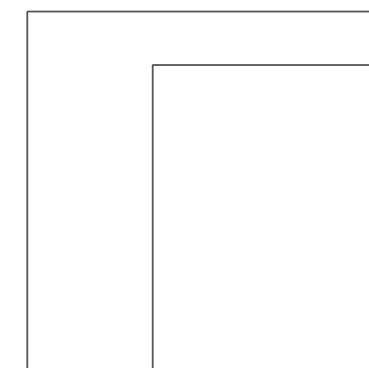
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Grid Ref: 440399, 564070

Map Name: Provisional

Map date: 1966

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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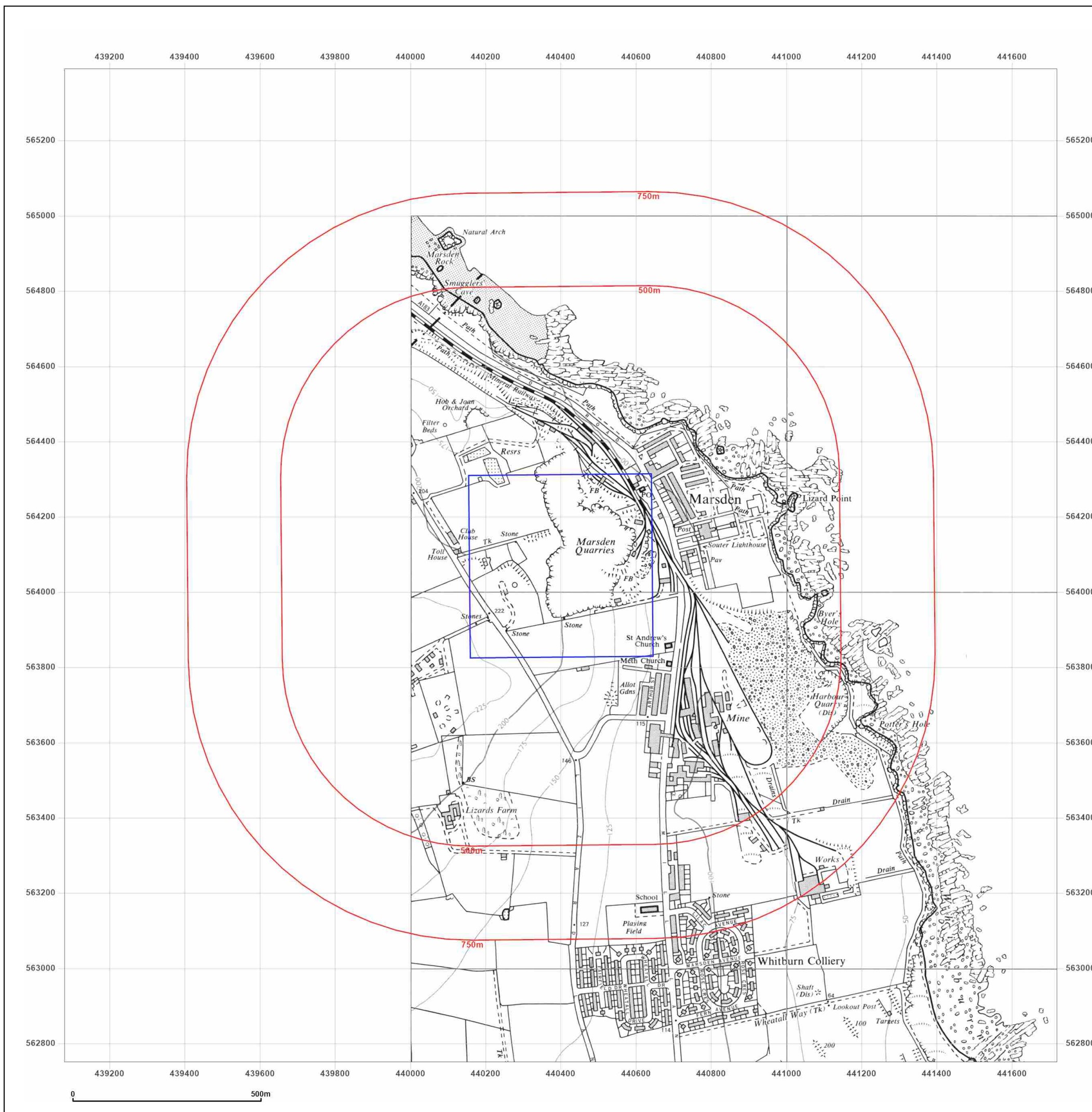


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Grid Ref: 440399, 564070

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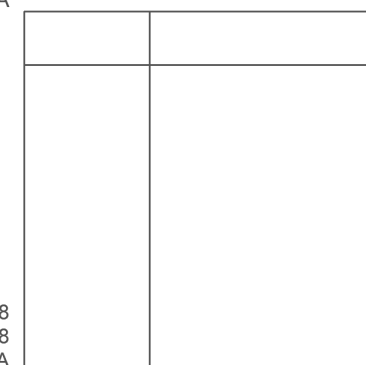
Map date: 1966-1968

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Grid Ref: 440399, 564070

Map Name: National Grid

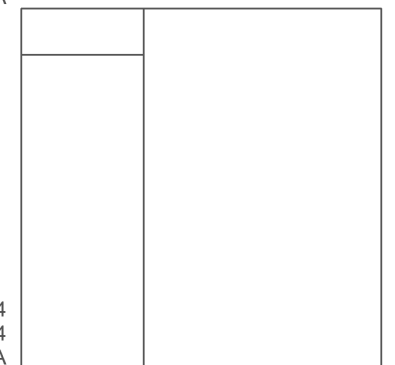
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Scale: 1:10,000

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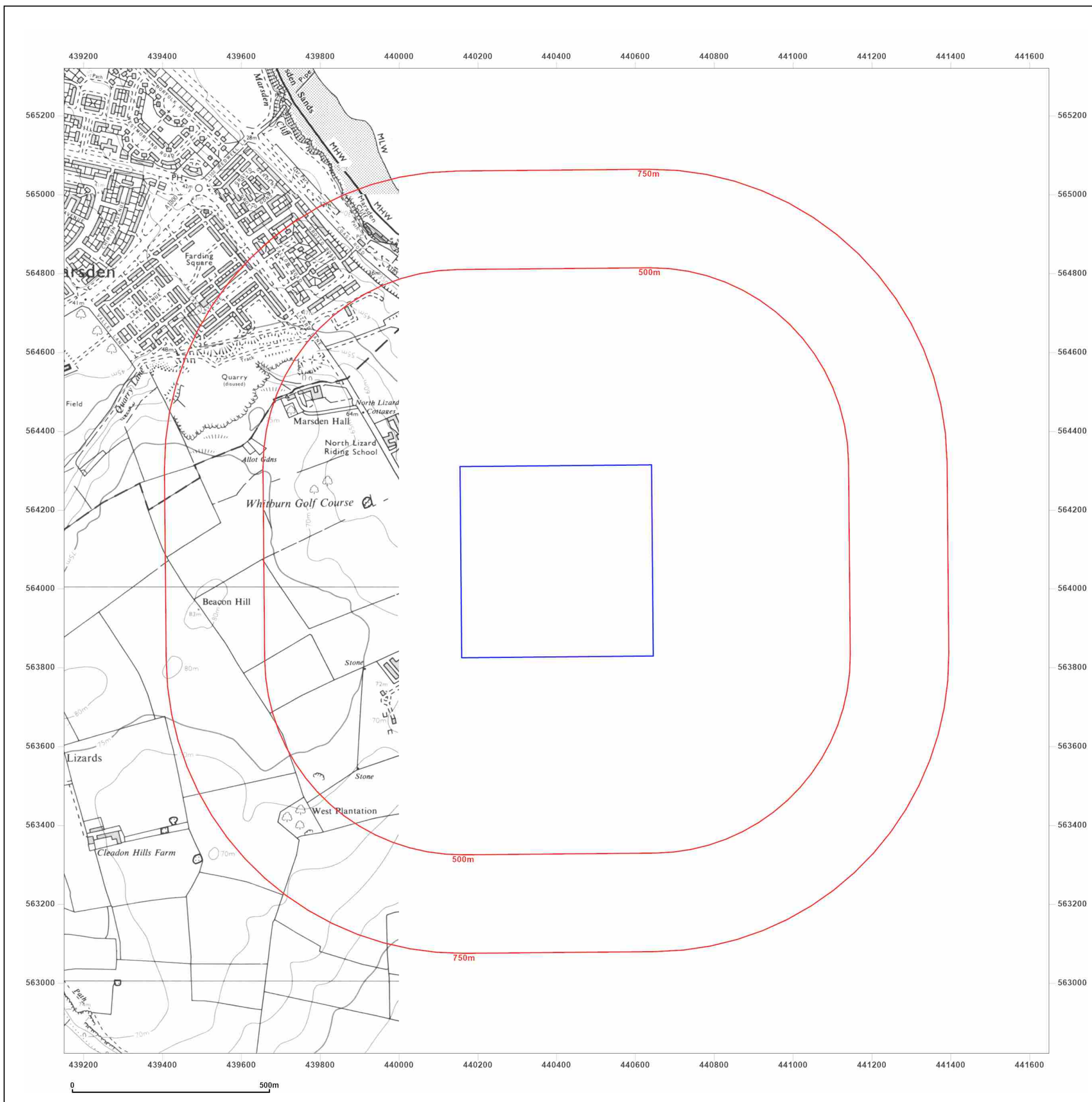


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Grid Ref: 440399, 564070

Map Name: National Grid

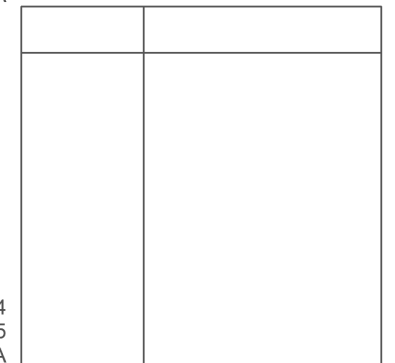
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Scale: 1:10,000

Printed at: 1:10,000



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Map date: 2001

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2001



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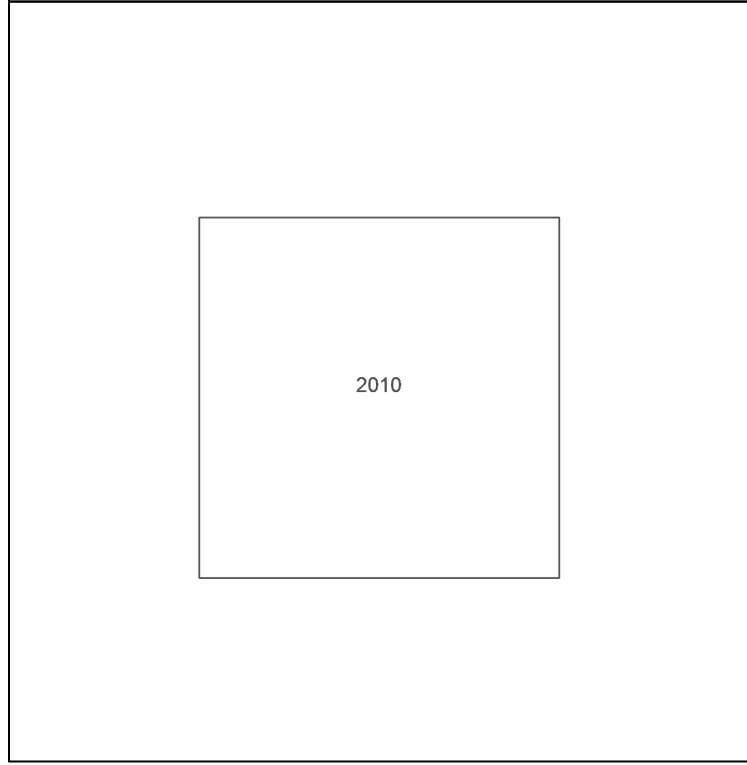
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PO22
GS-5VC-D65-TLM-E8R
440399, 564070

Map Name:
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Scale:
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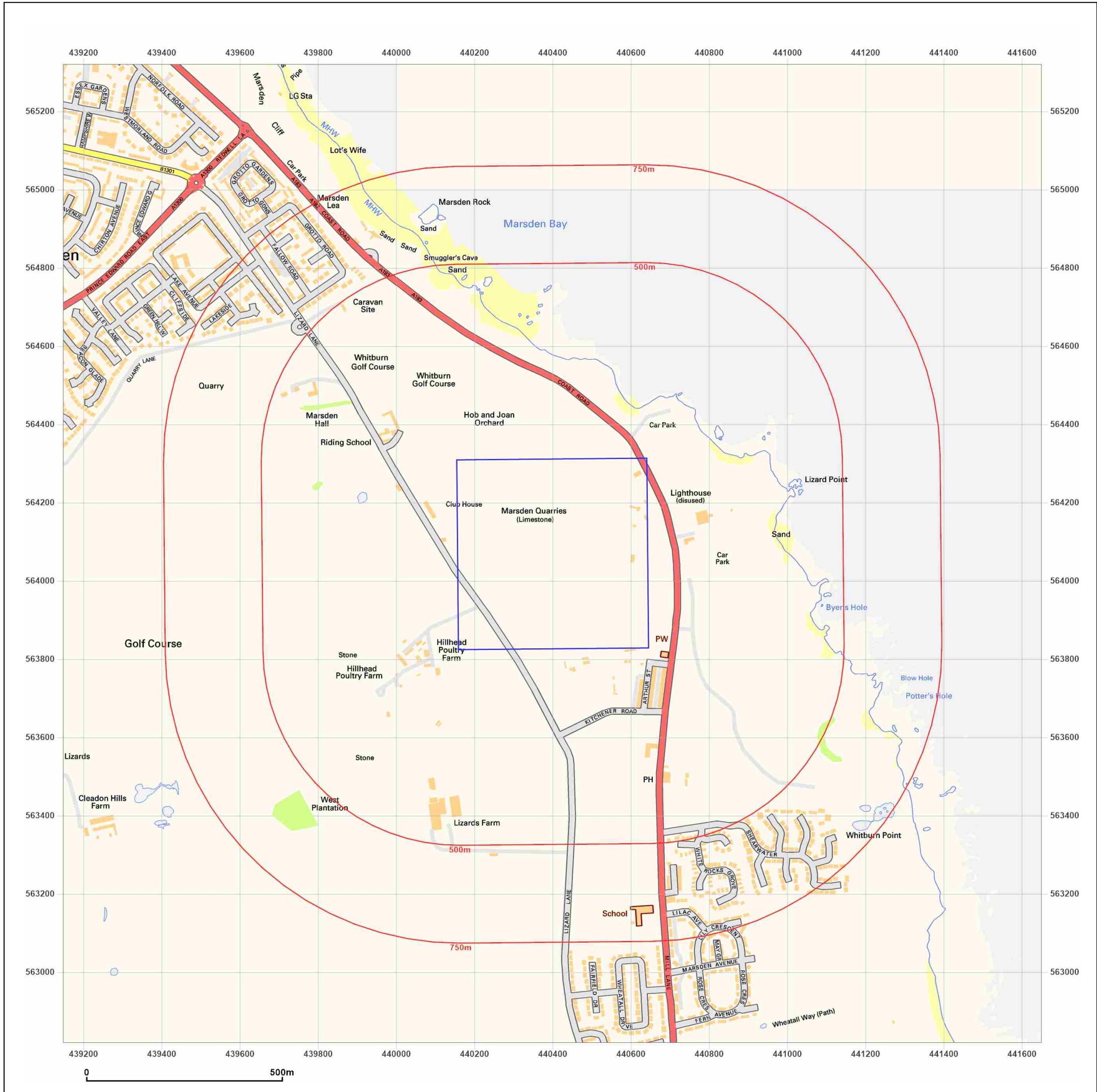
National Grid
2010
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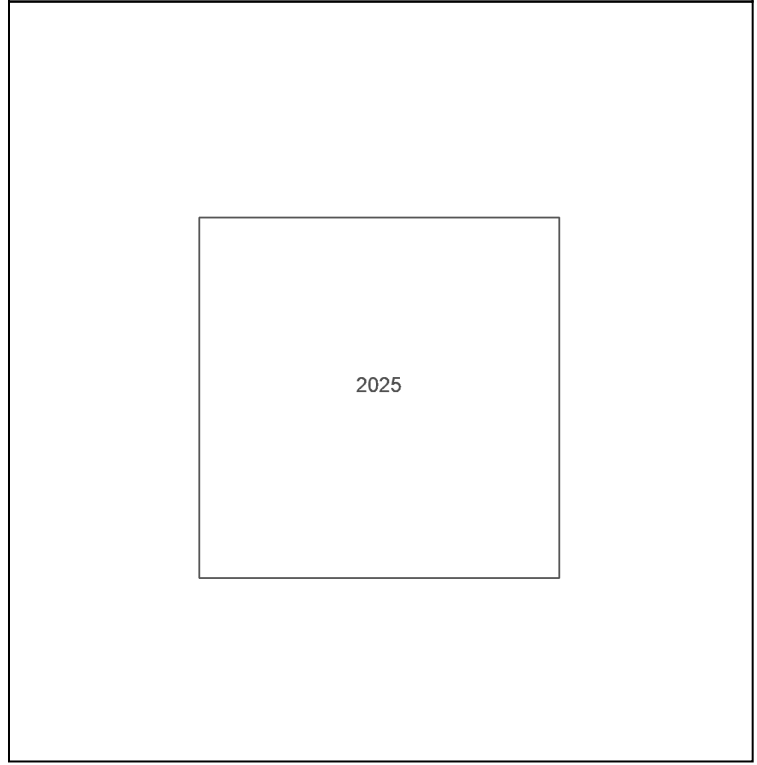


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Marsden Quarry

Client Ref: PO22
Report Ref: GS-5VC-D65-TLM-E8R
Grid Ref: 440399, 564070

Map Name: National Grid
Map date: 2025
Scale: 1:10,000
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