

Transport, Environment & Design

Zig Zag Quarry Conceptual Site Model

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Revision Schedule

Revision	Author	Description	Date
1	Jamie Howourth	Report issued as final.	05-Sep-24
2	Alex Large	Report updated with additional data including new boreholes BH01 to BH04 (Appendix K), ground gas and groundwater monitoring results (Appendix G).	08-Oct-25
3	Cat Richards	Report updated with additional data including further boreholes BH05 and BH06.	21-Nov-2025

1. Introduction

1.1 Commission & Background

- 1.1.1 Horizon Consulting Engineers Limited (Horizon) was commissioned by BT Jenkins Limited (BTJ) on behalf of the Operator (Harleyford Aggregates Limited) to prepare a Conceptual Site Model (CSM) report for Zig Zag Quarry, Kingskerswell, Newton Abbot, TQ12 5AT (“the Site” or “Zig Zag Quarry”).
- 1.1.2 The Site is currently permitted for a waste recovery operation (Environmental Permit reference: HB3705XG) however a variation is required to facilitate the final restoration of the Site to achieve Devon County Council (DCC) Planning Permission Reference DCC/4339/2023.
- 1.1.3 The overarching aim is to infill the void, restoring the Site to pre-quarrying levels. The Site is to be restored to a long-term end use of pastoral grazing fields separated by Devon hedge banks together with scrub and woodland habitats to perimeters and around the flood attenuation features to facilitate biodiversity net gain (relevant drawings from the Planning Permission are included in **Appendix A**).
- 1.1.4 Final quarrying and processing of indigenous materials is taking place with sand and gravel sold to the construction industry. Given the lack of suitable material on-Site to create a stable landform and associated growing medium, this report has been prepared to support the proposed transfer of suitable soil types conforming to European Waste Code 17 05 04 *soil and stones including chalk other than those mentioned in 17 05 03* to the Site.
- 1.1.5 The proposed development associated with Planning Permission DCC/4339/2023 was recently confirmed to be a waste recovery activity as set out within Horizon’s Waste Recovery Plan (WRP)¹ issued 15 April 2024 (henceforth referred to as the “2024 WRP”) and subsequent Environment Agency correspondence dated 22 April 2024. This WRP supersedes the Aardvark EM Ltd WRP² (henceforth referred to as the “2019 WRP”).
- 1.1.6 It is proposed to vary the existing Permit for the Site to support the continued restoration of the quarry in line with the 2023 restoration proposals. Note for the purposes of this report, “the Site” and distances quoted from “the Site” refer to the 2023 Planning Permission boundary noting that the Environmental Permit boundary is bigger however no operations or filling would be allowed to take place outside of the 2023 Planning Permission boundary.

1.2 Report Context & Previous Work

- 1.2.1 This CSM report has been prepared with reference to Environment Agency (EA) guidance³ on deposit for recovery activities. The CSM looks to establish background conditions at the Site such that appropriate information is available to develop risk assessments (e.g. Hydrogeological Risk Assessment (HRA), Stability Risk Assessment (SRA)) and engineering design for the Site.
- 1.2.2 This report has been updated (October 2025) to take into account Environment Agency feedback (email dated 10 January 2025, reference: EPR/HB3705XG/V003).

¹ Horizon (2024). Zig Zag Quarry. Waste Recovery Plan. Ref: HCE0269.WRP.Rev2, 15 April 2024.

² Aardvark (20 December 2019) Zig Zag Quarry Environmental Permit. Waste Recovery Plan. Ref: 1922-R001. Revision: FINAL 2

³ <https://www.gov.uk/guidance/landfill-operators-environmental-permits/plan-the-environmental-setting-of-your-site#conceptual-site-model> [Accessed 11 April 2024]

1.3 Report Structure

1.3.1 The remainder of this report is structured as follows:

- **Section 2** describes the existing Site setting;
- **Section 3** sets out the historical use of the Site, including details of the existing Environmental Permit;
- **Section 4** presents details of the proposed activity, including the approved restoration works, anticipated phasing and engineering design;
- **Section 5** presents details of the hydrology in the vicinity of the Site
- **Section 6** sets out the geological setting of the Site taking into account findings of ground investigations and historical observations;
- **Section 7** presents the hydrogeological setting of the Site taking into account findings of ground investigations and historical observations; and
- **Section 8** sets out details relating to identified man-made pathways at the Site;
- **Section 9** presents details of identified amenity (nuisance) receptors identified within the vicinity of the Site; and
- **Section 10** describes identified habitats and natural heritage receptors identified within the vicinity of the Site.

2. Existing Site Conditions

2.1 Data Sources

- 2.1.1 Horizon has reviewed planning documents obtained from DCC's Planning Portal plus documents submitted to the EA as part of the application for the existing Environmental Permit and a recent stability report by an Engineering Geologist:
- Zig Zag Quarry. Flood Risk Assessment and Surface Water Drainage Strategy. RMA Environmental Ltd. Ref: RMA-C2403, January 2023⁴ [Planning Document].
- 2.1.2 In addition to above, Horizon has obtained an up-to-date Envirocheck Report for the Site (Ref: 347366419_1_1, May 2024⁵) which is included in **Appendix B**. The report was prepared based on the 2023 Planning Permission boundary.
- 2.1.3 An Engineer from Horizon undertook Site walkover surveys on 17 November 2023 and 19 June 2024; photographs from the November visit are included in **Appendix C**.

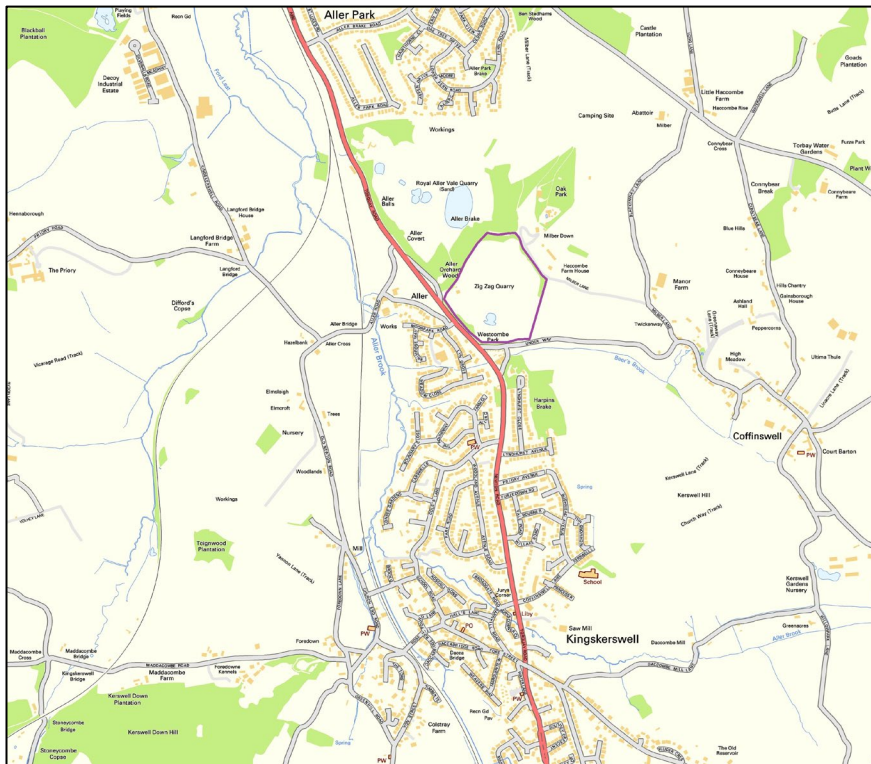
2.2 Site Setting

- 2.2.1 Zig Zag Quarry (the Site for the purposes of this report) is an existing sand and gravel quarry located approximately 2 km south-east of Newton Abbot and immediately north of the village of Kingskerswell. The approximate centre of the Site is located at grid reference: 288033E, 069043N. A Site Location Plan is included in **Appendix D (Drawing 0269.101)**.
- 2.2.1 The Aller Vale Quarry Silt Lagoons, located to the north of Zig Zag Quarry, form part of the existing permit boundary but are not part of the "Site" for the purposes of the 2023 Planning Permission. The majority of the Aller Vale Quarry has been restored with all but one of the historic silt lagoons reinstated. The remaining silt lagoon continues to be used for cleaning water from the processing plant on Zig Zag Quarry and is to be reinstated as a separate task to be addressed at a later stage once final aggregate processing has been completed at Zig Zag Quarry.
- 2.2.2 To reiterate, where this report refers to "the Site", this refers to the Site as per the 2023 Planning Permission. Notwithstanding this there is no intention to amend the permit boundary as part of this permit variation.
- 2.2.3 Plans showing sensitive receptors within the vicinity of the Site are included in **Appendix D (Drawing 0269.102 and Drawing 0269.111)**.
- 2.2.4 The Site occupies an area of approximately 9.44 hectares and is bound by Torquay Road to the west and Under Way to the south. The Yew Tree Walk forms the eastern and northern border of the Site.
- 2.2.5 The Site comprises one void which slopes down from the north and east to a low point at the Site entrance in the west. The contour plans (see **Appendix A**) show existing ground levels drop steadily around the perimeter of the Site from a high point of circa 87 m AOD in the north-east corner. The most northerly point is at an elevation of circa 65 m AOD, with the entrance in the west of the Site at an elevation of circa 34 m AOD.

⁴ RMA Environmental (20 January 2023) Flood Risk Assessment and Surface Water Drainage Strategy. Zig Zag Quarry

⁵ Landmark (2024). Envirocheck Report. Zig-Zag Quarry. Ref: 347366419_1_1, May 2024

- 2.2.6 Images showing the Site from afar are included in **Appendix E**. These images are reproduced from the Landscape and Visual Impact Assessment (LVIA⁶) prepared by Swan Paul Associates and submitted as part of the Planning Application.
- 2.2.7 The Site continues to operate as a sand and gravel quarry in accordance with the existing 2016 Planning Permission (Reference: 16/01477/DCC). Processing of previously extracted material (currently stockpiled in the centre of the Site) was ongoing at the time of Horizon's walkover survey on 17 November 2023.
- 2.2.8 A Site location map is provided as **Figure 2-1** with the approximate Site boundary shown in purple. For the purposes of this permit variation, the existing permit boundary is to remain unchanged, however it is noted that the additional material is to be deposited within Zig-Zag Quarry only (see location plan in **Appendix D (Drawing 0269.101)**).



Contains Ordnance Survey data © Crown Copyright and database right 2025
Figure 2-1: Site Location Plan

2.3 Waste Recovery Plan & Environmental Permit

- 2.3.1 The 2019 WRP¹ was approved by the EA on 23 December 2019 (EA Letter Reference: EPR/HB3705XG/A001) with an Environmental Permit (reference: EPR/HB3705XG) subsequently granted on 01 December 2021.
- 2.3.2 The 2019 WRP¹ enabled the partial infilling of Zig Zag Quarry, plus the silt lagoons associated with Allers Quarry to the north, to meet the restoration requirements as per the 2016 Planning Permission. Along with available indigenous material, a total of 285,000 tonnes of suitable material was approved for import in 2019 to support restoration works.

⁶ Swan Paul Associates (2023) Zig Zag Quarry. Landscape and Visual Impact Assessment.

- 2.3.3 The import of suitable material has been undertaken both under the CL:AIRE DOWCOP⁷ scheme and the existing Environmental Permit with reference to the approved quantities in the 2019 WRP¹. The import of material under the CL:AIRE DOWCOP is reported in a standalone Verification Report⁸.
- 2.3.4 As set out in Section 1.1 of this report, the 2024 WRP supersedes the 2019 WRP. This CSM report has been prepared as application to vary the existing Environmental Permit to enable the 2023 restoration proposals to be undertaken.

2.4 Site Context & Surrounding Land Uses

- 2.4.1 The Site is situated in a semi-rural area between the towns of Kingskerswell to the south and Newton Abbot to the north. The land-use to the east and west is predominantly agricultural.
- 2.4.2 The Site is accessed off Torquay Road, which is an ancillary road that joins the A380, 500 m north-west of the Site, which links the towns of Kingskerswell and Newton Abbot. A public right of way currently borders the Site along the north-western boundary.
- 2.4.3 **Table 2-1** below summarises the surrounding land uses as illustrated on **Drawings 269.102** and **269.111** in **Appendix D**.

Direction From Site	Approximate Distance and Description
North	To the north of the Site are the historical silt lagoons and workings of Royal Aller Vale Quarry. This is predominantly surrounded by woodland. Within the remains of the quarry workings there is a large silt lagoon. There are isolated properties including a small farm shop 150 m north-west. The main suburb area of the southern extent of Newton Abbot is located 500 m north. A small concrete batching plant is located 450 m north.
East	Minor residential properties located immediately to the east. Agricultural fields beyond.
South	Immediately south lies the town of Kingskerswell
West	There is a small café adjacent to the west of the Site. Further west lies the northern extent of Kingskerswell in addition to a pub and some minor commercial properties.
Notes: Distances are approximate	

Table 2-1: Land Uses in the Surrounding Area

2.5 Application Boundaries

- 2.5.1 The permit boundary is to remain the same as part of this permit variation however the approved 2024 WRP¹ only covers Zig Zag Quarry with material to only be deposited within the 2023 Planning Permission boundary. The boundary is shown on the Site Location Plan (**Drawing 0269.101**) and Site Infrastructure Plan in **Appendix D (Drawing 0269.103)**.

⁷ CL:AIRE (March 2011) The Definition of Waste: Development Industry Code of Practice. Version 2

⁸ Horizon (July 2021) Zig Zag Quarry. DOWCOP Verification Report. Ref: HCE0269.VR.Rev1

3. Source: Site History

3.1 Historical Use of the Land

- 3.1.1 The Site history has been assessed based on Ordnance Survey historical maps from various scales (reproduced in **Appendix F**) and Google Earth aerial imagery.
- 3.1.2 **Table 3-1** below summarises key features on-Site and immediately adjacent to the Site from historical mapping (Note: distances quoted are from the 2023 Planning Permission boundary).
- 3.1.3 In summary, the Site was historically agricultural fields and woodland from at least 1888 with a small sand pit feature in the west of the Site. The main quarry workings were established on-site and adjacent to the north from the 1930s onwards. The quarry workings on-Site and surrounding area have expanded throughout the 20th Century until restoration has been completed in some areas from the 2000s onwards. Quarrying and material processing continues on-Site.

Feature	Date of OS Map Feature Identified		Location	Description
	First	Last		
Old Sand Pit	1888	2024	On-Site	The quarry started off as an old sand pit and has been present on historical mapping since 1888.
Aller Orchard Wood	1888	2024	On-Site	The woods have been cleared as part of the expansion of the quarry with only a small part remaining.
Agricultural Fields	1888	2006	On-Site	The fields have been cleared as part of the expansion of the quarry.
Aller Vale Potteries	1889	1938	80 m south-west	An old pottery works was historically present before being repurposed as a mill / coat factory.
Manure Works	1889	1938	250 m west	A historical manure works was present within the village of Aller
Garage	1937	2024	80 m south	A garage which is now partly a motorhomes sales place is present on Newton Road to the south of the Site. The garage was historically a fuel station and service centre.
Aller Vale Mill (Coat Factory) / Works	1955	1960	80 m south-west	More modern buildings for industrial use are present on the site of the former factory.
Zig Zag Quarry	1955	2024	On-Site	Zig Zag Quarry first recorded on mapping from 1955. Expansion of old sand pit.
Hacombe Farm	1995	2024	50 m north-east	A small farm is present to the north-east of the Site.
Residential Development	1966	2024	50 m south-west	The majority of the residential development of the immediate area was carried out in the 1960s.
Royal Aller Vale Quarry	1974	2024	Adjacent north	The quarry adjacent to the north first appeared on historical maps from 1974 onwards.

Table 3-1: Summary of Key Features from Historical Mapping

- 3.1.4 Based on the above, minor off-Site contamination sources have been identified on historical mapping. In particular, off-site quarry workings, pottery and coat factory, manure works and a car service garage / fuel filling station.

3.2 Previous Planning Permissions

- 3.2.1 The Site is known to have extracted material since 1947 (Devon County Minerals Local Plan⁹). An extension to the Planning Permission was granted in 1972 covering land to the north-east of the quarry. More recently the Site's Planning Permission has been updated in 2001, 2016 and 2023, as summarised in **Table 3-2** below.

Date	Ref.	Description
2001	DCC/0640/2000	Permission was granted in 2001 to extend the mineral workings at the Site plus provide for extraction of additional areas of sand and gravel together with subsequent reinstatement of the worked-out Site.
2016	DCC/3841/2016	Continuation and extension of mineral extraction and processing to allow for an additional 500,000 tonnes of sand and gravel. Revised progressive restoration requiring the importation of 285,000 tonnes of inert waste material over a 5 year period. Diversion of a bridleway with the construction of a new permanent route – Ref DCC/3841/2016 Additional related consents to discharge conditions were submitted and approved in 2016 and 2017.
2023	DCC/4339/2023	Importation of inert waste for the purpose of filling the void as part of the restoration scheme following the future cessation of quarrying activities at Zig Zag Quarry, Aller Brake Road, Newton Abbot, Devon, TQ12 5FN.

Table 3-2: Recent Planning Permissions

3.3 Waste Exemptions

- 3.3.1 There are currently no waste exemptions registered to the Site.

3.4 Waste Facilities

- 3.4.1 **Table 3-2** below summarises active and historic waste management facilities / landfills within a 1 km radius of the Site.

Site	Location	Status	Description
Colesville Quarry	361 m north-west	Surrendered March 1996	Issued March 1991. Deposited Devon Cat A: Inert Waste.
Decoy, South Quarry	853 m west	Assumed surrendered	Issued September 1983. Deposited inert waste including household waste, construction and demolition waste and asbestos.
Craxford's	925 m south-west	Operational under restrictions	Issued March 1991. Deposited Devon Cat A: Inert Waste, Devon Cat B: General Waste, Devon Cat C: Putrescible Waste. New permit for inert waste issued in 2005

Table 3-3: Adjacent Waste Management Activities

⁹ Devon County Council (June 2004) Devon County Minerals Local Plan, Adopted Plan: Part B

3.5 Pollution Incidents

- 3.5.1 There are three historical records of pollution incidents recorded on the Envirocheck report in relation to the Site. All three (November 1991, September 1992 and December 1993) were classified as Category 3 incidents, described as runoff quarry water to a freshwater stream (noted as inadequate capacity), or due to mechanical / electrical plant failure.

4. Source: Proposed Activity

4.1 Restoration Proposals

4.1.1 Due to the topography of the Site, the quarry was worked from a south to north direction on a number of wide benches. This resulted in steep faces / slopes on the north and eastern edges of the quarry. These act as high walls to voids in the centre of the Site. To ensure stabilisation of these slopes on the outer edges, the 2016 restoration plan envisaged the backfilling the voids to create a series of stepped platforms towards the highest part of the hillside in the east.

4.1.2 The 2016 Planning Permission allowed for the ongoing use of the Site as an operational quarry with extraction and processing of an additional 500,000 tonnes of sand and gravel over a ten-year period. In addition, the 2016 Planning Permission allowed for the importation of 285,000 tonnes of inert waste material to Zig Zag Quarry to act as stabilisation material and to create a medium for planting activities.

4.1.3 Zig Zag Quarry is now also subject to Planning Consent DCC/4339/2023, which was granted by DCC on 03 July 2023. The approved 2023 restoration scheme requires the import of 1.5 million tonnes of inert wastes to in order to provide a safe and stable landform that is in keeping with the surrounding landscape. Drawings from the 2023 Planning Permission are included in **Appendix A**. The following observations are made:

- The 2023 restoration scheme changes the restoration and aftercare proposals at the Site. For example, the 2016 restoration scheme provided for a step-down profile from Milber Lane to the base of the quarry. This is no longer the case on the basis that the retail sales area and plant site will no longer be retained (it was originally envisaged this area would be used for the continued import and sale of construction material to the general public);
- The 2016 restoration scheme excluded the eastern side of the quarry; this is no longer the case with the 2023 restoration scheme;
- The 2023 restoration scheme looks to reverse the decline in agricultural practices, particularly species rich grassland and Devon hedge banks. The 2023 restoration scheme will facilitate the long-term use of the Site for an economically beneficial purpose (pastoral farming); and
- Works associated with the 2023 restoration scheme are planned to take place in three phases, over a circa ten-year period.

4.1.4 All material used for the purposes of the restoration works is required to meet the following waste codes as per the original permit:

Waste Code	Description
01 04 08	Waste gravels and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
17 05 04	Soil and stones other than those mentioned in 17 05 03

Table 4-1: Waste Codes

4.2 Properties of the Fill Material

4.2.1 **Table 4-2** below summarises the key parameters associated with the imported fill.

Parameter	Discussion
Nature of Material	Waste compliant with EWC codes in Table 4-1 above. Predominantly 17 05 04.
Chemistry	Assumed that all materials will be not hazardous, classified with reference to current technical guidance on the classification of waste.
Grain Size	The fill material is anticipated to be predominantly fine-grained with gravel, cobble and boulder size fragments meeting the above definitions.
Moisture Content	The fine-grained material within the imported soils is likely to have a relatively high moisture content at the time of placement and compaction due to stockpiling and rainfall prior to import.
Compaction	The imported soils will be directly placed. It is assumed that the fill will be compacted by the action of trafficking by plant required to bring the material into the void and to spread it into reasonably uniform layers. Surcharging load generated from overlying imported soils will provide further consolidation pressure, thereby minimising the air voids and permeability of the placed material.
Permeability	The permeability of the fill material is expected to be relatively low as a result of the clay content in the material imported plus the effect of surcharging by the overlying fill material consolidating the underlying fill, thereby reducing its permeability.

Table 4-2: Fill Material Properties

4.3 Sources of Pollution

4.3.1 Based on the restoration proposals and the properties of the imported material to be used, the potential for contamination is considered to be low. Imported material is to be inert with stringent waste acceptance procedures and therefore will have limited potential for leachate or landfill gas to be generated.

4.3.2 Baseline ground gas monitoring has been undertaken from 4No. boreholes located around the perimeter of the Site (see Section 6.6 for further details of borehole installation). The results of the monitoring are summarised in **Table G01 (Appendix G)**. The following observations are made on the available dataset:

- Monitoring has been conducted over a nine-month period, comprising 9No. gas monitoring events; additional monitoring is planned until the permit is surrendered. The weather conditions were typically good; with the lowest atmospheric pressure of 1,002 mb recorded during the visit on 07 November 2025.
- Flow rates were generally low with BH01 and BH02 displaying the highest values. BH01 had a peak rate of 2 l/hour and a steady rate of 0.3 l/hour. Whereas BH02 had a higher sustained flow with a peak rate of 0.8 l/hour and a steady rate of 0.6 l/hour.
- Methane was not detected above the instrument limit of detection in any of the boreholes.
- Carbon dioxide was detected up to a maximum of 45.2 % in borehole BH02. Typically, higher concentrations were detected in the boreholes to the south-west of the site within the quarry, as opposed to boreholes BH03 and BH04 located hydraulically upgradient.

4.3.3 Moving forwards, monitoring will also include two additional boreholes BH05 and BH06 located in the centre of the Site, albeit down slope of where soils have been placed to date. These boreholes will be monitored during infilling, until the point they are lost as part of the restoration works.

4.4 Post-Restoration Management

4.4.1 No long-term management measures (e.g. leachate control) are planned. Fill imported for restoration purposes will be restricted to materials that are inert with a low level of contamination based on rigorous Site-specific pre-acceptance and on-Site inspection procedures.

5. Pathway & Receptor: Hydrology

5.1 Rainfall & Drainage

- 5.1.1 Data on rainfall for the Site is based on the Met Office Teignmouth weather station which is located 7 km to the north-east of the Site¹⁰.
- 5.1.2 Based on a period between 1991 and 2020, the average rainfall for the area is predicted as 873 mm which is 8% higher than the average for the UK for that period.
- 5.1.3 The current drainage design (as approved by the 2023 Planning Permission) is based on two attenuation ponds located at the base of the slopes to capture any surface water run-off. Overflow from these ponds discharges via a private 150 mm pipe into Torquay Road as described within the Flood Risk Assessment (FRA)⁴:

“The existing surface water drainage for Zig Zag Quarry discharges private 150 mm pipe into the Devon County Council (DCC) Highway’s system and ultimately into Moorpark Brook. The construction of the Kingskerswell Bypass is considered to have disturbed this pipe, and a new pipe network may have been established. However, DCC Highways have not provided any details of the new pipe network”

- 5.1.4 As part of the proposed restoration, a new connection in Torquay Road is to be established for overflow from new attenuation ponds, however the Site Owner is considering updating the long-term drainage design (this is described further in the ESSD). No change is proposed to the drainage design during the operational phase.

5.2 Local Water Features

- 5.2.1 A plan showing water features within the area is included in **Drawing 0269.104** in **Appendix D**.
- 5.2.2 The Site falls on the boundary between the Aller Brook (upper) and Aller Brook (lower) water catchment.
- 5.2.3 The nearest surface watercourse to the Site is the Beer’s Brook located approximately 50 m south of the Site at its closest point. This is a relatively short watercourse that runs east to west, draining to the Aller Brook approximately 300 m to the south-west.
- 5.2.4 In addition to the above, there is a smaller watercourse (described as “Moorpark Brook” within the FRA⁴) located 150 m west of the Site which also drains towards the Aller Brook.

5.3 Flood Risk

- 5.3.1 The EA Flood Map for Planning¹¹ shows that the Site lies entirely within Flood Zone 1.
- 5.3.2 The EA’s surface water flood risk map identifies that the Site has a very low risk from surface water flooding.

5.4 Surface Water Quality

- 5.4.1 There is no site-specific water quality data available for the Site or immediate surrounding watercourses, other than data obtained as part of the Environmental Permit.

¹⁰ <https://www.metoffice.gov.uk/research/climate/maps-and-data/uk-climate-averages/gbv83wwx>

¹¹ <https://flood-map-for-planning.service.gov.uk/> [Accessed 30 May 2024]

- 5.4.2 The Aller Brook (upper) and (lower) have “good” and “moderate” ecological classification and physico-chemical quality is currently classified as “good”¹².
- 5.4.3 Surface water samples from both upstream and downstream of the Site on the Aller Brook as part of the existing Environmental Permit have been obtained. These are reproduced in **Tables G02** and **G03**, (**Appendix G**). Locations are shown on the Monitoring Point Plan (**Drawing 0269.105A**) in **Appendix D**.
- 5.4.4 The results of the water sampling show relatively consistent results between the two sampling locations with some minor variation. This is discussed further in the HIA¹².

¹² <https://environment.data.gov.uk/catchment-planning/WaterBody/GB108046005330> [Accessed 30 May 2024]

6. Pathway & Receptor: Geology

6.1 Solid Geology

- 6.1.1 An overview of the geological features is included in **Drawing 0269.106** in **Appendix D**.
- 6.1.2 BGS mapping¹³ indicates the quarry is primarily underlain by the Aller Gravel Formation. This is described within BGS records as *“10-20cm-thick beds of lenticular-bedded abraded flint and chert gravels, with subordinate, red-mottled silts and clays, coarse, angular, flinty gravelly clayey sand, with some cross-bedded coarse sand, lenticles of white clayey sand and reddish-brown coarse sand. Locally finer-grained, more distinctly bedded flint gravels overlie the coarse gravels. The unit is interpreted to have been deposited by braided streams; the source is postulated to have been the Dartmoor highlands (Selwood and others, 1984; Cope et al., 1992), The constituents of the gravel vary locally, and may contain some or all of the following: flint, quartz and tourmaline rock, Greensand chert, Lower Carboniferous chert, Upper Carboniferous sandstone, white rounded clay clasts, vein quartz, dark grey hornfels and tuff.”*
- 6.1.3 These are underlain on an unconformable surface by the Upper Greensand Formation which according to BGS is approximately 20 m thick in the Bovey Basin area. This formation is described as *“sand and sandstone, fine-grained, silt, glauconitic, shelly”*.
- 6.1.4 A northwest-southeast trending fault (Torbay Fault) is shown to be present along the western boundary of the existing quarry. The Aller Gravel is shown to be dipping to the south-west at a shallow angle of approximately 10° west southwest within the footprint of the site. These strata dip towards the Torbay Fault.
- 6.1.5 To the west of the Torbay Fault lies Permian bedrock of the Oddicombe Breccia Formation and Watcombe Breccia Formation, part of the Exeter Group; and sand, silt and clay of the Bovey Formation. The Oddicombe Breccia Formation is also present adjacent to the south of the Site.

6.2 Superficial Geology

- 6.2.1 BGS mapping¹³ indicates that superficial deposits in the form of alluvium are present immediately adjacent to the south of the Site, associated with Beer's Brook.

6.3 Borehole Records

- 6.3.1 The nearest BGS borehole to the Site is located adjacent to the south-eastern boundary at NGR 288150E 68830N.
- 6.3.2 The borehole record describes to the underlying geology of the Oddicombe Breccia Formation to comprise *“firm dark red friable silty clay with coarse sand to gravel sized platy rock fragments”*. Between 4.6 m and the base of the hole (24 m) the geology is described as *“stiff dark silty clay with largely fine to coarse grained sized fragments of limestone, sandstone, basalt and vein quartz...”* Groundwater was encountered at 2.0 m depth.

¹³ www.bgs.ac.uk [Accessed 30 May 2024]

6.4 Geo Consulting Engineering Ground Investigation

- 6.4.1 An investigation was carried out by Geo Consulting Engineering (GCE) in October 2015 primarily to inform drainage for the Site as part of the 2016 Planning Permission. The investigation comprised 7No. trial pits (TP1 to TP5 plus TP2A and TP3A) carried out to depths of between 1.2 and 2.5 m below ground level (m bgl).
- 6.4.2 The investigation locations were predominantly in the south-east of the Site and are shown on the Exploratory Hole Plan in **Appendix D (Drawing 0269.107)**. Infiltration testing was carried out in each trial pit with the results summarised in the 2016 FRA¹⁴ however the testing was unsuccessful (i.e trial pits did not drain over a 24-hour period).
- 6.4.3 The trial pit logs are reproduced in **Appendix H**. The ground conditions were reported to comprise Made Ground, a slightly sandy gravelly clay, to depths of between 0.7 and 1.2 m. The Made Ground also contained flint cobbles and boulders.
- 6.4.4 Natural soils, interpreted to be Head Deposits, were encountered beneath the Made Ground and were also cohesive in nature comprising a similar matrix of clay, gravel and cobbles. Silty fine sand of the Upper Greensand Formation was encountered in locations TP3A and TP5 although this interpretation by GCE was speculative as indicated by the “?” on the trial pit logs.

6.5 Horizon Ground Investigation (June 2024)

- 6.5.1 An investigation was carried out by Horizon on 19 June 2024 to provide additional data on the ground conditions at the Site. The investigation comprised 6No. machine-dug trial pits to depths of between 2.7 and 3.6 m bgl.
- 6.5.2 The trial pits were located for general coverage across the Site taking into account site constraints and are shown on the Exploratory Hole Plan in **Appendix D (Drawing 0269.107)**.
- 6.5.3 The trial pit logs are included in **Appendix I** with photographs showing the ground conditions included in **Appendix J**. A summary of the ground conditions encountered is included in **Table 6-1** below:

Lithological Unit	Locations Encountered	Depth to Top (m)	Depth to Base (m)	Description
Made Ground (Site-won)	HTP01, HTP02, HTP05 and HTP06.	0	1.5 – 3.0*	Consistent in nature, granular with a silty sandy matrix, typical descriptions: Orange silty gravelly fine to coarse SAND. Gravel is fine to coarse angular to well-rounded flint. Occasional cobbles and boulders. Orangish brown COBBLES and BOULDERS of well-rounded to sub-angular flint. Rare anthropogenic materials-plastic.
Made Ground (Imported Restoration Soils including Topsoil)	HTP03 and HTP04	0	1.40*	Brown sandy gravelly CLAY with low to medium cobble content. Occasional gravel and roots. Cobbles are angular to well-rounded flint.
The Aller Gravel Formation	HTP01, HTP04, HTP05 and HTP06	0 – 2.7	2.7* - 3.60*	Orange and black very gravelly very cobbly SAND with occasionally boulders. Sand is fine to coarse; gravel is angular to well-rounded flint.
Notes: * - Base not proven				

¹⁴ Teign Consults (2016). Zig Zag Quarry. Level 2 Flood Risk Assessment & Surface Water Drainage Proposals. Ref: 446/FRA2 V2

6.5.4 Two types of Made Ground soils were encountered:

- **Made Ground (Site-won):** indigenous material from the Site (assumed to be the Aller Gravel Formation) has been used to make up levels and create access roads. This is predominantly granular material with a silty sandy matrix. This was encountered in locations HTP01, HTP02, HTP05 and HTP06.
- **Made Ground (Restoration soils):** imported material placed and compacted as part of previous the restoration works. This is predominantly a layer of topsoil (generally 0.5 m in thickness) overlying cohesive soils. This was encountered in trial pits TP03 and TP04.

6.5.5 Natural soils of the Aller Gravel Formation were encountered beneath the Made Ground in all trial pits with the exception of trial pit TP03 where a large thickness of restoration soils meant that the depth of natural soils was beyond the reach of the excavator. The natural soils were of similar composition to the Site-won Made Ground and often difficult to distinguish with the Made Ground. The only difference of note was the presence of cohesive whiteish grey silty clay encountered towards the base of trial pits TP04 (present as nodular clasts) and TP05 (present as a lenticular band). This is concurrent with the BGS description of the formation (see 6.1.2).

6.5.6 Other general geological observations are described below with the aid of anecdotal evidence provided by the current Site operator who was present during the ground investigation:

- The quarry has been worked to almost the full depth of the Aller Gravel Formation in most areas of the Site. Anecdotally, exploratory hole trial pits were often carried out at the Site to determine the areas for mineral extraction. At the base of the existing quarry, the Upper Greensand Formation is often encountered using conventional plant and excavators. The Upper Greensand Formation is not of interest from a quarrying perspective due to the high silt / clay content and is visually distinct from the Aller Gravel Formation.
- The thickness of the Aller Gravel Formation and Upper Greensand Formation “thins” southwards across the Site as shown on geological maps. Anecdotally, the quarry manager reports “the Breccia” to be present near the surface at the southern extent of the Site and the Aller Gravel Formation to be “shallow” in thickness there.
- Fine grained material (i.e clay) that is washed out of the quarried material has historically been placed in the southern area of the Site adjacent to and beneath the existing settlement lagoon.
- A large deposit of topsoil is placed along the southern boundary of the Site.
- Groundwater ingress has not historically been an issue for the Site operations. The Site manager reports that during periods of heavy rainfall, rain can be seen to permeate through the granular layers of the Aller Gravel Formation (i.e. side slope exposures in the north and west of the Site) and “seep” out when the water hits the clay layers. This process “etches” out some of the exposed geology as shown in Photograph 14 of **Appendix J**.

6.6 Groundwater Monitoring Boreholes (March 2025)

6.6.1 In March 2025 four boreholes were drilled at the Site to enable monitoring of groundwater quality upgradient and downgradient of the Site. The exploratory hole logs provided by the Drilling Contractor are included in **Appendix K** with the exploratory hole locations shown on **Drawing 0269.107 (Appendix D)**.

- 6.6.2 Sand and gravel of the Aller Gravel Formation were encountered in both upgradient boreholes (BH03 and BH04). In borehole BH03 the Aller Gravel Formation was proven to a depth of 32.5 m, underlain by deposits interpreted to comprise the Upper Greensand Formation. The full thickness of Upper Greensand Formation was not proven in borehole BH03 (drilled to a depth of 52 m). In borehole BH04 the Aller Gravel Formation was proven to 12.5 m, underlain by red sands and compact gravel, interpreted to comprise the Oddcombe Breccia Formation (proven to a depth of 48 m).
- 6.6.3 Sand and gravel of the Aller Gravel Formation was also encountered in both downgradient boreholes, proven to 12.5 m depth in both boreholes, overlying deposits interpreted to comprise the Upper Greensand Formation.

6.7 Groundwater Monitoring Boreholes (November 2025)

- 6.7.1 In November 2025 two additional boreholes (BH05 and BH06) were drilled at the Site to investigate the extent of chloride impacts identified in borehole BH02. The exploratory hole logs logged by a Horizon engineer are included in **Appendix K** with the exploratory hole locations shown on **Drawing 0269.105B (Appendix D)**.
- 6.7.2 The general sequence in both boreholes comprised Made Ground overlying sand and gravel of the Aller Gravel Formation overlying the Upper Greensand Formation. The Made Ground was interpreted by Horizon to comprise indigenous material from the Site.
- 6.7.3 The sand and gravel of the Aller Gravel Formation was proven to a depth of 9.5 m bgl in borehole BH05, and to a depth of 10 m bgl in borehole BH06. Both underlain by the Upper Greensand Formation, the full thickness of which was not proven in either borehole.
- 6.7.4 Groundwater strikes were recorded in both boreholes. In borehole BH05 groundwater was first encountered at 6.5 m bgl, then at 11 m and 14.3 m. In BH06 a groundwater strike was recorded at 14.5 m bgl.

7. Pathway & Receptor: Hydrogeology

7.1 Regional Setting

7.1.1 A summary of the aquifers present within the vicinity of the Site is provided in the table below:

Geology	Designation	Description
Upper Greensand Formation	Principal Aquifer	These are layers of rock or drift deposits that have high intergranular and/or fracture permeability – meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.
Alluvium	Secondary A Aquifer	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.
Exeter Group (Wattcombe Breccia Formation and Oddicombe Breccia Formation)		
Bovey Formation		
Aller Gravel Formation		

Table 7-1: Summary of Regional Aquifers Present

7.1.2 The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater SPZs within 1 km. The Site is not located in a nitrate vulnerable zone (from a groundwater perspective). Groundwater vulnerability for the Site (based on regional 1:100,000 scale mapping) is considered to be high due to the Principal Aquifer and Secondary A Aquifer status of the bedrock geology.

7.2 Aquifer Properties

7.2.1 Information regarding properties of the aquifers has been sourced from the JH Groundwater HIA¹³:

- **Aller Gravel Formation.** Little published data available for the Aller Gravel Formation.
- **Upper Greensand Formation.** The BGS Major Aquifer Properties Manual¹⁵ states that the Upper Greensand is generally a poor aquifer. The aquifer is described as showing “*great lithological variety, but the facies are generally fine grained, calcareous and glauconitic. The sands can be cemented forming ‘malmstone’; a pale coloured rock containing abundant sponge spicules and a high proportion of colloidal silica, calcareous material and some clay and mica.*”

The BGS notes that flow within the Upper Greensand is both intergranular and through fractures depending on the degree of cementation with the lithological variety within the Upper Greensand resulting in hydrogeological complexity. Where poorly consolidated, flow is generally intergranular. The ‘malmstone’ however can act inconsistently: it has negligible primary porosity and permeability and can therefore act as a barrier to groundwater movement forming spring lines. Where the ‘malmstone’ is fractured however, the permeability can be quite high.

¹⁵ British Geological Survey (1997) The Physical Properties of Major Aquifers in England and Wales. Ref: WD/97/32

There is limited data on transmissivity values for the Upper Greensand with limited pumping tests conducted in the Upper Greensand alone. The BGS¹⁵ reports transmissivity values from the Upper Greensand vary from 2 m²/d to 300 m²/d, although they are commonly less than 10 m²/d.

- **Exeter Group.** The Permian breccias have variable transmissivities, generally less than 300 m²/d and often of the order of 50 m²/d, depending on fracturing. The ratio of intergranular to fracture flow is considered to be variable. There is a high component of fracture flow in all areas, but this varies from around 30% to the total yield at a well.

7.3 Groundwater Levels & Flow Direction

7.3.1 Groundwater elevation data for the six boreholes is presented in **Table G04 (Appendix G)** with two groundwater contour plots included as **Drawing 0269.110** and **Drawing 0269.113 (Appendix D)**. Groundwater is typically circa 30 m below ground level (bgl) at the top (north and east) of the Site, reducing to approximately 14.5 m bgl in the centre of the Site before reducing further to 5 m bgl along the eastern boundary of the Site.

7.3.2 Groundwater elevation data indicates flow in a south-westerly direction, consistent with local topography.

7.4 Groundwater Abstractions

7.4.1 Details of key abstractions are summarised in the table below based on information supplied within the Envirocheck report.

Licence Number	Grid Reference	Estimated distance from the Site (m)	Operator	Details
14/46/003/0047	287600 69500	453 north-west	Hanson Quarry Products Europe Ltd	Royal Aller Quarry & Zig-Zag Quarry. For use within processing of mineral. [Note: despite distance from Site, the details suggest this is in close proximity to the Site and from the Upper Greensand Formation or Aller Gravel Formation]
14/46/003/0112	289100 68500	975 south-east	Mr S R Lancaster	Lands At Court Barton Farm, Coffinswell. Assumed minor abstraction for farm use.

Table 7-2: Summary of Groundwater Abstractions

7.4.2 Beyond this, the next nearest abstraction relates to an abstraction for industrial use / cooling at a supermarket 1.5 km to the north-west.

7.5 Groundwater Quality

7.5.1 Groundwater quality data from the four boreholes installed at the Site is presented in **Appendix G (Table G05 to G10 inclusive)**. At the time of issuing this report, 9No. monitoring rounds have been completed between March 2025 and November 2025.

7.5.2 The following observations are made regarding groundwater quality:

- In general contaminant concentrations were low. Of note Extractable Petroleum Hydrocarbons (EPH) and total phenols were not detected above the laboratory reporting limit (LRL) in any of the samples tested. Ammoniacal nitrogen was typically detected close to or below the LRL in all samples tested;
- Chloride concentrations in borehole BH02 were notably higher than other boreholes, up to a maximum of 1,036 mg/l (July 2025 sample). A maximum of 49.5 mg/l was detected in the water samples from the other three boreholes; and

- A single elevated concentration of total chromium was recorded in the sample from borehole BH02 on 02 July 2025. Additional testing and QA checking by the laboratory confirmed this comprised chromium III, with chromium VI reported below the LRL. This result is considered to be an outlier based on the existing dataset.

7.5.3 Boreholes BH05 and BH06 are not sentinel wells, rather were installed specifically to evaluate the extent of the chloride impact previously detected in borehole BH02. These two boreholes are located hydraulically upgradient of borehole BH02 and hydraulically downgradient of existing restoration soils placed to date. At the time of issuing this report limited testing has been undertaken in boreholes, BH05 and BH06 with further monitoring planned over the coming months. Elevated chloride (nor other contaminants) has not been detected in the water samples from these boreholes to date, indicating that the chloride impact in borehole BH02 is isolated to that area of the Site and is not associated with the import and placement of waste soils to date.

8. Man-Made Subsurface Pathways

8.1 Summary

- 8.1.1 No man-made subsurface pathways are present on-Site other than the presence of minor utilities that would serve the processing area and Site compound. Given the minor nature and shallow presence, they are not expected to be an influence on pathways for contamination.
- 8.1.2 It is noted that overflow from an existing attenuation pond is piped southwards towards Torquay Road as discussed in Section 5.1.3.

9. Receptors: Amenity (Nuisance)

9.1 Sensitive Features in Relation to the Site

- 9.1.1 The main sensitive land uses / potential receptors identified within a 1 km radius of the Site that may be affected by the works at the Site are shown in **Table 9-1** below and shown on the Sensitive Receptors Proximity Plan in **Appendix D (Drawing 0269.102)**.

Receptor	Receptor Type	Location
Priority Habitat – Deciduous Woodland	Ecological	Adjacent to the Site – patches of deciduous woodland are located adjacent to the west and north of the Site
Public Bridleway	Recreational	Adjacent to the north of the Site – follows northern boundary of Site
Café	Commercial	Adjacent to the west of the Site
Town of Kingskerswell (Residential Properties)	Residential	Main town of Kingskerswell adjacent to the south of the Site
Isolated residential properties and local farmsteads.	Residential	Various with the nearest located adjacent to the north-east of the Site.
Beer's Brook	Ecological	50 m south.
Static caravan park	Residential / Leisure	50 m south.
Caravan dealership	Commercial	75 m south.
Farm and Farmshop	Commercial	150 m north-west
Minor commercial / industrial units	Commercial	100 m south-west and 170 m west
Priority Habitat – Coastal and Floodplain Grazing Marshland	Ecological	200 m west
Aller Brook	Ecological	300 m south-west
Railway Line	Infrastructure	300 m west
Priority Habitat – Traditional Orchard	Ecological	400 m east
Concrete batching plant	Commercial	500 m north
Kingskerswell Church of England School	Educational	850 m south
Buckland Athletic Football Club	Leisure	900 m north-west
Village Hall and Community Centre	Educational / Recreational	900 m south

Table 9-1: Sensitive Receptors

- 9.1.2 A risk assessment looks to identify possible relationships between contaminants, pathways and receptors and is used to identify relevant contaminant linkages that may warrant further assessment and/or remedial actions.
- 9.1.3 A standalone Environmental Risk Assessment has not been prepared for this project however a summary risk assessment table based on a generic risk assessment for a Standard Rules SR2015 No.39 Environmental Permit is included in **Appendix L**. The following potential pathways have been identified in relation to the above receptors:
- Air transport (odour)
 - Air transport then inhalation (particulate matter).

- Mud and waste on roads tracked on tyres and vehicles entering and leaving the Site and from loads which are not properly contained;
- Noise through the air and vibration through the ground;
- Flood waters washing contaminated waste off-Site;
- Direct physical contact (trespassers);
- Direct run-off from Site across ground surface, via surface water drains, ditches etc;
- Indirect run-off from Site via the soil layer;
- Transport through soil/groundwater then extraction at borehole; and
- Direct contact or ingestion.

9.1.4 Reference should be made to the risk assessment for an assessment of actual or possible hazards along with

- the probability of exposure (e.g., whether a risk is unlikely or highly likely);
- potential consequences (i.e., what harm could be caused);
- proposed measures to be adopted to reduce risks; and
- an assessment of the overall risk following implementation of any identified mitigation measures.

10. Receptors: Habitats & Natural Heritage

10.1 SSSI, AONB, National Parks

- 10.1.1 According to the Envirocheck report⁵ and Magic Maps, there are two Sites of Special Scientific Interest (SSSI) within 2 km of the Site. There are no Areas of Outstanding Natural Beauty (AONB) or National Parks within a 2 km radius of the Site. Details of the two SSSIs are provided below in

Table 10-1:

Historic England Reference	Name	Distance	Reason For Designation	Grid Reference	Date First Listed
1074418	Aller Sand Pit SSSI	230 m north	Geological	SX 880 694	1969
1074146 1074147 1074148	Wolborough Fen SSSI	1500 m north-west	Ecological, Wetland, Fauna and Flora	SX 864 700	1991

Table 10-1: Sites of Special Scientific Interest (SSSI) within 2 km of the Site

- 10.1.2 The following citation is listed for the Aller Sand Pit:

“This quarry includes excellent exposures in cross-bedded and channelled gravels and sands, with subordinate muds, which represent deposition in a probable braided stream environment. This is the type section for the Aller Gravel, and it represents the largest and best section remaining of the Palaeogene gravels in the South West peninsula. It is therefore of critical value for the study of palaeoenvironments and provenance early in the Tertiary sub-era.”¹⁶

10.2 SAC, SPA, Ramsar Sites

- 10.2.1 According to the Envirocheck report⁵ and Magic Maps, there are no Special Areas of Conservation (SAC), Special Protection Areas (SPA) or Ramsar sites within a 2 km radius of the Site.

10.3 Listed Buildings & Scheduled Ancient Monuments

- 10.3.1 Listed buildings within a 500 m radius of the Site are shown on **Drawing 0269.102 (Appendix D)**. Details are summarised in **Table 10-2** below. **Table 10-2** has been developed based on information from DEFRA’s Magic Maps website.

List Entry No.	Item	Distance (m)	Grid Reference	Date First Listed
1164848	Barn Owl Inn, Aller Road	180 E	SX 87688 68992	17-Jul-1987
1334167	Rose Cottage	450 SE	SX 88688 68832	17-Jul-1987
1097304	Rock Cottage, Blackenway Lane	430 SE	SX 88672 68842	17-Jul-1987
1003178	Milber Down Camp (Ancient Monument)	495 NE	SX 88424 69722, SX 88462 69930	Not Known

Table 10-2: Listed Buildings & Ancient Monuments in Vicinity of Wick Quarry

¹⁶ <https://designatedsites.naturalengland.org.uk/PDFsForWeb/Citation/1001286.pdf> [Accessed 13 August 2024]

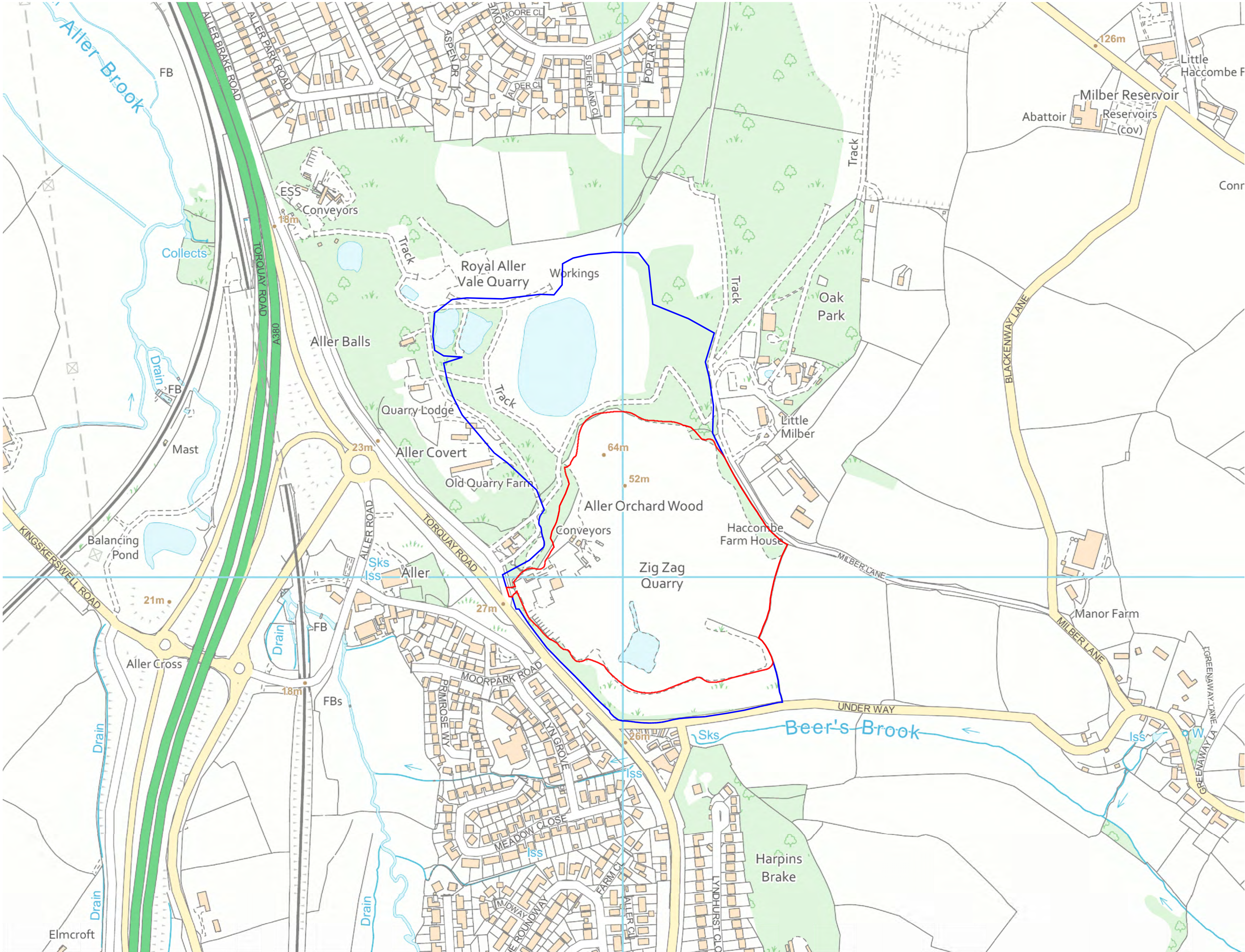
11. Summary and Conclusions

11.1 Conceptual Site Model

- 11.1.1 A schematic of the CSM is presented in **Drawing 0269.108** in **Appendix D**.
- 11.1.2 In summary, the Site is in its final stages of quarrying and processing of indigenous sand and gravel. The overarching aim is to infill the void, restoring the Site to pre-quarrying levels. The Site is to be restored to a long-term end use of pastoral grazing fields separated by Devon hedge banks together with scrub and woodland habitats to perimeters and around the flood attenuation features to facilitate biodiversity net gain. The Site has already been partially restored using imported soils under an existing Environmental Permit.
- 11.1.3 The Site is predominantly one large void with surrounding land comprising agricultural fields and the main town of Kingskerswell to the south. The Site was historically agricultural fields until quarrying began from the 1930s onwards. Minor off-Site historical sources of contamination are present such as off-Site quarry workings, a former pottery and coat factory, a former manure works, and a former car serve garage / filling station. There are no known sources of contamination reported on-Site with no visual or olfactory evidence of contamination recorded during Horizon's ground investigation. Imported material to date for restoration has been restricted to inert soil and stones.
- 11.1.4 The nearest surface watercourse to the Site is the Beer's Brook located approximately 50 m south of the Site at its closest point. This is a relatively short watercourse that runs east to west, draining to the Aller Brook approximately 300 m to the south-west.
- 11.1.5 The quarry is primarily underlain by the Aller Gravel Formation which has been worked almost to its full extent. This lies unconformably on the Upper Greensand Formation. A northwest-southeast trending fault (Torbay Fault) is shown to be present along the western boundary of the existing quarry. The Aller Gravel is shown to be dipping to the south-west at a shallow angle of approximately 10° west southwest within the footprint of the site. These strata dip towards the Torbay Fault.
- 11.1.6 To the west of the Torbay Fault lies Permian bedrock of the Oddicombe Breccia Formation and Watcombe Breccia Formation, part of the Exeter Group; and sand, silt and clay of the Bovey Formation. The Oddicombe Breccia Formation is also present adjacent to the south of the Site.
- 11.1.7 The Aller Gravel Formation and breccia deposits are classified as Secondary A Aquifers with the Upper Greensand Formation classified as a Principal Aquifer. There are limited groundwater abstractions recorded within 2 km of the Site with the nearest located 453 m northwest. The elevation of groundwater is typically 5 m beneath the western edge of the quarry (adjacent to the road), rising approximately to circa 30 m on the north-eastern edge.
- 11.1.8 Sensitive receptors in close proximity to the Site include priority habitat woodland a bridleway located adjacent to the north, the Beer's Brook and the town of Kingskerswell located to the south and the Aller Sand Pit SSI located 230 m north.

Appendix A

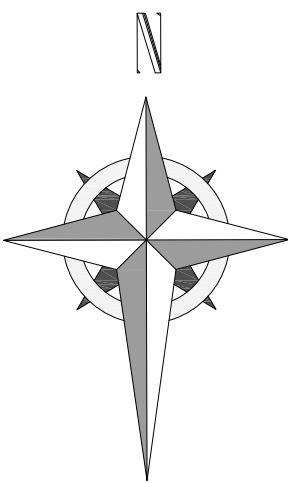
Drawings from Planning Permission



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Revisions:				
Revision	Date	Revision Notes	Drawn	Inspected
01	14.12.22	First Issue	AK	NL
02	02.03.23	Amendment to Red Line Boundary	AK	NL

LEGEND:	
	LAND UNDER THE OWNERSHIP/ CONTROL OF THE APPLICANT
	SITE LOCATION



Project: **Zig Zag Quarry**
Aller, Newton Abbot, Devon

Consultant:

aardvark
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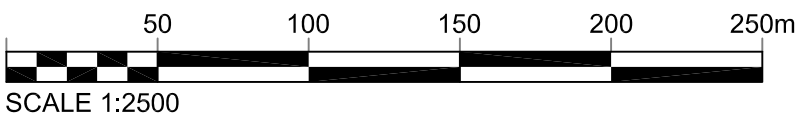
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Status: **PLANNING**

Drawing Title: **Zig Zag Quarry
Site Location Plan**

Drawn: AK	Checked: NL	First Issued: 14.12.2022
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Project Code: AEM020- SP-01		Drawing Number:
Sheet Size: A1	Scale: 1:2500	Revision: 02

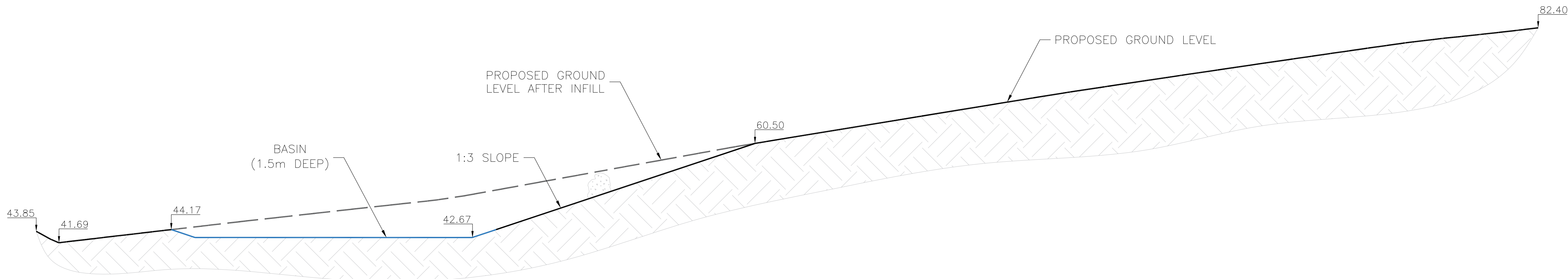
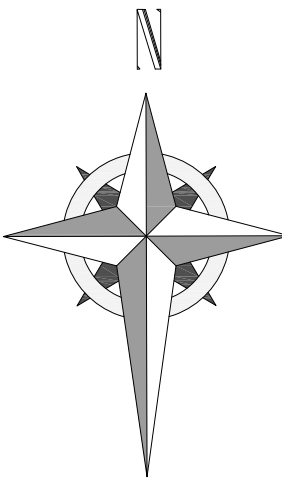


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Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	19.06.23	First Issue	AK	NL
02	20.06.23	Amendment to Hedge	AK	NL

LEGEND:



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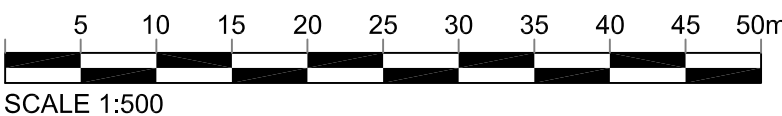
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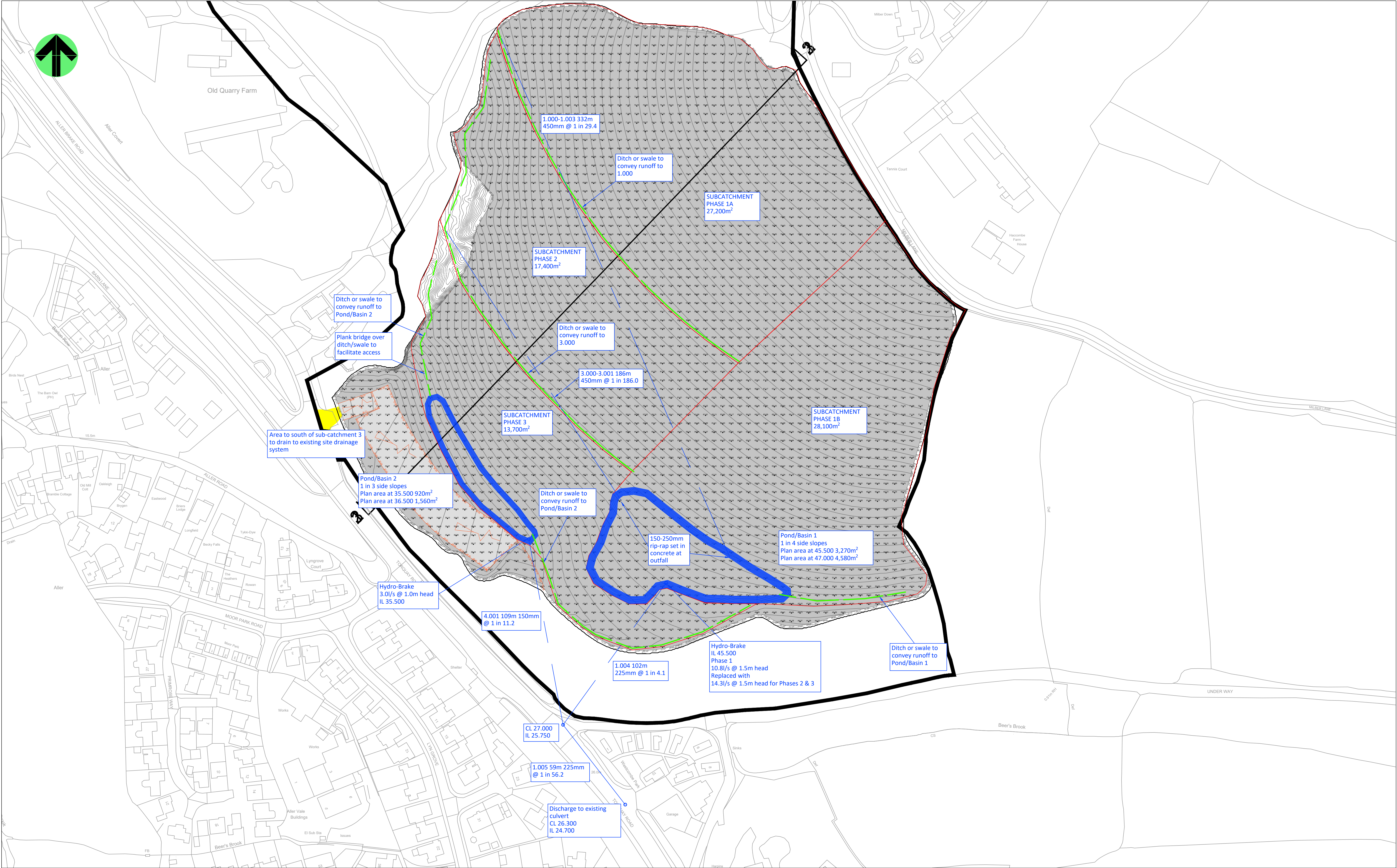
Drawing Title:
Zig Zag Quarry
Basin Section Plan

Drawn: AK	Checked: NL	First Issued: 19.06.2023
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Project Code: Drawing Number:
AEM020- EL-02

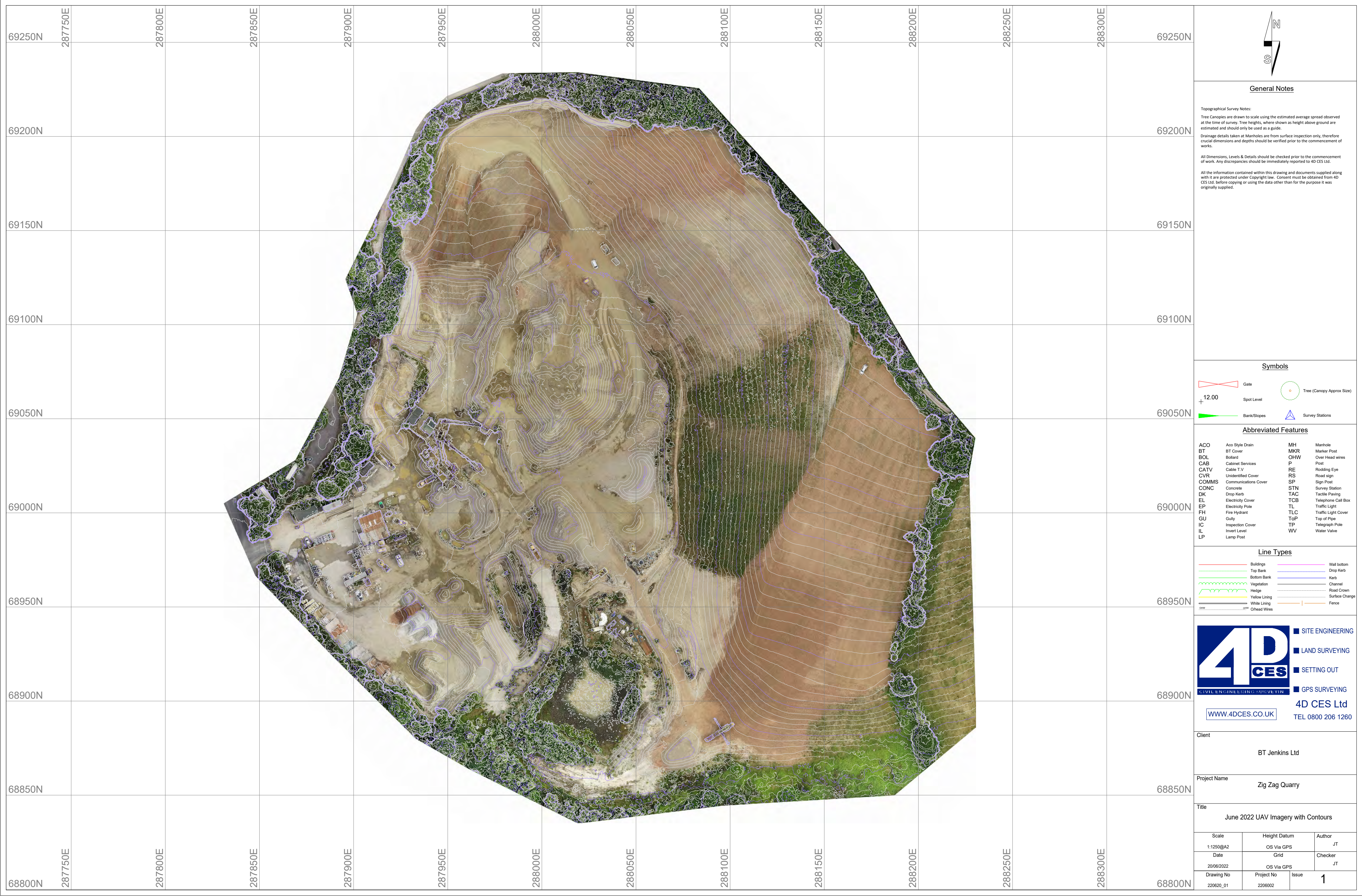
Sheet Size: A1	Scale: 1:500	Revision: 02
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PROJECT: ZIG-ZAG QUARRY REINSTATEMENT			DESIGN BY: 	
TITLE: SURFACE WATER DRAINAGE STRATEGY				
REV: A	PROJECT No: 0603	DRAWING No: DR-001		
SCALE @ A1: 1:1,000				

A 09.02.2023 Initial issue		
REV	DATE	DESCRIPTION
CLIENT:		





- Key**
- Sub-Catchment
 - Swale/Ditch
 - Pond/Basin

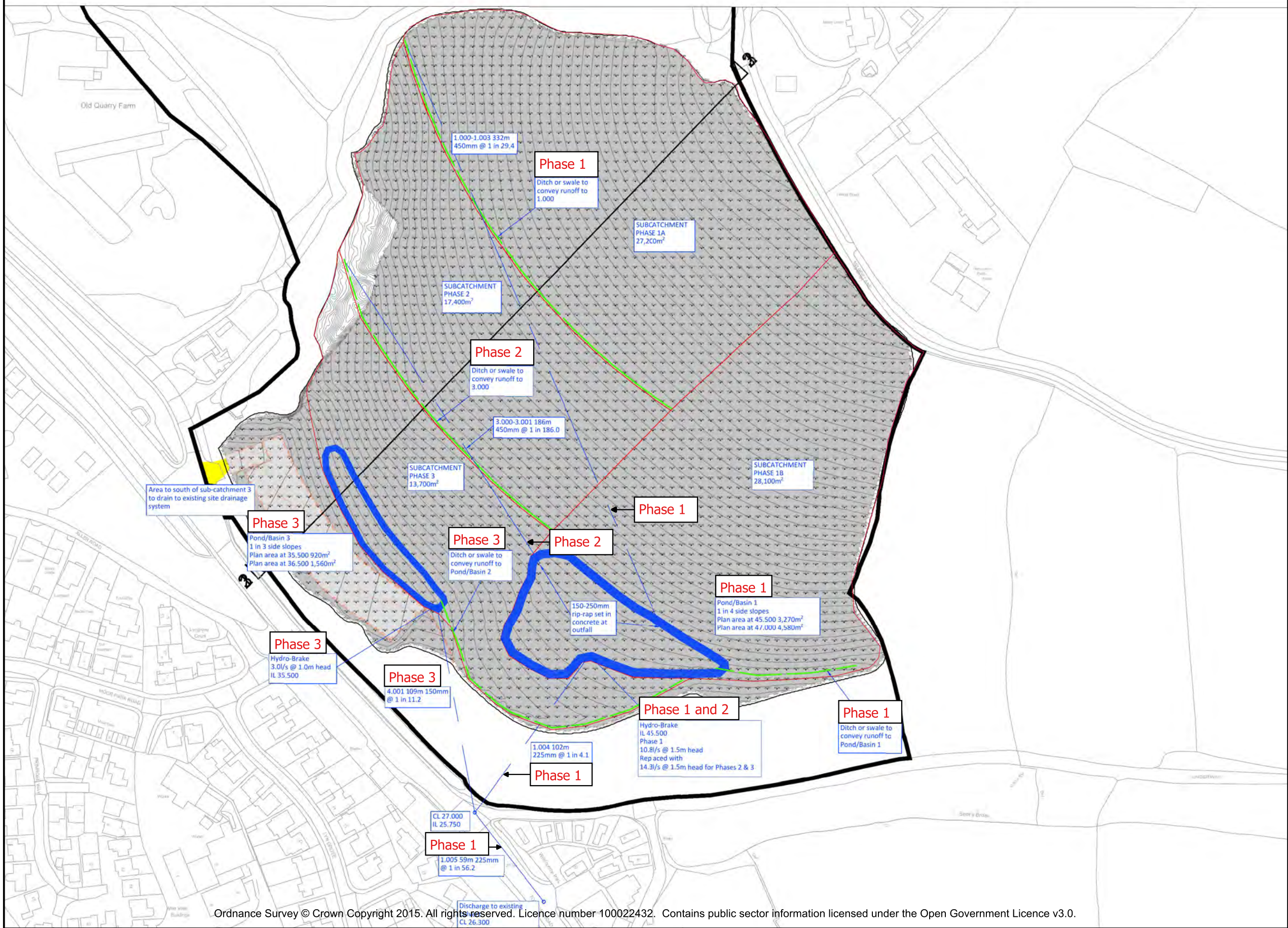


Figure 4.2: **Drainage Phasing Plan**

Client: **Aardvark EM Limited**

Project: **Zig Zag Quarry**

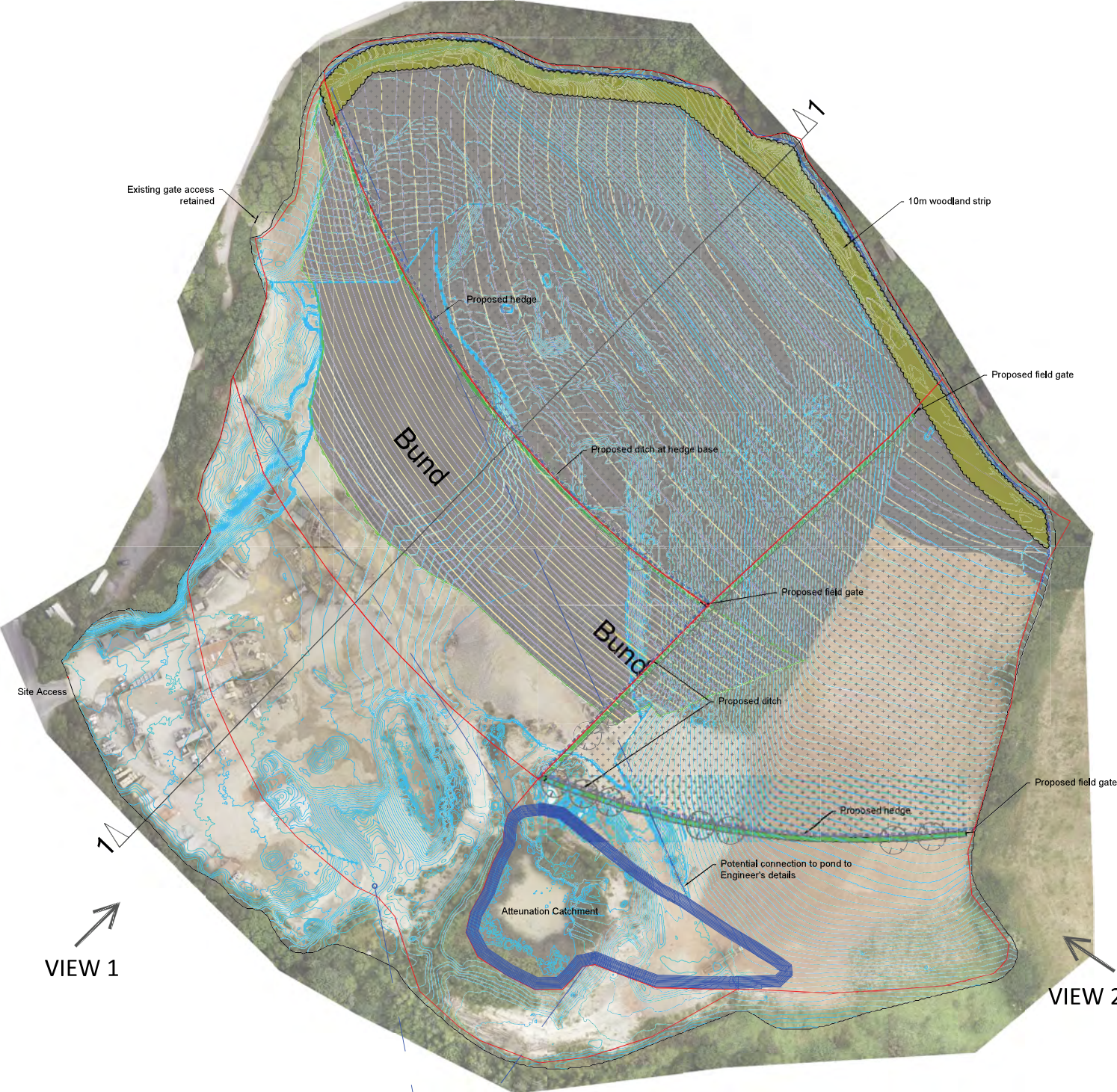
Project No.: **C2403**



Drawn: RW	Checked: NY	Date: 10/05/2023	Scale: 1:2,000@A3
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Plan SPP07.1 - Restoration Plan - Phase 1

Phase 1



KEY



Proposed development site



Mixed native species hedges with stockproof fence both sides



Mixed native species woodland



Seeding with EM2 meadowgrass seed mix or similar



Seeding with EP1 Pond Edge grass seed mix or similar



Proposed drainage ditch



Haul route ultimately left as a 3m wide compacted hardcore farm track



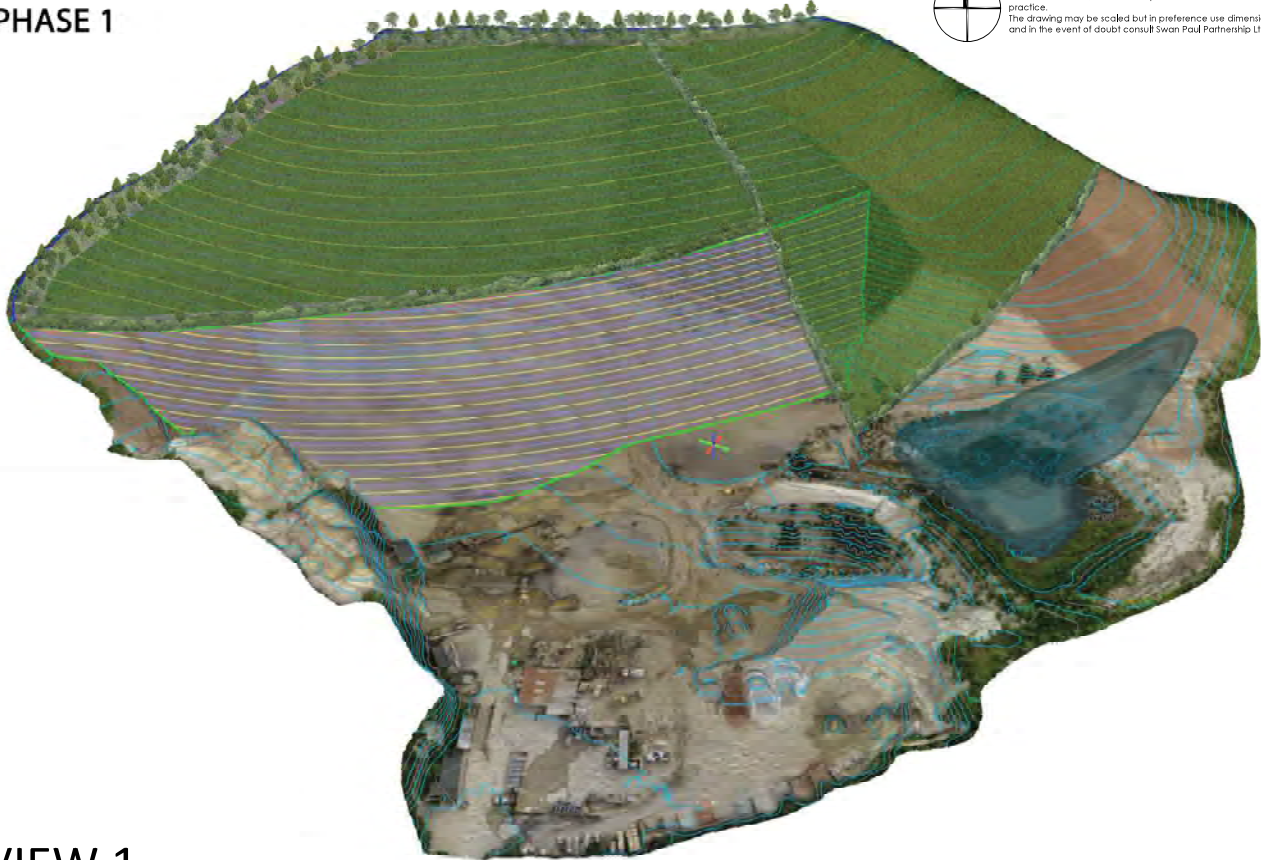
Hedgerow trees



Existing vegetation

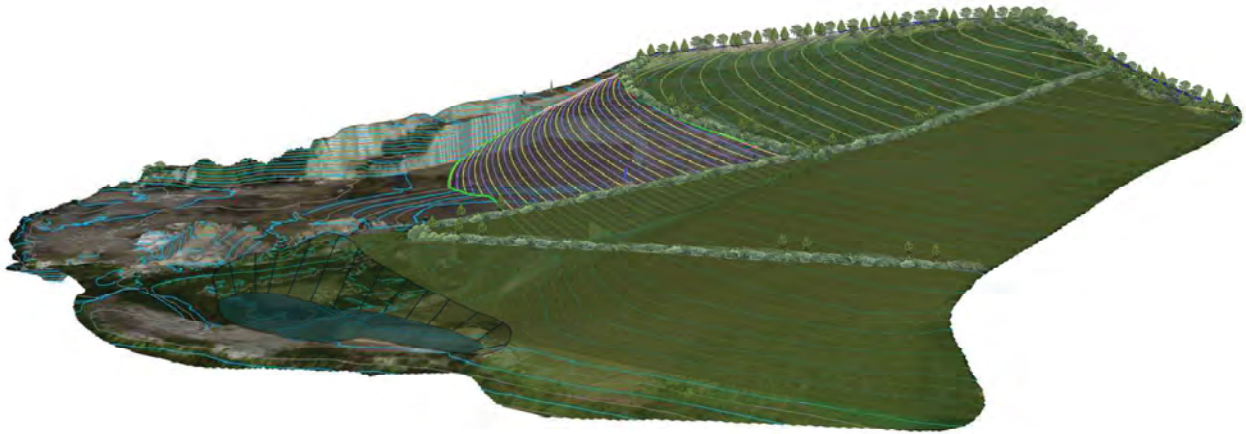
- NOTES**
- Gate locations provisional - final agricultural user may opt for different locations. Any ditches at gates to be culverted.
 - Seed mixes by Emorsgate Seeds (www.wildseed.co.uk) or similar.
 - Hedges to be in a double staggered row of plants at 5 plants per lin metre.
 - Fill stage haul routes are not shown on this drawing, see Engineer's drawings for this.

PHASE 1



VIEW 1

PHASE 1



VIEW 2

N



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Revisions

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SWAN PAUL
PARTNERSHIP LTD
CHARTERED LANDSCAPE ARCHITECTS

4 Chartfield House Castle Street Taunton TA1 4AS
Tel: (01823) 282971
email: info@swanpaul.co.uk
www.swanpaul.co.uk

CLIENT: Harleford Aggregates Ltd

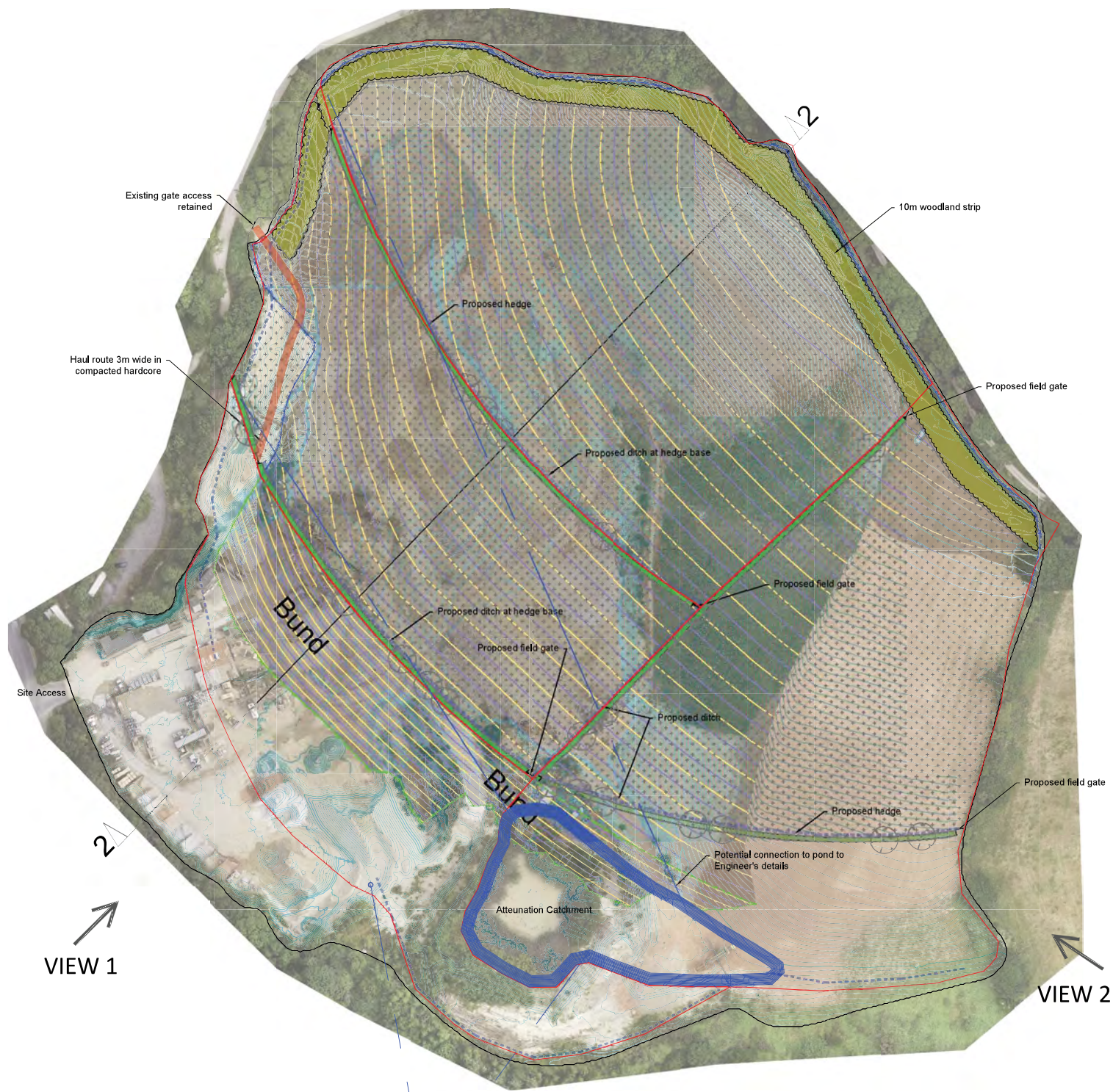
PROJECT: Zig Zag Quarry, Aller

TITLE: Landscape Restoration Plan
Phase 1

Scale 1:1000@A1	Date 29.07.2022	Drawing SPP07.1	Rev C
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Plan SPP07.2 - Restoration Plan - Phase 2

Phase 2



KEY

- | | |
|--|---|
|  Proposed development site |  Proposed drainage ditch |
|  Mixed native species hedges with stockproof fence both sides |  Haul route ultimately left as a 3m wide compacted hardcore farm track |
|  Mixed native species woodland |  Hedgerow trees |
|  Seeding with EM2 meadowgrass seed mix or similar |  Existing vegetation |
|  Seeding with EP1 Pond Edge grass seed mix or similar | |

NOTES

- Gate locations provisional - final agricultural user may opt for different locations. Any ditches at gates to be culverted.
- Seed mixes by Emorsgate Seeds (www.wildseed.co.uk) or similar.
- Hedges to be in a double staggered row of plants at 5 plants per lin metre.
- Fill stage haul routes are not shown on this drawing, see Engineer's drawings for this.

PHASE 2

Planting age - Phase 1 - 5 yrs

VIEW 1

PHASE 2

Planting age - Phase 1 - 5 yrs

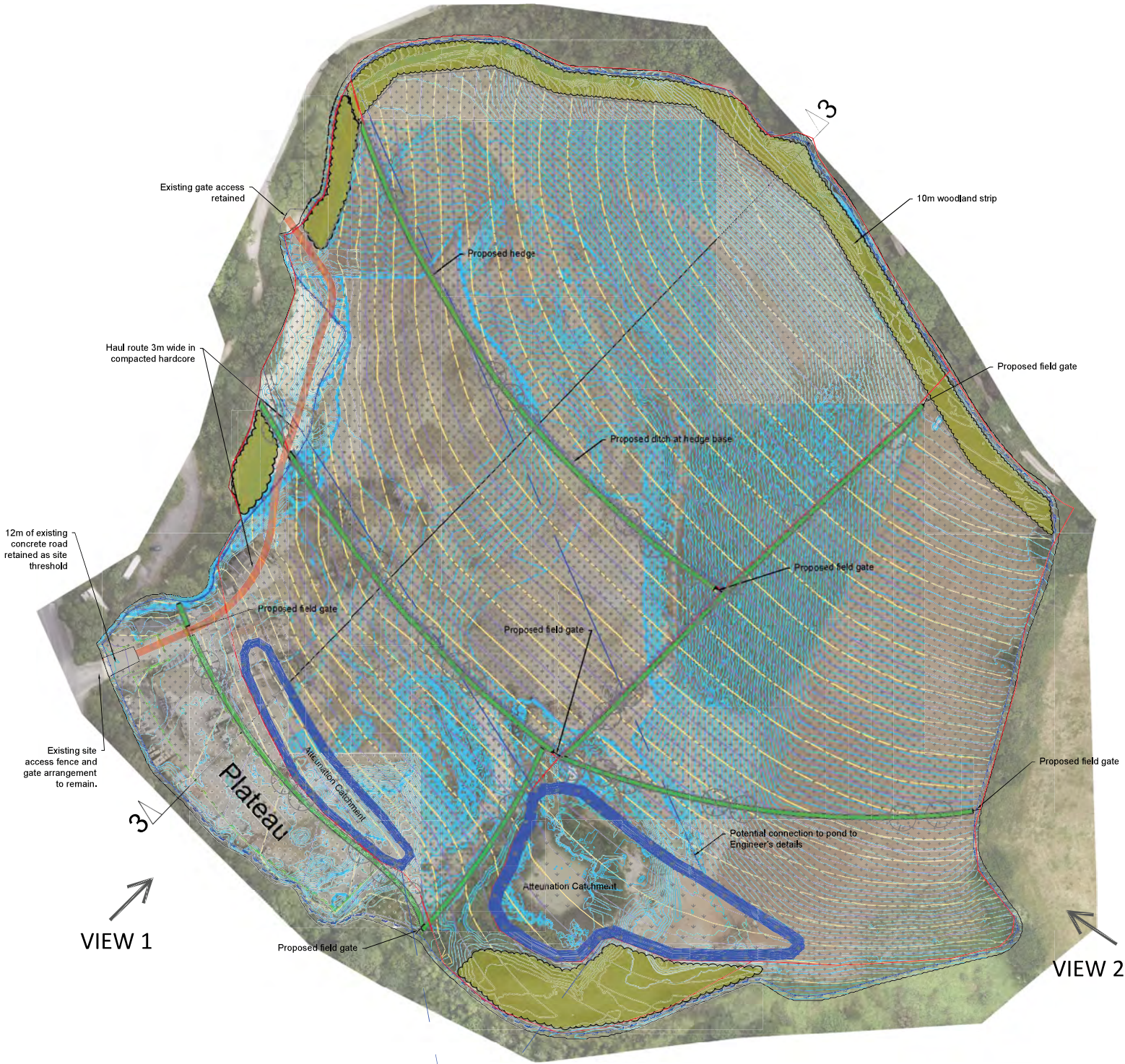
VIEW 2



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Plan SPP07.3 - Restoration Plan - Phase 3

Phase 3



KEY

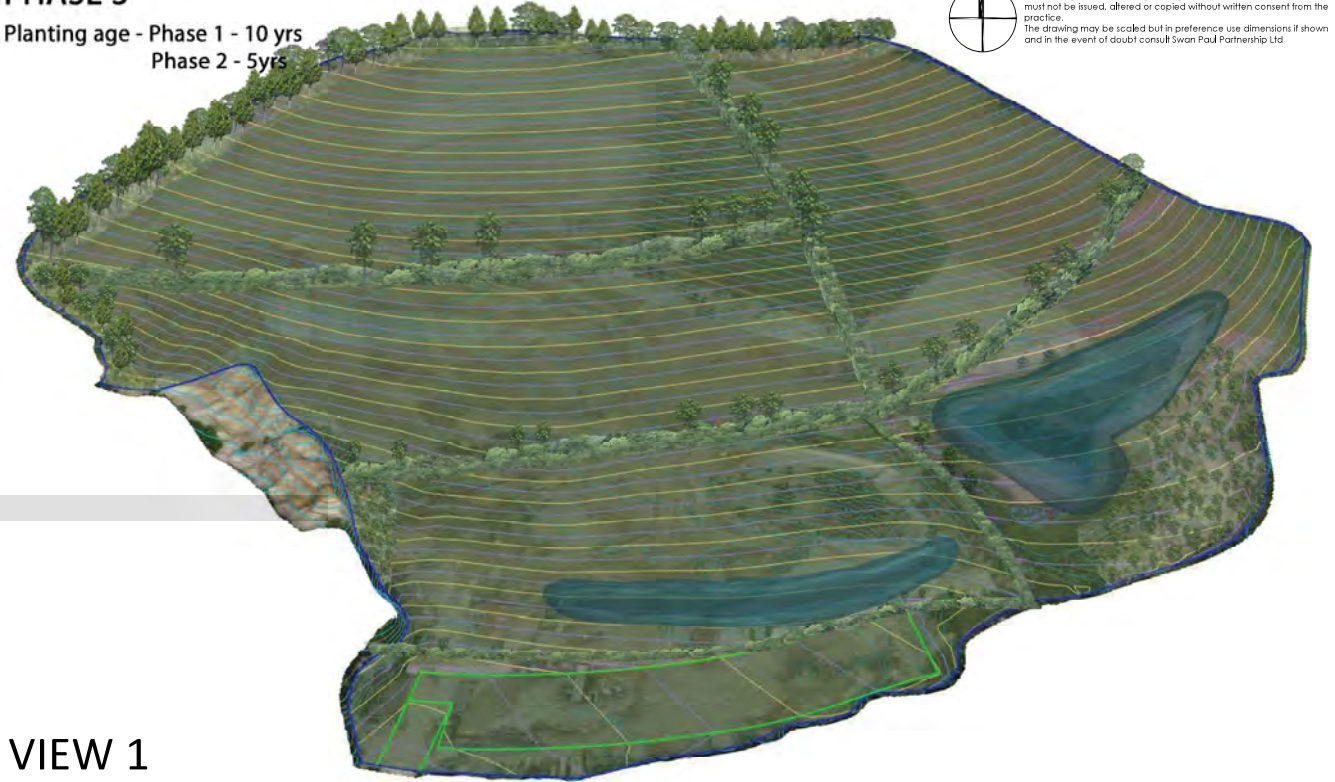
- Proposed development site
- Mixed native species hedges with stockproof fence both sides
- Mixed native species woodland
- Seeding with EM2 meadowgrass seed mix or similar
- Seeding with EP1 Pond Edge grass seed mix or similar
- Proposed drainage ditch
- Haul route ultimately left as a 3m wide compacted hardcore farm track
- Hedgerow trees
- Existing vegetation

NOTES

- Gate locations provisional - final agricultural user may opt for different locations. Any ditches at gates to be culverted.
- Seed mixes by Emorsgate Seeds (www.wildseed.co.uk) or similar.
- Hedges to be in a double staggered row of plants at 5 plants per lin metre.
- Fill stage haul routes are not shown on this drawing, see Engineer's drawings for this.

PHASE 3

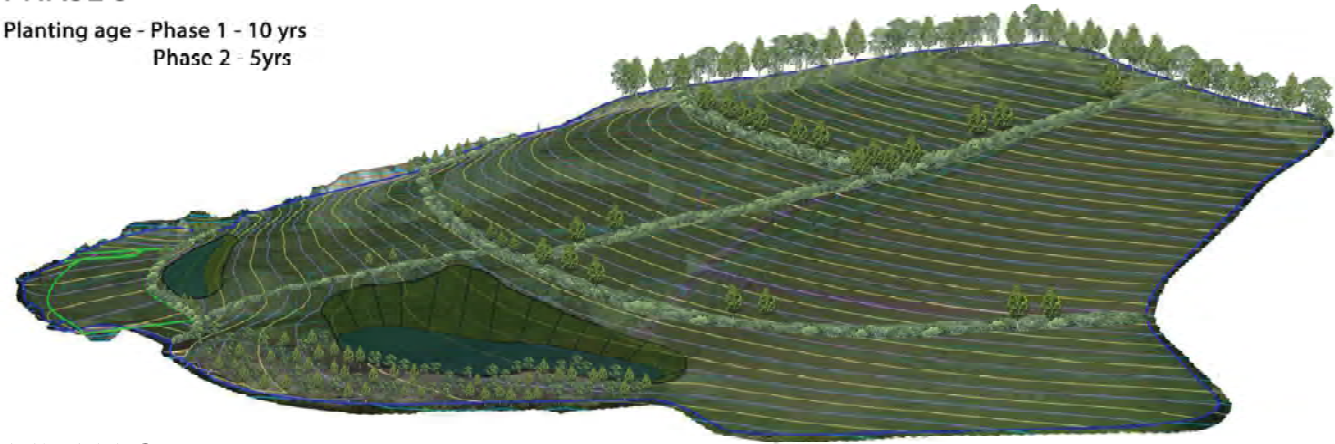
Planting age - Phase 1 - 10 yrs
Phase 2 - 5yrs



VIEW 1

PHASE 3

Planting age - Phase 1 - 10 yrs
Phase 2 - 5yrs



VIEW 2

Revisions

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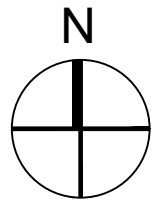
CLIENT: Harleyford Aggregates Ltd

PROJECT: Zig Zag Quarry, Aller

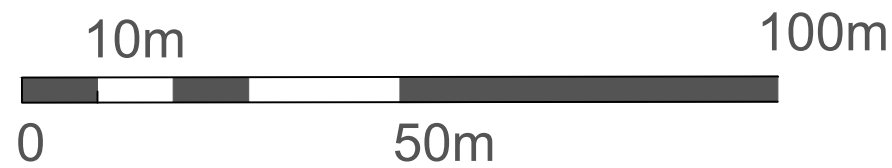
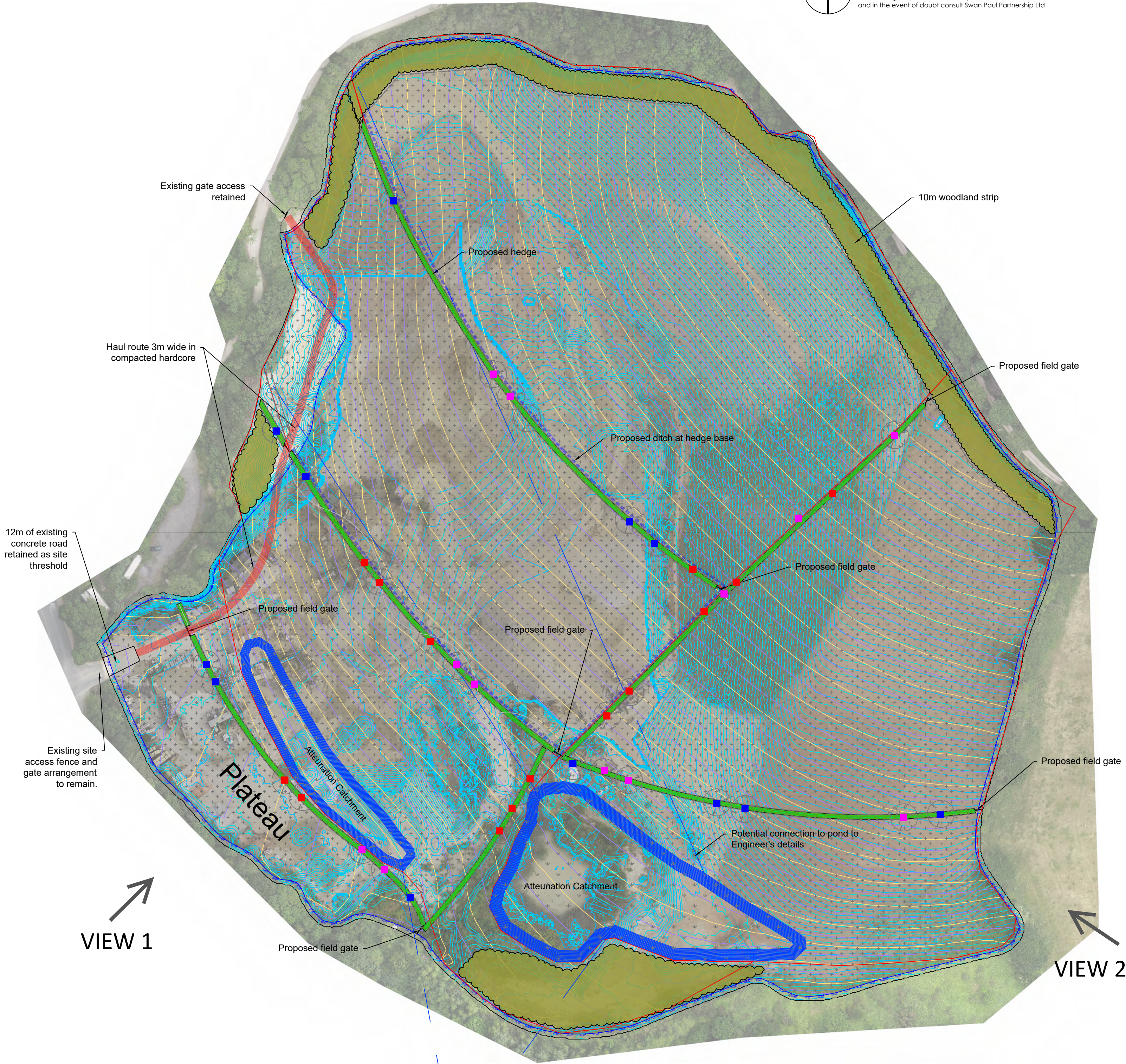
TITLE: Landscape Restoration Plan
Phase 3

Scale: 1:1000@A1 Date: 29.07.2022 Drawing: SPP07.3 Rev: C

Phase 3



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NOTES

- Gate locations provisional - final agricultural user may opt for different locations. Any ditches at gates to be culverted.
- Seed mixes by Emorsgate Seeds (www.wildseed.co.uk) or similar.
- Hedges to be in a double staggered row of plants at 5 plants per lin metre.
- Fill stage haul routes are not shown on this drawing, see Engineer's drawings for this.

KEY

- Proposed development site
- Mixed native species hedges with stockproof fence both sides
- Mixed native species woodland
- Seeding with EM2 meadowgrass seed mix or similar
- Seeding with EP1 Pond Edge grass seed mix or similar
- Proposed drainage ditch
- Haul route ultimately left as a 3m wide compacted hardcore farm track
- Hedgerow trees
- Existing vegetation

PLANT SCHEDULE
HEDGEROW TREES

SPECIES	NAME	FORM	TRANS	HEIGHT	ROOT	Breaks	Nos
Ulmus 'New Horizon'	Hybrid Elm (desisease resistant)	Feathered	2x	2.0 -2.5m	BR	5	12
Quercus robur	Oak	Feathered	2x	2.0 -2.5m	BR	5	12
Acer campestre	Field Maple	Feathered	2x	2.0 -2.5m	BR	15	14
						Total	38

NOTE:
Pit plant singly as close to the hedge centre as possible.

WOODLAND MIX

SPECIES	NAME	FORM	TRANS	HEIGHT	ROOT	%	Nos
Acer campestre	Field Maple	Feathered	1+1	60-80cm	BR (bare root)	15	237
Corylus avellana	Hazel	Feathered	1+1	60-80cm	BR	25	394
Sorbus torminalis	Wild service tree	Feathered	1+1	90-120cm	BR	5	79
Quercus robur	Oak	Feathered	1+1	90-120cm	BR	10	158
Betula pendula	Birch	Feathered	1+1	90-120cm	BR	20	316
Prunus avium	Wild Cherry	Feathered	1+1	90-120cm	BR	20	316
Carpinus betulus	Hornbeam	Feathered	1+1	90-120cm	BR	5	79
						Total	1579

NOTE:
Plant at 2m centres throughout the mix in random clusters of 5-7 of the same species in a cluster.

HEDGE MIX

SPECIES	NAME	FORM	X TRANS.	HEIGHT	ROOT	%	Nos
Acer campestre	Field maple	Transplant	1+1	60-80cm	Br	20	945
Corylus avellana	Hazel	Transplant	1+1	60-80cm	Br	20	945
Crataegus oxycantha	Mid. Hawthorn	Transplant	1+1	60-80cm	Br	40	1890
Euonymus europaeus	Spindle	Transplant	1+1	60-80cm	Br	3	142
Lonicera periclymenum	Honeysuckle	2L Pot	1+1	60-80cm	C	1	47
Prunus spinosa	Blackthorn	Transplant	1+1	60-80cm	Br	10	472
Sambucus nigra	Elder	Transplant	1+1	60-80cm	Br	3	142
Ulmus glabra	Wych elm	Transplant	1+1	60-80cm	Br	3	142
						Total	4725

NOTE:
Hedges planted in a double staggered row, 0.5m apart at 5 plants per linear metre. Plant in single species clusters of between 15 and 30 plants. Interplanting into existing hedges to be with random single species, notch planted into gaps where possible.

EM2 – STANDARD GENERAL PURPOSE MEADOW MIXTURE - OVERSEEDING
Composition
This meadow mixture contains species that are characteristic of traditional meadows across a wide range of soil types.

Wild Flowers	%	Latin name	Common name
1	1	Achillea millefolium	Yarrow
0.5	0.5	Betonica officinalis - (Stachys officinalis)	Betony
2.5	2.5	Centaurea nigra	Common Knapweed
2.5	2.5	Daucus carota	Wild Carrot
2	2	Galium album - (Galium mollugo)	Hedge Bedstraw
1	1	Galium verum	Lady's Bedstraw
3	3	Leucanthemum vulgare	Oxeye Daisy - (Moon Daisy)
0.8	0.8	Malva moschata	Musk Mallow
0.1	0.1	Plantago lanceolata	Ribwort Plantain
0.1	0.1	Poterium sanguisorba -	Salad Burnet
0.1	0.1	Ranunculus acris	Meadow Buttercup
0.1	0.1	Rhinanthus minor	Yellow Rattle
0.3	0.3	Silene latifolia	White Campion
20			

Grasses	%	Latin name	Common name
8	8	Agrostis capillaris	Common Bent
28	28	Cynosurus cristatus	Crested Dogstail
24	24	Festuca rubra	Red Fescue
4	4	Phleum bertolonii	Smaller Cat's-tail
16	16	Poa pratensis	Smooth-stalked Meadow-grass
80			

Sowing Rates	kg/ha	kg/acre	g/m2
	40	16	1.5

Cultivation Notes - EM2 Grass Mix - Overseeding existing swards

Meadow grass seed mix EM2 by Emorsgate Seeds (www.wildseed.co.uk) or similar. Meadows to be established from existing swards by overseeding. To overseed first now if required to achieve a short turf (50-75mm) then use a spring-tine rake to scarify the top surface of the turf to expose a seed bed and sow seed mix at 1.5g per m sq (use a carrier such as sand if required). Lightly roll to get good soil contact and leave to germinate.

Aftercare
First year management:
Mow newly sown meadows regularly throughout the first year of establishment to a height of 40-60mm, removing cuttings if dense. This will control annual weeds and help maintain balance between faster growing grasses and slower developing wild flowers. Carefully dig out or spot treat any residual perennial weeds such as docks, thistles or nettles.

Management once established
In the second and subsequent years EM2 sowings can be managed in a number of ways which, in association with soil fertility, will determine the character of the grassland. The best results are usually obtained by traditional meadow management based around a main summer hay cut in combination with autumn and possibly spring mowing. Meadow grassland is not cut or grazed from spring through to late July/August to give the sown species an opportunity to flower.

After flowering in late July or August take a 'hay cut': cut back with a tractor mower to c 50mm. Leave the 'hay' to dry and shed seed for 1-7 days then remove from site. Mow or graze the re-growth through to late autumn/winter to c 50mm and again in spring if needed.

More detail on grassland management in the LEMP

EP1 – POND EDGE MIXTURE
Composition
Pond edge mixture EP1 contains wild flowers and grasses suitable for sowing at the wet margins of ponds, streams and ditches.

Wild Flowers 20%	%	Latin Name	Common Name
1.0	1.0	Achillea millefolium	Yarrow
0.2	0.2	Agrimonia eupatoria	Agrimony
0.2	0.2	Angelica sylvestris	Wild Angelica
2.0	2.0	Centaurea nigra	Common Knapweed
0.3	0.3	Chaerophyllum temulum	Rough Chervil
3.0	3.0	Cruciata laevipes	Crosswort
2.0	2.0	Dipsacus fulurium	Wild Teasel
5.0	5.0	Filipendula ulmaria	Meadowweet
2.6	2.6	Galium album – (Galium mollugo)	Hedge Bedstraw
1.0	1.0	Galium verum	Lady's Bedstraw
2.0	2.0	Leucanthemum vulgare	Oxeye Daisy
0.2	0.2	Lythrum salicaria	Purple Loosestrife
0.2	0.2	Malva moschata	Musk Mallow
0.1	0.1	Plantago lanceolata	Ribwort Plantain
0.1	0.1	Rumex acetosa	Common Sorrel
0.1	0.1	Silium silaus	Pepper Saxifrage

Grasses 80%	%	Latin name	Common name
10.0	10.0	Agrostis capillaris	Sweet Vernal-grass (w)
3.0	3.0	Anthoxanthum odoratum	Quacking Grass (w)
6.0	6.0	Briza media	Crested Dogstail
26.0	26.0	Cynosurus cristatus	Tufted Hair-grass (w)
2.0	2.0	Deschampsia cespitosa	Red Fescue
28.0	28.0	Festuca rubra	
5.0	5.0	Schedonorus pratensis – (Festuca pratensis) – Meadow Fescue	

Sowing Rates	kg/ha	kg/acre	g/m2
	40	16	4

Cultivation Notes - EP1 Pond Edge Mixture

EL1 is a complete mix composed of 20% wild flowers and 80% slow growing grasses (by weight) by Emorsgate Seeds (www.wildseed.co.uk) or similar. Establish onto newly prepared seed beds according to the seed suppliers specification.

Aftercare
First year management:
In the first year, annual weed growth may be cut back to encourage the development of a good perennial ground cover. Establishment on sites prone to flooding may be patchy and may take several years to fully colonise.

Management once established:
The habitat value of pond edge sowings is enhanced if there are a variety of vegetation structures from dense tussock stands to bare and recently colonised mud. Management of these wetland areas should therefore aim to create variation with minimum disturbance to animal populations.

Variation in structure can be achieved by cutting back and removing short sections of vegetation every 2-3 years in rotation. With ponds, remove vegetation as a wedge, like removing a slice of cake. Dense stands of single species (eg yellow iris) may benefit from selective thinning. Vegetation removal causes the least disruption to wildlife when carried out between September and November. Machines and heavy equipment should be used with care on wet sites to avoid damage to soil and vegetation.

More detail on grassland management in the LEMP

GENERAL
THESE NOTES APPLY TO ALL PLANTING SHOWN ON THIS DRAWING.

PLANT MATERIAL
All Plants shall conform to relevant British Standards: BS 3936 (latest issue). All plants shall be true to form, type & size. They shall be healthy, vigorous, pest and weed free.
No substitutes in size or species shall be made without the written consent of the landscape architect.

TOPSOIL & SUBSOIL
Where it is suitable, existing topsoil can be recovered from site stockpiles subject to the approval of the CA. Imported topsoils to be to BS 3882:2015. Depths: Planting beds 400mm; Grass areas 150mm; tree pits as specified. Subsoil formation levels shall be achieved under the main contract. The subsoil shall be ripped prior to spreading the topsoil layer.

TREE PLANTING
Trees shall be planted according to the provisions of BS4428 (latest issue) into prepared pits located as shown on the drawings - 350 x 350 x300mm deep or larger to accommodate roots as required.
Break up base to a further depth of 150mm and ensure sides are not glazed. Backfill with topsoil (preferably recovered from site).
Staking: Trees to be planted in tree shelters secured with canes. Ensure trees are planted at their original ground level and water thoroughly to ground capacity after planting. All trees planted into new/ existing grass to have a 1m diameter biodegradable weed proof membrane around the trunk covered with 50mm bark mulch. All tree planting to be kept weed free during the maintenance and defects liability period. Rabbit protection to be provided by a biodegradable spiral tree guard. All ties and fixings to be biodegradable.

TREE PLANTING
Trees shall be planted according to the provisions of BS4428 (latest issue) into prepared pits located as shown on the drawings excavated to accommodate roots as required. Break up base to a further depth of 150mm and ensure sides are not glazed. Backfill with topsoil (preferably recovered from site).
Staking: Trees 12-14cm girth or below to be fixed with 1m stake driven at an angle of 45-degrees and facing into the prevailing wind, with 1 tie fixed directly to the stake approx 500mm above GL.
Ensure trees are planted at their original ground level and water thoroughly to ground capacity after planting. All trees planted into new/ existing grass to have a 1m diameter biodegradable weed proof membrane around the trunk covered with 50mm bark mulch. All tree planting to be kept weed free during the maintenance and defects liability period. Rabbit protection to be provided by a biodegradable spiral tree guard. All ties and fixings to be biodegradable.

NATIVE SPECIES HEDGE/ SHRUB PLANTING
Proposed planting areas are to have existing grass and vegetation sprayed off or cut to a height of 75mm or less not longer than 1 week prior to planting. Shrubs to be notch planted by hand at the spacing as shown in the planting schedules.
Ensure shrubs are planted at their original ground level and firm thoroughly in. All shrubs to be kept weed free to the end of the defects liability period by the use of mulch mats. All deciduous plants to be fitted with biodegradable spiral rabbit guards and canes.

MAINTENANCE
Maintenance period is 5 years following Practical Completion.
All planted areas shall be maintained in a clean and tidy condition with all litter and debris being removed at least once per month. Maintenance items shall include: Weeding (docks/ brambles/ thistles etc), pruning (as required), firming in after frost/human damage/high winds etc, control of pests and diseases, adjusting/ repairing tree ties/ shelters as required and litter and debris removal.
All plants must also receive adequate watering to ensure their health and survival.

PLANT LOSSES
Any trees or shrubs that fail or die over a five year period following practical completion are to be replaced with the same or similar species (to approval) within the next suitable growing season (Mid Oct - mid March).

NOTES: Biodegradable tree and shrub planting products (spiral guards, mulch mats, tree tubes etc) as supplied by www.green-tech.co.uk or similar.

Revisions

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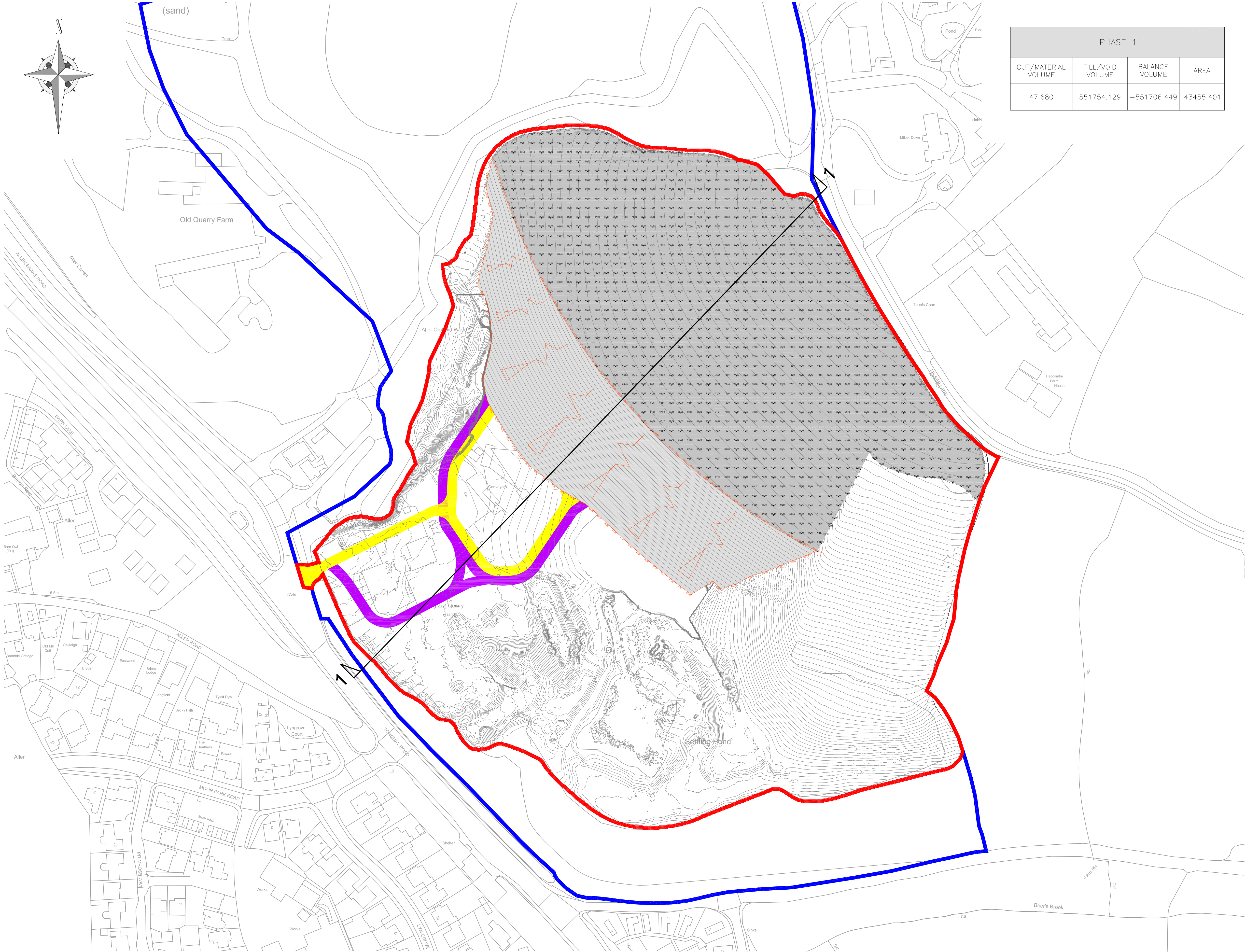
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tel: (01823) 282971
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www.swanpaul.co.uk

CLIENT: Harleyford Aggregates Ltd

PROJECT: Zig Zag Quarry, Aller

TITLE: Landscape Planting Plan

Scale 1:1000@A1 Date 02.03.2023 Drawing SPP09 Rev -



PHASE 1			
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Revisions:				
Revision	Date	Revision Notes	Drawn	Inspected
01	19.12.22	First Issue	AK	NL
02	22.02.23	Inbound & Outbound Access Added	AK	NL
03	02.03.23	Amendment to Red & Blue Line Boundary	AK	NL

LEGEND:			
	INBOUND ACCESS		OUTBOUND ACCESS
	SLOPE		SECTION

Project:
Zig Zag Quarry
Aller, Newton Abbot, Devon

Consultant:

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AARDVARK EM Limited
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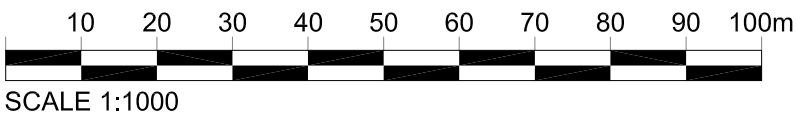
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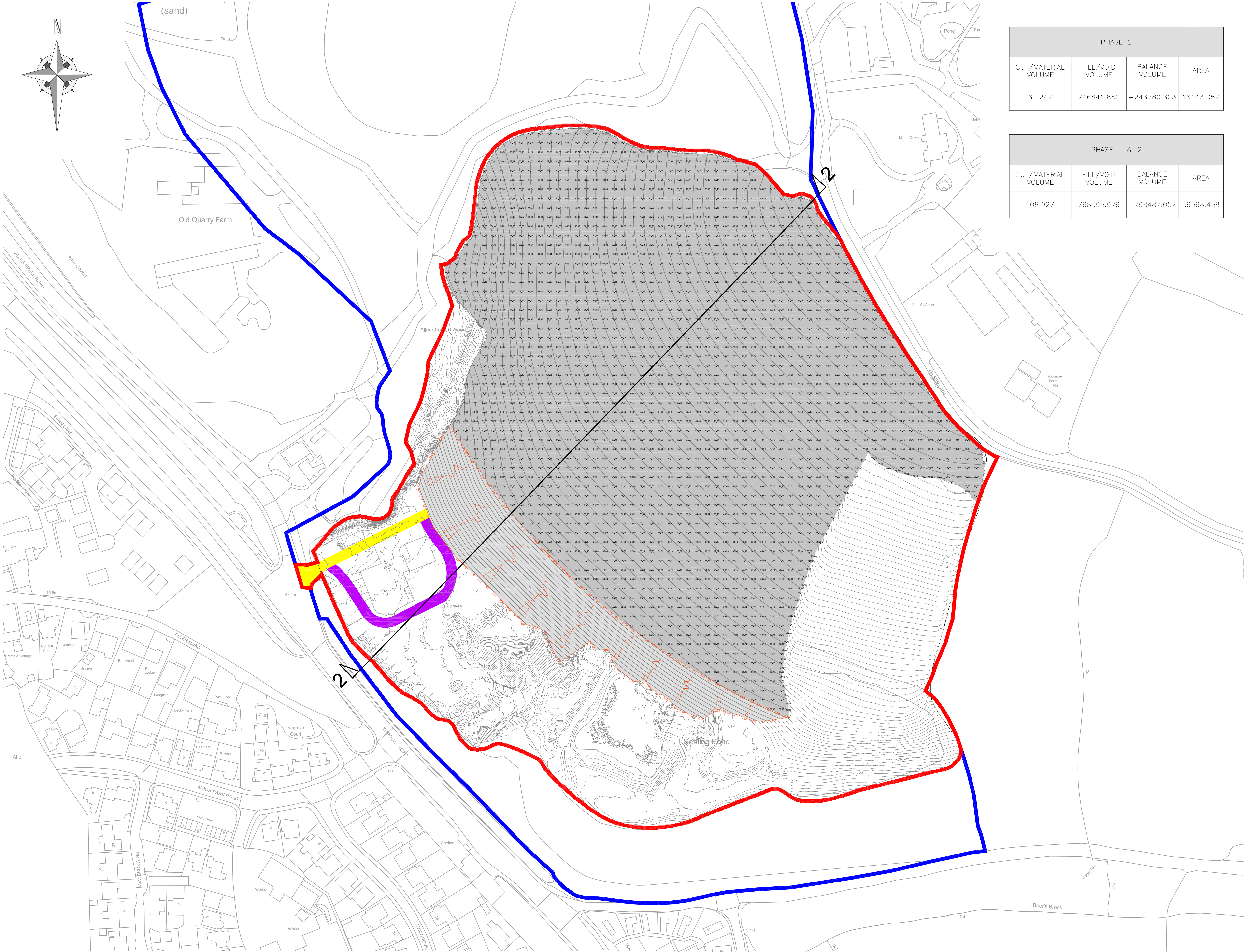
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**Zig Zag Quarry
Phase Plan 1**
Drawn: AK
Checked: NL
First Issued: 19.12.2022

Project Code: AEM020-PP-01
Drawing Number:
Sheet Size: A1
Scale: 1:1000
Revision: 03

ZIG ZAG QUARRY PHASE PLAN 1

Scale: 1:1000@A1





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PHASE 1 & 2			
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Revisions:				
Revision	Date	Revision Notes	Drawn	Inspected
01	19.12.22	First Issue	AK	NL
02	22.02.23	Inbound & Outbound Access Added	AK	NL
03	02.03.23	Amendment to Red & Blue Line Boundary	AK	NL

LEGEND:

INBOUND ACCESS

OUTBOUND ACCESS

SLOPE

SECTION

Project:
Zig Zag Quarry
Aller, Newton Abbot, Devon

Consultant:

aardvark
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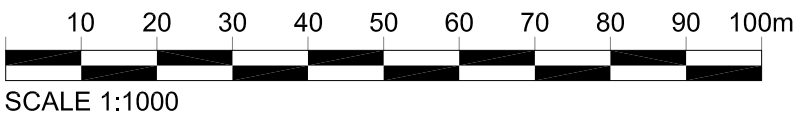
Status:
PLANNING

Drawing Title:
**Zig Zag Quarry
Phase Plan 2**

Drawn: AK	Checked: NL	First Issued: 19.12.2022
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Project Code: Drawing Number:
AEM020- PP-02

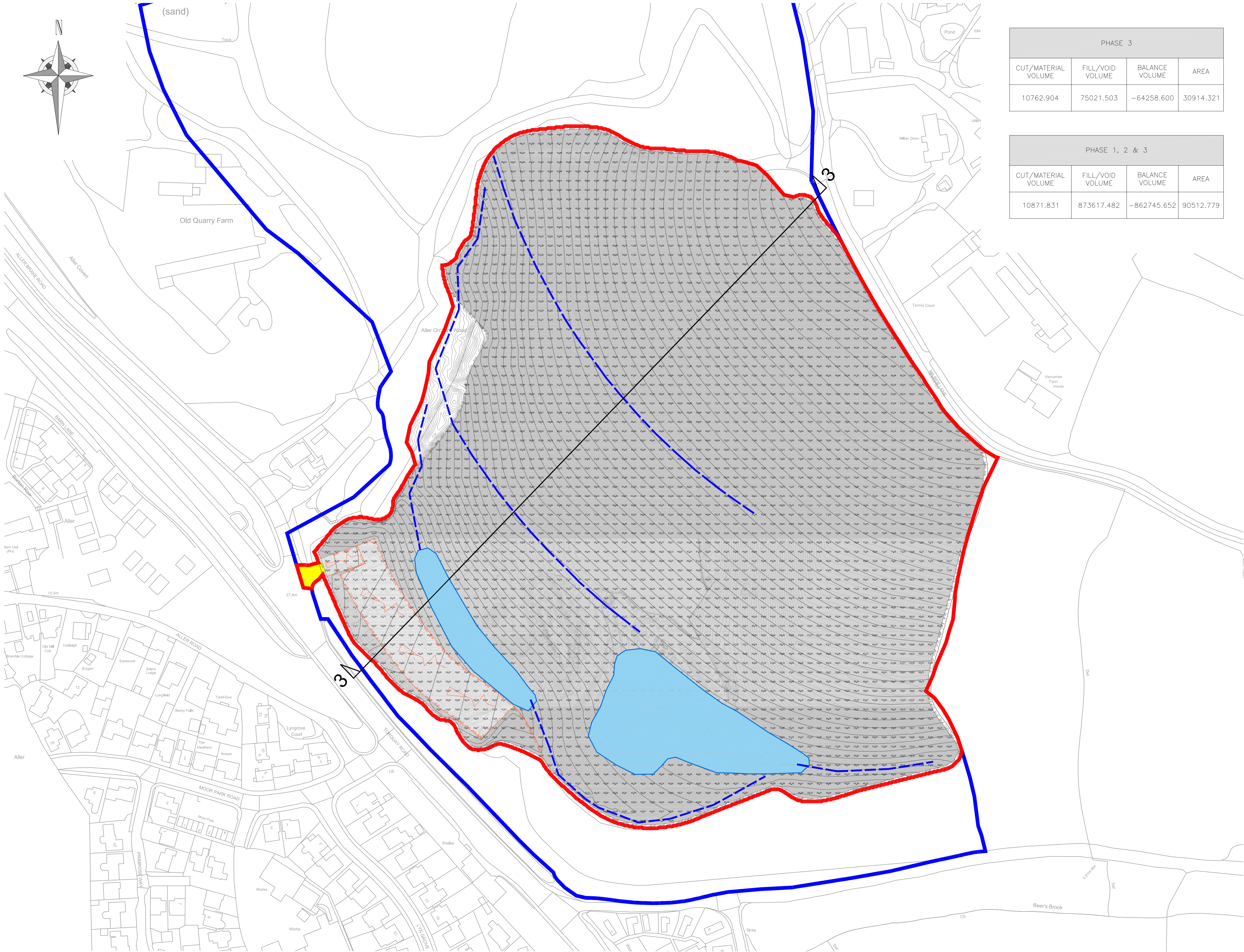
Sheet Size: A1	Scale: 1:1000	Revision: 03
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Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	19.12.22	First Issue	AK	NL
02	23.02.23	Bearing & Swales Added	AK	NL
03	02.03.23	Amendment to Red & Blue Line Boundary	AK	NL

LEGEND:



PHASE 3			
CUT/MATERIAL VOLUME	FILL/VOID VOLUME	BALANCE VOLUME	AREA
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PHASE 1, 2 & 3			
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Project:

Zig Zag Quarry
Aller, Newton Abbot, Devon

Consultant:



AARDVARK EM Limited
Higher Ford, Wiveliscombe
Somerset TA4 2RL
Tel: +44 (0) 1984 624989
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Drawn by:



CADmando Design & Draughting Solutions Ltd
The Long Barn, The Courtyard, Severn Drive, Tewkesbury
Business Park, GL20 8GD

Tel: +44 (0) 1684 850019
Mob: +44 (0) 7814436910

Status:

PLANNING

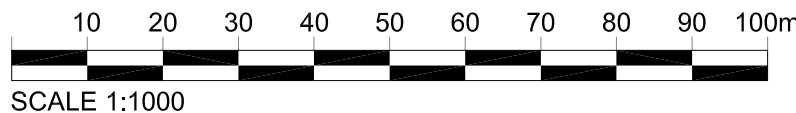
Drawing Title:

Zig Zag Quarry
Phase Plan 3

Drawn: AK	Checked: NL	First Issued: 19.12.2022
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Project Code: AEM020-PP-03	Drawing Number:
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Sheet Size: A1	Scale: 1:1000	Revision: 03
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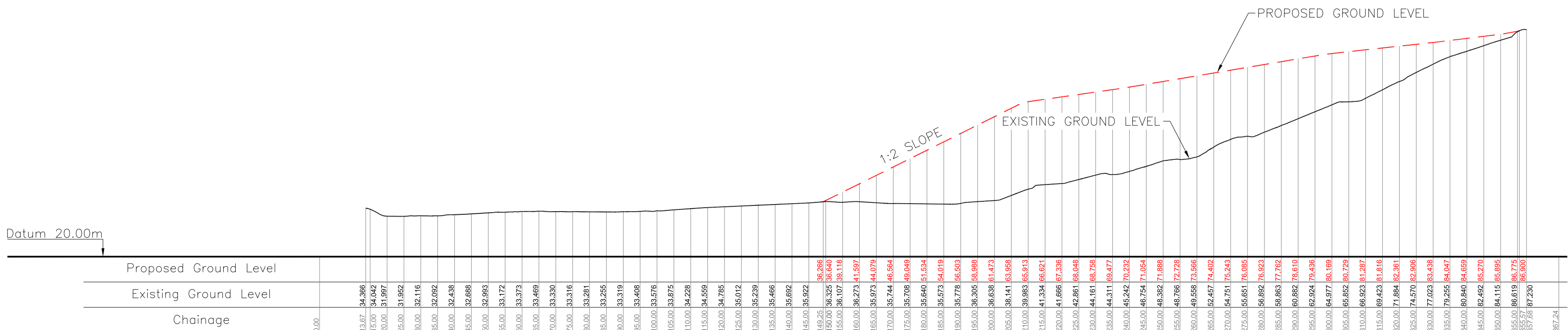
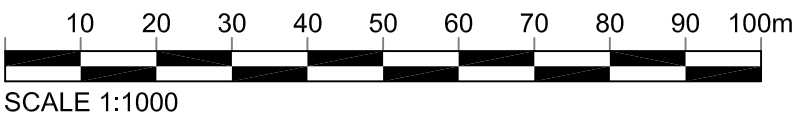
SCALE 1:1000

Revisions:				
Revision	Date	Revision Notes	Drawn	Inspected
01	13.12.22	First Issue	AK	NL

LEGEND:

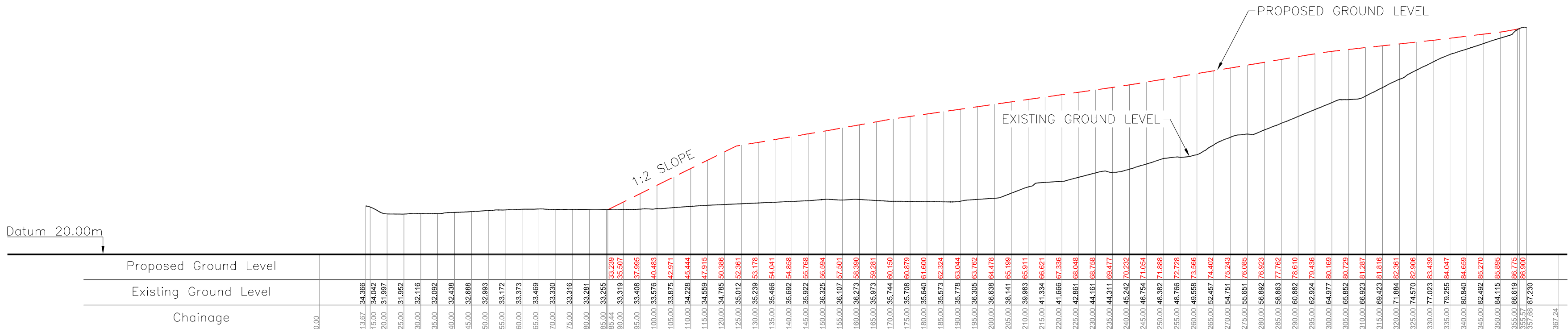
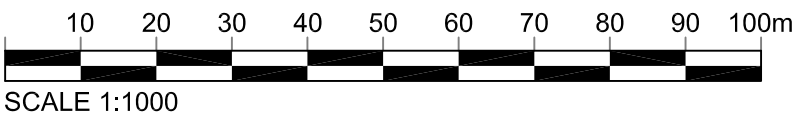
1 ZIG ZAG QUARRY SECTION PLAN (PHASE 1)

Scale: 1:1000@A1



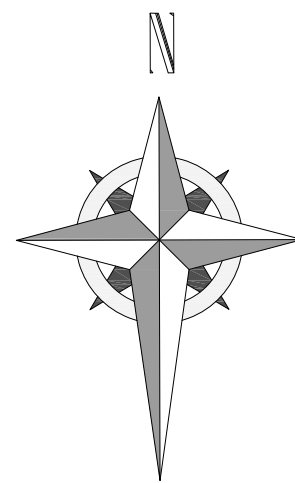
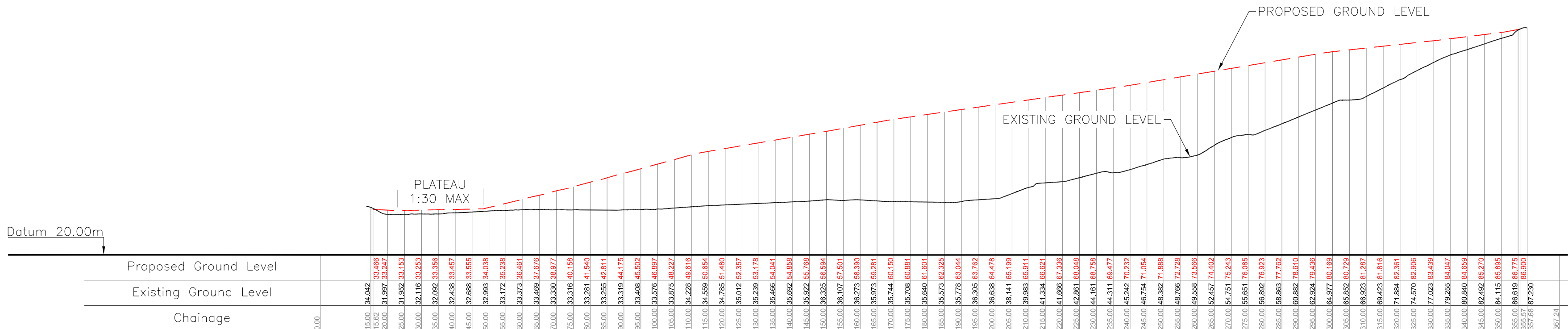
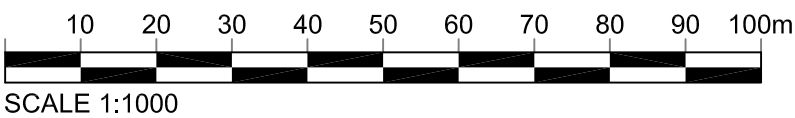
2 ZIG ZAG QUARRY SECTION PLAN (PHASE 2)

Scale: 1:1000@A1



3 ZIG ZAG QUARRY SECTION PLAN (PHASE 3)

Scale: 1:1000@A1



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Zig Zag Quarry
Aller, Newton Abbot, Devon

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Tel: +44 (0) 1684 850019
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Status:
PLANNING

Drawing Title:
**Zig Zag Quarry
Section Plan**

Drawn: AK	Checked: NL	First Issued: 13.12.2022
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Project Code: Drawing Number:
AEM020-EL-01

Sheet Size: A1	Scale: 1:1000	Revision: 01
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Appendix B

Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

347366419_1_1

Customer Reference:

HCE0269

National Grid Reference:

288040, 69030

Slice:

A

Site Area (Ha):

9.48

Search Buffer (m):

1000

Site Details:

Aller Vale Farm House, Newton Road

NEWTON ABBOT

TQ12 5AT

Client Details:

Mr A Large

Horizon Consulting Engineers

Suite 2, The Dairy Barn

Westpoint Centre

Sidmouth Road

Exeter

Devon

EX5 1DJ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	39
Hazardous Substances	-
Geological	43
Industrial Land Use	48
Sensitive Land Use	57
Data Currency	58
Data Suppliers	64
Useful Contacts	65

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		1	8	13
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 7				1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7		1	2	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 8	Yes			
Pollution Incidents to Controlled Waters	pg 8		4	2	9
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 10			2	
River Quality Biology Sampling Points	pg 11			1	
River Quality Chemistry Sampling Points	pg 12			3	
Substantiated Pollution Incident Register	pg 14				7
Water Abstractions	pg 15			8	1 (*20)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 23	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 24	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 24		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 25		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 25		18	31	67

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 39			1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 39				1
Licensed Waste Management Facilities (Locations)	pg 39	1	1		
Local Authority Landfill Coverage	pg 40	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 40				1
Potentially Infilled Land (Non-Water)	pg 40		1	2	4
Potentially Infilled Land (Water)	pg 40		2		
Registered Landfill Sites	pg 41			1	3
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 43	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 43	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 45	2	1	3	3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 46	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 46		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 46	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 47	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 47		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 47	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 48	1	28	4	14
Fuel Station Entries	pg 52		1		1
Points of Interest - Commercial Services	pg 52		8		4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 53	3	7	6	2
Points of Interest - Public Infrastructure	pg 55				8
Points of Interest - Recreational and Environmental	pg 55				2
Gas Pipelines	pg 56		1		
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 57		1		
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (W)	0	1	288043 69025
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	16	1	287900 68900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	32	1	287950 68850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	55	1	287900 68850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	60	1	288100 68800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	87	1	287800 68900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	98	1	288000 68750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	106	1	287750 68950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	149	1	287700 69000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	154	1	287700 68950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	192	1	288043 68650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	199	1	287650 69025
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	257	1	287650 69150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	360	1	287500 68900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	367	1	287550 69200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	397	1	287550 69300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	421	1	287600 69450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	478	1	287450 69250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	478	1	287400 69150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Hall & Woodhouse Limited Property Type: FOOD+BEVERAGE SERVICES/CAFE/RESTAURANT/PUB Location: Barn Owl Pub Restaurant & 5 Chalets The Barn Owl Pub Restaurant, Aller Road, Newton Abbot, Devon, Tq12 5an Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Eprpb3036ag Permit Version: 1 Effective Date: 1st July 2013 Issued Date: 1st July 2013 Revocation Date: 7th August 2013 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Aller Brook Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (W)	225	2	287624 68990
1	Discharge Consents Operator: Hall & Woodhouse Ltd Property Type: FOOD+BEVERAGE SERVICES/CAFE/RESTAURANT/PUB Location: Barn Owl Pub Restaurant & 5 Chalets The Barn Owl Pub Restaurant, Aller Road, Newton Abbot, Devon, Tq12 5an Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Eprpb3036ag Permit Version: 2 Effective Date: 8th August 2013 Issued Date: 8th August 2013 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Aller Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (W)	270	2	287579 68986
2	Discharge Consents Operator: Persimmon Homes (South West) Ltd Property Type: Domestic Property (Single) Location: Land At Aller Vale, Off Moorpark Road, KINGSKERSWELL, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: NRA-SW-0492/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 27th February 1990 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Treated Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Licence Status: Lapsed, Revoked Or Cancelled Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	264	2	287600 68900
3	Discharge Consents Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Kingskerswell (Aller) Ps Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-1321 Permit Version: 1 Effective Date: 30th October 1989 Issued Date: 30th October 1989 Revocation Date: 23rd October 2000 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	345	2	287750 68600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Boundary Close Pumping Station 23 Boundary Close, Kingskerswell, Newton Abbot, Devon, Tq12 5bp Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 201583 Permit Version: 2 Effective Date: 20th February 2013 Issued Date: 20th February 2013 Revocation Date: 30th March 2017 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook (S) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	384	2	287709 68581
3	Discharge Consents Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Boundary Close Pumping Station 23 Boundary Close, Kingskerswell, Newton Abbot, Devon, Tq12 5bp Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 201583 Permit Version: 3 Effective Date: 31st March 2017 Issued Date: 6th March 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	389	2	287730 68560
4	Discharge Consents Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Boundary Close Pumping Station 23 Boundary Close, Kingskerswell, Newton Abbot, Devon, Tq12 5bp Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 201583 Permit Version: 1 Effective Date: 23rd October 2000 Issued Date: 1st October 2000 Revocation Date: 19th February 2013 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	414	2	287693 68556
5	Discharge Consents Operator: Hanson Aggregates Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Royal Aller Vale Quarry, Newton Abbot, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-6760 Permit Version: 2 Effective Date: 30th September 2002 Issued Date: 28th June 2002 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	488	2	287540 69480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Hanson Quarry Products Europe Limited Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Royal Aller Vale Quarry, Newton Abbot, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-6760 Permit Version: 1 Effective Date: 24th August 1994 Issued Date: 24th August 1994 Revocation Date: 29th September 2002 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	488	2	287540 69480
6	Discharge Consents Operator: Mr C G Wilson Of South West Investment Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Four Dwellings At Manor House, Coffinswell, Newton Abbot, Devon, Tq12 4sw Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 202528 Permit Version: 1 Effective Date: 15th August 2002 Issued Date: 15th August 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Or Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	671	2	288780 68540
7	Discharge Consents Operator: Mr Peter Dawson Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Ashland Hall Connybeare Lane, Coffinswell, Newton Abbot, Devon, Tq12 4sl Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 202279 Permit Version: 1 Effective Date: 12th October 2001 Issued Date: 25th October 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Sub-Surface Irrigation System Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	702	2	288910 68900
7	Discharge Consents Operator: Mr & Mrs Colledge Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Plot 2 Ashlands, Coffinswell, Newton Abbot, Devon, Tq12 4sl Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 202280 Permit Version: 1 Effective Date: 12th October 2001 Issued Date: 25th October 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Sub-Surface Irrigation System Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	747	2	288950 68870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Mr R Grogan Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Building Plot Adjc To, Cherang Tuli, Coffinswell, Devon., Tq12 4sn Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-2464/R Permit Version: 2 Effective Date: 17th December 2012 Issued Date: 17th December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Soakaway Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	752	2	288900 68600
8	Discharge Consents Operator: Mr R Grogan Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Building Plot Adjc To, Cherang Tuli, Coffinswell, Devon., Tq12 4sn Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-2464/R Permit Version: 1 Effective Date: 1st April 1997 Issued Date: 1st April 1997 Revocation Date: 16th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Soakaway Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	752	2	288900 68600
9	Discharge Consents Operator: Mr R A Golding & Ms T Stringer Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Gainsborough House (Formerly Known As Plot 3 , Ashlands), Coffinswell, Newton Abbot, Devon, Tq12 4sl Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 202281 Permit Version: 1 Effective Date: 12th October 2001 Issued Date: 25th October 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Sub-Surface Irrigation System Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	808	2	289020 68910
10	Discharge Consents Operator: South West Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Kingskerswell (Brookidore 2) Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-1323 Permit Version: 1 Effective Date: 30th October 1989 Issued Date: 30th October 1989 Revocation Date: 23rd October 2000 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Aller Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	814	2	287770 68070

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: South West Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Coffinswell Stw, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-6019 Permit Version: 1 Effective Date: 20th September 1993 Issued Date: 20th September 1993 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Coffinswell Stream (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	863	2	288950 68450
12	Discharge Consents Operator: South West Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Aller Brake Road Cso, No.1 Aller Brake Road, Newton Abbot, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: 203093 Permit Version: 1 Effective Date: 26th April 2004 Issued Date: 26th April 2004 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Surface Water Sewer (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	868	2	287397 69879
12	Discharge Consents Operator: South West Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: O/S 2 Aller Brake Road Cso, Newton Abbot, Devon Authority: Environment Agency, South West Region Catchment Area: Lower Teign & Lemon, Devon Reference: 201754 Permit Version: 1 Effective Date: 23rd October 2000 Issued Date: 23rd October 2000 Revocation Date: 25th April 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Allerbrook (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	868	2	287397 69879
13	Discharge Consents Operator: Mr R J Baker Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Granary Cottage, Churchend Road, Kingskerswell, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-2763 Permit Version: 1 Effective Date: 8th May 1991 Issued Date: 8th May 1991 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	869	2	287550 68110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Mr & Mrs M Tyrrell-Smith Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Island Cottage, Kingskerswell, Newton Abbot, Devon, Tq12 5ld Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: Nra-Sw-1902 Permit Version: 1 Effective Date: 2nd August 1990 Issued Date: 2nd August 1990 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib To Aller Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	945	2	287520 68040
15	Discharge Consents Operator: Shiphay Builders Co Property Type: Not Given Location: Dobbin Arch (Plot 4), School Lane, KINGSKERSWELL, Devon Authority: Environment Agency, South West Region Catchment Area: Tidal Teign & Torbay, Devon Reference: SWWA 833/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 12th June 1987 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Treated Effluent Discharge: Saline Estuary Environment: Receiving Water: Soakaway, Licence Status: Lapsed, Revoked Or Cancelled Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NE (S)	986	2	287650 67930
16	Integrated Pollution Prevention And Control Name: John Craxford (Plant Hire) Limited Location: Yannon Lane Landfill, 46, The Terrace, Torquay, Devon, TQ1 1DE Authority: Environment Agency, South West Region Permit Reference: RP3033MR Original Permit Ref: Zp3230bn Effective Date: 31st March 2008 Status: Revoked Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned within the geographical locality Activity Code: 5.2 A(1) (B) Activity Description: Waste Landfilling; Any Other Landfill To Which The 2002 Landfill Regulations Apply Primary Activity: Y	A7SW (SW)	989	2	287166 68256
17	Local Authority Pollution Prevention and Controls Name: Westcombe Service Station Location: Aller, Kingskerswell, NEWTON ABBOT, Devon, TQ12 5AT Authority: Teignbridge District Council, Environmental Health Department Permit Reference: EPA/29285wes Dated: 31st March 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SE (S)	107	3	288065 68738
18	Local Authority Pollution Prevention and Controls Name: Arc South Western Location: Aller Vale Quarry, Newton Abbot Authority: Teignbridge District Council, Environmental Health Department Permit Reference: 61ARCS0000 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Site Closed Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	443	3	287589 69472

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Local Authority Pollution Prevention and Controls Name: Hanson Ltd Location: Aller Vale, Torquay Road, NEWTON ABBOT, Devon, TQ12 4NW Authority: Teignbridge District Council, Environmental Health Department Permit Reference: 08/00084/B Dated: 9th February 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Automatically positioned to the address	A17SE (NW)	447	3	287584 69471
19	Local Authority Pollution Prevention and Controls Name: Aller Vale Garage (Cox Bros) Ltd Location: 32 Newton Road, Kingskerswell, NEWTON ABBOT, Devon, TQ12 5AG Authority: Teignbridge District Council, Environmental Health Department Permit Reference: 1788000320000 Dated: 8th April 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SE (S)	614	3	288077 68229
	Nearest Surface Water Feature	A13SW (SW)	0	-	288013 68968
20	Pollution Incidents to Controlled Waters Property Type: Aggregate (Sand/Gravel) Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Quarry/Extraction Water Note: Mechanical/Electrical Plant Failure Incident Date: 3rd December 1993 Incident Reference: 62014492 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	48	2	288000 68800
21	Pollution Incidents to Controlled Waters Property Type: Mines & Quarries/Mineral Industries Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Quarry/Extraction Water Note: Inadequate Design/Capacity Incident Date: 12th November 1991 Incident Reference: 31001978 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	51	2	287800 69000
22	Pollution Incidents to Controlled Waters Property Type: Aggregate (Sand/Gravel) Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Quarry/Extraction Water Note: Inadequate Design/Capacity Incident Date: 18th September 1992 Incident Reference: 62006889 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	87	2	287800 68900
23	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Rubble/Litter Or Solids Note: Poor Operational Practise Incident Date: 23rd June 1992 Incident Reference: 62006363 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	228	2	287700 68800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Other Farming Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Surface Water Note: Not Supplied Incident Date: 3rd May 1991 Incident Reference: 62002640 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	348	2	288500 68700
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Unknown Note: Not Supplied Incident Date: 20th August 1994 Incident Reference: 62017204 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	375	2	287700 68600
26	Pollution Incidents to Controlled Waters Property Type: Aggregate (Sand/Gravel) Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Quarry/Extraction Water Note: Poor Management Control Incident Date: 15th August 1995 Incident Reference: 62011694 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	532	2	287500 69500
27	Pollution Incidents to Controlled Waters Property Type: Road (Road Traffic Accident) Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Oils - Waste Oil Note: Accidental Spillage/Leakage Incident Date: 8th March 1995 Incident Reference: 62000695 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	579	2	287500 68500
28	Pollution Incidents to Controlled Waters Property Type: Other Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Surface Water Note: Miscellaneous/Other Pollution Type Incident Date: 28th June 1992 Incident Reference: 62006358 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	683	2	287200 69200
29	Pollution Incidents to Controlled Waters Property Type: Timber Processing Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Surface Water Note: Poor Operational Practise Incident Date: 8th May 1991 Incident Reference: 62002146 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	809	2	287700 68100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 12th August 1993 Incident Reference: 62014744 Catchment Area: Lower Teign & Lemon, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	911	2	287501 70001
31	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Sewage - Treated Effluent Note: Mechanical/Electrical Plant Failure Incident Date: 3rd July 1992 Incident Reference: 62006369 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	931	2	289000 68400
32	Pollution Incidents to Controlled Waters Property Type: Public Highway: Surface Runoff Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Surface Water Note: Not Supplied Incident Date: 8th November 1995 Incident Reference: 62011003 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NE (S)	944	2	288100 67900
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Surface Water Note: Natural Causes Incident Date: 14th May 1993 Incident Reference: 62008055 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NE (S)	949	2	288100 67895
33	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Unknown Note: Not Supplied Incident Date: 16th August 1991 Incident Reference: 62002393 Catchment Area: Tidal Teign & Torbay, Devon Receiving Water: Freshwater Stream/River Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10NW (SE)	977	2	289100 68495
	River Quality Name: Aller B (Teign) GQA Grade: River Quality A Reach: Manor Drive Kingskerswell-Aller Orchard Estimated Distance (km): 1.9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A12SE (W)	266	2	287602 68889

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Aller B (Teign) GQA Grade: River Quality A Reach: Aller Orchard-Penninn Newton Abbot Estimated Distance (km): 1.8 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A12SE (W)	305	2	287545 68970
34	River Quality Biology Sampling Points Name: Aller Brook (Teign) Reach: Aller Orchard To Penninn Newton Abbot Estimated Distance: 1.80 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade C - Fairly Good	A12SE (W)	300	2	287550 69000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	River Quality Chemistry Sampling Points Name: Aller Brook (Teign) Reach: Source To Edginswell Pumping Station Estimated Distance: 1.20 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A12SE (W)	254	2	287598 68950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	River Quality Chemistry Sampling Points Name: Aller Brook (Teign) Reach: Edginswell Pumping Stn To Kingskerswell Estimated Distance: 1.90 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A12SE (W)	254	2	287598 68950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	River Quality Chemistry Sampling Points Name: Aller Brook (Teign) Reach: Manor Drive Kingskerswell To Aller Orchard Estimated Distance: 1.90 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A12SE (W)	254	2	287598 68950
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480562 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	963	2	287227 68230
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480549 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	969	2	287215 68233

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480528 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	970	2	287217 68229
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480572 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	972	2	287215 68229
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480580 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	972	2	287219 68225
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480588 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	977	2	287215 68221
36	Substantiated Pollution Incident Register Authority: Environment Agency - South West Region, Devon and Cornwall Area Incident Date: 28th March 2007 Incident Reference: 480595 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7SW (SW)	981	2	287215 68216
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 102 Location: Royal Aller Vale Quarry - Borehole (Point B) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Quarry & Zig-Zag Quarry, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	453	2	287600 69500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 102 Location: Royal Aller Vale Quarry - Well (Point A) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Quarry & Zig-Zag Quarry, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	453	2	287600 69500
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 101 Location: Royal Aller Vale Quarry - Borehole (Point B) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Quarry & Zig-Zag Quarry, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	2	287600 69500
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 101 Location: Royal Aller Vale Quarry - Well (Point A) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Quarry & Zig-Zag Quarry, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	2	287600 69500
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 100 Location: Royal Aller Vale Quarry - Borehole (Point B) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Quarry, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	453	2	287600 69500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 100 Location: Royal Aller Vale Quarry - Well (Point A) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1091 Yearly Rate (m3): 54545 Details: Royal Aller Vale Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	2	287600 69500
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 100 Location: Royal Aller Vale Quarry - Well (Point A) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Quarry, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	2	287600 69500
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 14/46/003/0047 Permit Version: 100 Location: Royal Aller Vale Quarry - Borehole (Point B) Authority: Environment Agency, South West Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royal Aller Vale Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	2	287600 69500
38	Water Abstractions Operator: Mr S R Lancaster Licence Number: 14/46/003/0112 Permit Version: 100 Location: Court Barton Farm, Tapped Spring Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At, Court Barton Farm, Coffinswell Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th March 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (SE)	975	2	289100 68500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr R J Rowe Licence Number: 14/46/003/0129 Permit Version: 100 Location: Home Farm, Tapped Spring Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Home Farm, Hacombe, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd September 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SW (NE)	1413	2	289200 70100
	Water Abstractions Operator: J SAINSBURY PLC Licence Number: 14460030147 Permit Version: Not Supplied Location: Sainsbury's, NEWTON ABBOT Authority: Environment Agency, South West Region Abstraction: Private Water Supplies (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 11.00 Yearly Rate (m3): 4000.00 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1539	2	287105 70495
	Water Abstractions Operator: J SAINSBURY PLC Licence Number: 14460030147 Permit Version: Not Supplied Location: Sainsbury's, NEWTON ABBOT Authority: Environment Agency, South West Region Abstraction: Industrial Cooling (Miscellaneous) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 931.80 Yearly Rate (m3): 3164.00 Details: Non-Evaporative Cool Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1543	2	287105 70500
	Water Abstractions Operator: J Sainsbury Plc Licence Number: 14/46/003/0147 Permit Version: 100 Location: J Sainsbury Plc - Sealed Sump Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (High Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Sainsbury'S, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1546	2	287100 70500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: J Sainsbury Plc Licence Number: 14/46/003/0147 Permit Version: 100 Location: J Sainsbury Plc - Sealed Sump Authority: Environment Agency, South West Region Abstraction: Private Water Supply: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 131 Yearly Rate (m3): 24000 Details: Sainsbury'S, Newton Abbot Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1546	2	287100 70500
	Water Abstractions Operator: J SAINSBURY PLC Licence Number: 14460030147 Permit Version: Not Supplied Location: Sainsbury's, NEWTON ABBOT Authority: Environment Agency, South West Region Abstraction: Private Water Supply (Schools/Charities/Sports Etc) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 931.80 Yearly Rate (m3): 3164.00 Details: Swimming & Paddle Pools Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1547	2	287105 70505
	Water Abstractions Operator: J SAINSBURY PLC Licence Number: 14460030147 Permit Version: Not Supplied Location: Sainsbury's, NEWTON ABBOT Authority: Environment Agency, South West Region Abstraction: Private Water Supply (Schools/Charities/Sports Etc) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 131.00 Yearly Rate (m3): 24000.00 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1550	2	287100 70505
	Water Abstractions Operator: Mr S R Lancaster Licence Number: 14/46/003/0111 Permit Version: 100 Location: Court Barton Farm, Tapped Spring Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At, Court Barton Farm, Coffinswell Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th March 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1607	2	289800 68700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: MR & MRS J L BELL Licence Number: 14460030499 Permit Version: Not Supplied Location: Lands At, Aller Brook House, COFFINSWELL Authority: Environment Agency, South West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 21.80 Yearly Rate (m3): 2045.00 Details: Aller Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5NE (SE)	1614	2	289400 67800
	Water Abstractions Operator: Mr & Mrs J L Bell Licence Number: 14460030499 Permit Version: Not Supplied Location: Lands At, Aller Brook House, COFFINSWELL Authority: Environment Agency, South West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 21.80 Yearly Rate (m3): 2045.00 Details: These Two Points; 1696 Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NE (SE)	1617	2	289400 67795
	Water Abstractions Operator: A C J & MRS B J COOPER Licence Number: 14460030006 Permit Version: Not Supplied Location: Lands At, Church Farm , HACCOMBE WITH COMBE Authority: Environment Agency, South West Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 12.70 Yearly Rate (m3): 4646.00 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1640	2	289800 69495
	Water Abstractions Operator: Mr & Mrs A & B Cooper Licence Number: 14/46/003/0006 Permit Version: 100 Location: Church Farm, Spring Catchpit Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At, Church Farm, Hacombe-With-Combe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th January 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1642	2	289800 69500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Teignbridge District Council Licence Number: 14/46/003/0693 Permit Version: 100 Location: Decoy Lake Authority: Environment Agency, South West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 96 Yearly Rate (m3): 4545 Details: Newton Abbot Parks, Gardens & Roads, Fao Client Services Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21SW (NW)	1698	2	286500 70100
	Water Abstractions Operator: Teignbridge District Council Licence Number: 14/46/003/0693 Permit Version: 100 Location: Decoy Lake Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3 Yearly Rate (m3): 709 Details: Newton Abbot Parks, Gardens & Roads, Fao Client Services Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1698	2	286500 70100
	Water Abstractions Operator: Mr & Mrs J L Bell Licence Number: 14/46/003/0498 Permit Version: 100 Location: Aller Brook House, Well Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At, Aller Brook House, Coffinswell Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th October 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5NE (SE)	1708	2	289600 67900
	Water Abstractions Operator: Mr C W Hayter Licence Number: 14/46/003/0553 Permit Version: 100 Location: Inland Water At Bond'S Lawn Between Two Points Authority: Environment Agency, South West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bonds Lawn, Haccombe, Newton Abbot, Devon Tq12 4sj Authorised Start: 01 March Authorised End: 30 September Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1771	2	289500 70300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: MR K HAYTER Licence Number: 14460030553 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, South West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 54.50 Yearly Rate (m3): 545.00 Details: March 1 To Sept 30 00014M0003000G Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1771	2	289500 70300
	Water Abstractions Operator: Teignbridge District Council Licence Number: 14/46/003/0693 Permit Version: 100 Location: Decoy Lake Authority: Environment Agency, South West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 96 Yearly Rate (m3): 4545 Details: Newton Abbot Parks, Gardens & Roads, Fao Client Services Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1871	2	286300 70100
	Water Abstractions Operator: Teignbridge District Council Licence Number: 14/46/003/0693 Permit Version: 100 Location: Decoy Lake Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3 Yearly Rate (m3): 709 Details: Newton Abbot Parks, Gardens & Roads, Fao Client Services Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1871	2	286300 70100
	Water Abstractions Operator: TEIGNBRIDGE DIST COUNCIL Licence Number: 14460030104 Permit Version: Not Supplied Location: Lands-Forde Park School, Playing Fields -, Swimming Pool, NEWTON ABBOT Authority: Environment Agency, South West Region Abstraction: Private Water Supply (Schools/Charities/Sports Etc) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 545.50 Yearly Rate (m3): 1364.00 Details: Swimming Pool Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1915	2	286201 70001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (W)	0	4	288000 69025
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (SW)	0	4	288000 69000
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (SE)	0	4	288127 68904
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (SE)	0	4	288182 68886

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (S)	0	4	288043 69000
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (E)	0	4	288197 69000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (W)	0	4	288043 69025
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (W)	0	4	288043 69025
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SE (SE)	0	4	288127 68904
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	47	2	288075 68805
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SE (S)	50	2	288086 68802
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	53	2	288000 68795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	56	2	288006 68791
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	70	2	288046 68773
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (S)	72	2	288040 68770
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	72	2	288040 68770
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (S)	73	2	288070 68775
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	76	2	288076 68775
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	83	2	288095 68774
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (S)	86	2	288093 68770
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (S)	87	2	288110 68775
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	87	2	288035 68755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	88	2	288030 68755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	93	2	288033 68750
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	47	2	288075 68805
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 604.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SE (S)	68	5	288086 68787

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SE (S)	68	5	288086 68787
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SW (S)	95	5	288017 68750
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SW (S)	146	5	287934 68724
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SW (S)	151	5	287925 68723
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SW (SW)	163	5	287893 68730
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SW (SW)	163	5	287893 68730
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	169	5	287694 68920
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	169	5	287695 68919
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A13SW (SW)	177	5	287855 68733

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 180.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A13SW (SW)	182	5	287845 68733
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	191	5	287658 68990
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 2	A12SE (W)	233	5	287629 68912
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	234	5	287624 68924
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	235	5	287626 68914
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	237	5	287628 68903
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	239	5	287626 68903
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	239	5	287625 68907
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 235.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A8NW (S)	267	5	287881 68613

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	275	5	287580 68933
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	277	5	287578 68934
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	277	5	287578 68934
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	278	5	287576 68935
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A12SE (SW)	295	5	287668 68736
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	295	5	287558 68946
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	296	5	287554 68969
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	296	5	287554 68969
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	298	5	287561 68912

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	298	5	287554 68949
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (SW)	299	5	287663 68736
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	299	5	287560 68913
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SE (W)	300	5	287550 68975
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	300	5	287550 68975
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.0 Watercourse Level: Underground Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12SE (W)	306	5	287544 68981
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NE (SW)	358	5	287675 68639
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A7NE (SW)	358	5	287687 68630
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 488.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A7NE (SW)	359	5	287693 68624

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 213.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12NE (W)	414	5	287444 69074
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A14SW (SE)	485	5	288672 68756
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A9NW (SE)	487	5	288653 68696
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 290.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A9NW (SE)	487	5	288645 68678
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NE (SW)	488	5	287661 68487
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 264.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NE (SW)	490	5	287660 68486
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A14SW (SE)	493	5	288676 68741
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12NE (W)	493	5	287415 69222
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A14SW (SE)	494	5	288678 68744

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A14SW (SE)	496	5	288677 68735
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A14SW (SE)	499	5	288682 68741
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12NE (W)	499	5	287410 69224
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: Underground Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12NE (W)	503	5	287422 69253
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12NE (W)	517	5	287409 69260
90	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A14SE (E)	520	5	288714 68780
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12NE (W)	521	5	287391 69236
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SE (NW)	526	5	287495 69481
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SE (NW)	530	5	287490 69481

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A14SE (E)	532	5	288727 68790
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 621.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12NW (W)	538	5	287358 69206
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 322.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A12SW (W)	547	5	287305 68938
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SE (NW)	561	5	287439 69453
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12NW (NW)	580	5	287360 69309
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SE (NW)	585	5	287415 69456
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A12NW (NW)	593	5	287348 69315
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A17SE (NW)	599	5	287409 69478
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A17SE (NW)	599	5	287409 69478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A17SE (NW)	600	5	287412 69483
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 485.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A17SE (NW)	600	5	287412 69484
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 245.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NE (SW)	620	5	287389 68562
106	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A17SE (NW)	636	5	287362 69466
107	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A17SW (NW)	638	5	287361 69467
108	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 350.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ford Leat Catchment Name: Teign Primacy: 2	A17SW (NW)	644	5	287357 69472
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NW (SW)	658	5	287300 68623
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NW (SW)	661	5	287302 68614
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A9SW (S)	696	5	288379 68209

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 255.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SE (NW)	719	5	287365 69632
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NW (SW)	725	5	287301 68503
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NW (SW)	732	5	287302 68490
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	740	5	287623 68217
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A7SE (SW)	741	5	287621 68217
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	746	5	287622 68210
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A9NE (SE)	750	5	288907 68623
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A9NE (SE)	750	5	288907 68623
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A9NE (SE)	762	5	288853 68484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A9NE (SE)	770	5	288860 68482
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A9NE (SE)	774	5	288867 68484
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A9NE (E)	783	5	288957 68671
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	790	5	287607 68169
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 753.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aller Brook Catchment Name: Teign Primacy: 1	A7SE (SW)	790	5	287607 68169
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7NW (SW)	817	5	287301 68364
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 189.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	823	5	287598 68136
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	823	5	287598 68136
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A9NE (SE)	829	5	288914 68455

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 424.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SW (SW)	837	5	287310 68325
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 349.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A11SE (W)	838	5	287023 68852
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A11SE (W)	846	5	287007 68914
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Beer's Brook Catchment Name: Teign Primacy: 1	A9NE (SE)	884	5	288963 68430
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	897	5	287608 68046
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 377.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	897	5	287608 68046
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	902	5	287604 68042
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A7SE (SW)	908	5	287595 68039
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 262.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A11SE (W)	913	5	286940 68901

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A2NE (SW)	924	5	287599 68020
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A2NE (SW)	924	5	287599 68020
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A2NE (SW)	930	5	287601 68012
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A2NE (SW)	934	5	287589 68013
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A2NE (SW)	940	5	287584 68010
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SW (NW)	942	5	287100 69627
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17NW (NW)	950	5	287215 69815
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17NW (NW)	960	5	287207 69820
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17NW (NW)	969	5	287218 69847

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ford Leat Catchment Name: Teign Primacy: 1	A17SW (NW)	971	5	287099 69686
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A2NE (SW)	972	5	287556 67988
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17SW (NW)	972	5	287027 69540
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17NW (NW)	987	5	287182 69834
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 2	A17NW (NW)	992	5	287178 69836
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17NW (NW)	992	5	287178 69836
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teign Primacy: 1	A17NW (NW)	994	5	287175 69837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Historical Landfill Sites Licence Holder: M H Madge Location: Newton Abbot, Devon Name: Colesville Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD08862 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 21897 Regis Ref: EK1/L/MAD004 WRC Ref: 1100/0309 BGS Ref: Not Supplied Other Ref: S(129) WR/L/LF/S(129)	A18SW (NW)	361	2	287716 69485
156	Historical Landfill Sites Licence Holder: Not Supplied Location: Decoy Name: South Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD09854 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1100/0350 BGS Ref: Not Supplied Other Ref: GDO 350	A12NW (W)	853	2	287057 69304
157	Licensed Waste Management Facilities (Landfill Boundaries) Name: Kingskerswell Licence Number: 21599 Location: JOHN CRAXFORD (PLANT HIRE) LIMITED, Kingskerswell, Newton Abbot, TQ12 5PF Licence Holder: John Craxford (Plant Hire) Limited Authority: Environment Agency - South West Region, Devon and Cornwall Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied Licence Status: Expired Issued: 22nd December 1988 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A7NE (SW)	629	2	287402 68531
158	Licensed Waste Management Facilities (Locations) Licence Number: 406468 Location: Zig Zag Quarry, Aller Brake Road, Newton Abbot, Devon, TQ12 5FN Operator Name: Harleyford Aggregates Limited Operator Location: Not Supplied Authority: Environment Agency - South West Region, Devon and Cornwall Area Site Category: Use of waste in a deposit for recovery op Licence Status: Issued Issued: 1st December 2021 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (S)	0	2	288020 68950
159	Licensed Waste Management Facilities (Locations) Licence Number: 21897 Location: Newton Abbot, Devon Operator Name: Madge M H Operator Location: Not Supplied Authority: Environment Agency - South West Region, Devon and Cornwall Area Site Category: Not Supplied Licence Status: Surrendered Issued: 15th March 1991 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 27th March 1996 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	19	2	287900 69100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Teignbridge District Council - Has supplied landfill data		0	3	288043 69025
	Local Authority Landfill Coverage Name: Devon County Council - Has supplied landfill data		0	6	288043 69025
160	Local Authority Recorded Landfill Sites Location: Newton Abbot Reference: Not Supplied Authority: Teignbridge District Council, Environmental Health Department Last Reported Unknown Status: Types of Waste: Inert Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A12NW (W)	892	3	287025 69328
161	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SE (S)	154	8	288163 68712
162	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8NE (S)	437	8	288110 68411
163	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8NE (S)	457	8	288070 68387
164	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A9NE (SE)	740	8	288866 68552
165	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12NW (W)	853	8	287059 69307
166	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A9SW (SE)	857	8	288510 68083
167	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A15NW (E)	883	8	289056 69336
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	113	8	287902 68779
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SE (W)	228	8	287632 68919

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	Registered Landfill Sites Licence Holder: M H Madge Of M & W Plant Hire Licence Reference: WR/L/LF/S(129) Site Location: Colesville Quarry, Newton Abbot, Devon Licence Easting: 287700 Licence Northing: 69500 Operator Location: Little Close, Westerland Lane, Marldon, PAIGNTON, Devon, TQ3 1RPD Authority: Environment Agency - South West Region, Devon Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence has completion certificateSurrendered Dated: 15th March 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Devon Cat.A: Inert Waste Max.Waste Permitted By Licence Prohibited Waste: Waste N.O.S.	A18SW (NW)	383	2	287700 69500
171	Registered Landfill Sites Licence Holder: Teignbridge D.C. Licence Reference: L/ 5/ 22/80 Site Location: Aller Marshes, Newton Abbot, Devon Licence Easting: 287300 Licence Northing: 70100 Operator Location: 18/19 & 21 Devon Square, NEWTON ABBOT, Devon, TQ12 2JF Authority: Environment Agency - South West Region, Devon Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 20th March 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Sheet & Pipes Devon Inert Ind.(Demol'N) Waste * Prohibited Waste: Biodegradable/Putrescible Waste Liquid Wastes Notifiable Wastes Waste Ex Toxic-Contaminated Premises	A17NE (NW)	853	2	287440 69893
172	Registered Landfill Sites Licence Holder: Watts Blake Bearne & Co Licence Reference: L/ 5/ 53/83 Site Location: South Quarry, Kingkerswell Road, Newton Abbot, Devon Licence Easting: 287000 Licence Northing: 69350 Operator Location: Park House, Courtenay Park, Newton Abbot, Devon Authority: Environment Agency - South West Region, Devon Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1983 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Sheet & Pipes Constr'N/Demol. Inert/Non-Haz/Non-Tox Devon Inert Ind.(Demol'N) Waste * Strictly Inert Household Waste Prohibited Waste: Biodegradable/Putrescible Waste Liquid Wastes Waste Extoxic-Contaminated Premises	A11NE (W)	923	2	287000 69350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	Registered Landfill Sites Licence Holder: J Craxford (Plant Hire) Ltd Licence Reference: WR/LF/S(108) 03.96 Site Location: Teignwood Plantation, Yannon Lane, Kingskerswell, Newton Abbot, Devon Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Foredown Farm, KINGSKERSWELL, Devon, TQ12 5LE Authority: Environment Agency - South West Region, Devon Area Site Category: Landfill - with transfer Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 8th March 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Devon Cat.A: Inert Waste Devon Cat.B: General Waste Devon Cat.C: Putrescible Waste Max.Waste For Transfer Max.Waste To Landfill Prohibited Waste: Waste N.O.S.	A7NW (SW)	925	2	287139 68384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A13SE (SE)	0	1	288166 68958
	BGS 1:625,000 Solid Geology Description: Bracklesham Group And Barton Group (Undifferentiated)	A13SE (W)	0	1	288043 69025
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (W)	0	1	288043 69025
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	0	1	288043 69000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	71	1	287839 68875
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	76	1	287846 68866
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (SW)	316	1	287600 68787

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	376	1	287499 68853
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	654	1	287237 69227
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	665	1	287199 69126
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (SE)	783	1	288452 68140
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NW (S)	865	1	287772 68016
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A4NW (S)	921	1	288466 68000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	BGS Recorded Mineral Sites Site Name: Zig Zag Quarry Location: Aller, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 1434 Type: Opencast Status: Active Operator: Harleyford Aggregates Ltd. Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Aller Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	0	1	288030 68995
175	BGS Recorded Mineral Sites Site Name: Moor Park Location: Kingskerswell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 68161 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Aller Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A13SW (W)	0	1	287885 68983
176	BGS Recorded Mineral Sites Site Name: Aller Farm Location: Kingskerswell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 68162 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Aller Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NE (S)	172	1	288156 68693
177	BGS Recorded Mineral Sites Site Name: Royal Aller Vale Location: Colesville, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 1427 Type: Opencast Status: Ceased Operator: Hanson Aggregates, South East Region Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Aller Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Unknown	A18SW (NW)	383	1	287700 69500
178	BGS Recorded Mineral Sites Site Name: Harpins Brake Sand Pit Location: Kingskerwell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 252312 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian Geology: Oddicombe Breccia Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NE (S)	414	1	288097 68432
179	BGS Recorded Mineral Sites Site Name: Harpins Brake Sand Pit Location: Kingskerwell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 252311 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian Geology: Oddicombe Breccia Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NE (S)	452	1	288064 68391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	BGS Recorded Mineral Sites Site Name: Coffinswell Location: Coffinswell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 58493 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian Geology: Oddicombe Breccia Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	748	1	288868 68539
181	BGS Recorded Mineral Sites Site Name: Coffinswell Gravel Pit Location: Coffinswell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 58499 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Aller Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	862	1	288505 68075
182	BGS Recorded Mineral Sites Site Name: Connybear Brake Gravel Pit Location: Coffinswell, Newton Abbot, Devon Source: British Geological Survey, National Geoscience Information Service Reference: 58492 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Aller Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A15NW (E)	876	1	289052 69326
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	33	1	287979 68822
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	33	1	287979 68822
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	33	1	287979 68822

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	69	1	288291 69058
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	85	1	288103 68774
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NE (W)	226	1	287631 69047
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	288127 68904
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	288182 68886
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	33	1	287979 68822
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	71	1	287839 68875
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	96	1	288153 68766
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	33	1	287979 68822
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	71	1	287839 68875
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	288025 69025
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	288025 69025
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	1	288043 69025

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	Contemporary Trade Directory Entries Name: Harleyford Aggregates Location: Zig Zag Quarry, Aller Brake Road, Newton Abbot, TQ12 5FN Classification: Quarries Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (W)	0	-	287911 68996
184	Contemporary Trade Directory Entries Name: Chem-Dry Riviera Location: Torquay Road, Newton Abbot, Devon, TQ12 5AT Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	61	-	287939 68822
184	Contemporary Trade Directory Entries Name: Clark Location: 11, Lyn Grove, Kingskerswell, Newton Abbot, Devon, TQ12 5AR Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	82	-	287920 68806
185	Contemporary Trade Directory Entries Name: Westcombe M O T Station Location: Newton Road, Newton Abbot, TQ12 5AT Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	85	-	288065 68761
185	Contemporary Trade Directory Entries Name: Devon Motorhomes & Cars Location: Newton Road, Newton Abbot, TQ12 5AT Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	94	-	288055 68749
185	Contemporary Trade Directory Entries Name: Devon Motorhomes & Cars Location: Newton Road, Newton Abbot, TQ12 5AT Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	94	-	288055 68749
185	Contemporary Trade Directory Entries Name: Westcombe Service Station Location: Torquay Road, Newton Abbot, Devon, TQ12 5AT Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	102	-	288066 68743
186	Contemporary Trade Directory Entries Name: Frames Direct (Sw) Ltd Location: Unit 9, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	121	-	287849 68807
186	Contemporary Trade Directory Entries Name: Fine Finishings Location: Unit 9, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Paint & Varnish Stripping Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	121	-	287849 68807
186	Contemporary Trade Directory Entries Name: S P Autobodies Location: Unit 9, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, TQ12 5AZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	122	-	287849 68807
186	Contemporary Trade Directory Entries Name: Kingskerswell Sprayworx Location: Unit 9, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, TQ12 5AZ Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	122	-	287849 68807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	Contemporary Trade Directory Entries Name: Linhay Projects Ltd Location: Unit 3, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	127	-	287862 68788
186	Contemporary Trade Directory Entries Name: Diamond Air Conditioning Location: Unit 1/3, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	127	-	287862 68788
186	Contemporary Trade Directory Entries Name: Colour Digital Print Ltd Location: Unit 1, Aller Vale Buildings, Moor Park Road, Kingskerswell, NEWTON ABBOT, Devon, TQ12 5AZ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	127	-	287862 68788
186	Contemporary Trade Directory Entries Name: J T P Joinery Location: Unit 3, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, TQ12 5AZ Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	131	-	287861 68783
186	Contemporary Trade Directory Entries Name: Smartframes South West Ltd Location: Unit 4, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, TQ12 5AZ Classification: PVC-U Products - Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	144	-	287859 68769
186	Contemporary Trade Directory Entries Name: Smart Frames South West Ltd Location: Unit 4 Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	144	-	287859 68769
186	Contemporary Trade Directory Entries Name: Thought For Paws Location: Unit 2, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	152	-	287849 68766
186	Contemporary Trade Directory Entries Name: Cadmus International Location: Unit 5, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	154	-	287856 68759
186	Contemporary Trade Directory Entries Name: Infinity Plastics Location: Unit 6, Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Plastics - Injection Moulding Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	154	-	287856 68759
187	Contemporary Trade Directory Entries Name: S V S Location: Unit 8, Aller Vale Buildings, Moor Pk Rd, Kingskerswell, Newton Abbot, Devon, TQ12 5AZ Classification: Catering Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	122	-	287838 68813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	Contemporary Trade Directory Entries Name: Chem-Dry Riviera Location: Torquay Rd, Newton Abbot, Devon, TQ12 5AT Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	160	-	288062 68684
189	Contemporary Trade Directory Entries Name: Blackmore Preservation Location: 24, Lyn Grove, Kingskerswell, Newton Abbot, TQ12 5AR Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	178	-	287918 68695
190	Contemporary Trade Directory Entries Name: Nu Oven Cleaning Location: 24, Primrose Way, Kingskerswell, Newton Abbot, Devon, TQ12 5GB Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	190	-	287750 68802
191	Contemporary Trade Directory Entries Name: County Cladding & Windows Location: Aller Mills, Kingskerswell, Newton Abbot, Devon, TQ12 5AU Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	198	-	287660 68931
192	Contemporary Trade Directory Entries Name: Beavercraft Ltd Location: Aller Orchard, Aller Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AN Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	237	-	287612 68975
192	Contemporary Trade Directory Entries Name: County Windows (UK) Ltd Location: Aller Orchard, Aller Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AN Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	237	-	287612 68975
192	Contemporary Trade Directory Entries Name: County Windows Location: Aller Orchard, Aller Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AN Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	237	-	287612 68975
193	Contemporary Trade Directory Entries Name: Trophy Pet Foods Location: Meadow Cl, Kingskerswell, Newton Abbot, Devon, TQ12 5AS Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	250	-	287841 68657
194	Contemporary Trade Directory Entries Name: Hanson Aggregates Location: Colesville Quarry, Royal Aller Vale, Torquay Road, Newton Abbot, Devon, TQ12 4NW Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	447	-	287584 69471
194	Contemporary Trade Directory Entries Name: Hanson Ready Mixed Concrete Location: Colesville Quarry, Royal Aller Vale, Aller Brake Road, Newton Abbot, TQ12 4NW Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	447	-	287584 69471
195	Contemporary Trade Directory Entries Name: Access Cleaning Services Location: Coles Lane, Kingskerswell, Newton Abbot, Devon, TQ12 5BQ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	455	-	287908 68404

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	Contemporary Trade Directory Entries Name: Impact Cleaning & Ironing Service Location: 21, Priory Avenue, Kingskerswell, Newton Abbot, Devon, TQ12 5AQ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	489	-	288203 68379
197	Contemporary Trade Directory Entries Name: Aller Vale Garage Location: 32, Newton Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AG Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	592	-	288067 68251
198	Contemporary Trade Directory Entries Name: Maxtor Storage Systems Location: 6, Aspen Drive, Newton Abbot, Devon, TQ12 4TN Classification: Storage & Shelving Systems Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (NW)	603	-	287710 69766
199	Contemporary Trade Directory Entries Name: Konnect Location: Lower Fern Rd, Newton Abbot, Devon, TQ12 4TQ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	608	-	287834 69816
199	Contemporary Trade Directory Entries Name: Iron X Press Location: 10, Lower Fern Road, Newton Abbot, Devon, TQ12 4TQ Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	616	-	287803 69816
200	Contemporary Trade Directory Entries Name: Andrew Hawkins Quality Meats Location: Milber Down, St. Marychurch Road, Coffinswell, NEWTON ABBOT, Devon, TQ12 4SE Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	663	-	288635 69609
201	Contemporary Trade Directory Entries Name: Leaflets 4 U Location: 52, Fern Road, Newton Abbot, Devon, TQ12 4NZ Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	701	-	288053 69925
201	Contemporary Trade Directory Entries Name: Marmik Window Machinery Ltd Location: 3, Cedar Road, Newton Abbot, Devon, TQ12 4NY Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	729	-	288029 69955
202	Contemporary Trade Directory Entries Name: South West Sunblinds Location: 30, Newton Road, Kingskerswell, Newton Abbot, Devon, TQ12 5AG Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	701	-	288094 68143
203	Contemporary Trade Directory Entries Name: R K Sealants & Mastic Pointing Location: 30, Lonsee Gardens, Kingskerswell, Newton Abbot, Devon, TQ12 5FE Classification: Sealant Compounds & Applications Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	715	-	287653 68228
204	Contemporary Trade Directory Entries Name: Kerswell Appliances Location: 9, Newton Road, Kingskerswell, Newton Abbot, Devon, TQ12 5EQ Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	867	-	288077 67976

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Contemporary Trade Directory Entries Name: Perky pigs Household Services Location: 5, Newton Road, Kingskerswell, Newton Abbot, Devon, TQ12 5EQ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	901	-	288084 67942
205	Contemporary Trade Directory Entries Name: Sue'S Cleaning Services Location: 23, Princess Road, Kingskerswell, Newton Abbot, TQ12 5EL Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A3NE (S)	890	-	288198 67966
206	Contemporary Trade Directory Entries Name: Keith Truscott Location: 11, St. Lukes Road, Newton Abbot, Devon, TQ12 4NE Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	971	-	287364 69984
207	Contemporary Trade Directory Entries Name: Handyman Services Location: 127, Twickenham Road, Newton Abbot, Devon, TQ12 4JH Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	973	-	288096 70194
208	Fuel Station Entries Name: Westcombe Service Station Location: Newton Road , Kingskerswell , Newton Abbot, Devon, TQ12 5AT Brand: Texaco Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13SE (S)	102	-	288066 68743
209	Fuel Station Entries Name: Allervale Garage Location: 32, Newton Road , Kingskerswell , Newton Abbot, Devon, TQ12 5AG Brand: Harvest Energy Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8SE (S)	608	-	288076 68235
210	Points of Interest - Commercial Services Name: Westcombe M O T Station Location: Newton Road, Kingskerswell, TQ12 5AT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	85	7	288065 68761
210	Points of Interest - Commercial Services Name: Wescombe MOT Station Location: Torquay Road, Newton Abbot, TQ12 5AT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	86	7	288065 68760
210	Points of Interest - Commercial Services Name: Devon Motorhomes & Cars Location: Newton Road, Kingskerswell, TQ12 5AT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	94	7	288055 68749
210	Points of Interest - Commercial Services Name: Devon Motorhomes & Cars Location: Newton Road, Newton Abbot, TQ12 5AT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	94	7	288055 68749
211	Points of Interest - Commercial Services Name: S P Autobodies Location: Unit 9 Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, TQ12 5AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	122	7	287849 68807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	Points of Interest - Commercial Services Name: Kingskerswell Sprayworx Location: Unit 9 Aller Vale Buildings, Moor Park Road, Kingskerswell, TQ12 5AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	122	7	287849 68807
211	Points of Interest - Commercial Services Name: Black Diamond Milkshakes Location: Unit 7 Aller Vale Buildings, Moor Park Road, Kingskerswell, Newton Abbot, TQ12 5AZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	122	7	287838 68813
212	Points of Interest - Commercial Services Name: Asbestos1 Survey Location: Aller Mills, Kingskerswell, Newton Abbot, TQ12 5AU Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	198	7	287660 68931
213	Points of Interest - Commercial Services Name: Allervale Garage Location: 32, Newton Road, Kingskerswell, Newton Abbot, TQ12 5AG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SE (S)	608	7	288076 68235
213	Points of Interest - Commercial Services Name: Car Wash Location: 32 Newton Road, Kingskerswell, Newton Abbot, TQ12 5AG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SE (S)	608	7	288076 68235
214	Points of Interest - Commercial Services Name: Allervale Garage Location: 32 Newton Road, Kingskerswell, Newton Abbot, TQ12 5AG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	701	7	288094 68143
215	Points of Interest - Commercial Services Name: Brooklyn Autos Location: Foredown Quarry, Foredown Lane, Kingskerswell, Newton Abbot, TQ12 5LE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A2NE (SW)	973	7	287512 68012
216	Points of Interest - Manufacturing and Production Name: Harleyford Aggregates Location: Zig Zag Quarry, Aller Brake Road, Newton Abbot, TQ12 5FN Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13SW (W)	0	7	287911 68996
216	Points of Interest - Manufacturing and Production Name: Tank Location: TQ12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	0	7	287869 68978
217	Points of Interest - Manufacturing and Production Name: Zig Zag Quarry (Sand) Location: TQ12 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	0	7	287958 69059
218	Points of Interest - Manufacturing and Production Name: Milber Estates Location: Coffinswell, Newton Abbot, TQ12 4SP Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13NE (NE)	109	7	288222 69236
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	130	7	287826 68811

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	137	7	287844 68790
219	Points of Interest - Manufacturing and Production Name: Works Location: TQ12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	141	7	287840 68789
220	Points of Interest - Manufacturing and Production Name: Royal Aller Vale Quarry Location: TQ12 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	186	7	287778 69291
221	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	204	7	287650 68946
221	Points of Interest - Manufacturing and Production Name: Works Location: TQ12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	209	7	287645 68945
222	Points of Interest - Manufacturing and Production Name: Royal Aller Vale Quarry (Sand) Location: TQ12 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	253	7	288070 69467
223	Points of Interest - Manufacturing and Production Name: D J Nicholls Location: Dacombe, Newton Abbot, TQ12 4ST Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14SW (E)	386	7	288604 68979
224	Points of Interest - Manufacturing and Production Name: Tank Location: TQ12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	429	7	288425 69490
225	Points of Interest - Manufacturing and Production Name: Hanson Premix Location: Colesville Quarry Royal Aller Vale, Torquay Road, Newton Abbot, TQ12 4NW Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17SE (NW)	447	7	287584 69471
225	Points of Interest - Manufacturing and Production Name: Tank Location: TQ12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	475	7	287562 69489
225	Points of Interest - Manufacturing and Production Name: Tank Location: TQ12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	491	7	287583 69538
226	Points of Interest - Manufacturing and Production Name: Business Park Location: TQ12 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	503	7	287468 68650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	Points of Interest - Manufacturing and Production Name: N V Rew Location: Newton Abbot, TQ12 5LA Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A12NW (W)	730	7	287144 69177
228	Points of Interest - Public Infrastructure Name: Aller Vale Garage Location: 32 Newton Road, Kingskerswell, Newton Abbot, TQ12 5AG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SE (S)	608	7	288076 68235
228	Points of Interest - Public Infrastructure Name: The Cox Brothers Ltd Location: 32 Newton Road, Kingskerswell, Newton Abbot, TQ12 5AG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SE (S)	608	7	288076 68235
228	Points of Interest - Public Infrastructure Name: Allervale Garage Location: 32, Newton Road, Kingskerswell, Newton Abbot, TQ12 5AG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SE (S)	608	7	288076 68235
229	Points of Interest - Public Infrastructure Name: Sludge Beds Location: TQ12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	744	7	287662 68190
229	Points of Interest - Public Infrastructure Name: Sewage Works Location: TQ12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	746	7	287646 68196
230	Points of Interest - Public Infrastructure Name: Filter Bed Location: TQ12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	934	7	289020 68430
231	Points of Interest - Public Infrastructure Name: Sluice Location: TQ12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A2NE (SW)	972	7	287554 67989
231	Points of Interest - Public Infrastructure Name: Sluice Location: TQ12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A2NE (SW)	973	7	287557 67986
232	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	787	7	288217 68075
232	Points of Interest - Recreational and Environmental Name: Playground Location: Cresswell Close, TQ12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SE (S)	790	7	288215 68072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
233	Gas Pipelines Name: KENN SOUTH TO CHOAKFORD Nat Grid: Owned By National Grid Diameter (mm): 600 Building Proximity Not Supplied Distance (m): Status: Active Pipe Length (m): 62318.8 Pipe Number: Not Supplied	A14NW (E)	250	8	288473 69045

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	Sites of Special Scientific Interest Name: Aller Sand Pit Multiple Areas: N Total Area (m2): 2536.02 Source: Natural England Reference: 1001286 Designation Details: Geological Conservation Review Designation Date: 18th January 1993 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 18th January 1993 Date Type: Notified	A18SW (N)	220	9	287993 69447

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Teignbridge District Council - Environmental Health Department South Hams District Council - Environmental Health Department Torbay Council - Environmental Services	November 2023 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - South West Region	April 2024	Quarterly
Enforcement and Prohibition Notices Environment Agency - South West Region	March 2013	
Integrated Pollution Controls Environment Agency - South West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - South West Region	October 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control Teignbridge District Council - Environmental Health Department Torbay Council - Environmental Services South Hams District Council - Environmental Health Department	June 2014 May 2016 October 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Teignbridge District Council - Environmental Health Department Torbay Council - Environmental Services South Hams District Council - Environmental Health Department	June 2014 May 2016 October 2014	Annual Rolling Update Not Applicable Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Teignbridge District Council - Environmental Health Department Torbay Council - Environmental Services South Hams District Council - Environmental Health Department	June 2014 May 2016 October 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	March 2024	
Pollution Incidents to Controlled Waters Environment Agency - South West Region	September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - South West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - South West Region	March 2013	
Registered Radioactive Substances Environment Agency - South West Region Environment Agency - Head Office	June 2016 May 2023	As notified Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - South West Region - Devon Area Environment Agency - South West Region - Devon and Cornwall Area	April 2024 April 2024	Quarterly Quarterly
Water Abstractions Environment Agency - South West Region	April 2024	Quarterly
Water Industry Act Referrals Environment Agency - South West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	April 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	May 2024	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - South West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South West Region - Devon Area Environment Agency - South West Region - Devon and Cornwall Area	May 2024 May 2024	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South West Region - Devon Area Environment Agency - South West Region - Devon and Cornwall Area	January 2023 January 2023	Quarterly Quarterly
Local Authority Landfill Coverage Devon County Council South Hams District Council - Environmental Health Department Teignbridge District Council - Environmental Health Department Torbay Council - Environmental Services	February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Devon County Council South Hams District Council - Environmental Health Department Teignbridge District Council - Environmental Health Department Torbay Council - Environmental Services	October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - South West Region - Devon Area Environment Agency - South West Region - Devon and Cornwall Area	March 2006 March 2006	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - South West Region - Devon Area Environment Agency - South West Region - Devon and Cornwall Area	April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - South West Region - Devon Area Environment Agency - South West Region - Devon and Cornwall Area	June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Devon County Council Torbay Council South Hams District Council - Planning Department Teignbridge District Council	February 2007 February 2016 July 2023 July 2023	Annual Rolling Update Variable Variable Variable
Planning Hazardous Substance Consents South Hams District Council - Planning Department Teignbridge District Council Torbay Council Devon County Council	February 2016 February 2016 February 2016 September 2008	Variable Variable Variable Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2024	Quarterly
Points of Interest - Education and Health PointX	March 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2024	Quarterly
Points of Interest - Public Infrastructure PointX	March 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	Bi-Annually

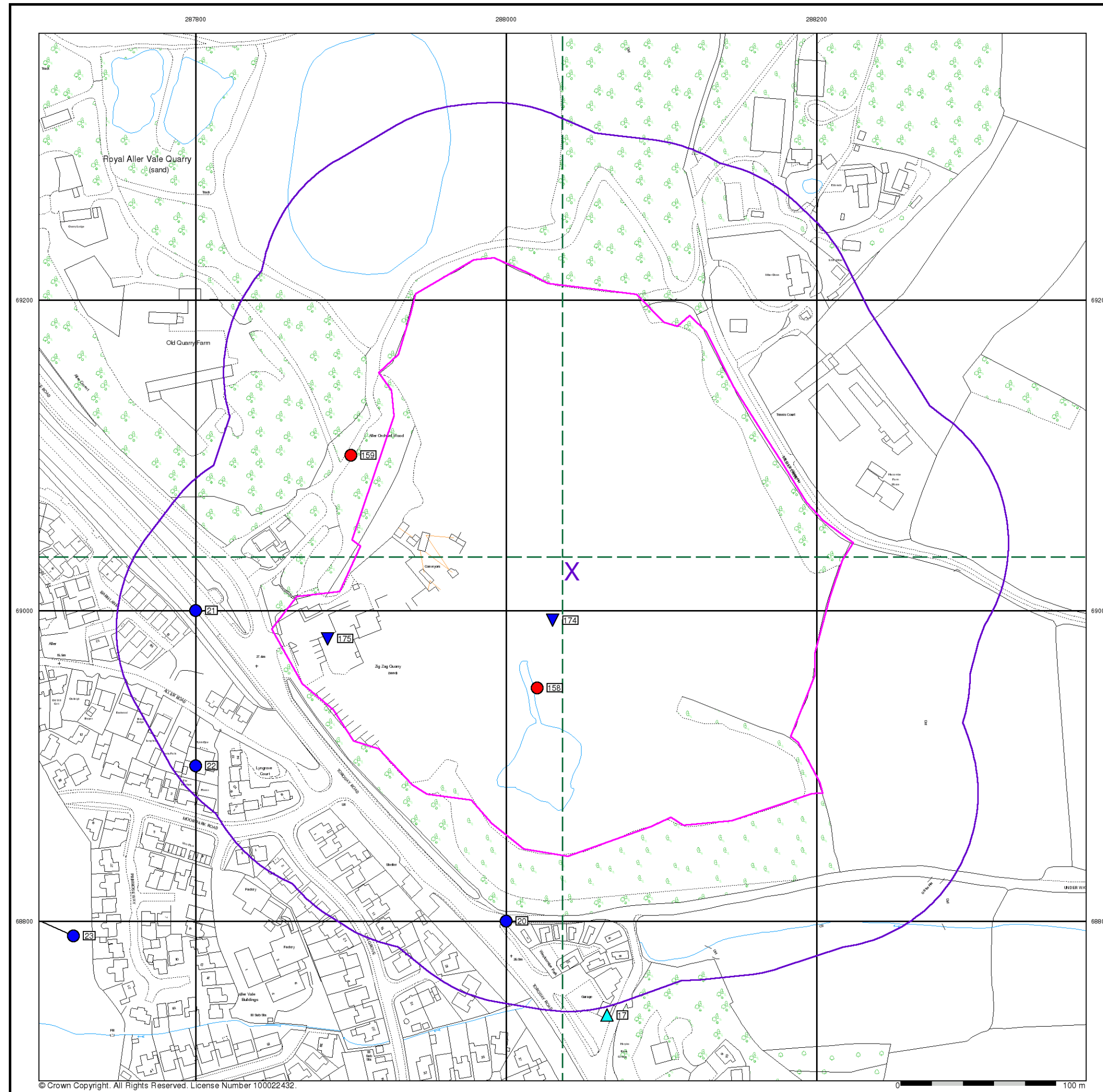
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2024	Bi-Annually
Areas of Adopted Green Belt South Hams District Council - Planning Department Teignbridge District Council Torbay Council	February 2024 February 2024 February 2024	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt South Hams District Council - Planning Department Teignbridge District Council Torbay Council	February 2024 February 2024 February 2024	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	May 2024	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	February 2024	Bi-Annually
Marine Nature Reserves Natural England	February 2024	Bi-Annually
National Nature Reserves Natural England	February 2024	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 April 2024	Bi-Annually
Ramsar Sites Natural England	February 2024	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2024	Bi-Annually
Special Areas of Conservation Natural England	April 2024	Bi-Annually
Special Protection Areas Natural England	April 2024	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Teignbridge District Council - Environmental Health Department Forde House, Brunel Road, Newton Abbot, Devon, TQ12 4XX	Telephone: 01626 361101 Fax: 01626 331874 Email: envc@teignbridge.gov.uk Website: www.teignbridge.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Devon County Council County Hall, Topsham Road, Exeter, Devon, EX2 4QD	Telephone: 01392 382000 Fax: 01392 382135 Website: www.devon.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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- General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Map ID
- Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)

Contaminated Land Register Entry or Notice

Discharge Consent

Enforcement or Prohibition Notice

Integrated Pollution Control

Integrated Pollution Prevention Control

Local Authority Integrated Pollution Prevention and Control

Local Authority Pollution Prevention and Control Enforcement

Pollution Incident to Controlled Waters

Prosecution Relating to Authorised Processes

Prosecution Relating to Controlled Waters

Registered Radioactive Substance

River Network or Water Feature

River Quality Sampling Point

Substantiated Pollution Incident Register

Water Abstraction

Water Industry Act Referral
- Waste

BGS Recorded Landfill Site (Location)

BGS Recorded Landfill Site

EA Historic Landfill (Buffered Point)

EA Historic Landfill (Polygon)

Integrated Pollution Control Registered Waste Site

Licensed Waste Management Facility (Landfill Boundary)

Licensed Waste Management Facility (Location)

Local Authority Recorded Landfill Site (Location)

Local Authority Recorded Landfill Site

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Registered Landfill Site

Registered Landfill Site (Point Buffered to 100m)

Registered Landfill Site (Point Buffered to 250m)

Registered Waste Transfer Site (Location)

Registered Waste Transfer Site

Registered Waste Treatment or Disposal Site (Location)

Registered Waste Treatment or Disposal Site
- Hazardous Substances

COMAH Site

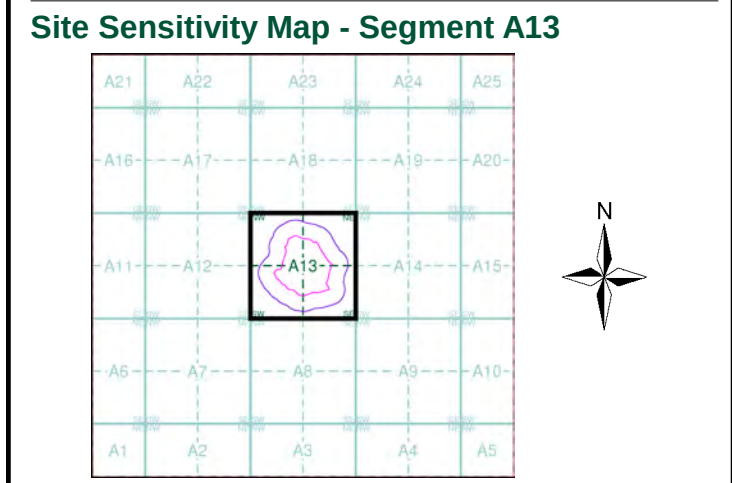
Explosive Site

NIHHS Site

Planning Hazardous Substance Consent

Planning Hazardous Substance Enforcement
- Geological

BGS Recorded Mineral Site



Order Details

Order Number:

347366419_1_1

Customer Ref:

HCE0269

National Grid Reference:

288040, 69030

Slice:

A

Site Area (Ha):

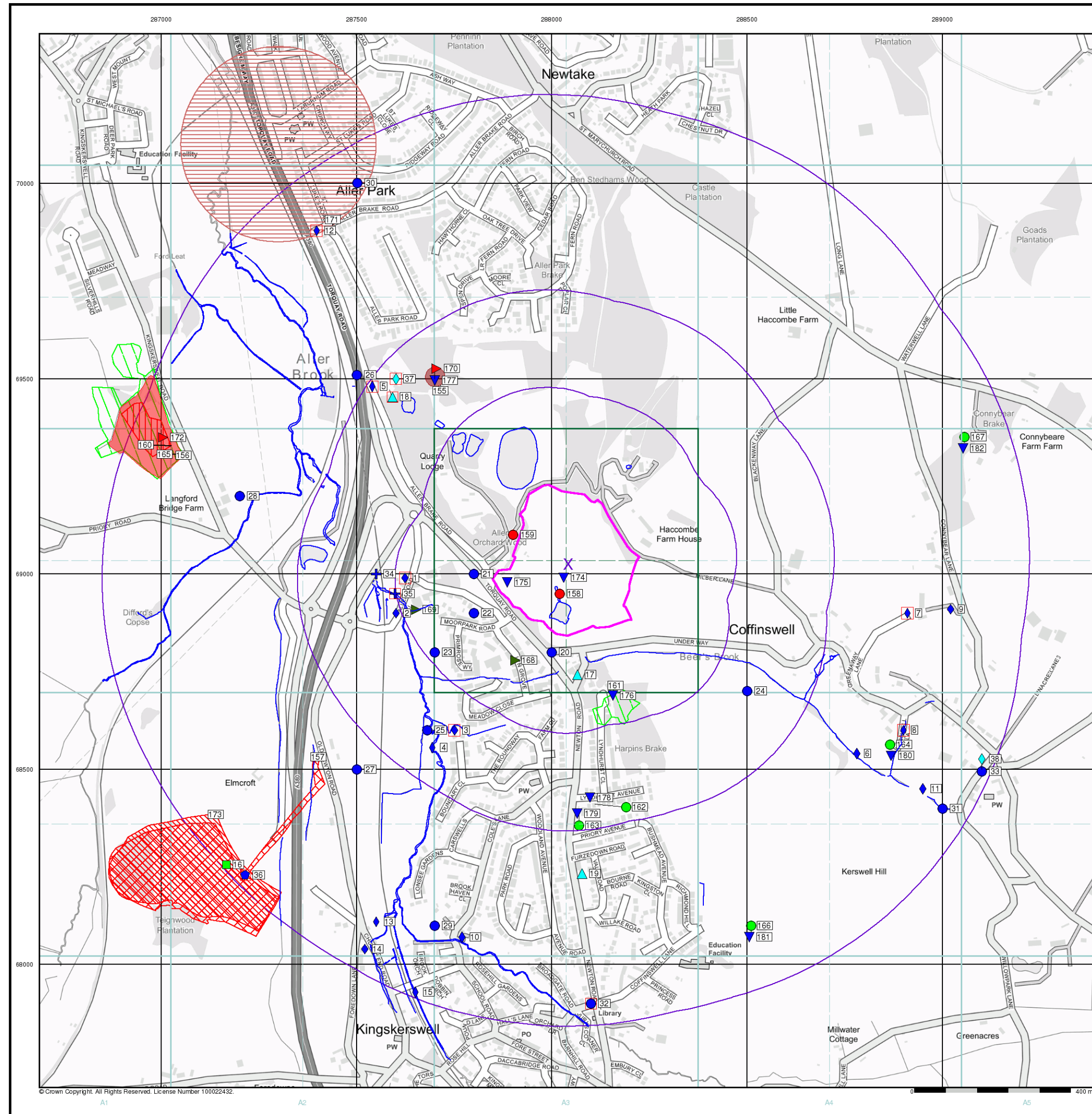
9.48

Plot Buffer (m):

100

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

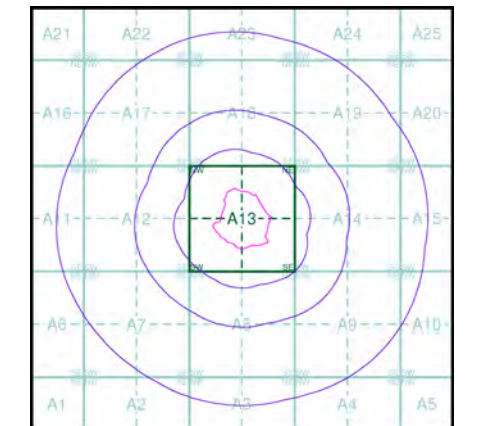
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

Site Sensitivity Map - Slice A



Order Details

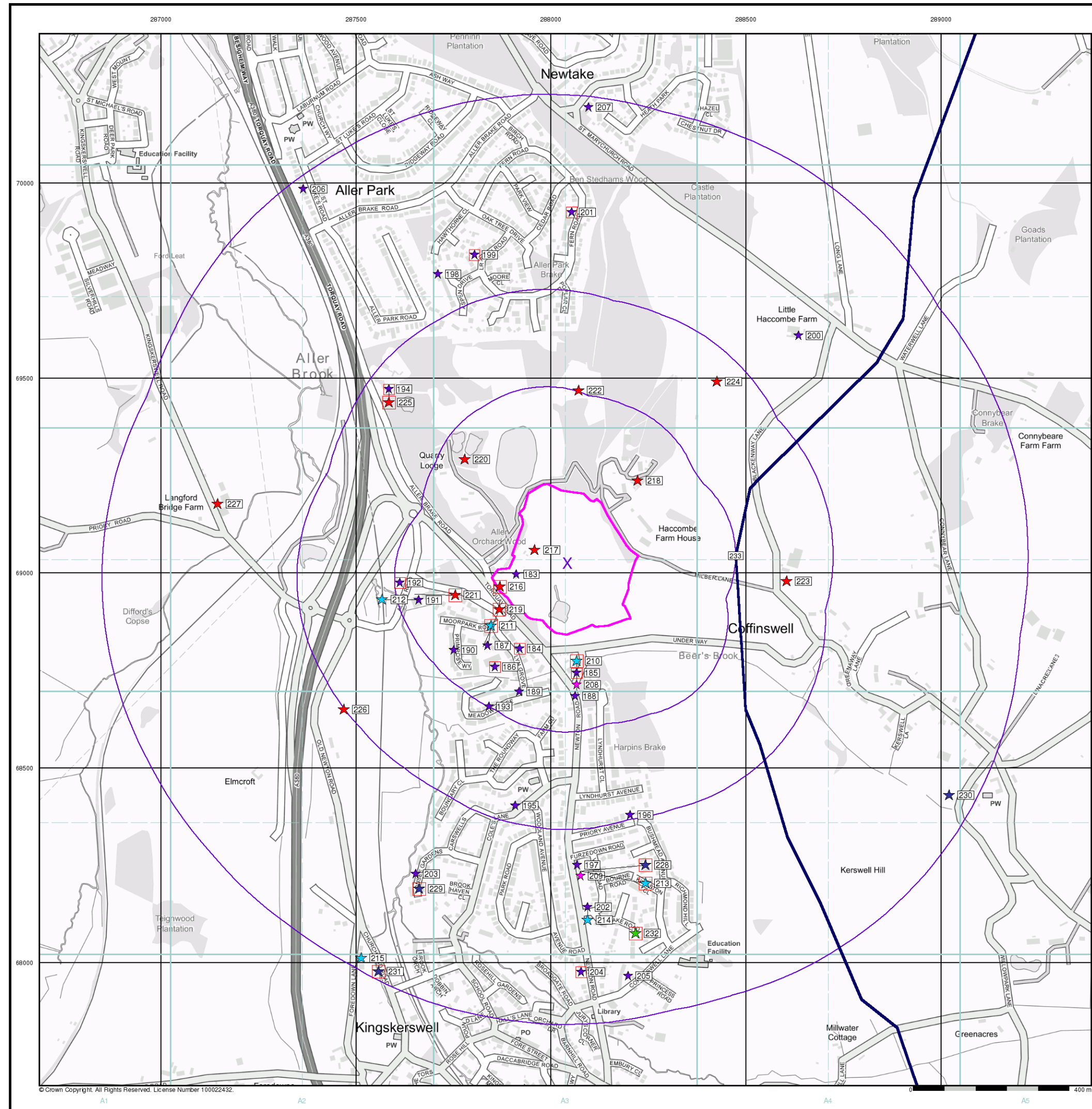
Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT,
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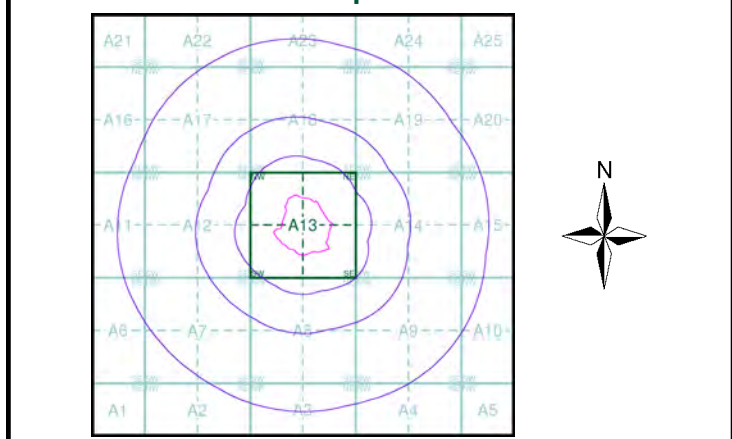
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Industrial Land Use Map

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Points of Interest - Commercial Services
 - Points of Interest - Education and Health
 - Points of Interest - Manufacturing and Production
 - Points of Interest - Public Infrastructure
 - Points of Interest - Recreational and Environmental
 - Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

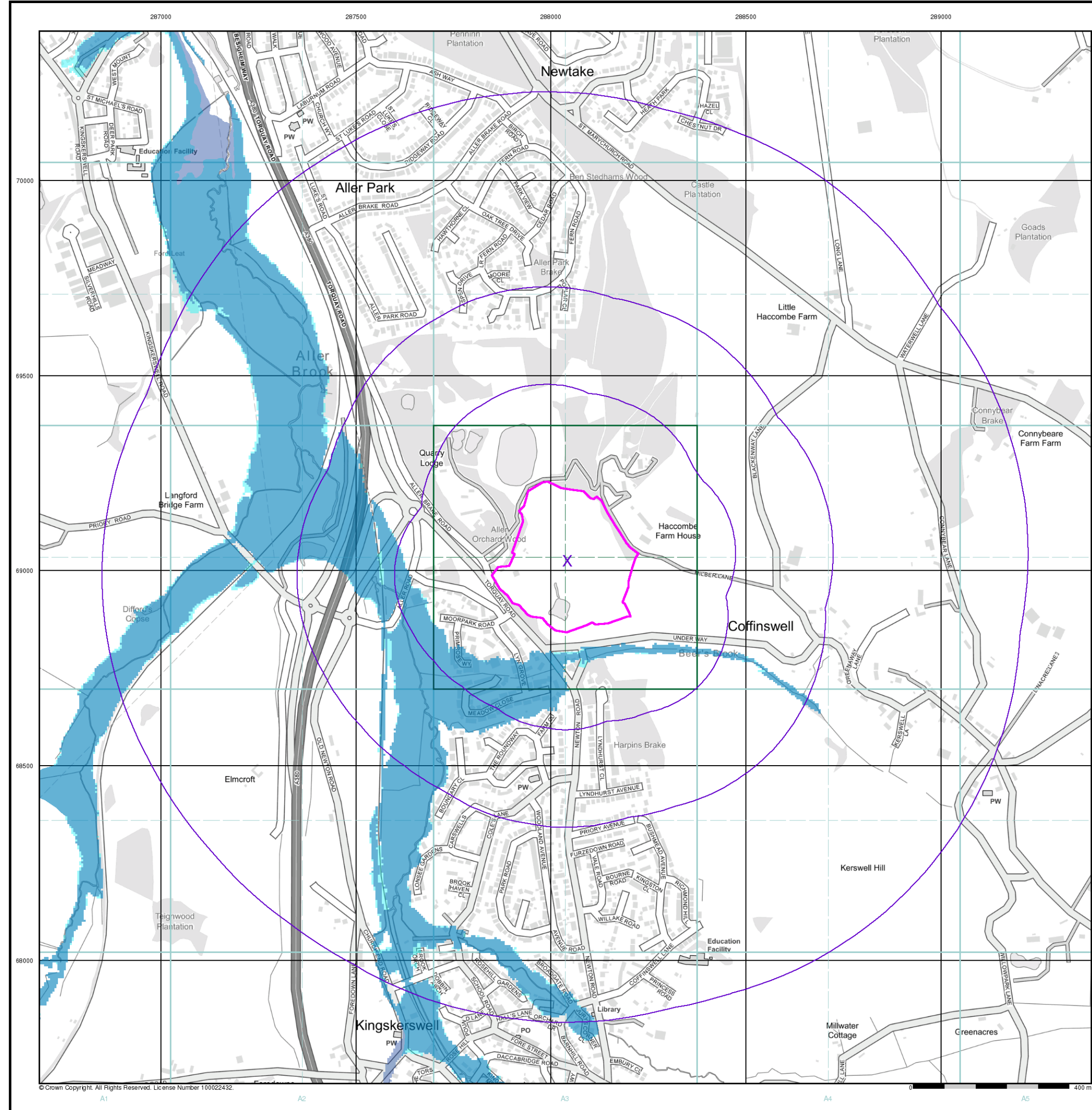
Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

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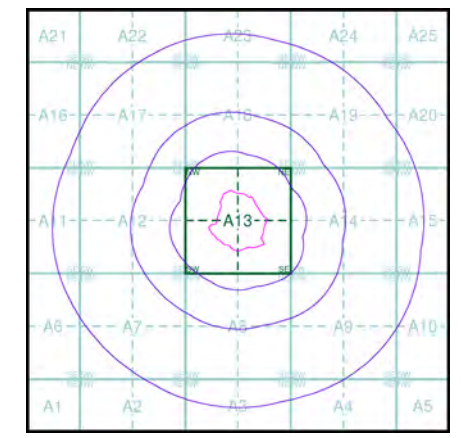
General

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

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

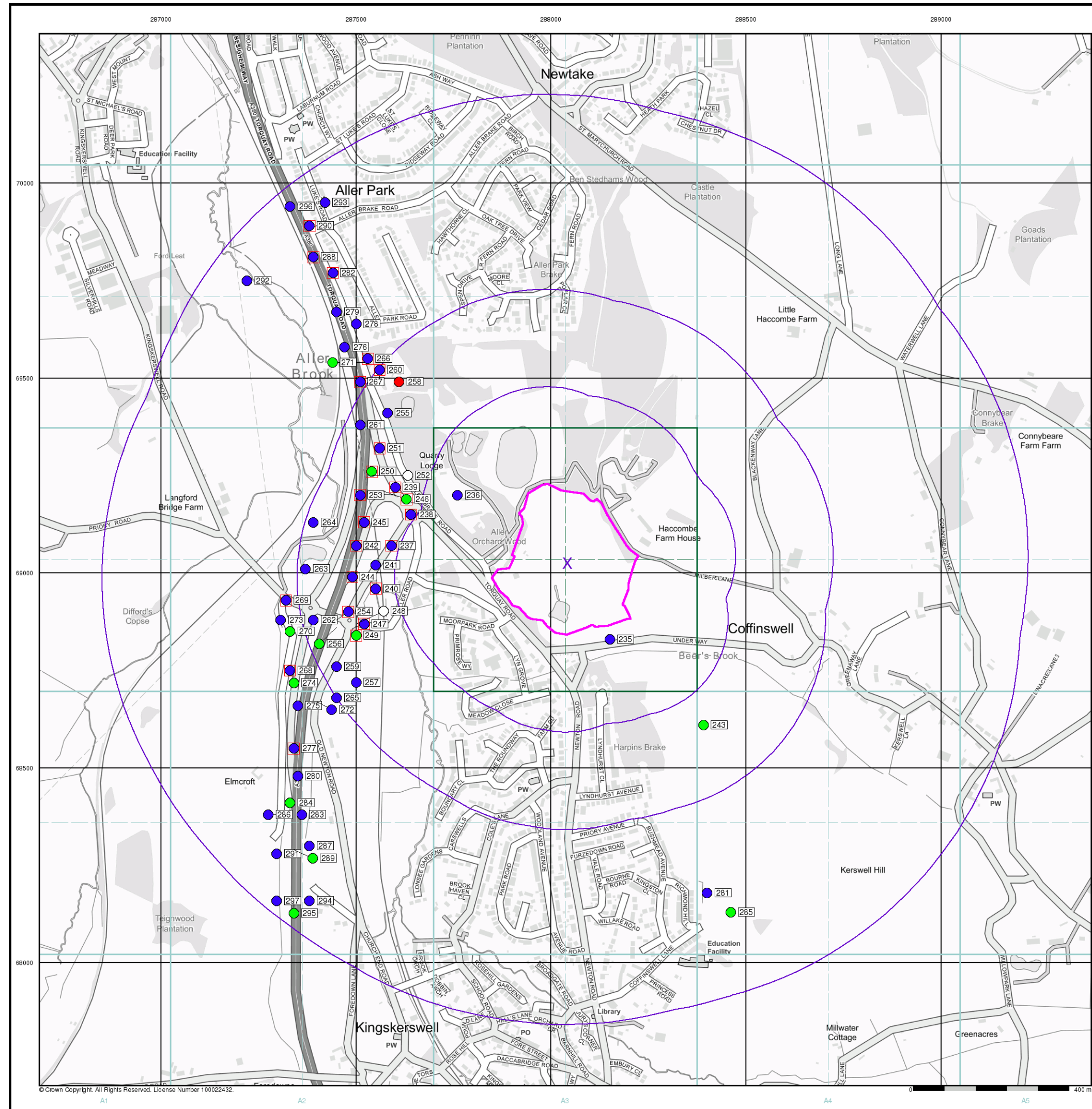


Order Details

Order Number: 347366419_1_1
 Customer Ref: HCE0269
 National Grid Reference: 288040, 69030
 Slice: A
 Site Area (Ha): 9.48
 Search Buffer (m): 1000

Site Details

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 TQ12 5AT



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details

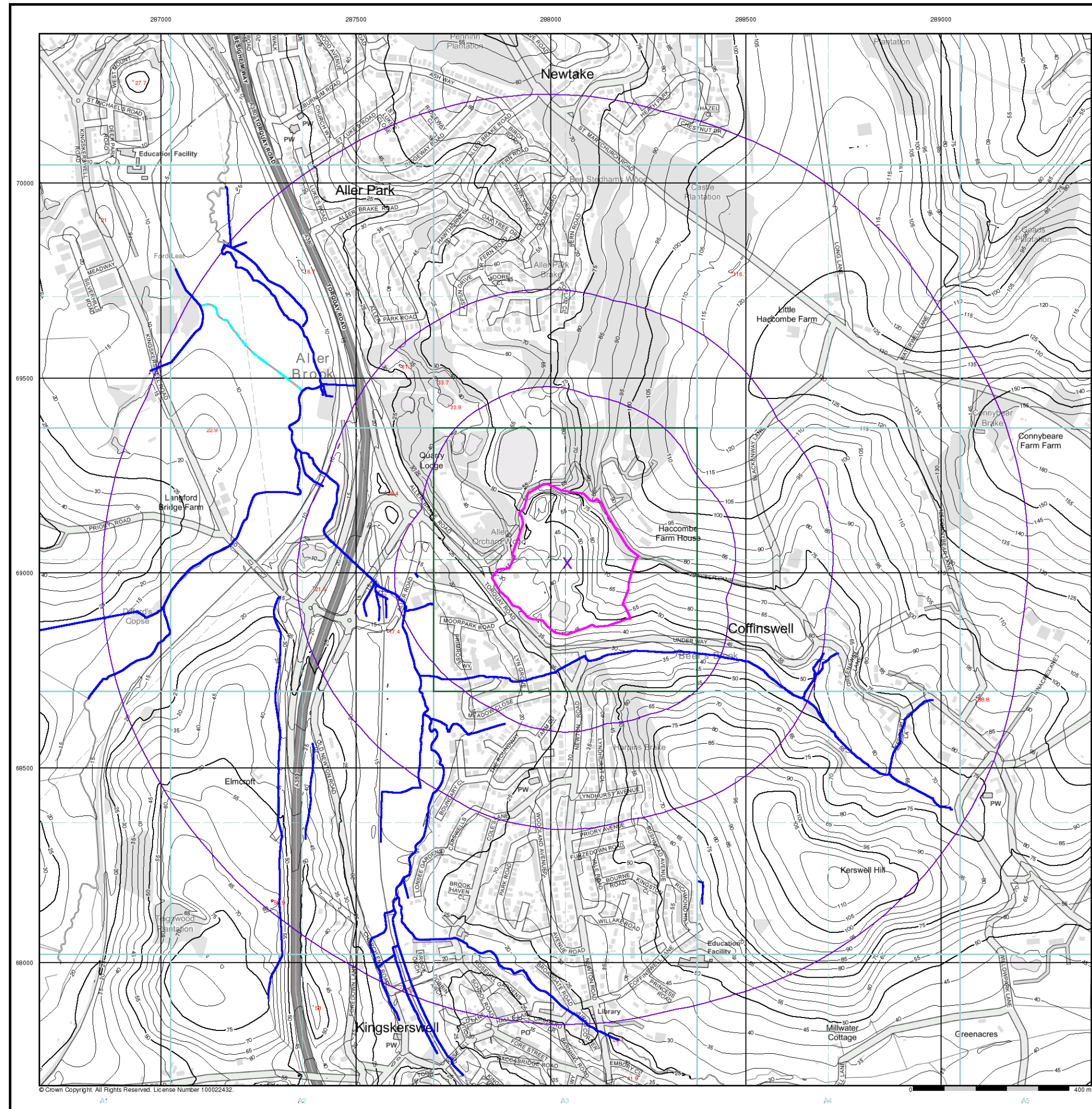
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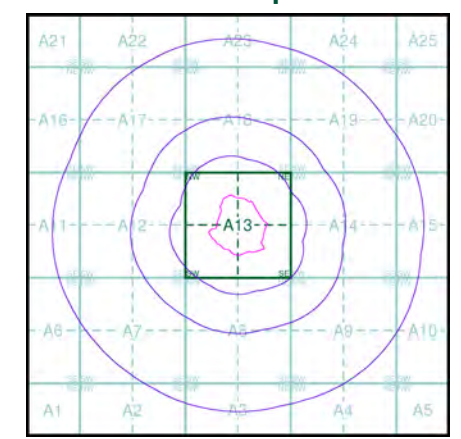
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point

- OS Water Network Data**
- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

- Contours (height in meters)**
- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 347366419_1_1

Customer Ref: HCE0269

National Grid Reference: 288040, 69030

Slice: A

Site Area (Ha): 9.48

Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

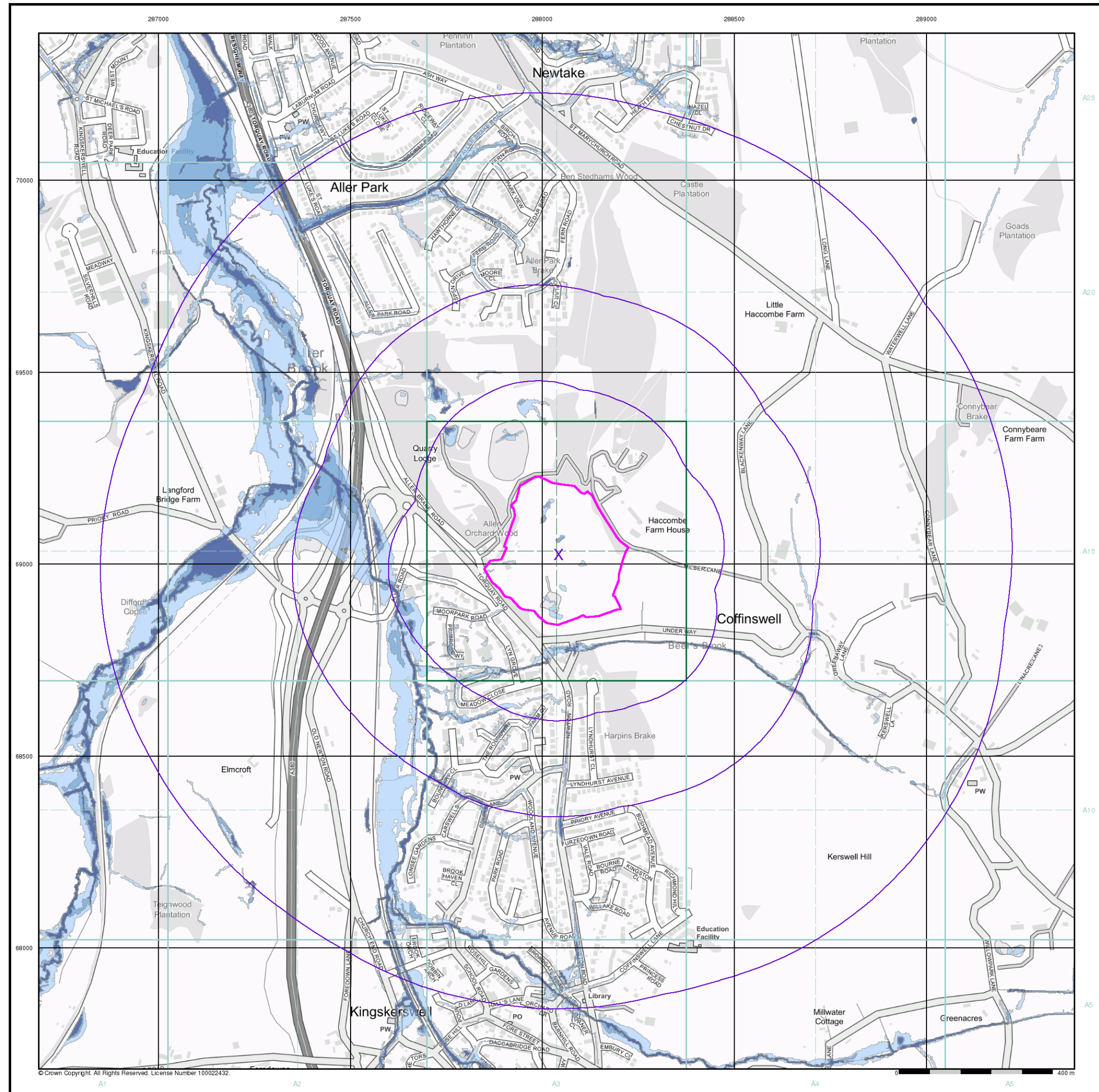
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General

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

Risk of Flooding from Surface Water

- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details

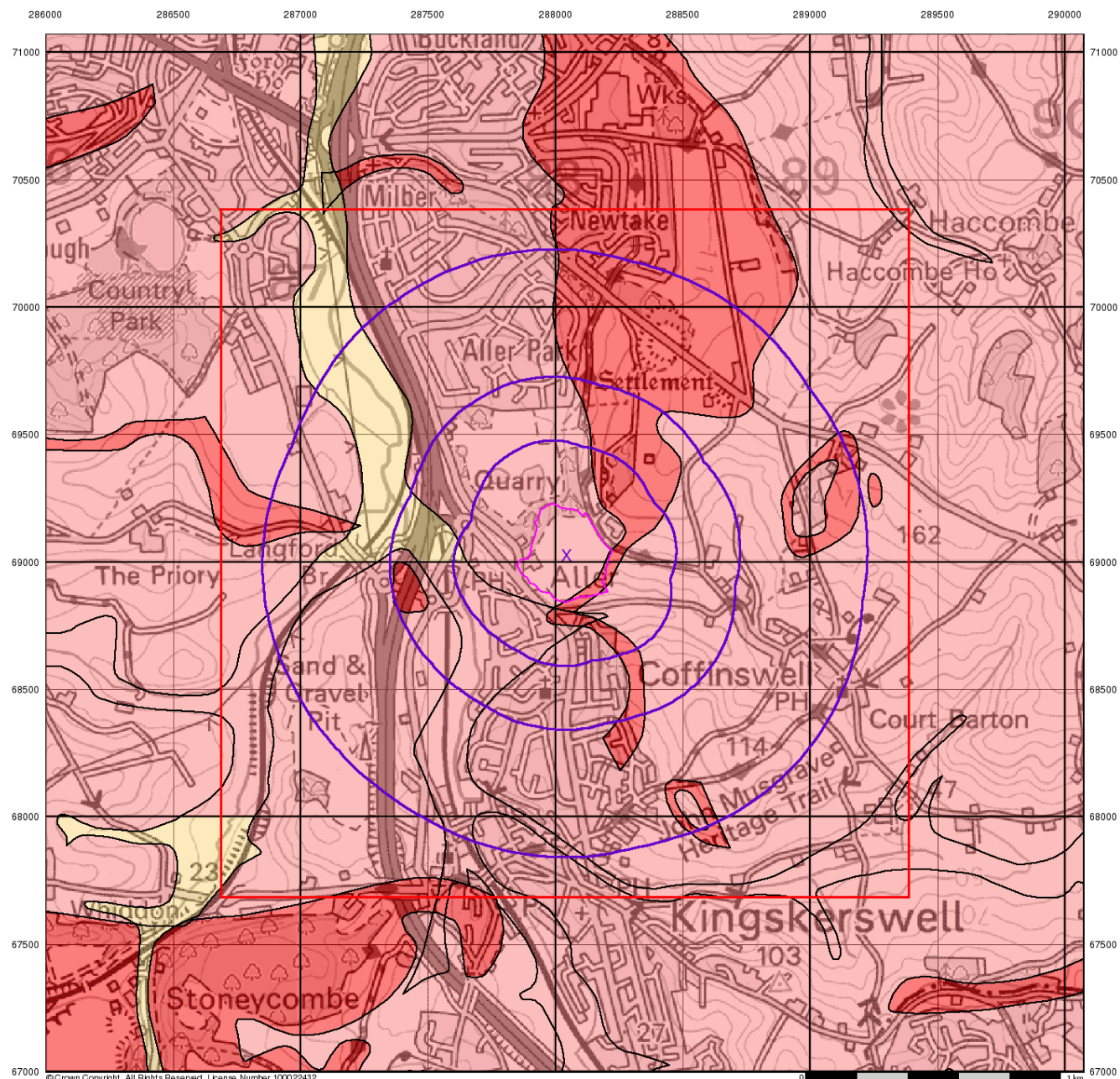
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Groundwater Vulnerability

General

- ✱ Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice 8 Map ID

Agency and Hydrological

Bedrock Aquifers

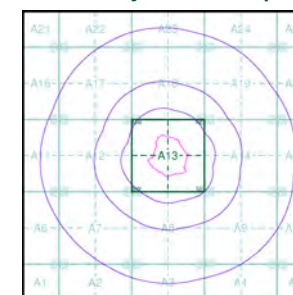
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- ⋯ Soluble Rock

Site Sensitivity Context Map - Slice A

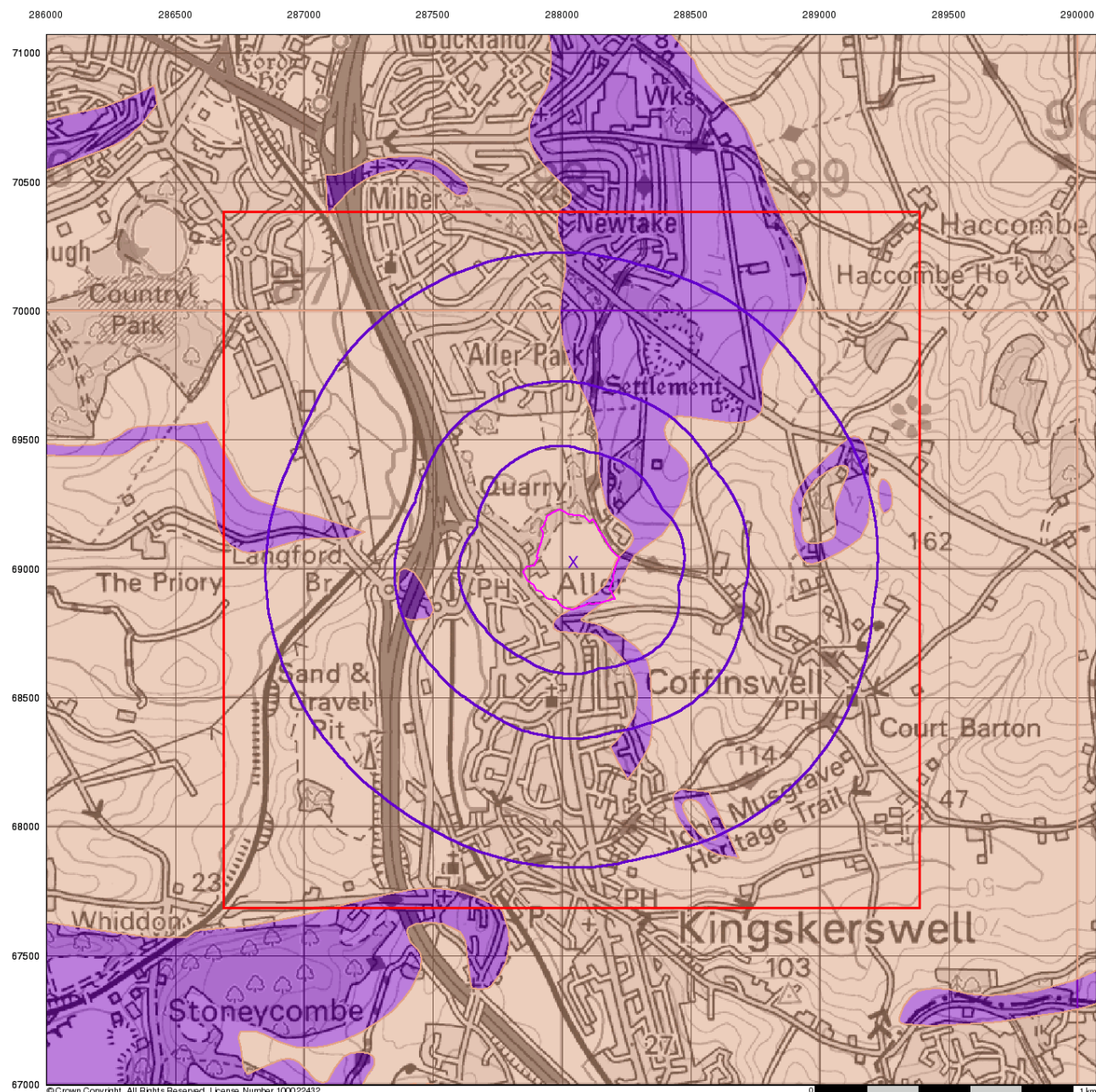


Order Details

Order Number: 347366419_1_1
 Customer Ref: HCE0269
 National Grid Reference: 288040, 69030
 Slice: A
 Site Area (Ha): 9.48
 Search Buffer (m): 1000

Site Details

Allerswell Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



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Bedrock Aquifer Designation

General

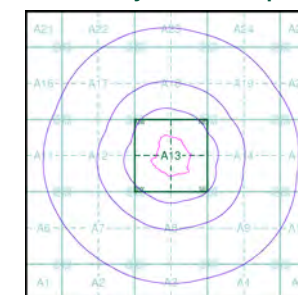
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

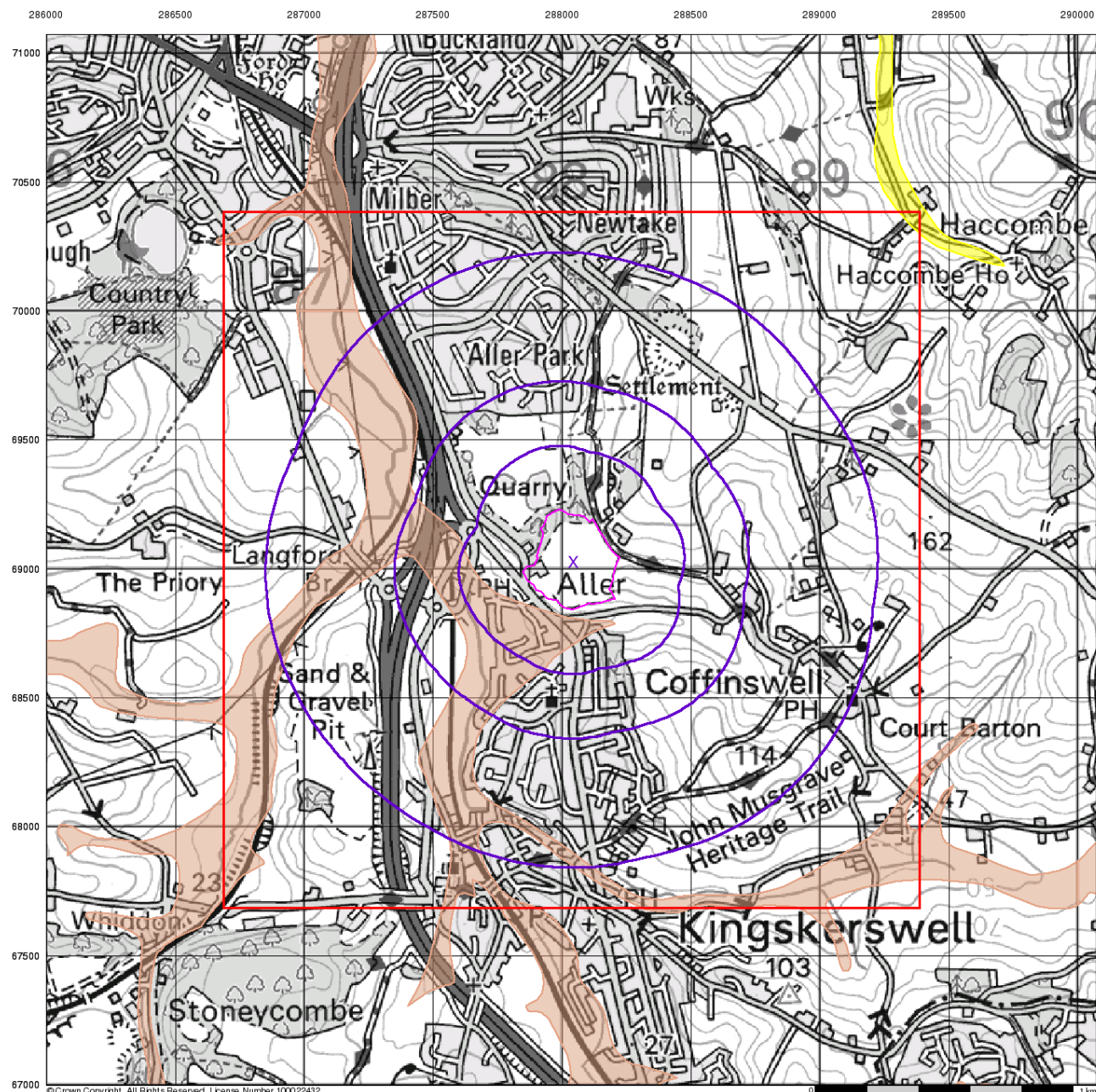


Order Details

Order Number: 347366419_1_1
 Customer Ref: HCE0269
 National Grid Reference: 288040, 69030
 Slice: A
 Site Area (Ha): 9.48
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

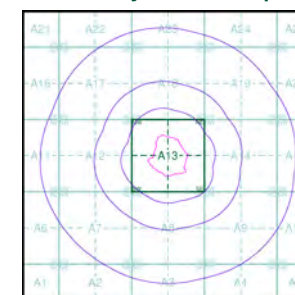
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

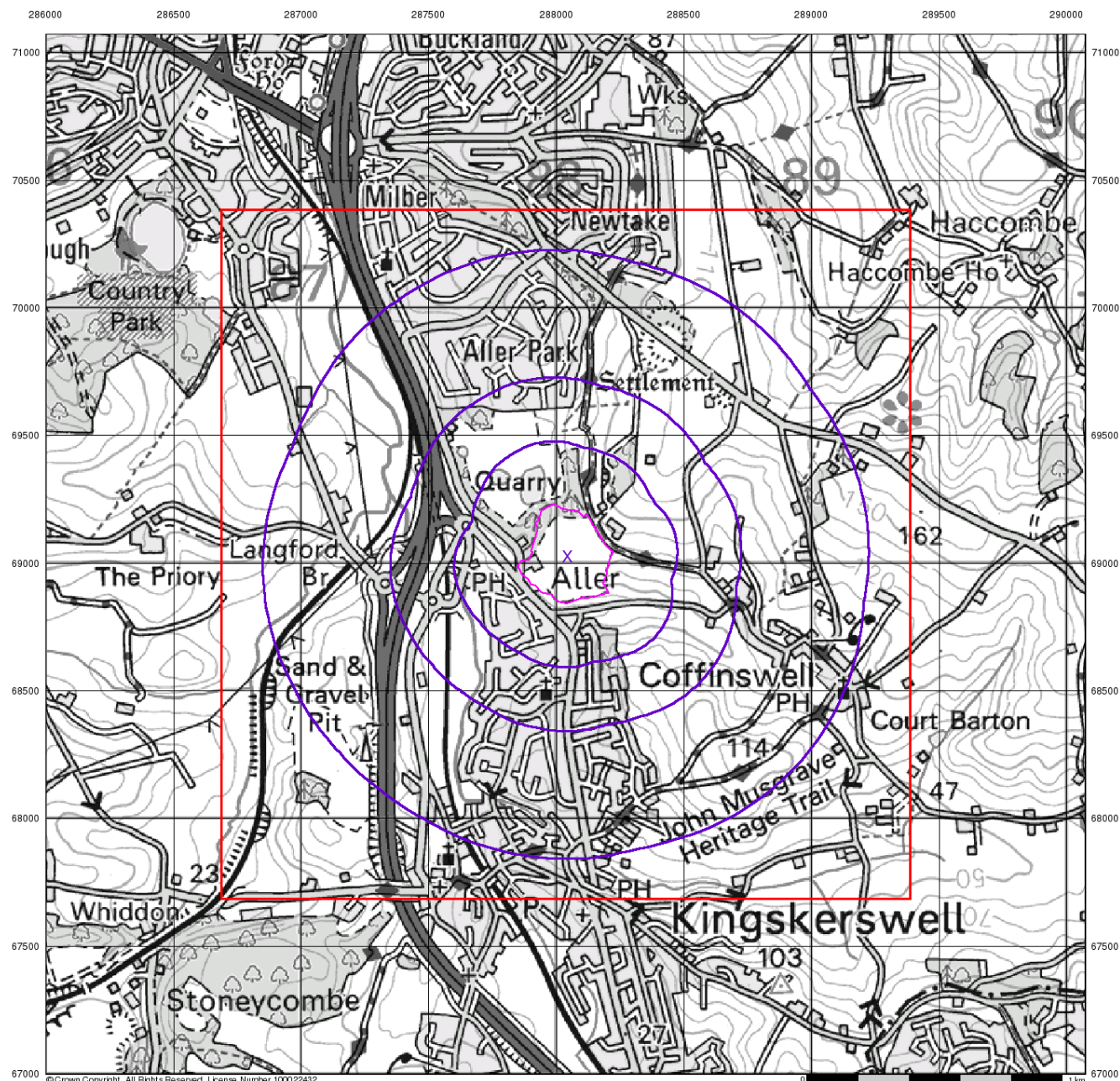


Order Details

Order Number: 347366419_1_1
 Customer Ref: HCE0269
 National Grid Reference: 288040, 69030
 Slice: A
 Site Area (Ha): 9.48
 Search Buffer (m): 1000

Site Details

Allerswell Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



Source Protection Zones

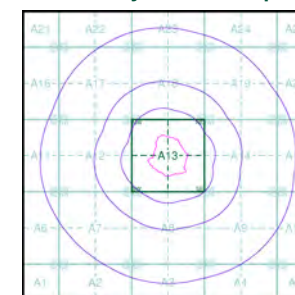
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A

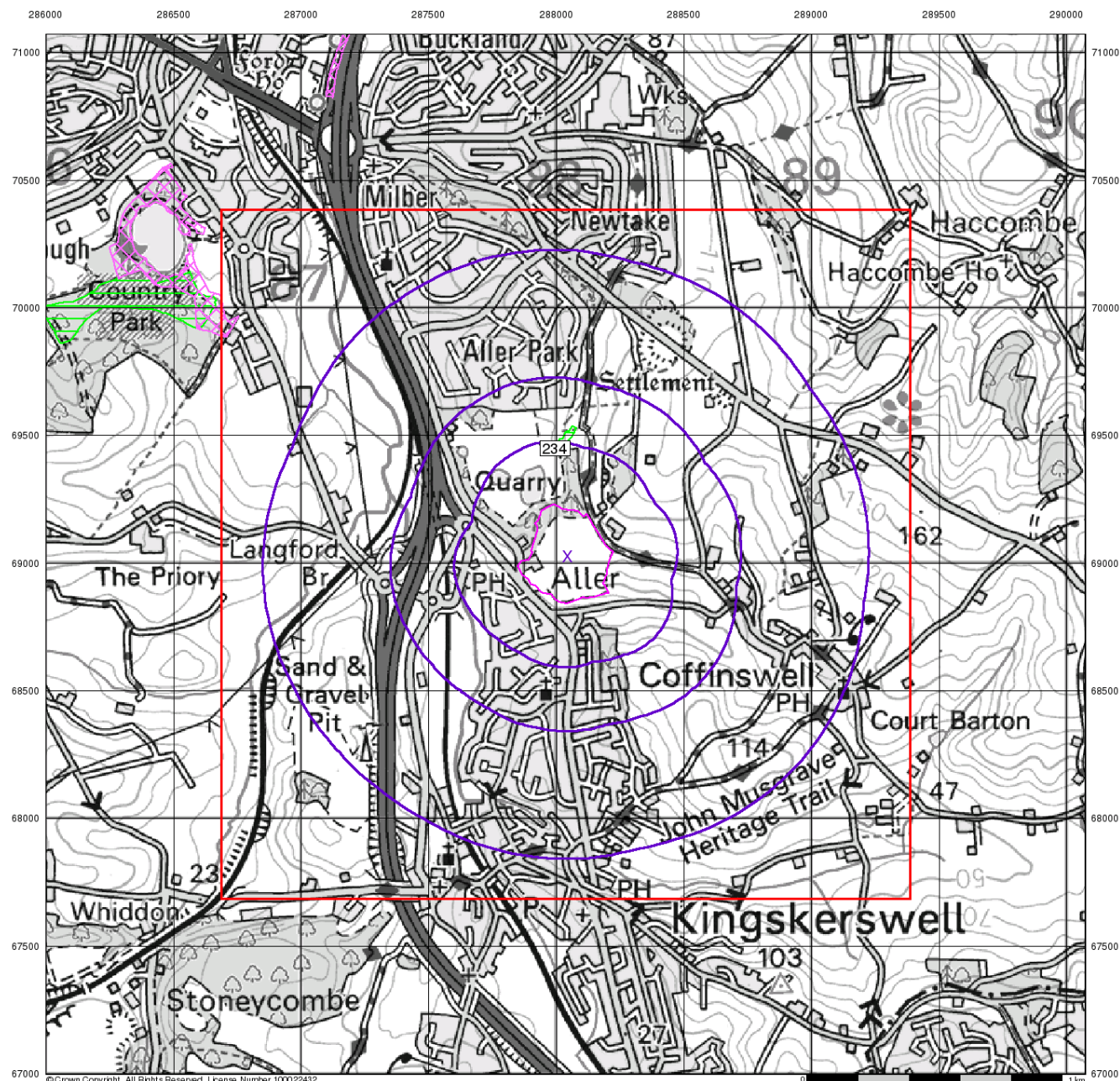


Order Details

Order Number: 347366419_1_1
 Customer Ref: HCE0269
 National Grid Reference: 288040, 69030
 Slice: A
 Site Area (Ha): 9.48
 Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



Sensitive Land Uses

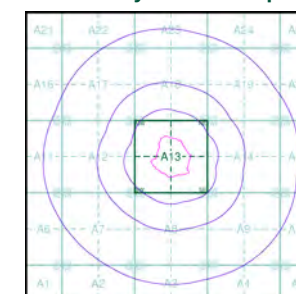
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A

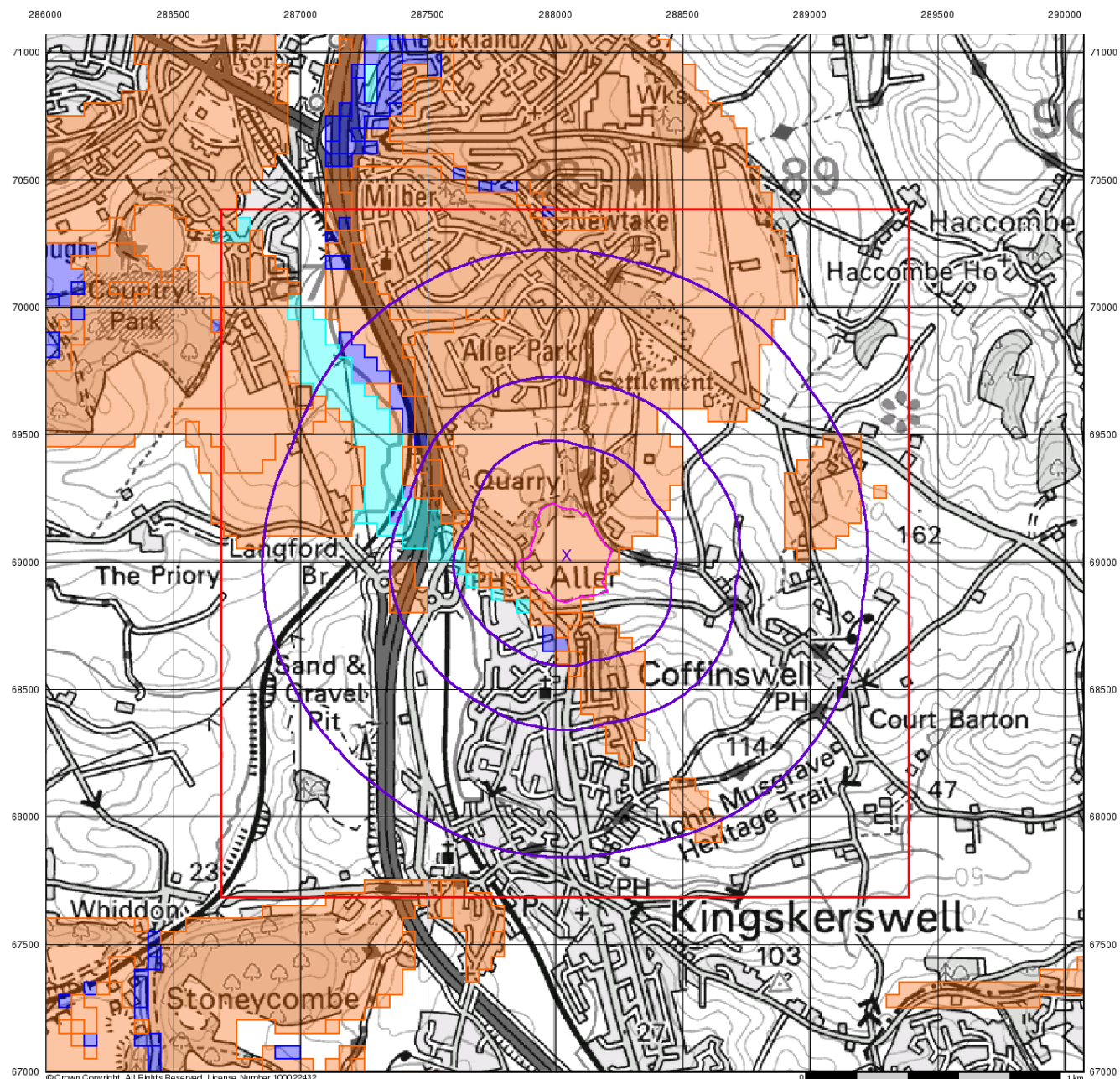


Order Details

Order Number: 347366419_1_1
 Customer Ref: HCE0269
 National Grid Reference: 288040, 69030
 Slice: A
 Site Area (Ha): 9.48
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

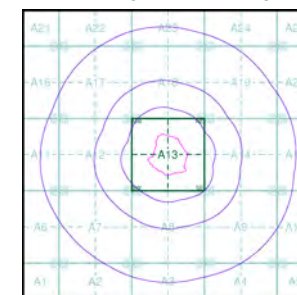
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

Landmark
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Appendix C

Photographs (Site Setting)

Photo Sheet 01

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 01: View of eastern slopes, looking in a southerly direction. Slopes have been partially restored under existing Environmental Permit. [17 November 2023]



Photograph 02: View of processing plant and working platform in centre of Site, looking in a southerly direction. [17 November 2023]

Photo Sheet 02

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 03: View of processing plant and working platform in centre of Site, looking in a southerly direction. [17 November 2023]



Photograph 04: View of top (north-east) of working platform with eastern slopes in background. Slopes have been partially restored under existing Environmental Permit. [17 November 2023]

Photo Sheet 03

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 05: View of stockpiled materials on working platform. [17 November 2023].



Photograph 06: Working platform and processing plant with exposed slopes (northern boundary) beyond. Looking in a northerly direction. [17 November 2023].

Photo Sheet 04

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 07: View along northern boundary of Site, looking in a south-south-westerly direction. [17 November 2023].



Photograph 08: View working platform looking in a south-easterly direction. [17 November 2023].

Photo Sheet 05

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 09: View of working platform and processing plant. Material still to be extracted on left hand side of photo. Looking in a southerly direction. [17 November 2023].



Photograph 10: View of northern boundary of Site, looking in a westerly direction. [17 November 2023].

Photo Sheet 06

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 11: View of exposed faces along eastern boundary of Site. [17 November 2023].



Photograph 12: View of exposed faces along eastern boundary of Site. [17 November 2023].

Photo Sheet 07

Project Reference: HCE0269

Project Title: Zig Zag Quarry



Photograph 13: View of processing plant with eastern boundary of Site beyond. Looking in a north-north-easterly direction. [17 November 2023].



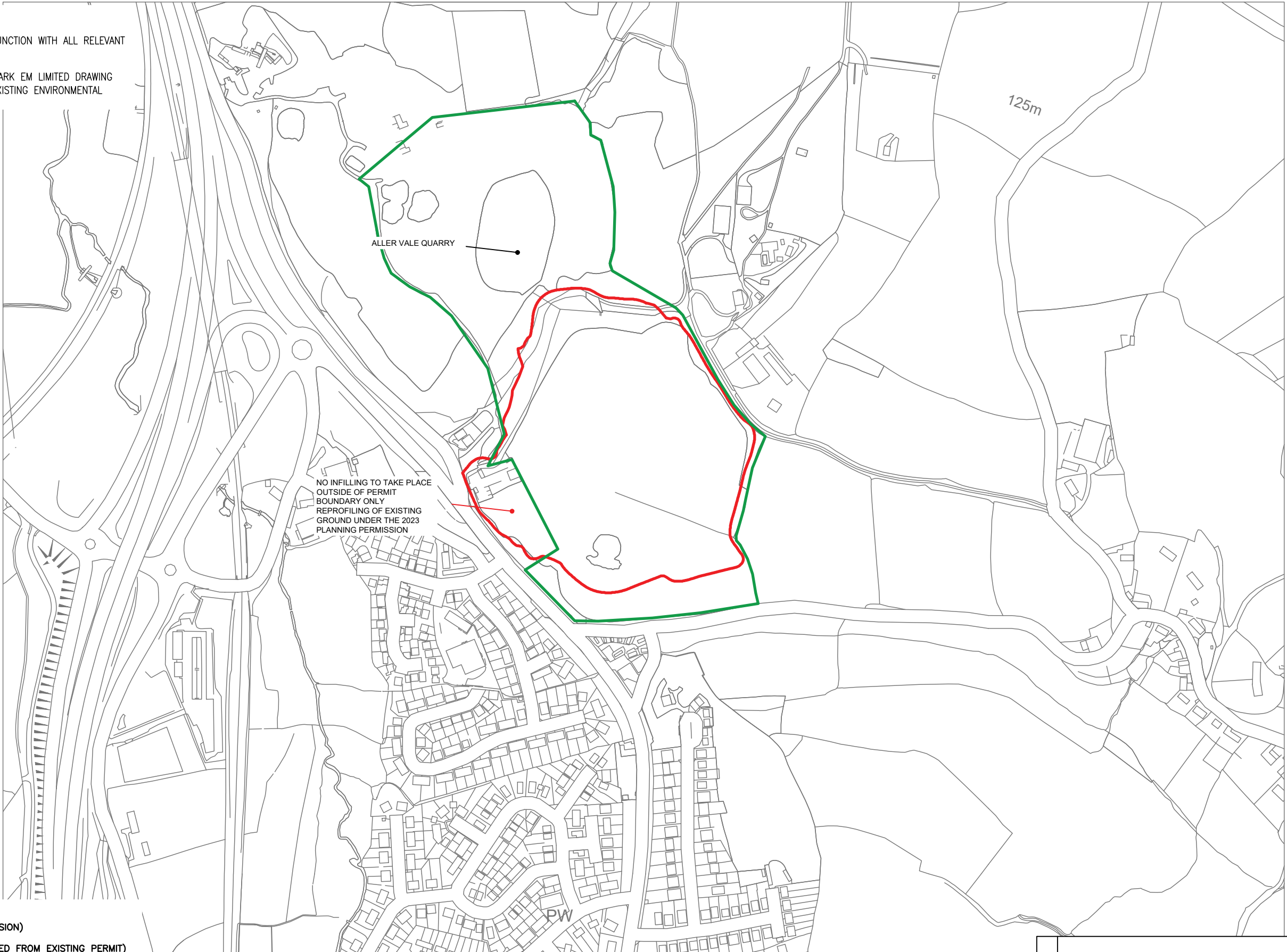
Photograph 14: View of working platform and processing plant, looking in a north-westerly direction. Material still to be extracted in front of photo. [17 November 2023].

Appendix D

Drawings for Permit Variation

NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
2. PERMIT BOUNDARY TRACED USING AARDVARK EM LIMITED DRAWING 1922/D001 AGREED AS PART OF THE EXISTING ENVIRONMENTAL PERMIT.



KEY:

- SITE BOUNDARY (2023 PLANNING PERMISSION)
- PERMIT BOUNDARY (TO REMAIN UNCHANGED FROM EXISTING PERMIT)



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JOB TITLE

ZIG ZAG QUARRY
KINGSKERSWELL

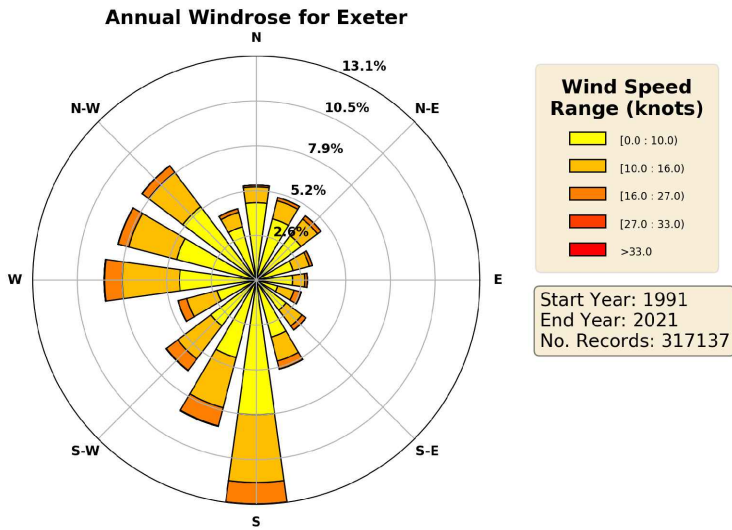
DRAWING TITLE

SITE LOCATION PLAN

				regen
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED
DRAWING No.	0269.101	REV		SCALE 1:5,000 @ A3
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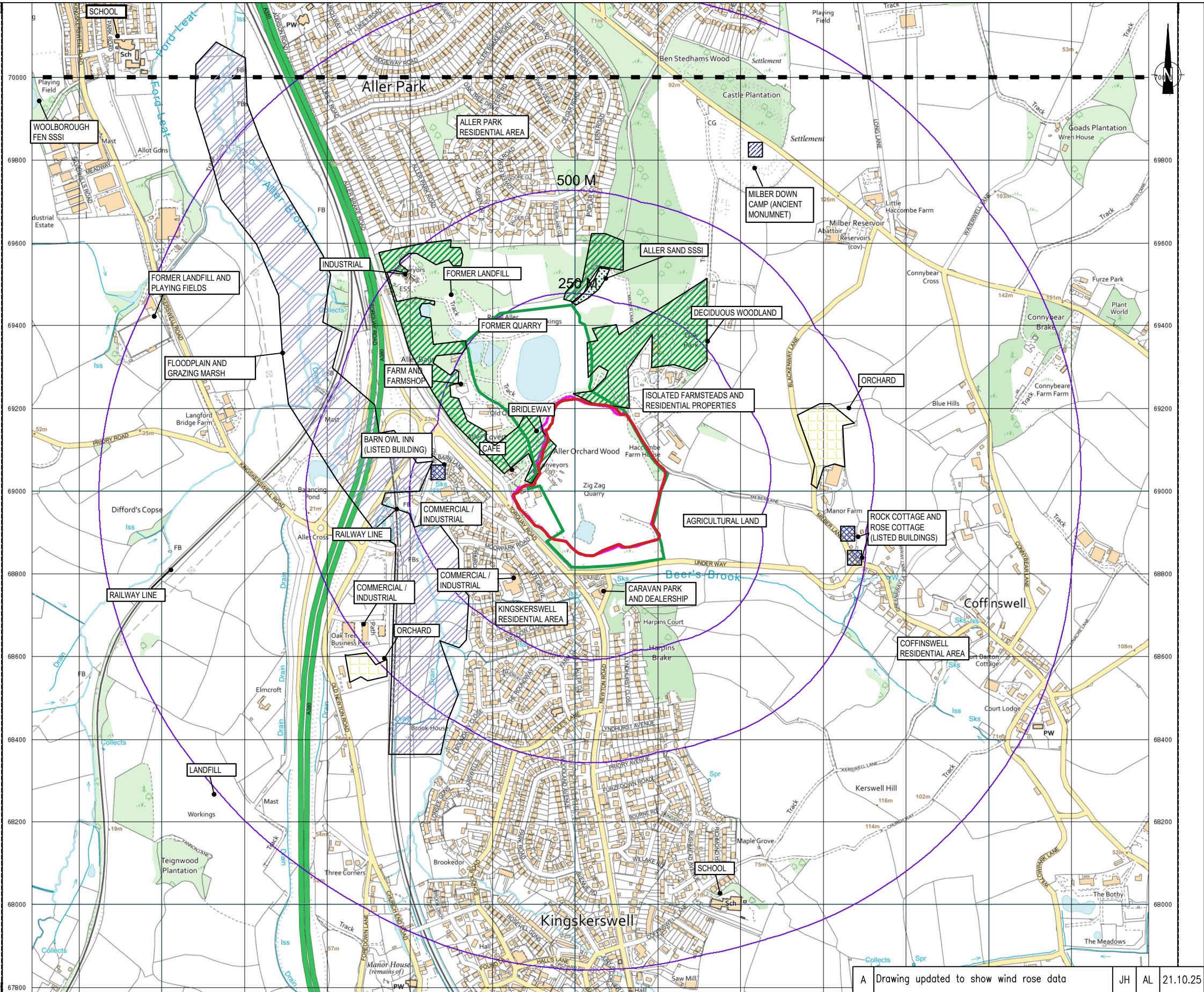
NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
2. BUFFER ZONES (250 M, 500M AND 1000 M) ARE FROM THE BOUNDARY OF THE 2023 PLANNING PERMISSION.



SOURCE: MET OFFICE

- KEY:**
- SITE BOUNDARY (2023 PLANNING PERMISSION)
 - PERMIT BOUNDARY
 - ANCIENT MONUMENT
 - ANCIENT BUILDING
 - PRIORITY HABITAT – DECIDUOUS WOODLAND
 - PRIORITY HABITAT – FLOODPLAIN GRAZING MARSH
 - PRIORITY HABITAT – TRADITIONAL ORCHARD
 - SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)



A	Drawing updated to show wind rose data	JH	AL	21.10.25
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED
DRAWING No.	0269.102	REV		SCALE 1:5,000 @ A3
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NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
2. INSET IN TOP RIGHT OF DRAWING SHOWING OTHER SAMPLING LOCATION ZZSW1. FOR INDICATIVE PURPOSES ONLY. FOR DETAILED PLAN SHOWING MONITORING LOCATIONS REFER TO DRAWING 0269.105.
3. NO BUILDINGS OR PERMANENT SERVICES WITHIN PERMITTED AREA.

NOTE: SITE SECURITY

- SECURE SITE BOUNDARY INCLUDING POST AND WIRE FENCING. PADLOCK GATED ENTRANCE.
- DENSE VEGETATION GROWTH AND STEEP SIDES ACT AS A DETERRENT TO TRESPASSERS.
- WEEKLY BOUNDARY CHECKS.
- ON-SITE CCTV AND THIRD PARTY SECURITY FOR OUT OF HOURS CALL OUTS.
- EQUIPMENT AND TOOLS STORED IN LOCKED CONTAINERS BY SITE OFFICES.
- DOORS AND WINDOWS RE-ENFORCED AS APPROPRIATE.
- ALL VISITORS TO SIGN IN AND OUT.

DEPOSITION AREA DEFINED BY RED LINE BOUNDARY. NO DEPOSITION TO OCCUR OUTSIDE OF PERMIT BOUNDARY (ONLY RE-PROFILING OF EXISTING SOILS)

EXISTING WASH PLANT USED FOR QUARRYING PURPOSES (NOT ASSOCIATED WITH ENVIRONMENTAL PERMIT)

EXISTING SITE OFFICES, WELFARE FACILITIES, WEIGHBRIDE AND PARKING, MAINS WATER

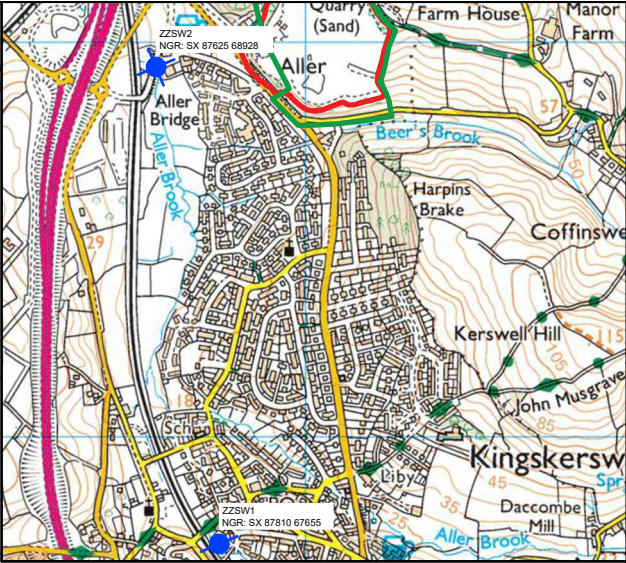
SITE ENTRANCE FOR ALL VEHICLES INCLUDING EMERGENCY SERVICES

EXISTING SAND AND GRAVEL BATCHING AREA (NOT ASSOCIATED WITH ENVIRONMENTAL PERMIT)

EXISTING SETTLEMENT LAGOON

KEY:

- SITE BOUNDARY (2023 PLANNING PERMISSION)
- PERMIT BOUNDARY (TO REMAIN UNCHANGED FROM EXISTING PERMIT)
- SURFACE WATER MONITORING POINT
- GROUNDWATER MONITORING POINT
- WATER SERVICES
- ELECTRICITY SERVICES



JOB TITLE

ZIG ZAG QUARRY
KINGSKERSWELL

DRAWING TITLE

SITE INFRASTRUCTURE PLAN

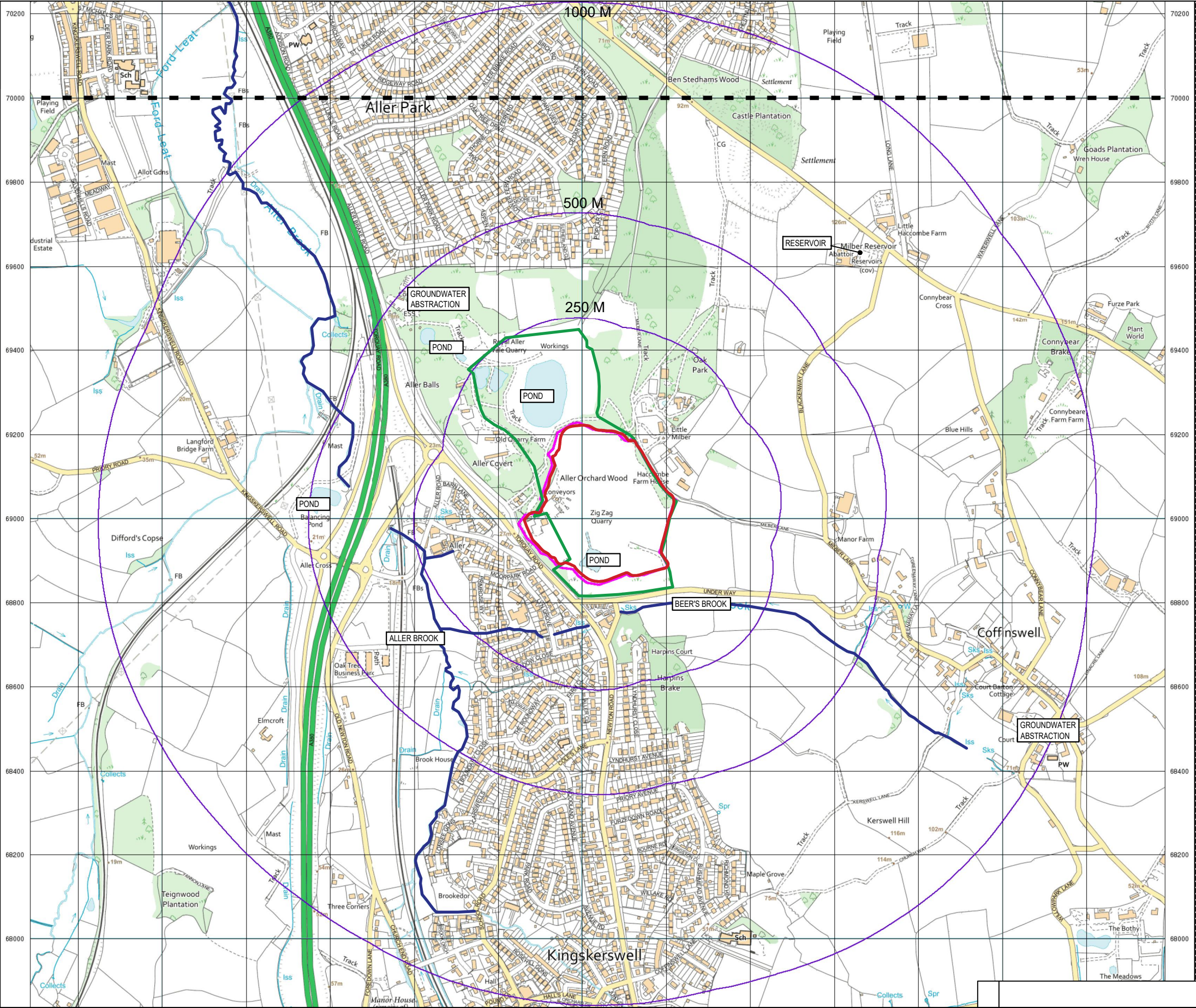
A	Plan updated to include October 2025 boreholes.	JH	AL	31.10.25
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED
DRAWING No.	0269.103	REV		SCALE 1:2,500 @ A3
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NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
2. BUFFER ZONES (250 M, 500M AND 1000 M) ARE FROM THE BOUNDARY OF THE 2023 PLANNING PERMISSION.
3. WATER FEATURES IDENTIFIED BASED ON DESK BASED RESEARCH. FIELD SURVEYS NOT PART OF SCOPE OF WORKS.

KEY:

- SITE BOUNDARY (2023 PLANNING PERMISSION)
- PERMIT BOUNDARY



JOB TITLE

ZIG ZAG QUARRY
KINGSKERSWELL

DRAWING TITLE

WATER FEATURES PLAN



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				regen
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED
DRAWING No.	0269.104	REV	SCALE	1:5,000 @ A3
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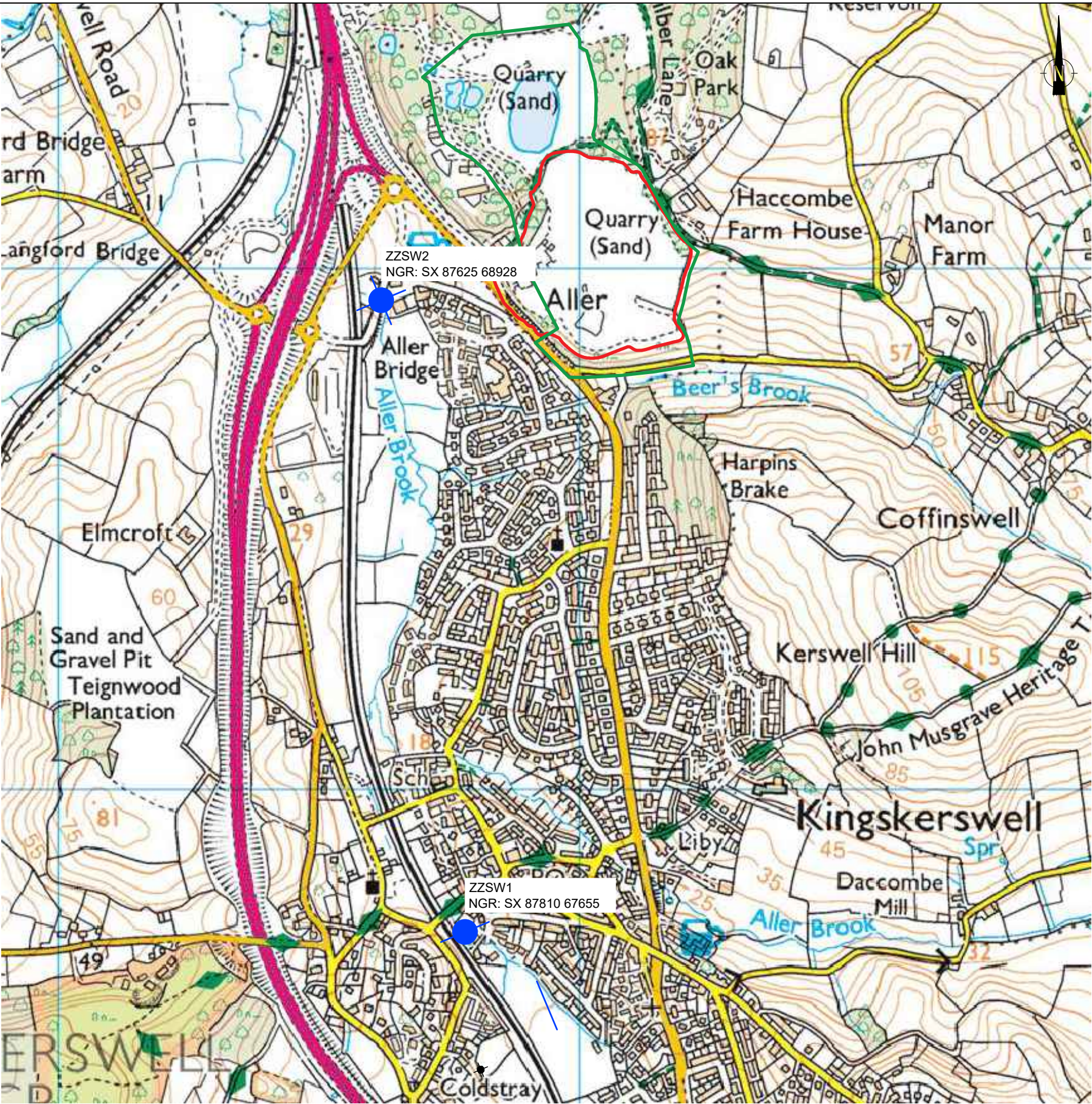


PHOTO SHOWING SAMPLING LOCATION ZZSW1
(REPRODUCED FROM JH GROUNDWATER 2023 HYDROGEOLOGICAL IMPACT ASSESSMENT REPORT)



PHOTO SHOWING SAMPLING LOCATION ZZSW2
(REPRODUCED FROM JH GROUNDWATER 2023 HYDROGEOLOGICAL IMPACT ASSESSMENT REPORT)

- KEY:
- SITE BOUNDARY (2023 PLANNING PERMISSION)
 - PERMIT BOUNDARY
 - ★ SURFACE WATER MONITORING POINT

				regen
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED
DRAWING No.	0269.105	REV		SCALE 1:10,000 @ A3
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NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
2. EXPLORATORY HOLE LOCATIONS ARE APPROXIMATE.



KEY:

- SITE BOUNDARY (2023 PLANNING PERMISSION)
- PERMIT BOUNDARY (TO REMAIN UNCHANGED FROM EXISTING PERMIT)
- HORIZON BOREHOLE LOCATION (MARCH 2025)
- HORIZON BOREHOLE LOCATION (November 2025)
- APPROXIMATE EXTENT OF EXISTING RESTORATION SOILS

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JOB TITLE

ZIG ZAG QUARRY
KINGSKERSWELL

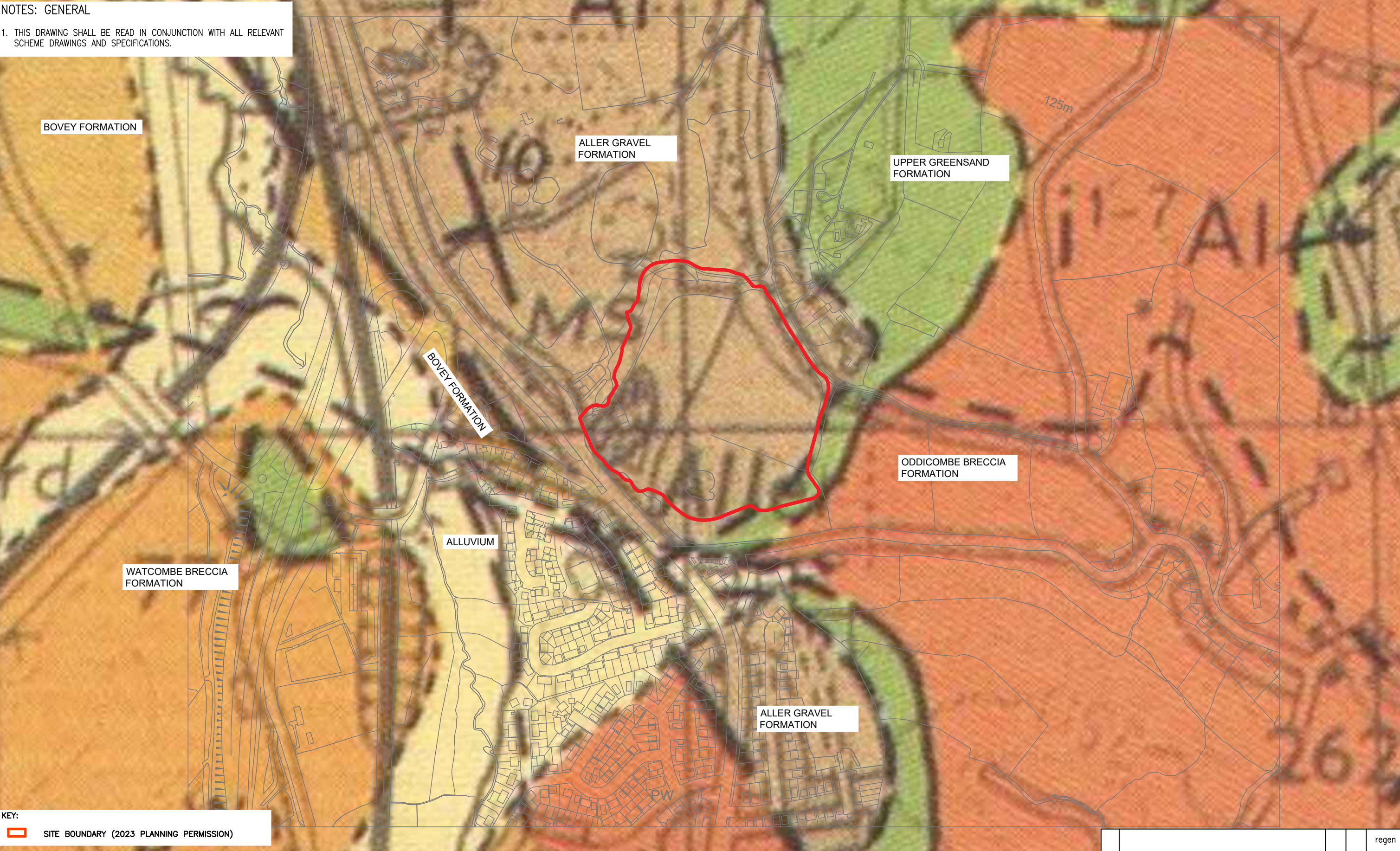
DRAWING TITLE

MONITORING POINT PLAN (GROUNDWATER)
WITH ELEVATIONS

B	Plan updated to include Nov 2025 boreholes	CR	AL	12.11.25
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUL '25	DRAWN	JH	CHECKED .AL
DRAWING No.	0269.105A	REV	REV.A.	SCALE 1:2,500 @ A3
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NOTES: GENERAL

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KEY:

 SITE BOUNDARY (2023 PLANNING PERMISSION)

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JOB TITLE
**ZIG ZAG QUARRY
KINGSKERSWELL**

DRAWING TITLE
GEOLOGY

				regen
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED .
DRAWING No.	0269.106	REV	NTS	@ A3
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Appendix E

Photographs (Wider Landscape)

NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
2. EXPLORATORY HOLE LOCATIONS ARE APPROXIMATE.



- KEY:
- SITE BOUNDARY (2023 PLANNING PERMISSION)
 - HORIZON TRIAL PIT LOCATION (JUNE 2024)
 - GCE TRIAL PIT LOCATION (OCTOBER 2015)
 - APPROXIMATE EXTENT OF EXISTING RESTORATION SOILS



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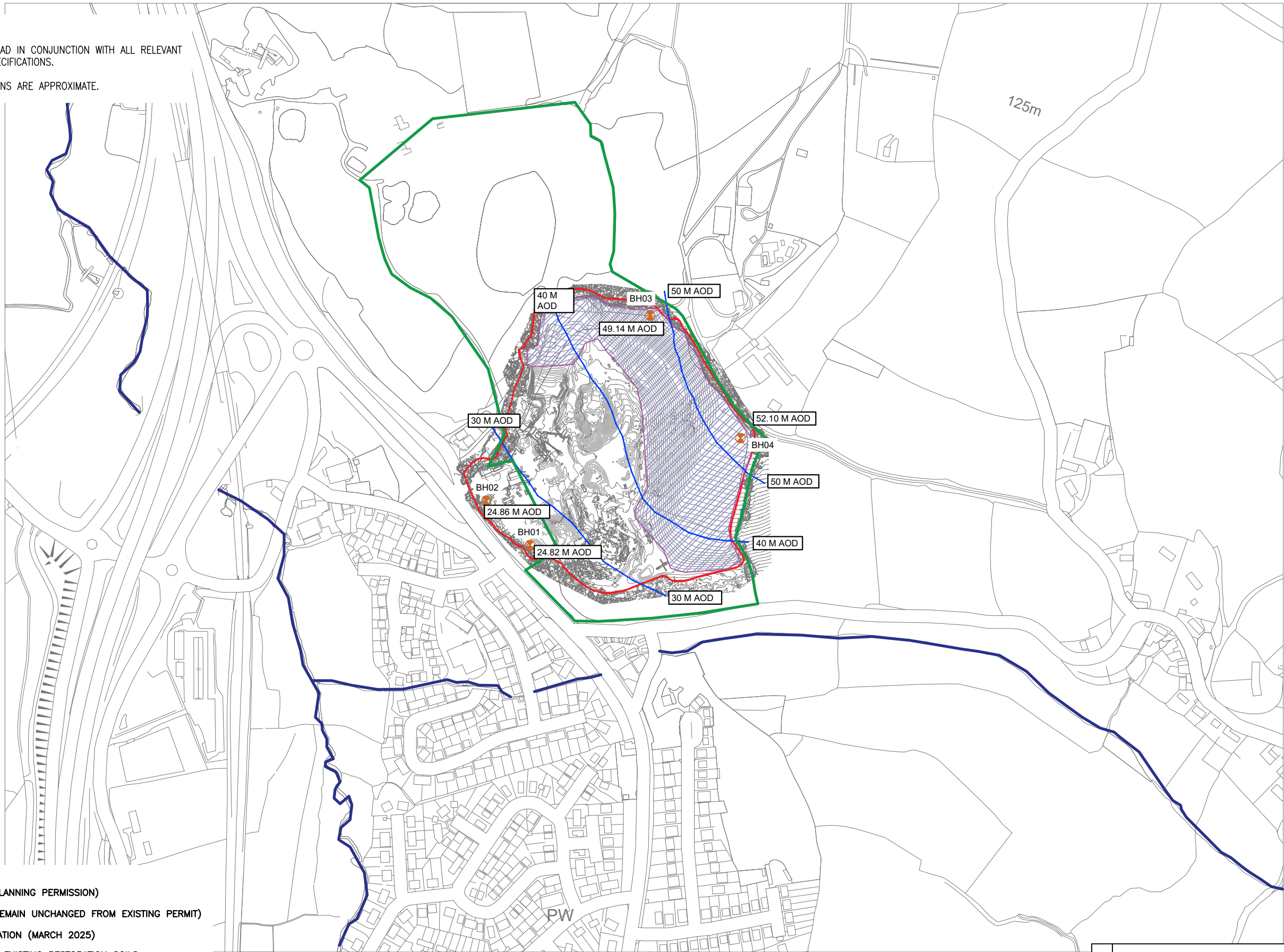
JOB TITLE
**ZIG ZAG QUARRY
KINGSKERSWELL**

DRAWING TITLE
EXPLORATORY HOLE LOCATION PLAN

				regen
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	JUN' 24	DRAWN	JH	CHECKED
DRAWING No.	0269.107	REV		SCALE 1:2,500 @ A3
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NOTES: GENERAL

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2. EXPLORATORY HOLE LOCATIONS ARE APPROXIMATE.



KEY:

- SITE BOUNDARY (2023 PLANNING PERMISSION)
- PERMIT BOUNDARY (TO REMAIN UNCHANGED FROM EXISTING PERMIT)
- x HORIZON BOREHOLE LOCATION (MARCH 2025)
- APPROXIMATE EXTENT OF EXISTING RESTORATION SOILS



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JOB TITLE

ZIG ZAG QUARRY
KINGSKERSWELL

DRAWING TITLE

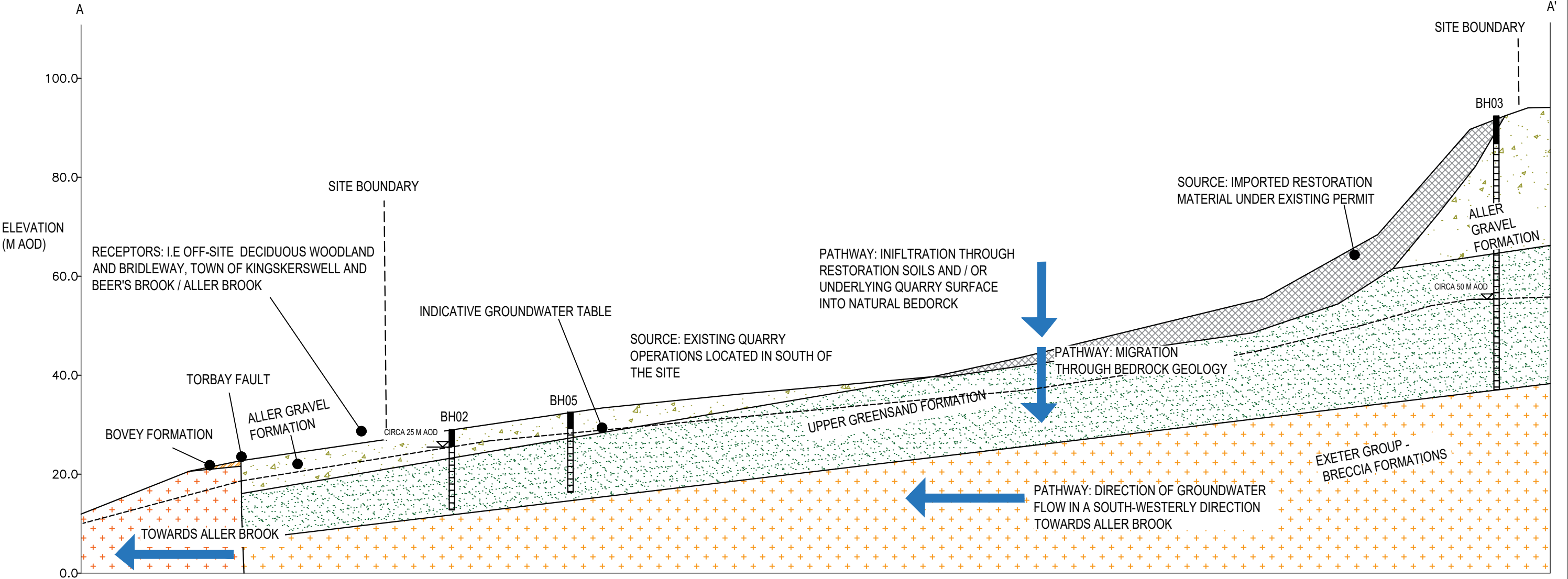
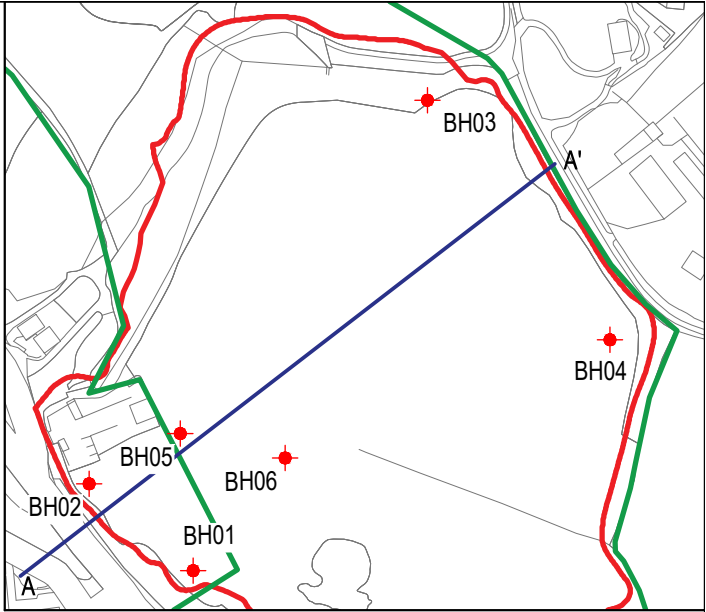
GROUNDWATER ELEVATION CONTOURS (31 MARCH 2025)

				regen
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	OCT '25	DRAWN	JH	CHECKED
DRAWING No.	0269.110	REV		SCALE 1:5,000 @ A3
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NOTES: GENERAL

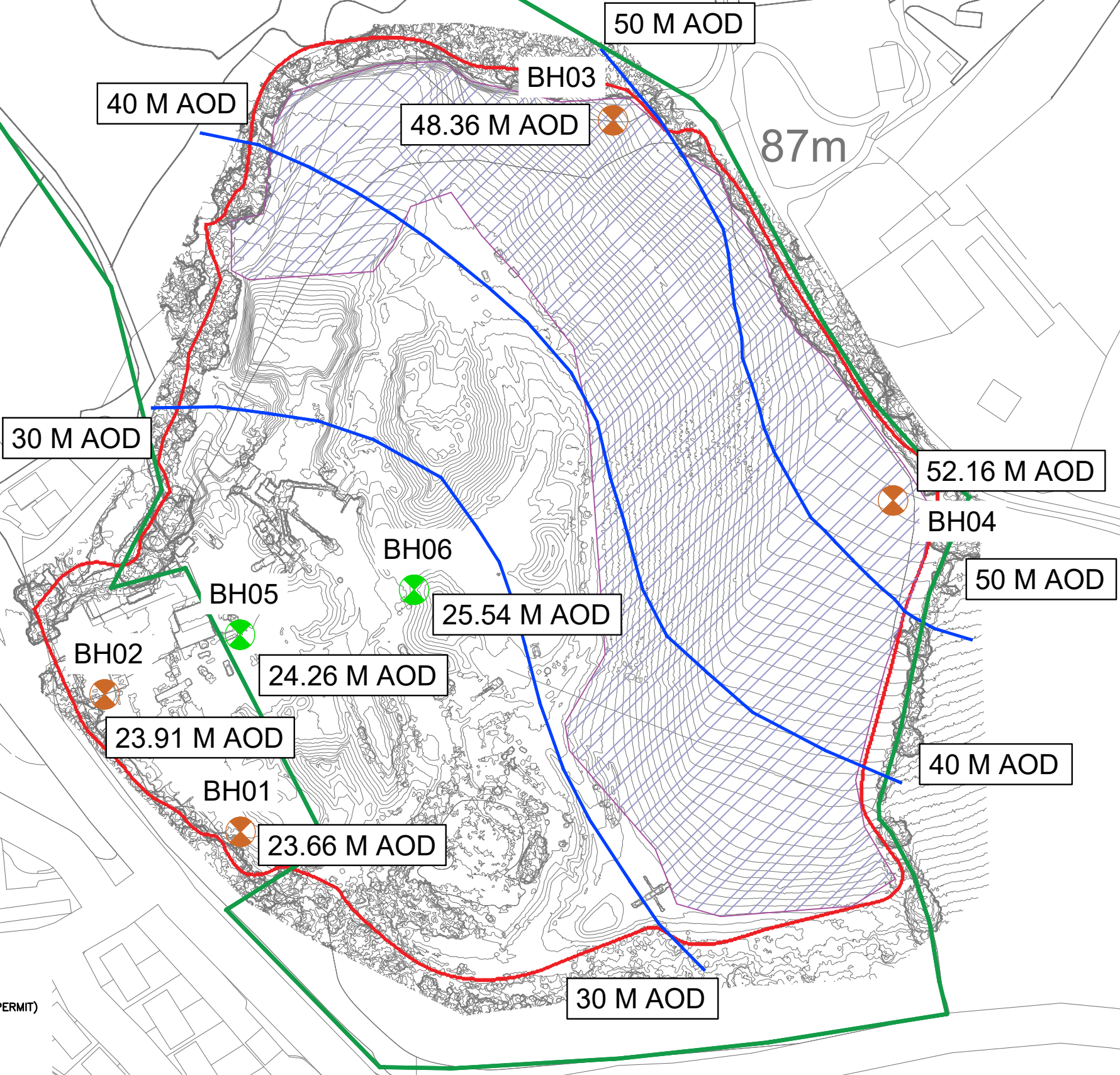
- 1. DO NOT SCALE FROM THIS DRAWING.
- 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
- 3. CROSS-SECTION DEVELOPED FOR SCHEMATIC PURPOSES AND DOES NOT REFLECT "TO SCALE" CONDITIONS.
- 4. BEDROCK UNITS ARE INDICATIVE BASED ON GEOLOGICAL MAPPING AND INVESTIGATIONS.

- KEY:
- EXISTING RESTORATION MATERIAL
 - ALLER GRAVEL FORMATION
 - UPPER GREENSAND FORMATION
 - EXETER GROUP
 - BOVEY FORMATION



A	DRAWING UPDATED WITH BOREHOLES	CR	JH	OCT '25
Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	AUG '24	DRAWN	JH	CHECKED
			AL	ISSUE CHECKBOX
DRAWING No.	0269.108	REV	A	SCALE
			N.T.S	@ A3
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- NOTES: GENERAL
- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
 - 2. EXPLORATORY HOLE LOCATIONS ARE APPROXIMATE.

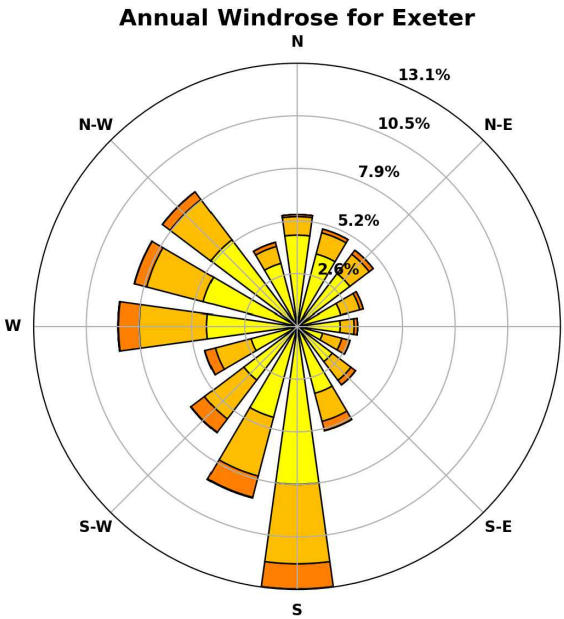


- KEY:
- SITE BOUNDARY (2023 PLANNING PERMISSION)
 - PERMIT BOUNDARY (TO REMAIN UNCHANGED FROM EXISTING PERMIT)
 - HORIZON BOREHOLE LOCATION (MARCH 2025)
 - HORIZON BOREHOLE LOCATION (NOVEMBER 2025)
 - APPROXIMATE EXTENT OF EXISTING RESTORATION SOILS

Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	NOV 25	CR	AL	
DRAWING No.	0269.113	REV	SCALE	1:5,000 @ A3
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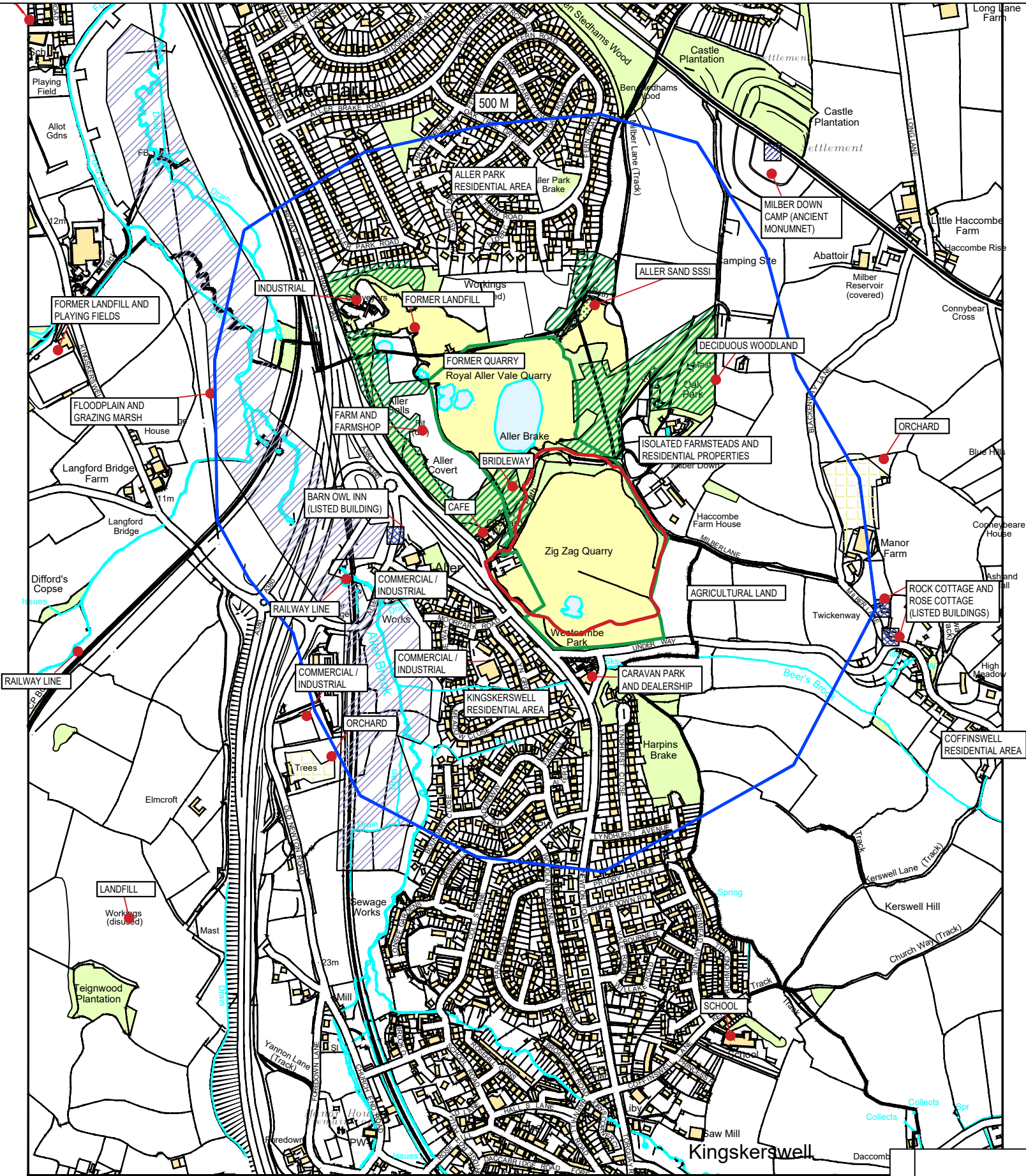
NOTES: GENERAL

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.



SOURCE: MET OFFICE

- KEY:
- SITE BOUNDARY (2023 PLANNING PERMISSION)
 - PERMIT BOUNDARY
 - ANCIENT MONUMENT
 - ANCIENT BUILDING
 - PRIORITY HABITAT – DECIDUOUS WOODLAND
 - PRIORITY HABITAT – FLOODPLAIN GRAZING MARSH
 - PRIORITY HABITAT – TRADITIONAL ORCHARD



Rev	Description	Drn	Chk	Date
REVISIONS				
Preliminary	Approval	Tender	Const.	
DRAWING STATUS				
DATE	OCT '25	DRAWN	JH	CHECKED
DRAWING No.	0269.111	REV	SCALE	1:5,000 @ A3
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VIEWPOINT 3

PROW Bridleway 8 north of the site

Elevation AOD: 97m

Grid Ref: E-291258 N-087771

Distance to Site: 0.14km

Bearing to Site: 228° T

Enlargement: 100% @ A3

Visualisation Type: Type 1 390 x 260mm



Included for context

VIEWPOINT 3 - Panorama

PROW B8 north of the site

Elevation AOD: 97m	Bearing to Site: 228° T
Grid Ref: E-291258 N-087771	Enlargement: 100% @ A3
Distance to Site: 0.14km	Visualisation Type: Panorama for Context



Site



VIEWPOINT 5

Coles Lane, Kingkerswell

Elevation AOD: 28m
Grid Ref: E-287804 N-068181
Distance to Site: 0.91km

Bearing to Site: 013° T
Enlargement: 100% @ A3
Visualisation Type: Type 1 390 x 260mm



Site



VIEWPOINT 6

Old Newton Road, Kingkerswell

Elevation AOD: 27m

Grid Ref: E-287500 N-068137

Distance to Site: 1.05km

Bearing to Site: 029° T

Enlargement: 100% @ A3

Visualisation Type: Type 1 390 x 260mm



Site

VIEWPOINT 7
Old Newton Road, Kingkerswell

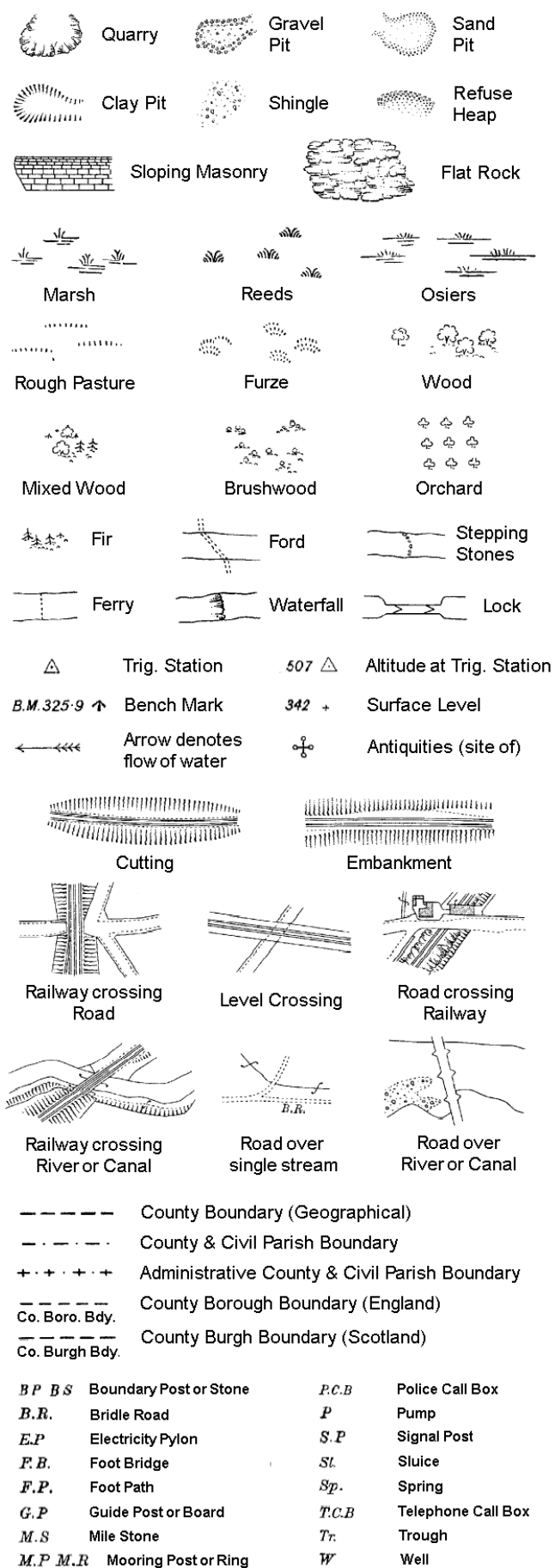
Elevation AOD: 25m	Bearing to Site: 057° T
Grid Ref: E-287396 N-068664	Enlargement: 100% @ A3
Distance to Site: 0.75km	Visualisation Type: Type 1 390 x 260mm

Appendix F

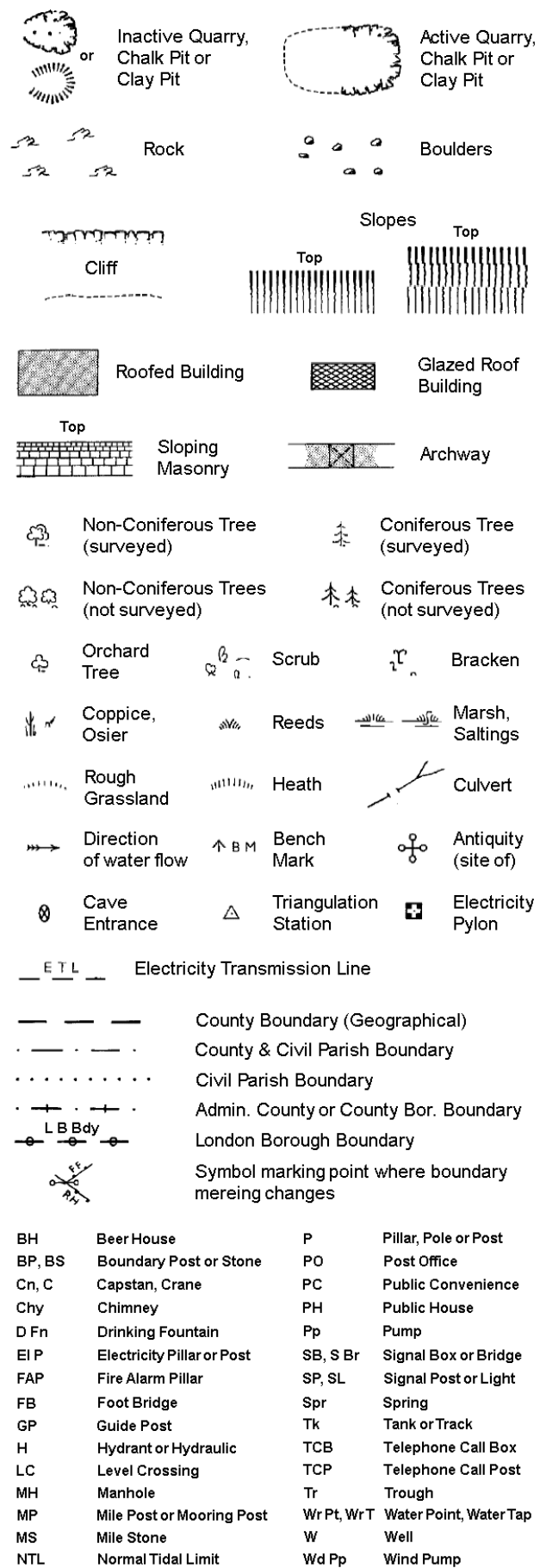
Historical Maps

Historical Mapping Legends

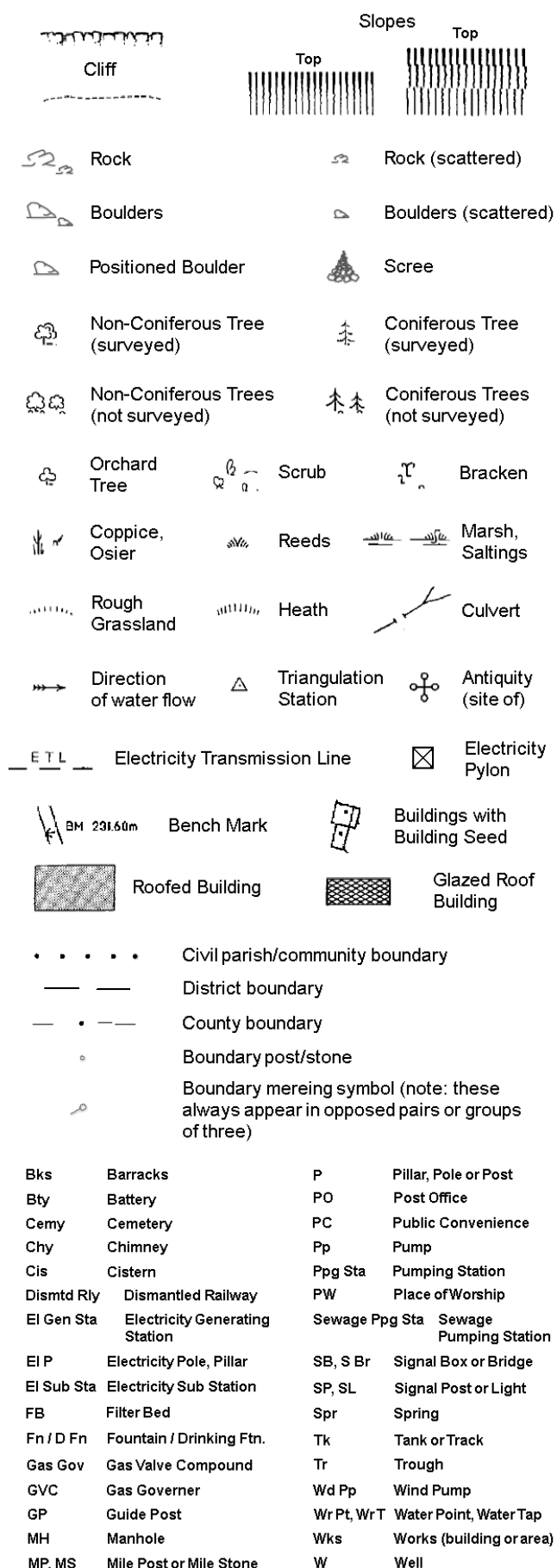
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information



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



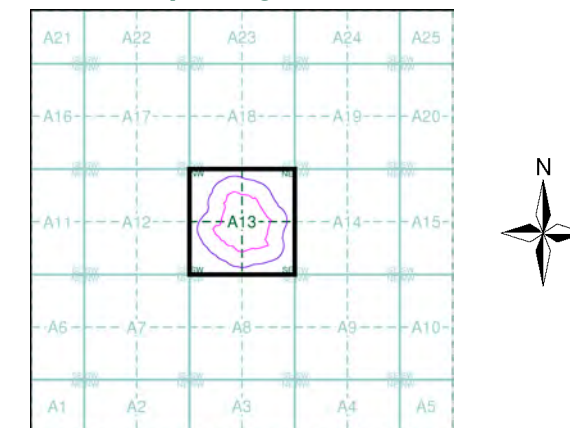
Envirocheck®

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Devon	1:2,500	1888 - 1890	2
Devon	1:2,500	1905 - 1906	3
Devon	1:2,500	1937 - 1939	4
Ordnance Survey Plan	1:2,500	1955	5
Ordnance Survey Plan	1:2,500	1960 - 1974	6
Ordnance Survey Plan	1:2,500	1966	7
Additional SIMs	1:2,500	1978	8
Ordnance Survey Plan	1:1,250	1982 - 1989	9
Additional SIMs	1:1,250	1989	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:1,250	1996	12
Historical Aerial Photography	1:2,500	1999	13

Historical Map - Segment A13



Order Details

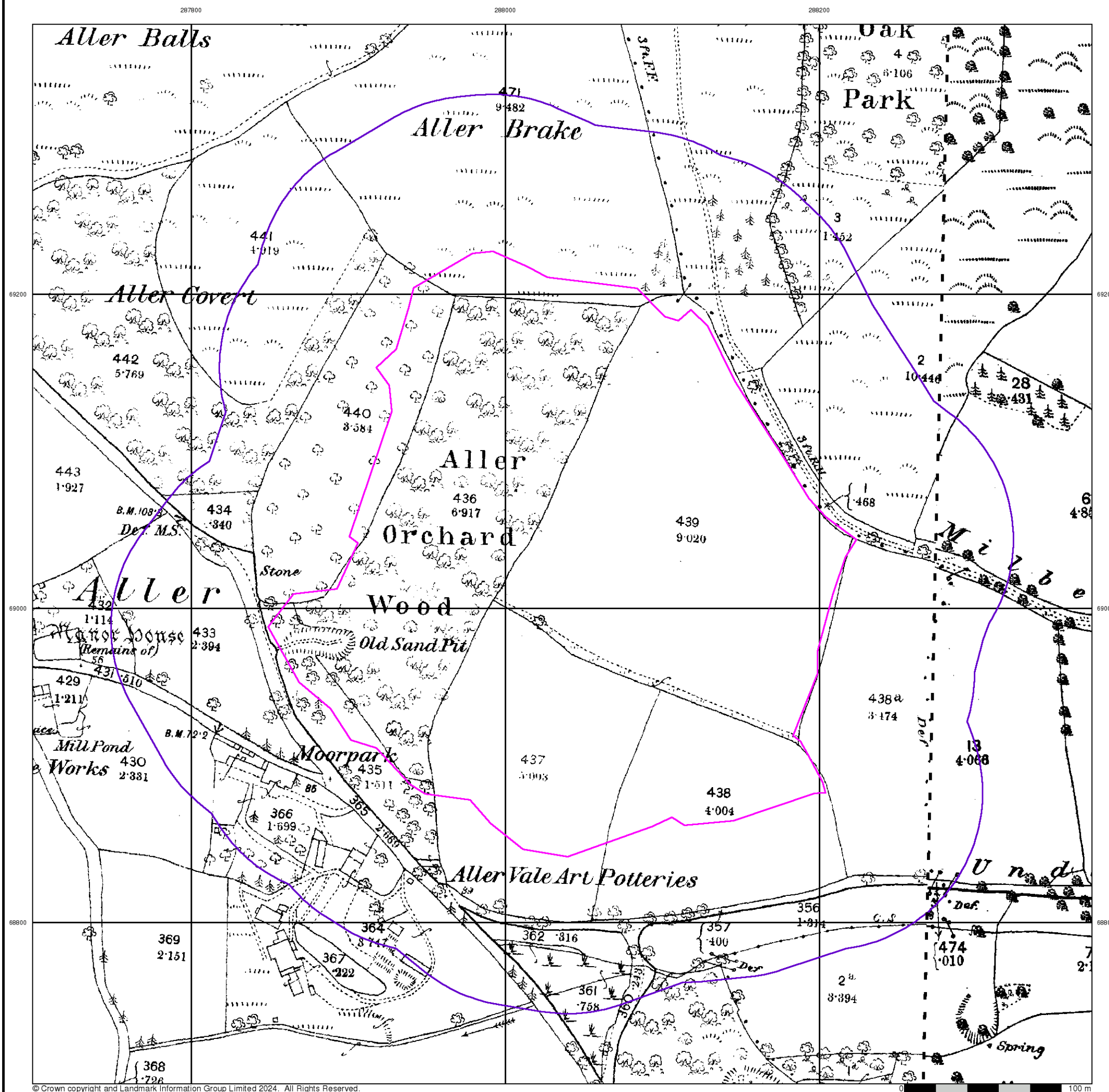
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Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT,
TQ12 5AT

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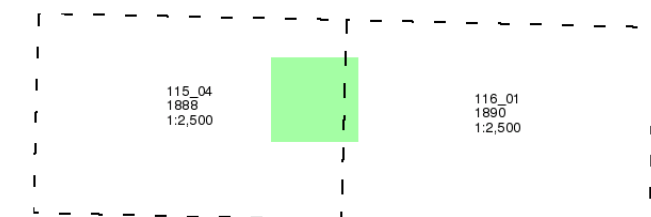
Devon

Published 1888 - 1890

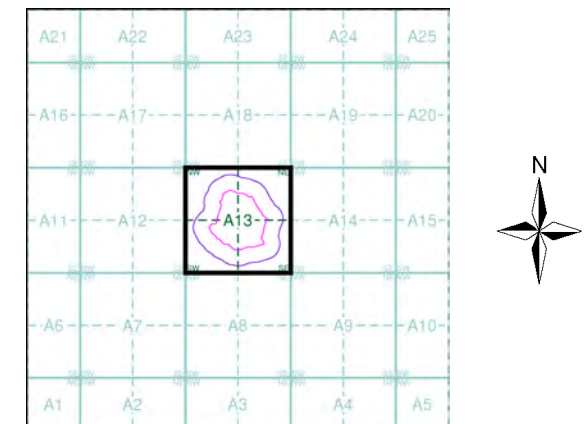
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

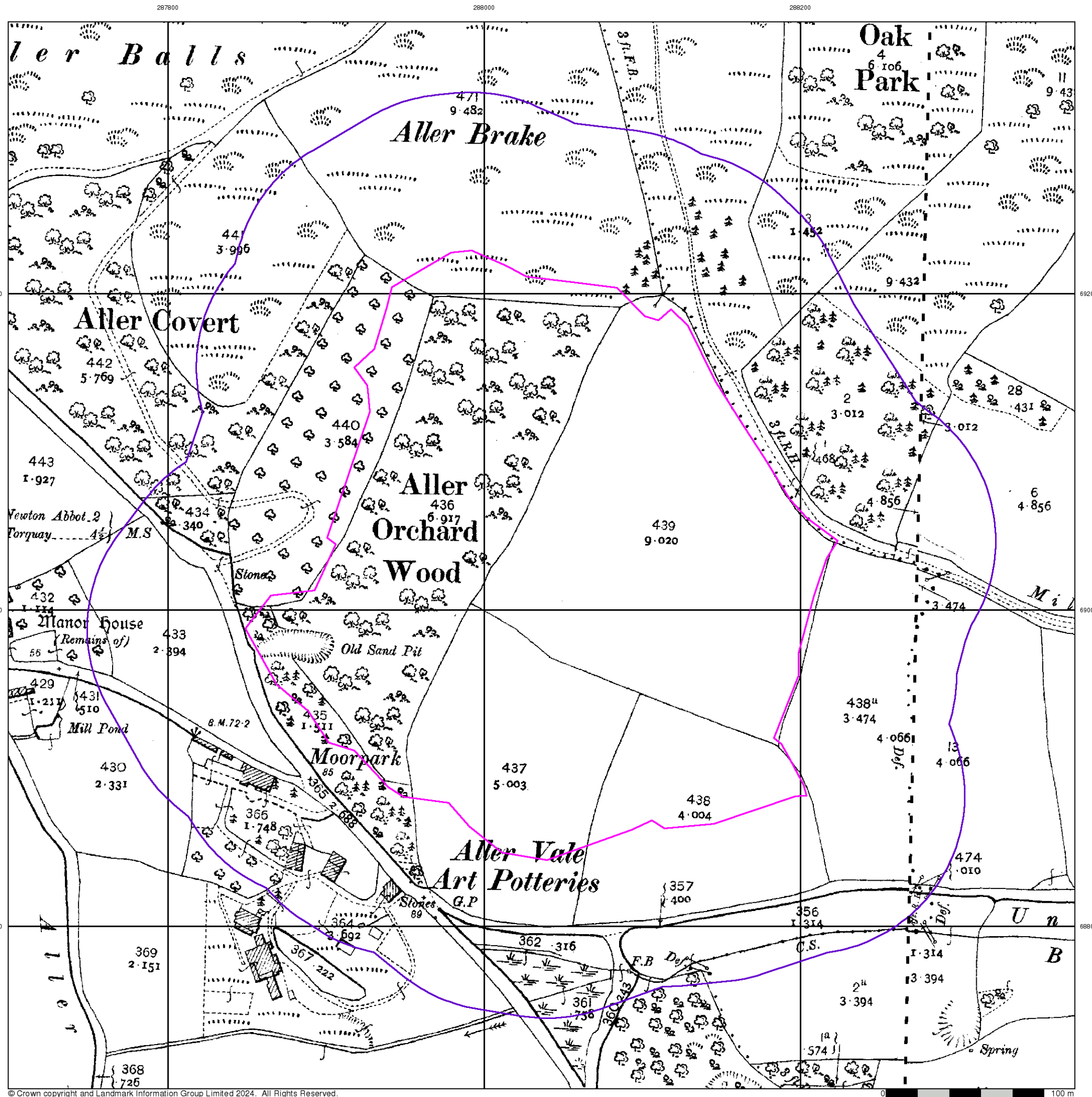
Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

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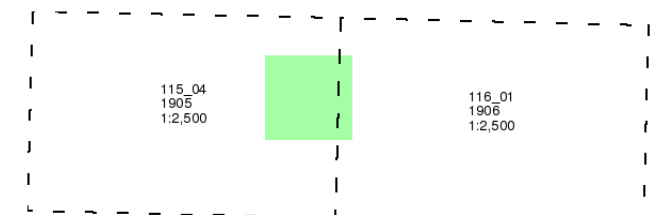
Devon

Published 1905 - 1906

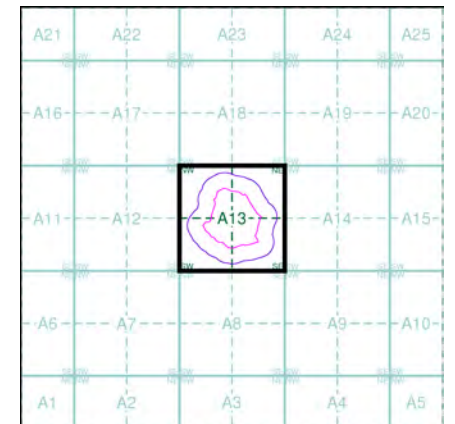
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

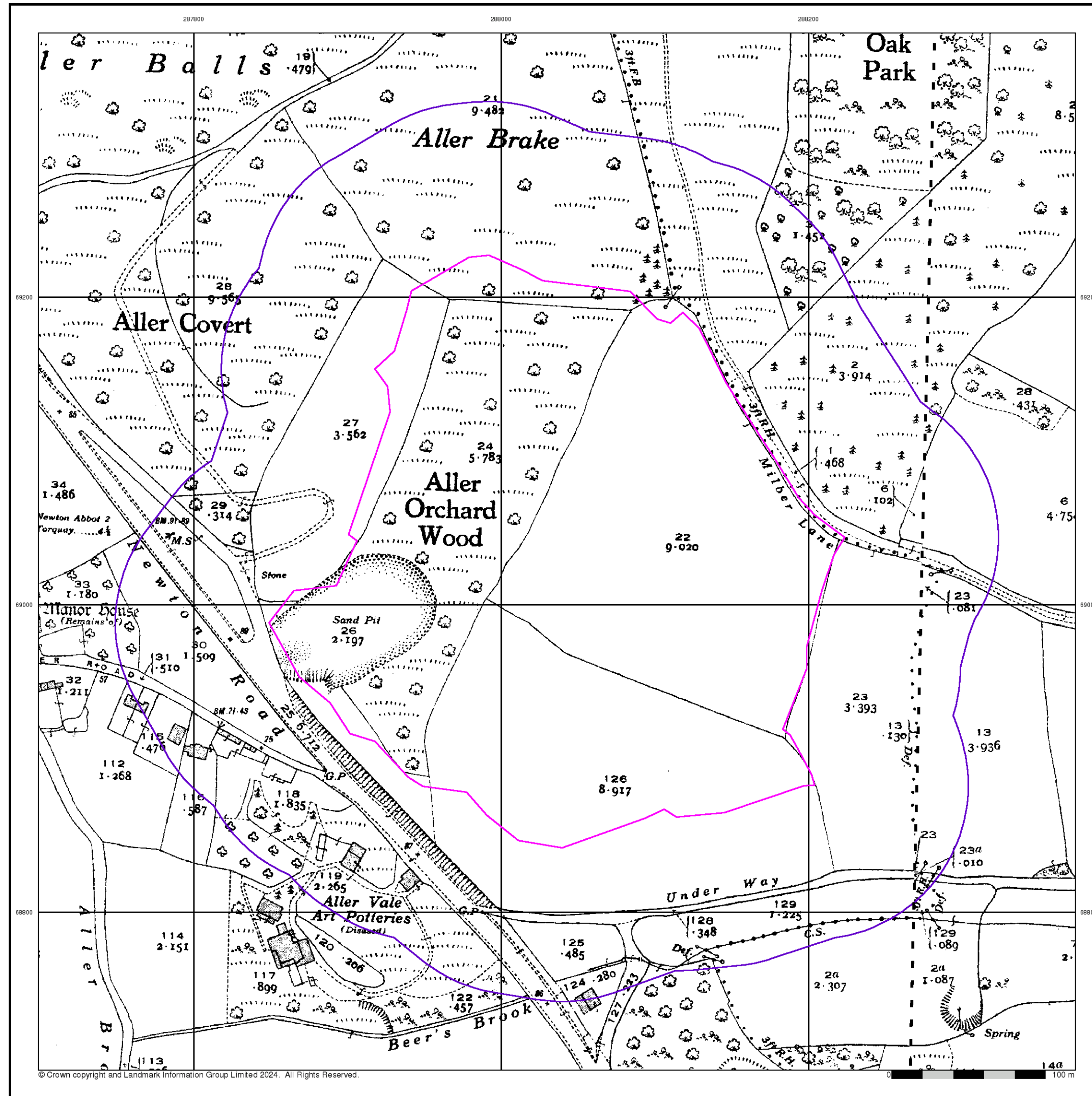
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Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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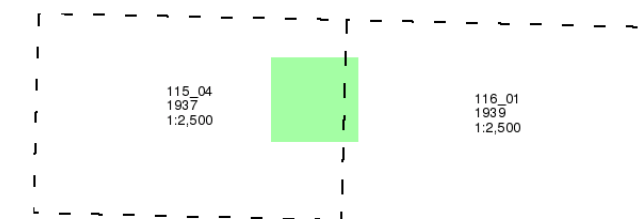
Devon

Published 1937 - 1939

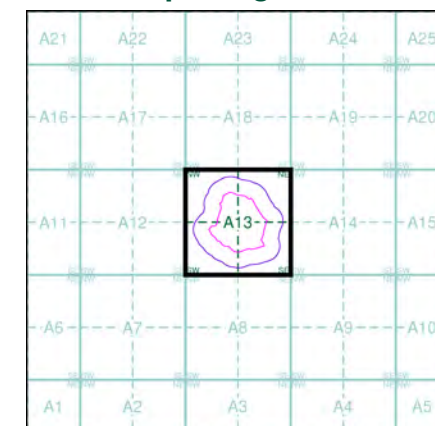
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

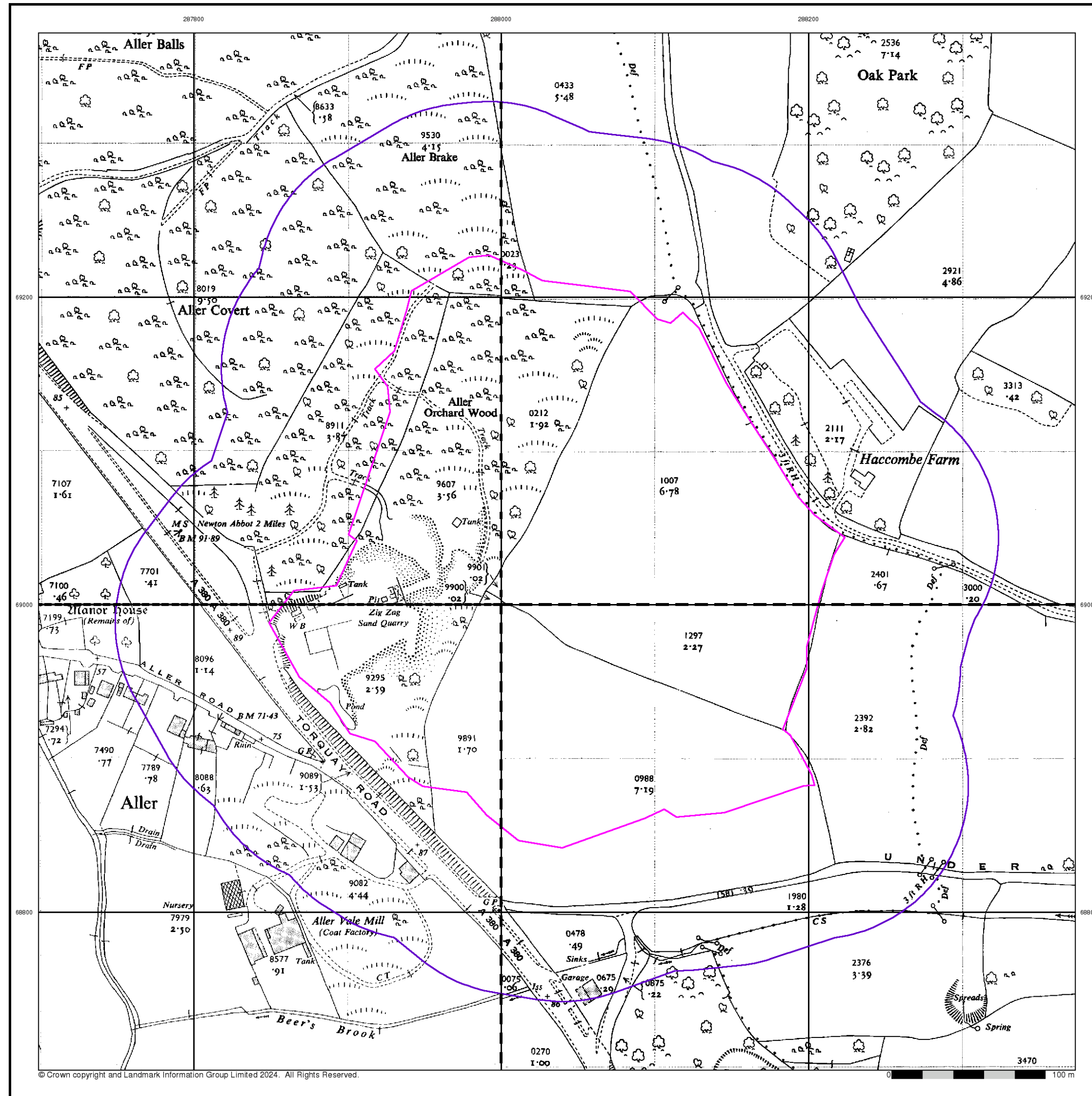
Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1955

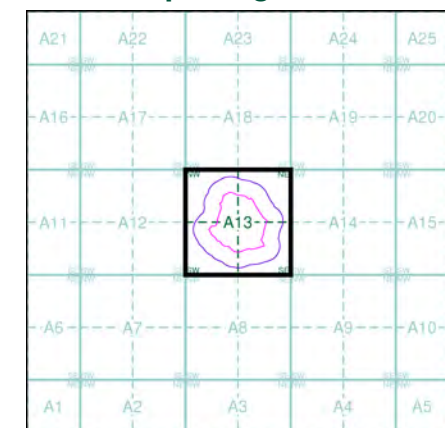
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Map Name(s) and Date(s)

SX8769	SX8869
1955	1955
12,500	12,500
SX8768	SX8868
1955	1955
12,500	12,500

Historical Map - Segment A13

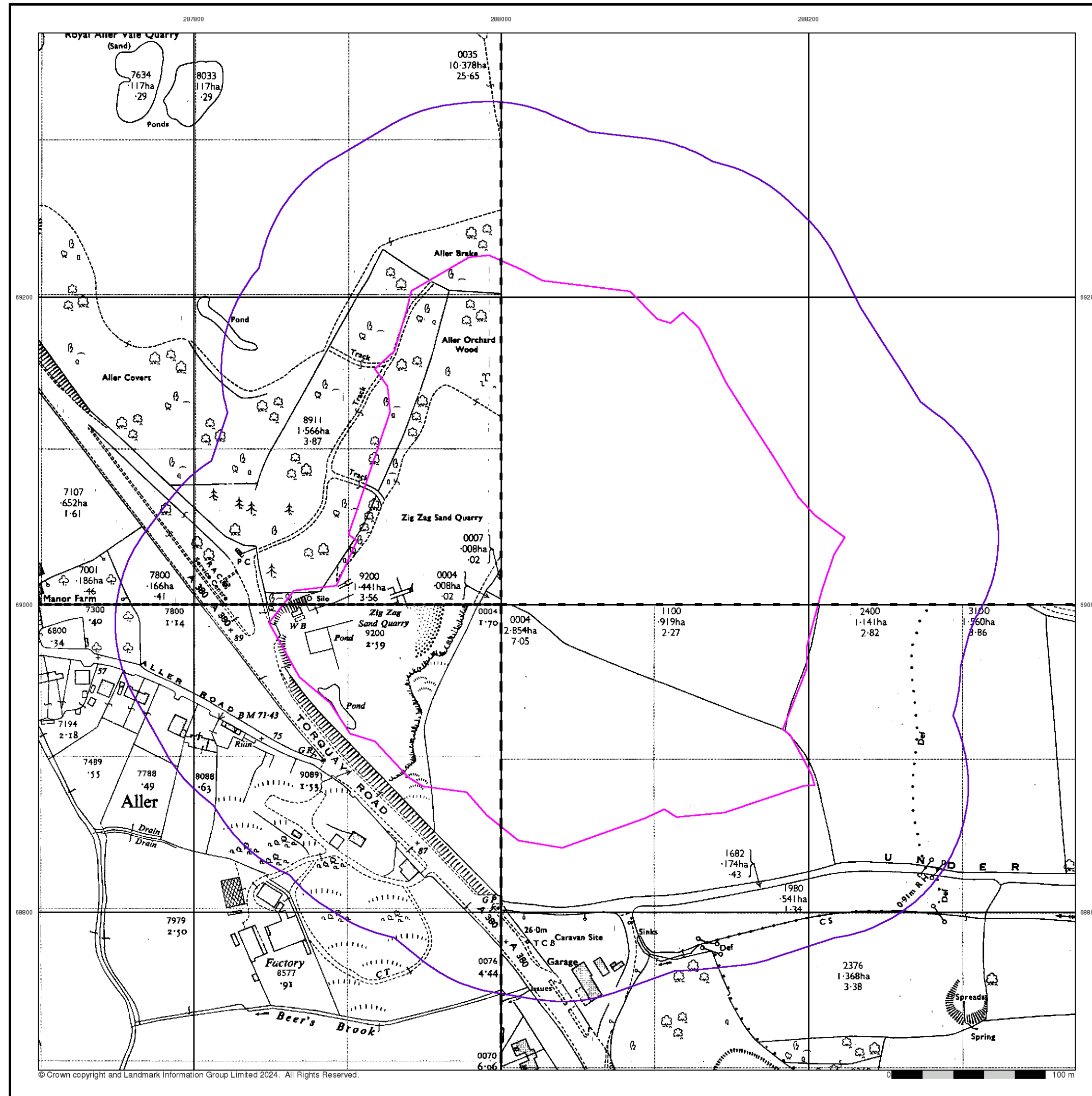


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

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TQ12 5AT



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Ordnance Survey Plan

Published 1960 - 1974

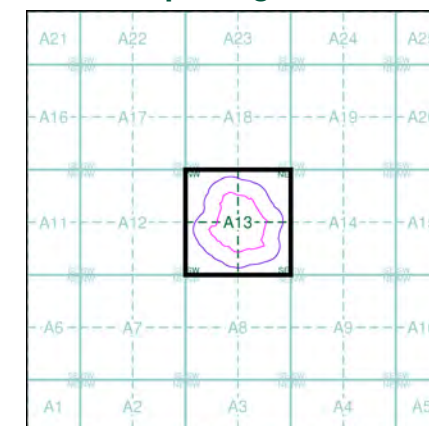
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SX8769	1974	12,500
SX8768	1960	12,500
SX8868	1971	12,500

Historical Map - Segment A13

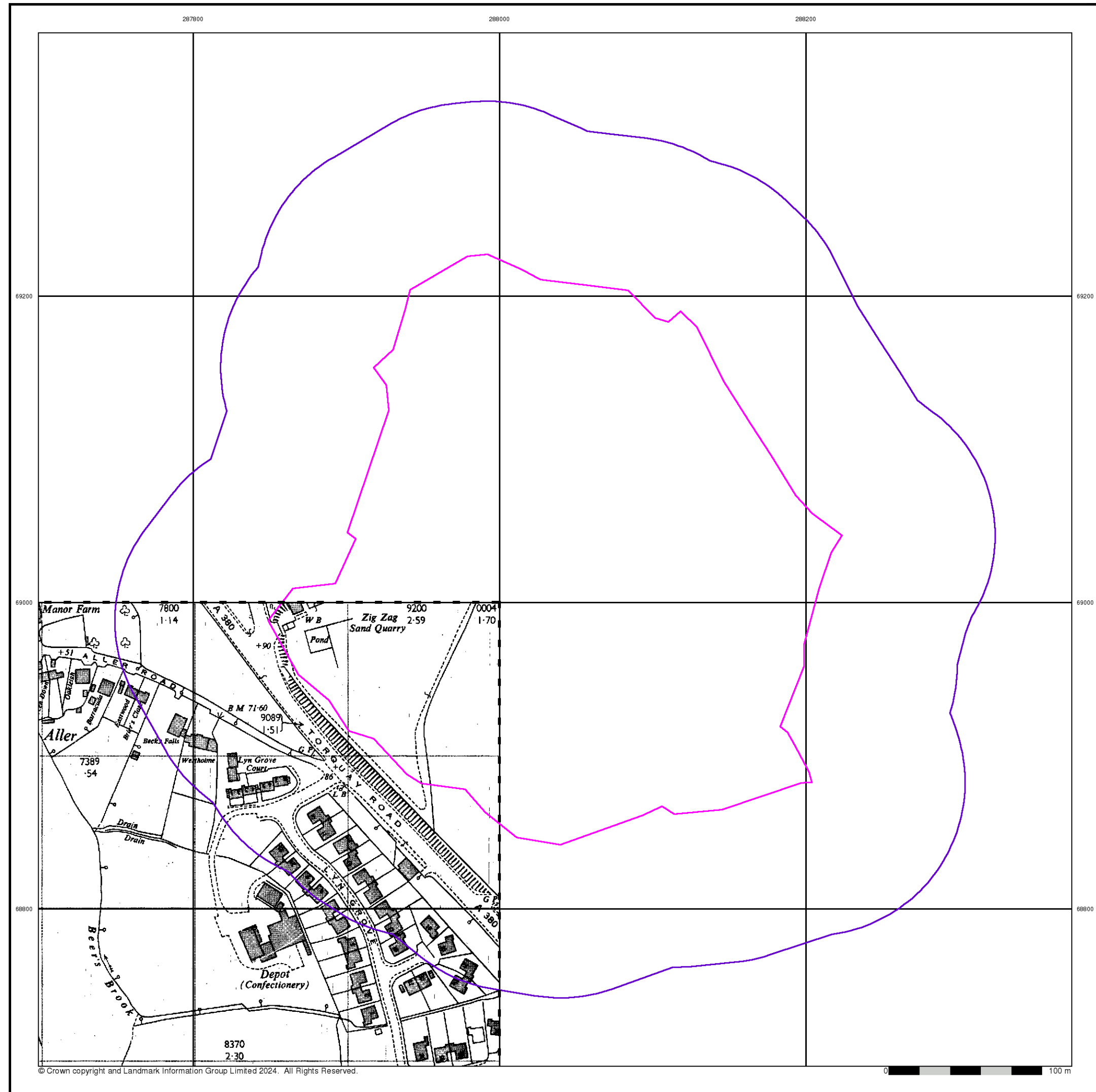


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

Allers Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



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LANDMARK INFORMATION GROUP[®]

Ordnance Survey Plan

Published 1966

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SX8768

1966

1:2,500

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	100

Site Details

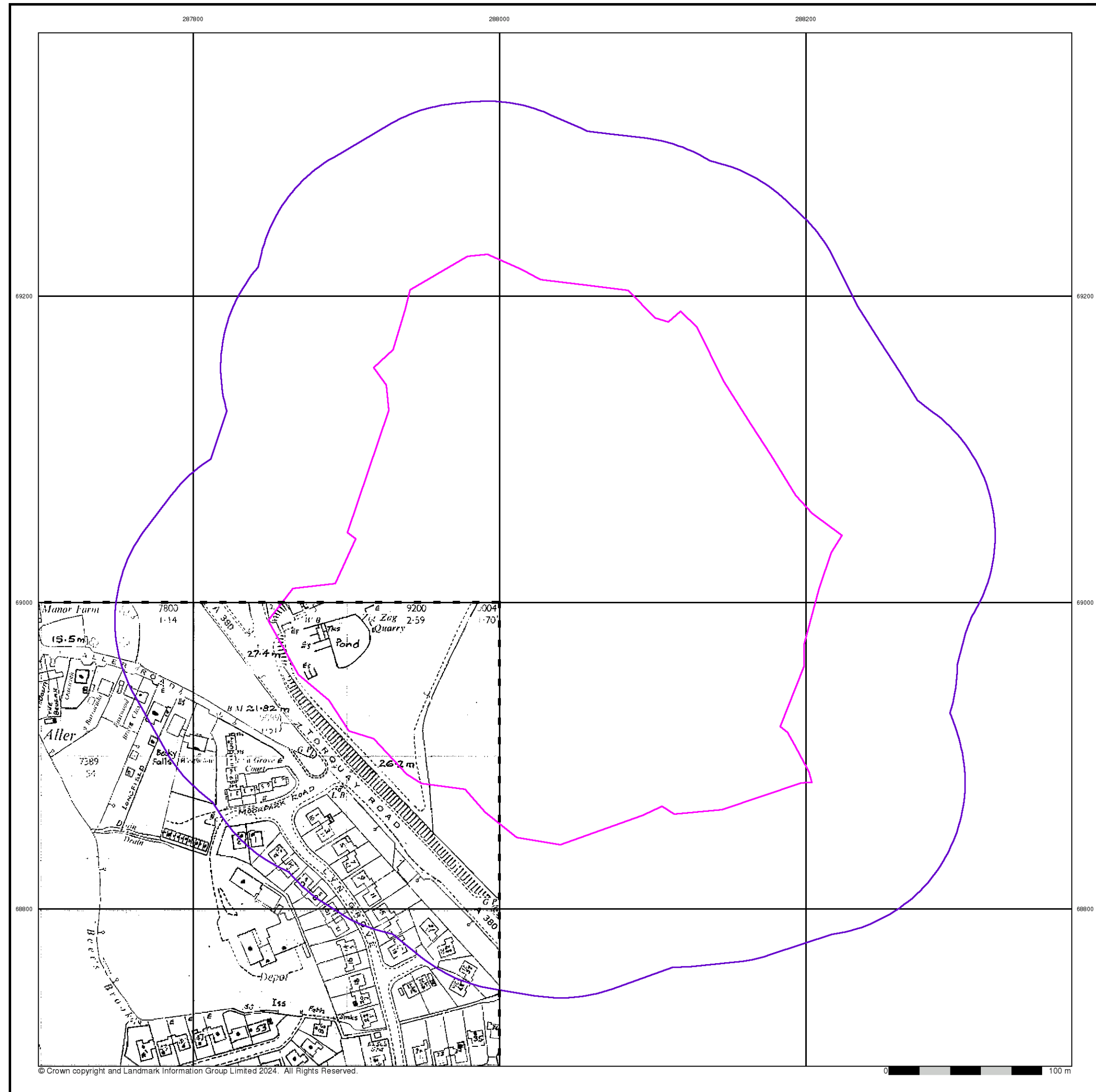
Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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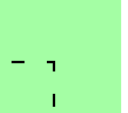
A Landmark Information Group Service v50.0 20-May-2024 Page 7 of 13



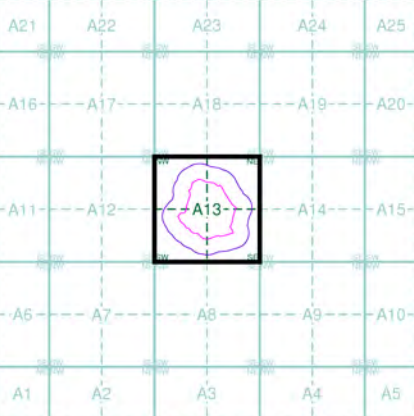
Additional SIMs
Published 1978
Source map scale - 1:2,500

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

Map Name(s) and Date(s)


SX8768
1978
1:2,500

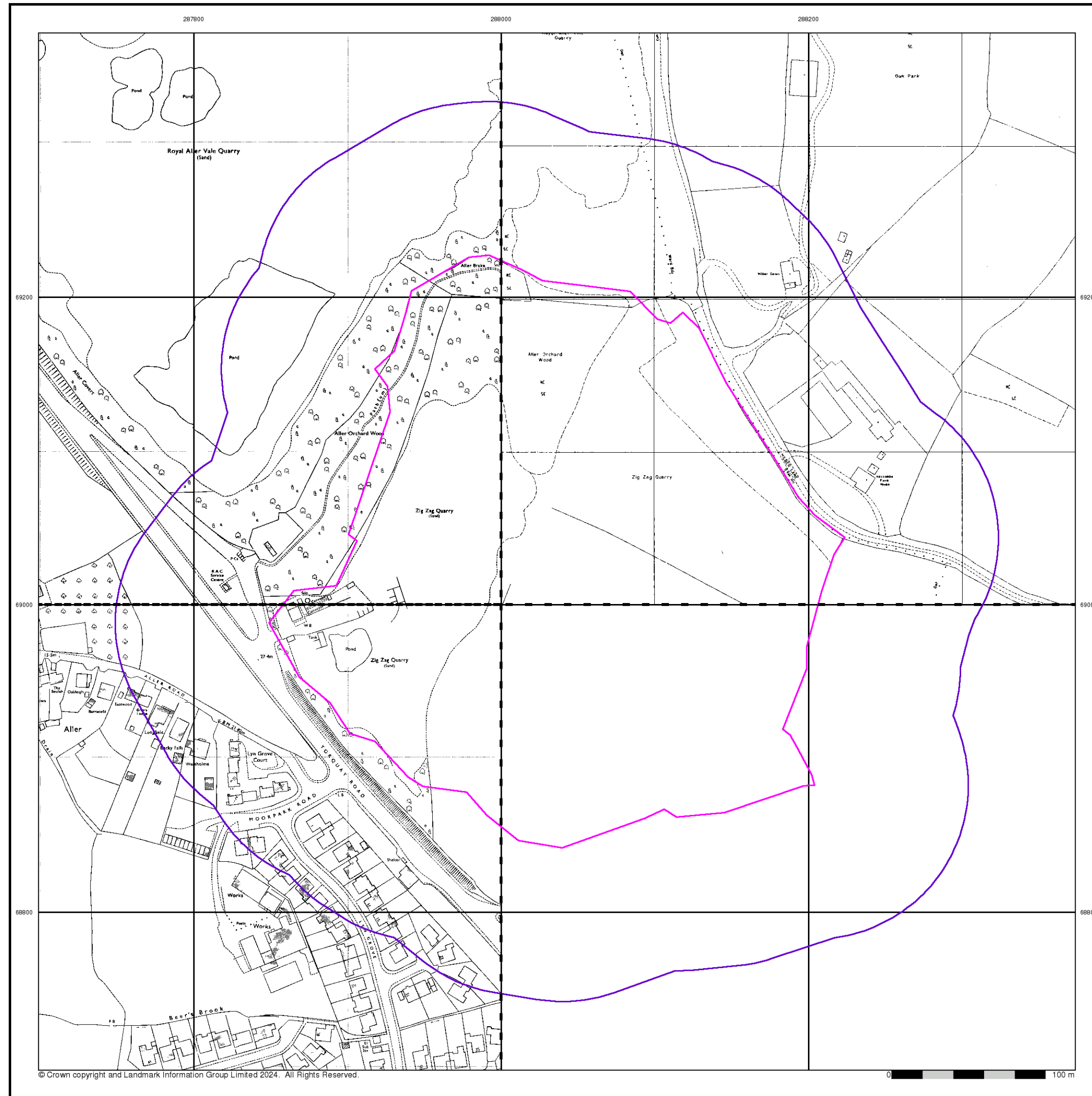
Historical Map - Segment A13



Order Details

Order Number:	347366419_1_1
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National Grid Reference:	288040, 69030
Slice:	A
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Search Buffer (m):	100

Site Details
Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



Ordnance Survey Plan

Published 1982 - 1989

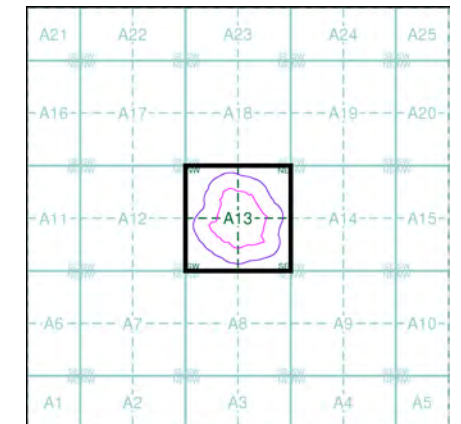
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SX8769SE	SX8869SW
1982	1989
1:1,250	1:1,250
SX8768NE	
1982	
1:1,250	

Historical Map - Segment A13



Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT,
TQ12 5AT



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

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

Map Name(s) and Date(s)

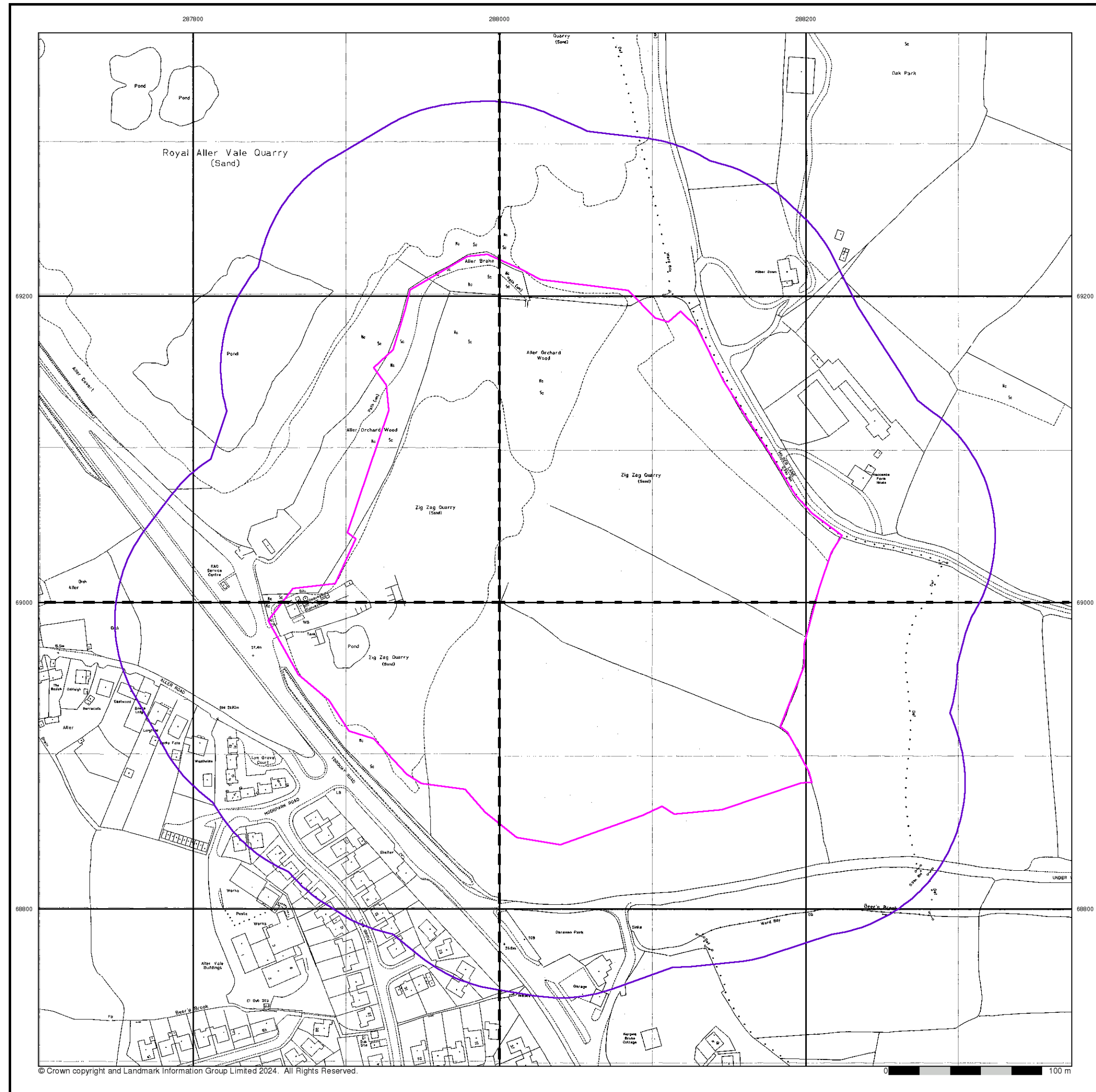
SX8869SW
1989
1:1,250

Historical Map - Segment A13

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	100

Site Details
Aller Vale Farm House, Newton Road, NEWTON ABBOT,
TQ12 5AT

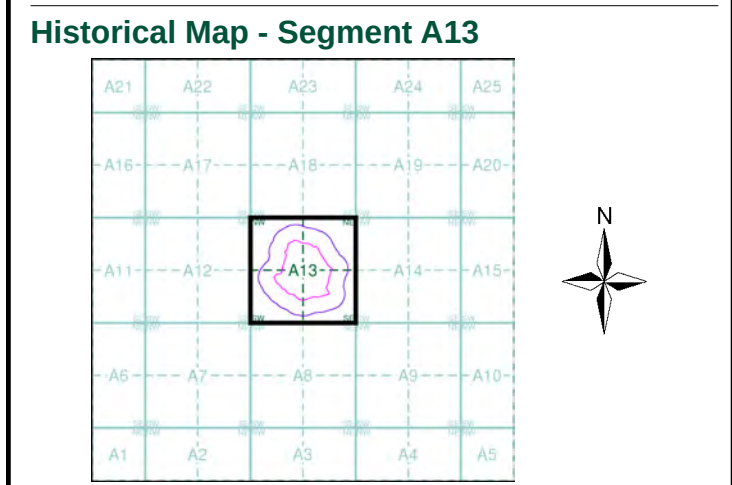


Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SX8769SE	SX8869SW
1993	1993
1:1,250	1:1,250
SX8768NE	SX8868NW
1993	1993
1:1,250	1:1,250

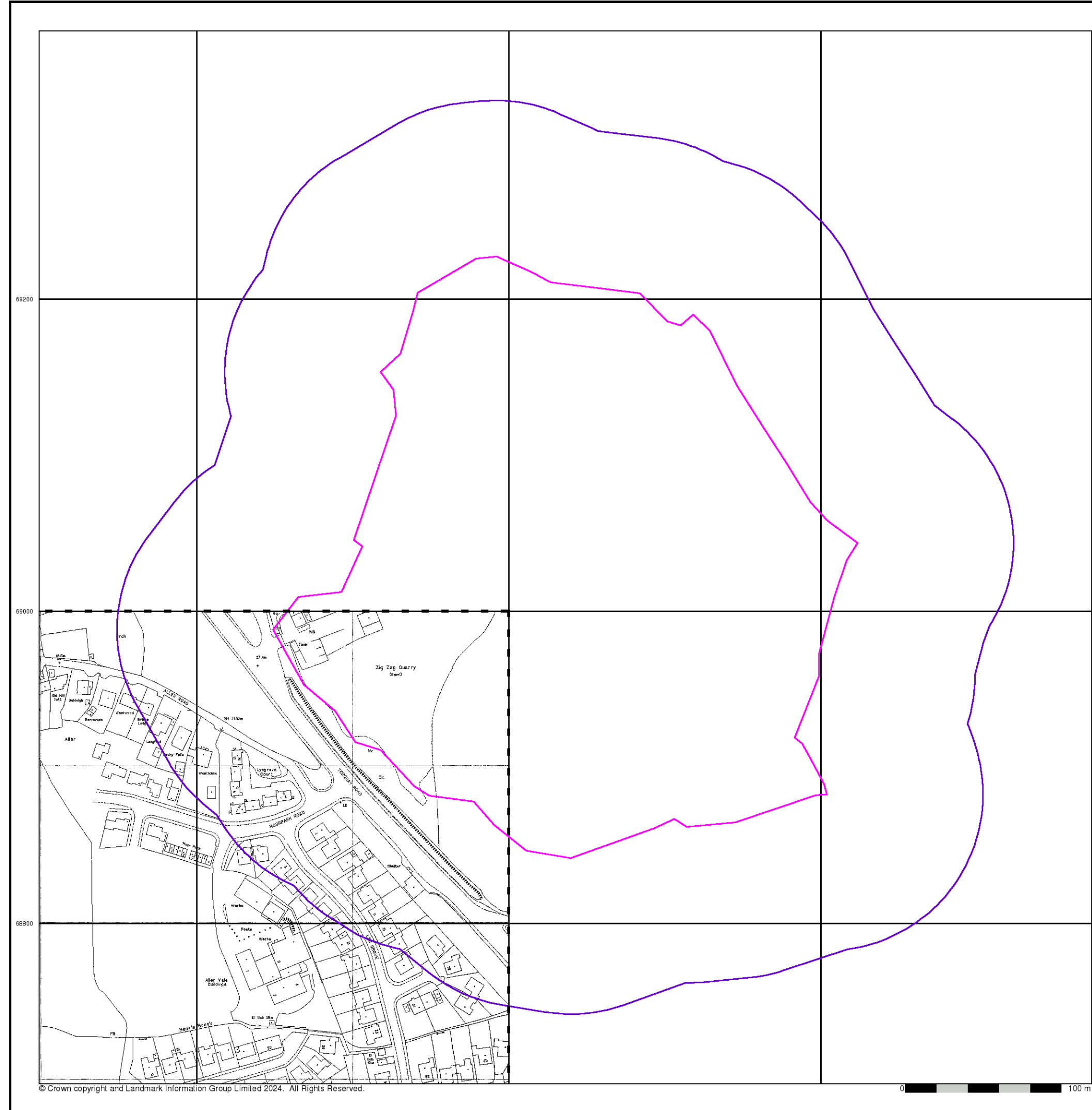


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 100

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



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0 100 m

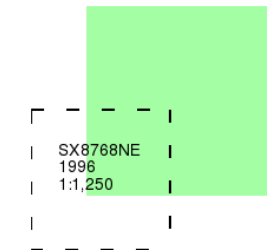
Large-Scale National Grid Data

Published 1996

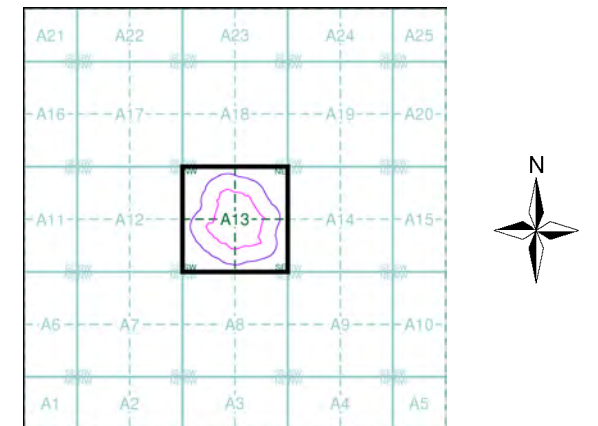
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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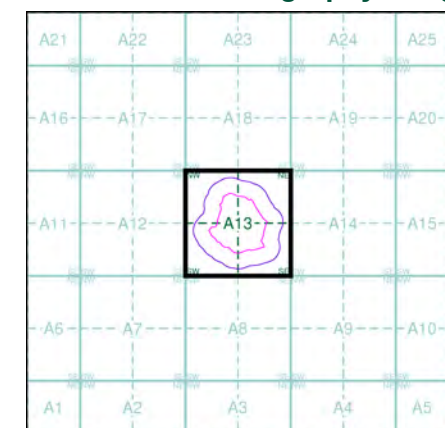
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

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Slice: A
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Search Buffer (m): 100

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

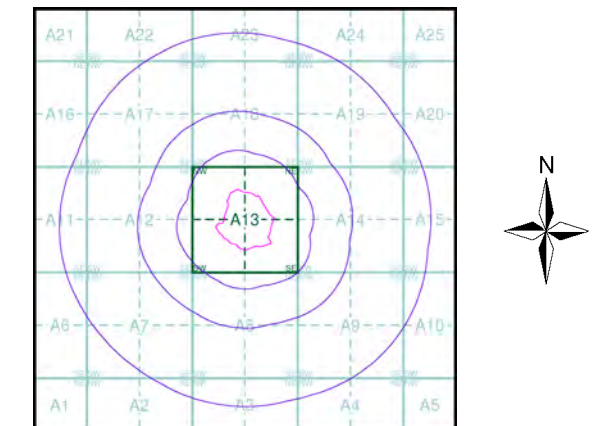
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Devon	1:10,560	1869 - 1889	3
Devon	1:10,560	1889	4
Devon	1:10,560	1906	5
Devon	1:10,560	1933	6
Devon	1:10,560	1938 - 1939	7
Devon	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1963 - 1964	9
Ordnance Survey Plan	1:10,000	1969	10
Torbay	1:10,000	1976	11
Ordnance Survey Plan	1:10,000	1987	12
Ordnance Survey Plan	1:10,000	1991 - 1993	13
Ordnance Survey Plan	1:10,000	1993	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2024	17

Historical Map - Slice A



Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

Landmark
INFORMATION GROUP

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

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

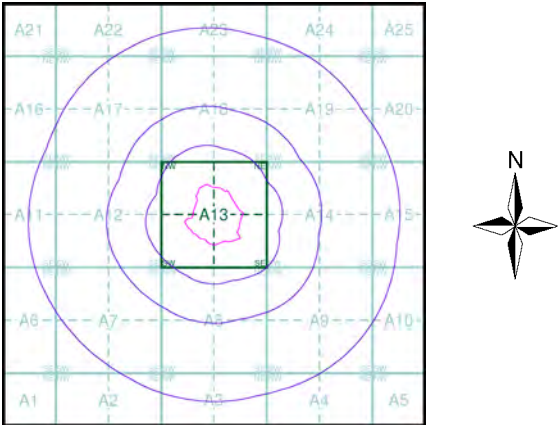
Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Devon	1:10,560	1869 - 1889	3
Devon	1:10,560	1889	4
Devon	1:10,560	1906	5
Devon	1:10,560	1933	6
Devon	1:10,560	1938 - 1939	7
Devon	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1963 - 1964	9
Ordnance Survey Plan	1:10,000	1969	10
Torbay	1:10,000	1976	11
Ordnance Survey Plan	1:10,000	1987	12
Ordnance Survey Plan	1:10,000	1991 - 1993	13
Ordnance Survey Plan	1:10,000	1993	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2024	17

Russian Map - Slice A

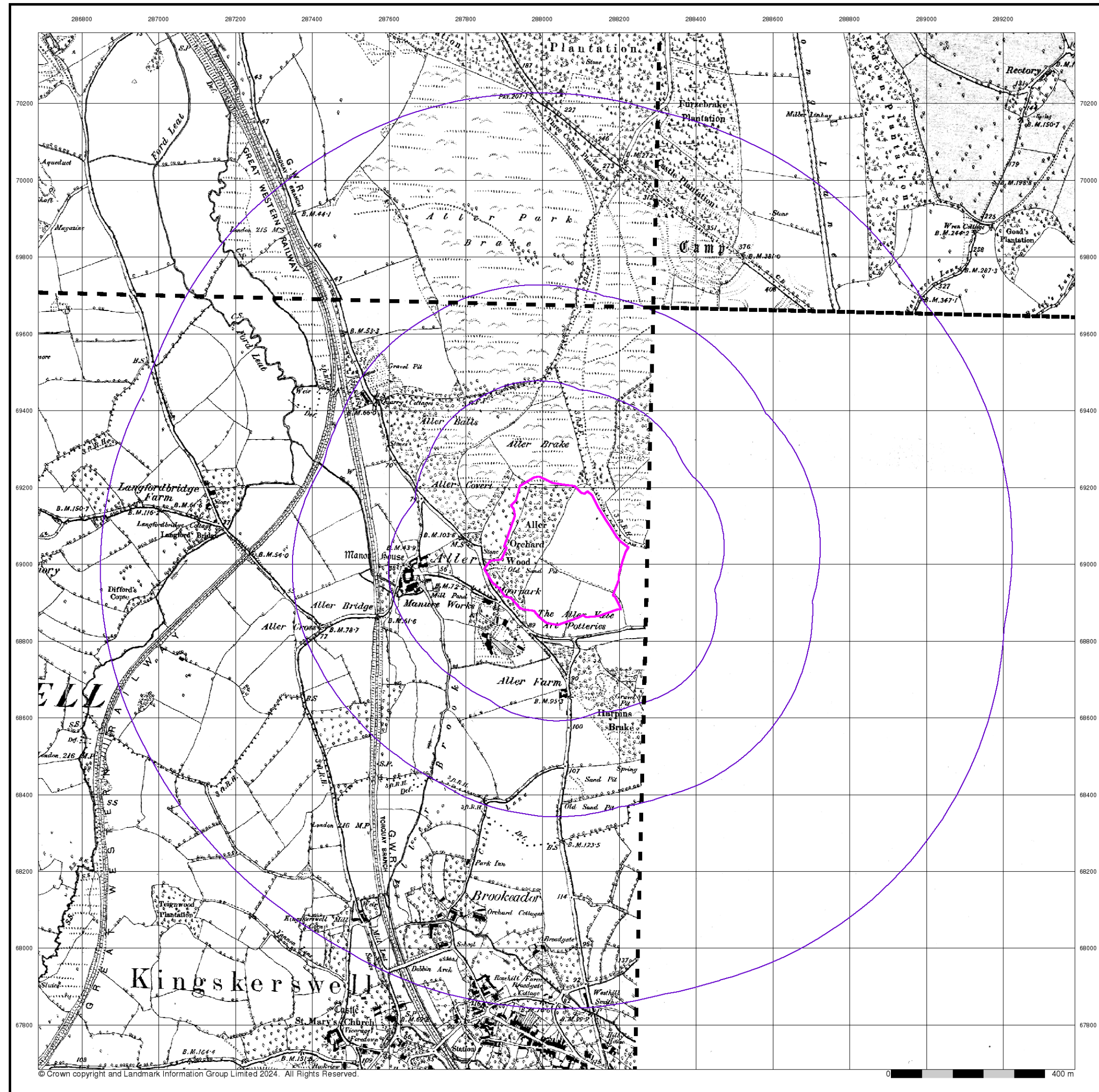


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
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Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



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Devon

Published 1869 - 1889

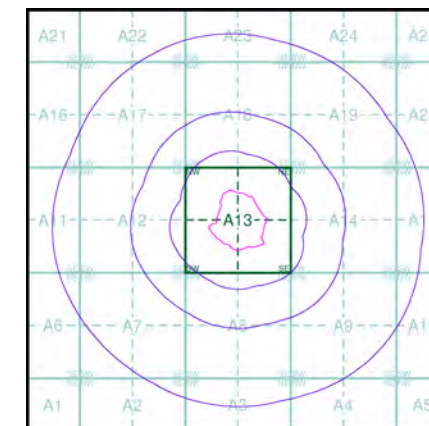
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

109SE	110SW
1889	1889
1:10,560	1:10,560
115NE	
1887	
1:10,560	
	11600
	1869
	1:10,560

Historical Map - Slice A



Order Details

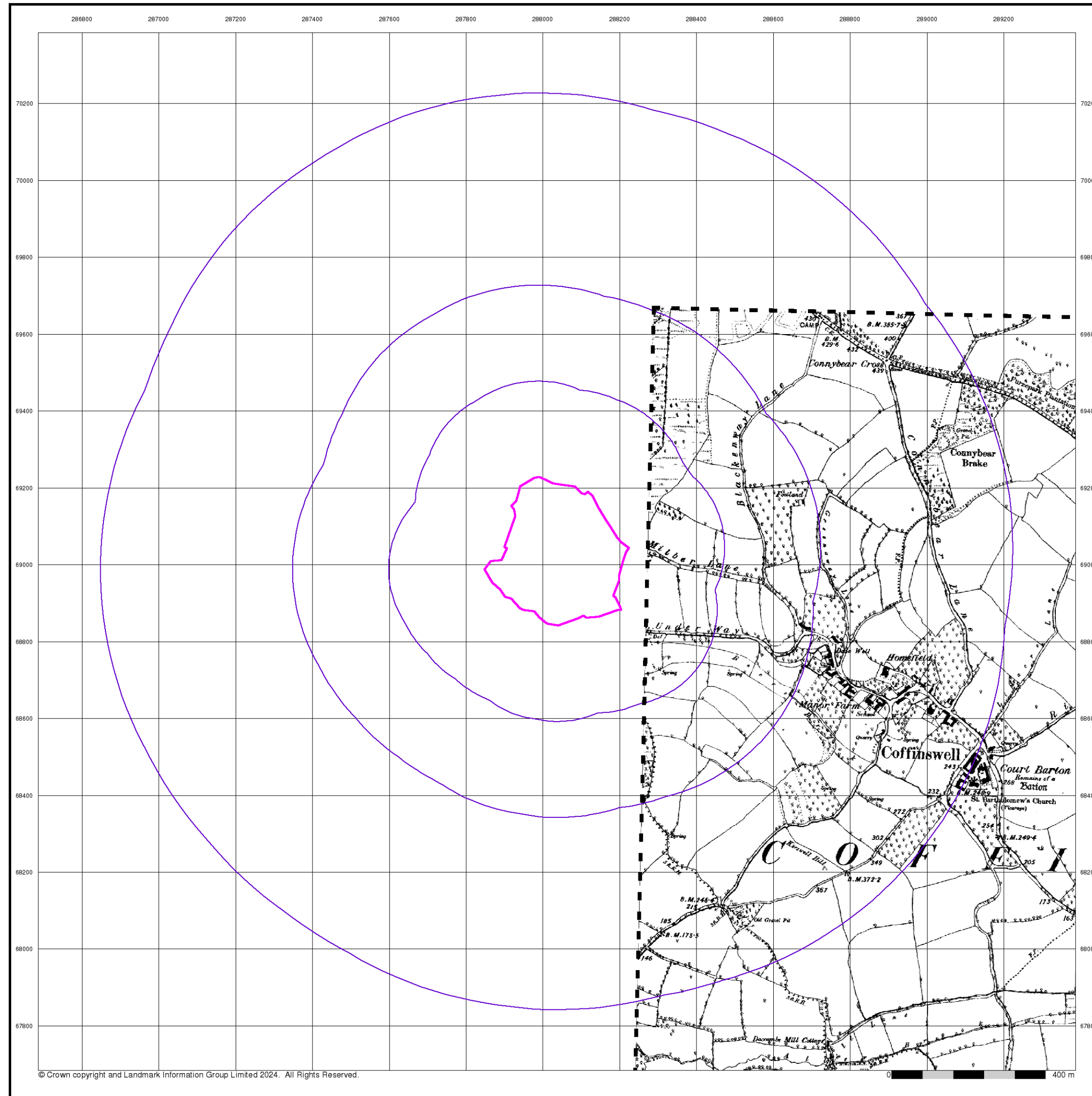
Order Number: 347366419_1_1
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TQ12 5AT

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



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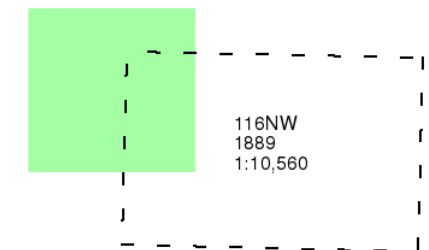
Devon

Published 1889

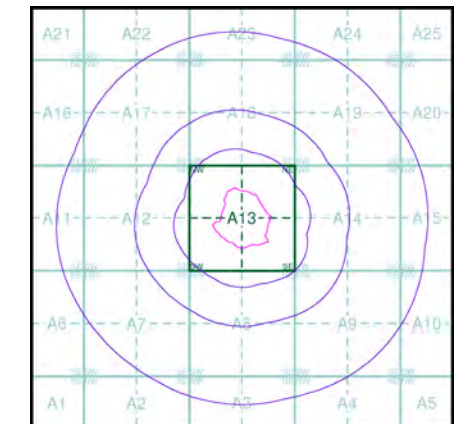
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

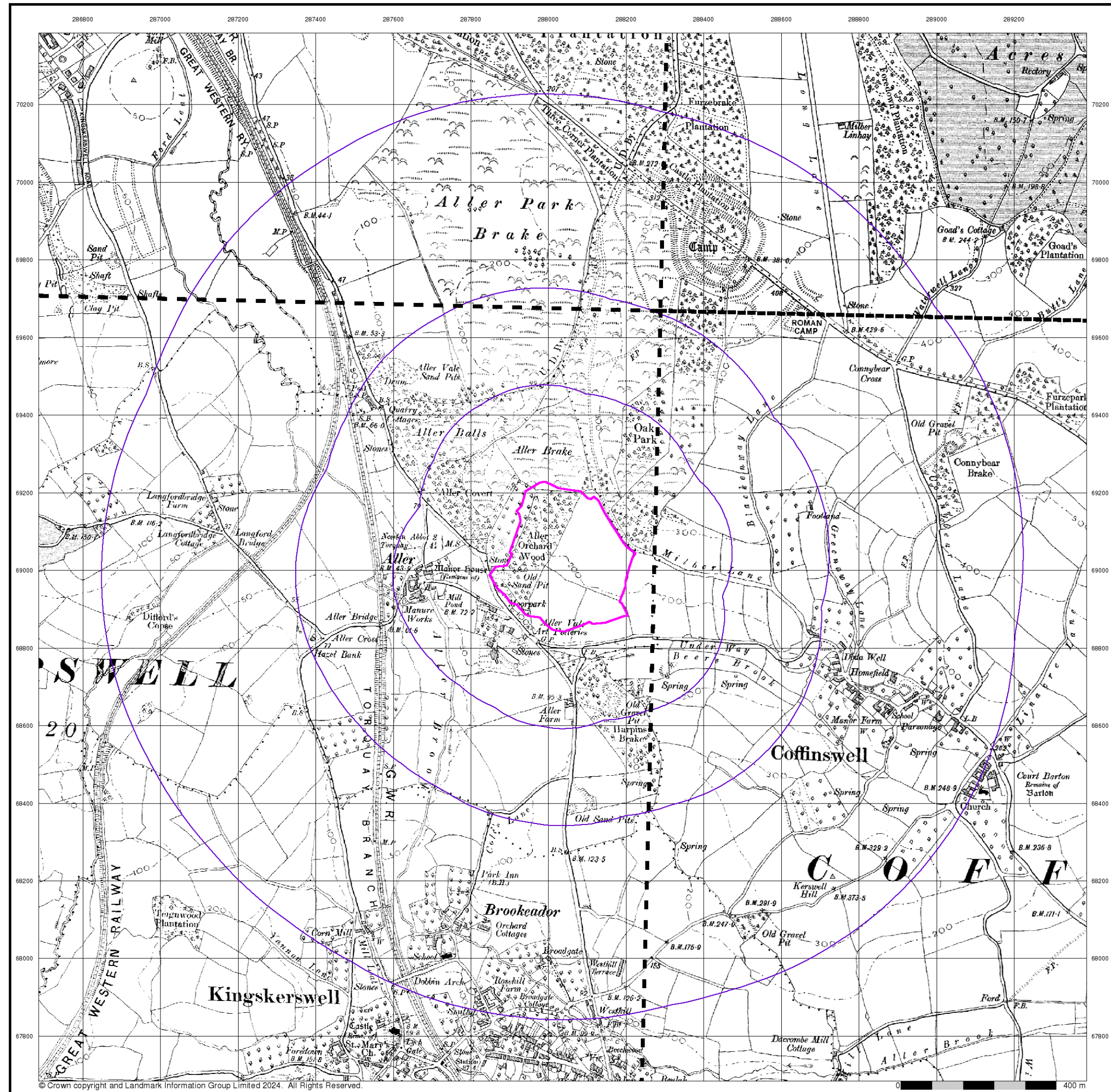


Order Details

Order Number: 347366419_1_1
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Slice: A
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Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



Devon

Published 1906

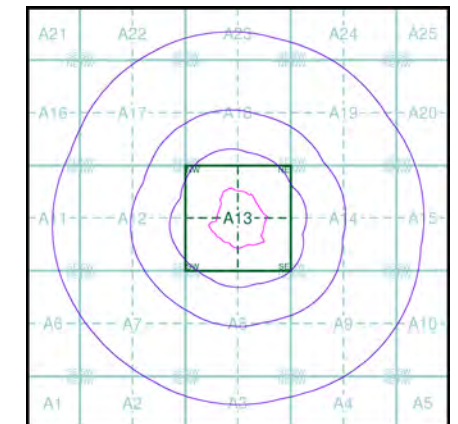
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

109SE 1906 1:10,560	110SW 1906 1:10,560
115NE 1906 1:10,560	116NW 1906 1:10,560

Historical Map - Slice A

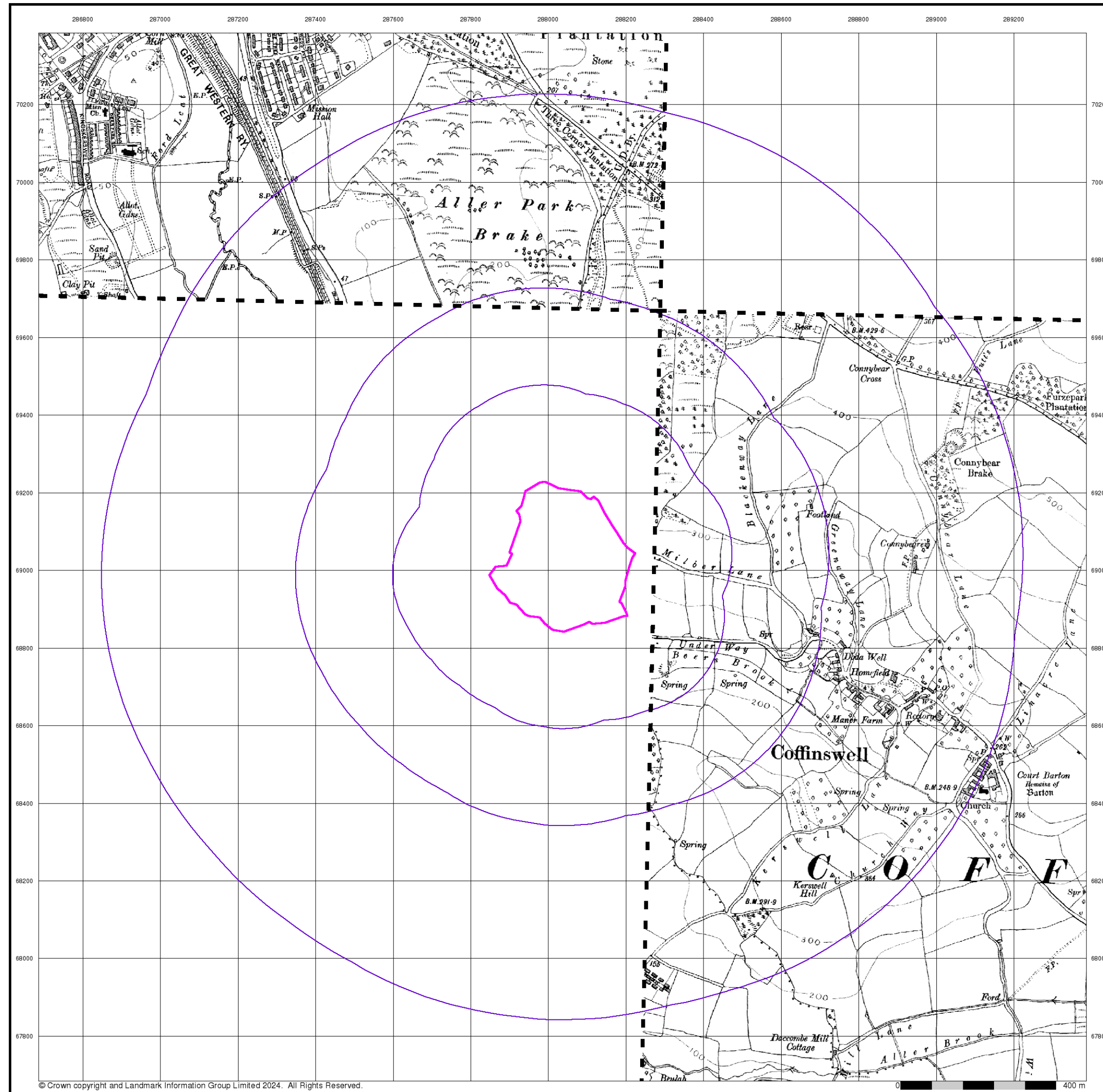


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TQ12 5AT



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0 400 m

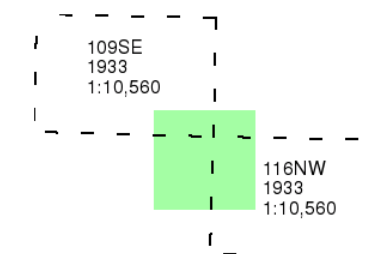
Devon

Published 1933

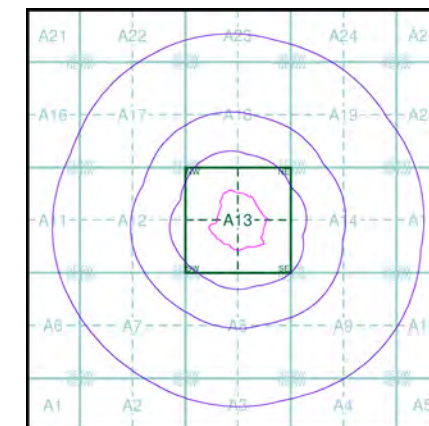
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

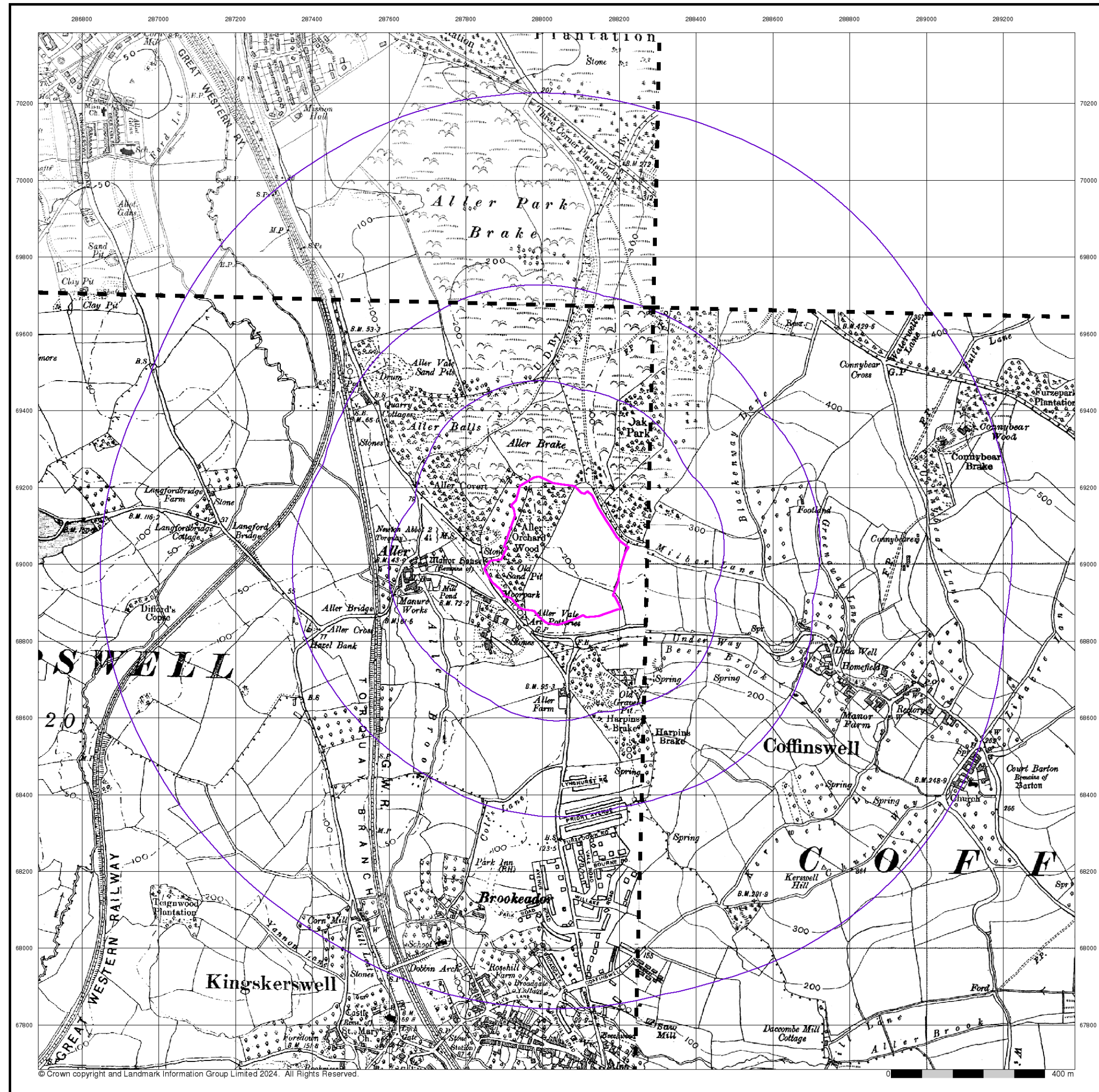


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



Envirocheck

LANDMARK INFORMATION GROUP

Devon

Published 1938 - 1939

Source map scale - 1:10,560

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

Map Name(s) and Date(s)

109SE 1938 1:10,560	115NE 1938 1:10,560	116NW 1939 1:10,560
---------------------------	---------------------------	---------------------------

Historical Map - Slice A

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details

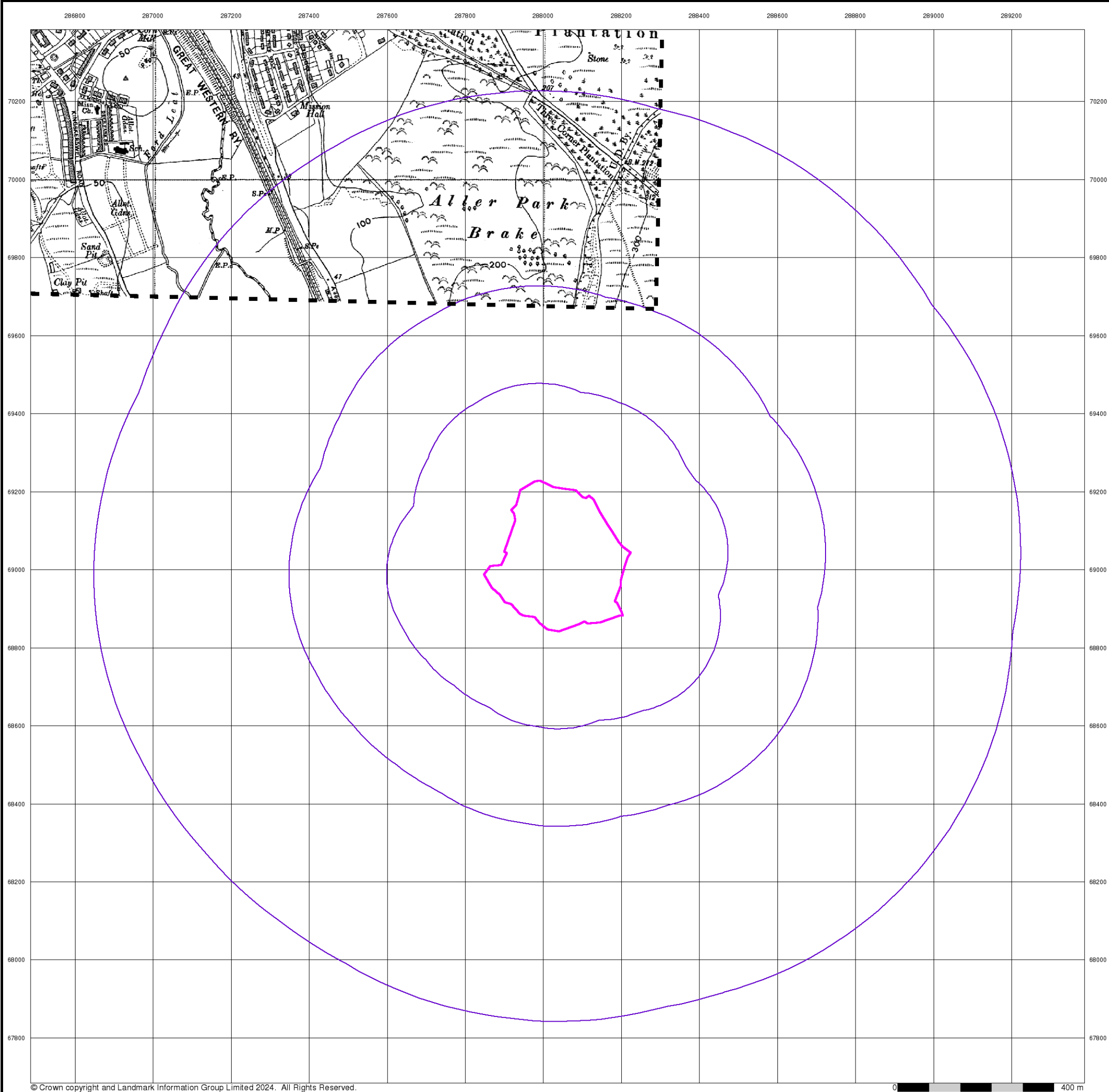
Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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Fax: 0844 844 9951
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0 400 m

Devon

Published 1938

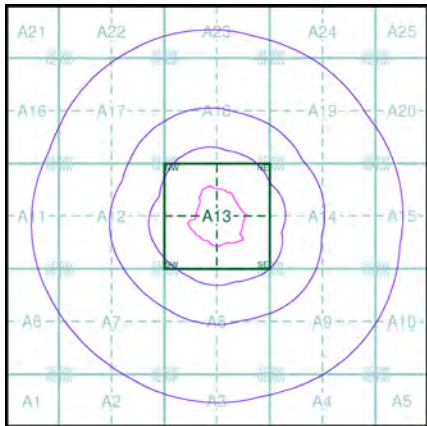
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

109SE
1938
1:10,560

Historical Map - Slice A

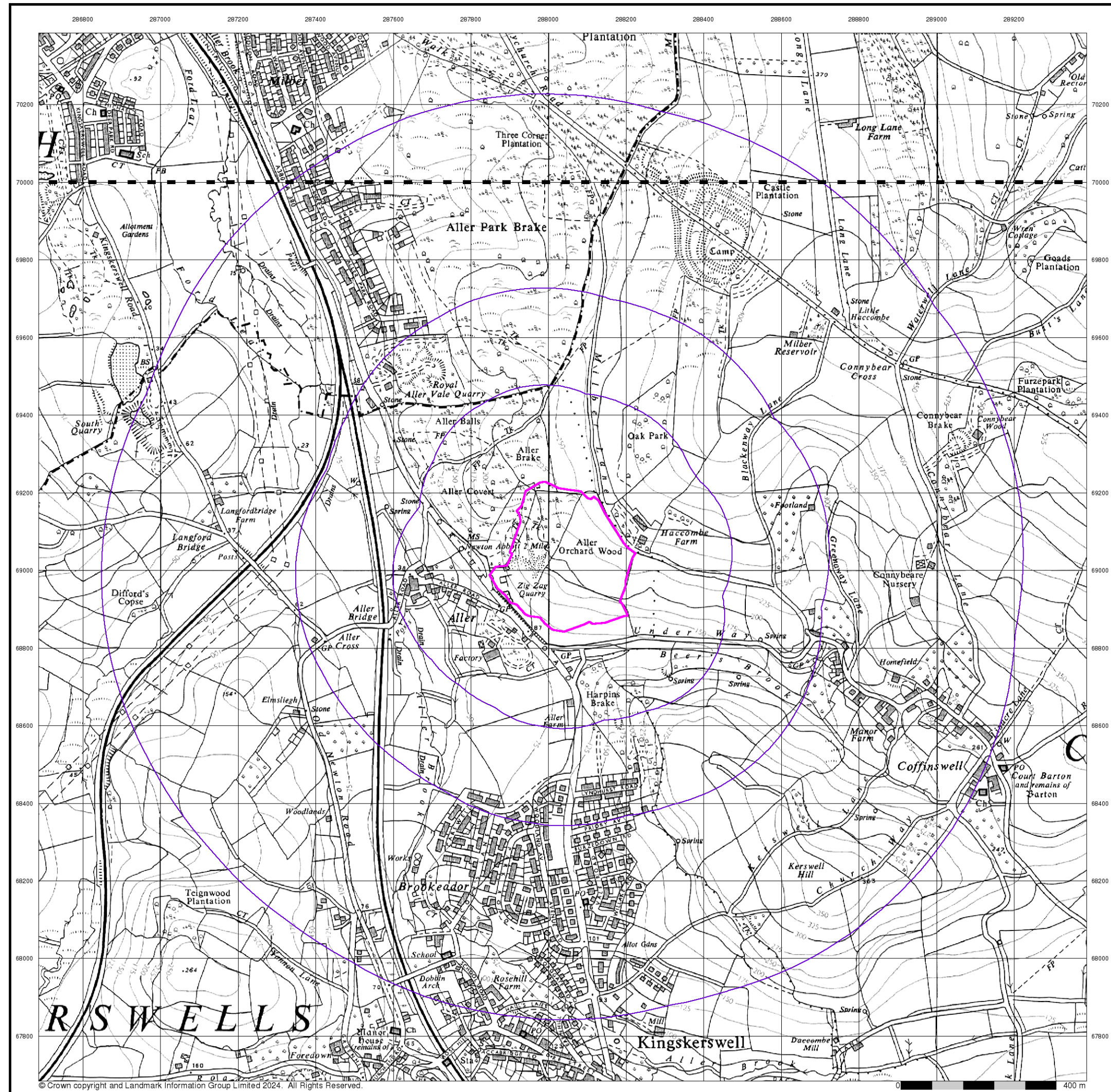


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT,
TQ12 5AT



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Ordnance Survey Plan

Published 1963 - 1964

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SX87SE	1963
SX86NE	1964

Historical Map - Slice A

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details

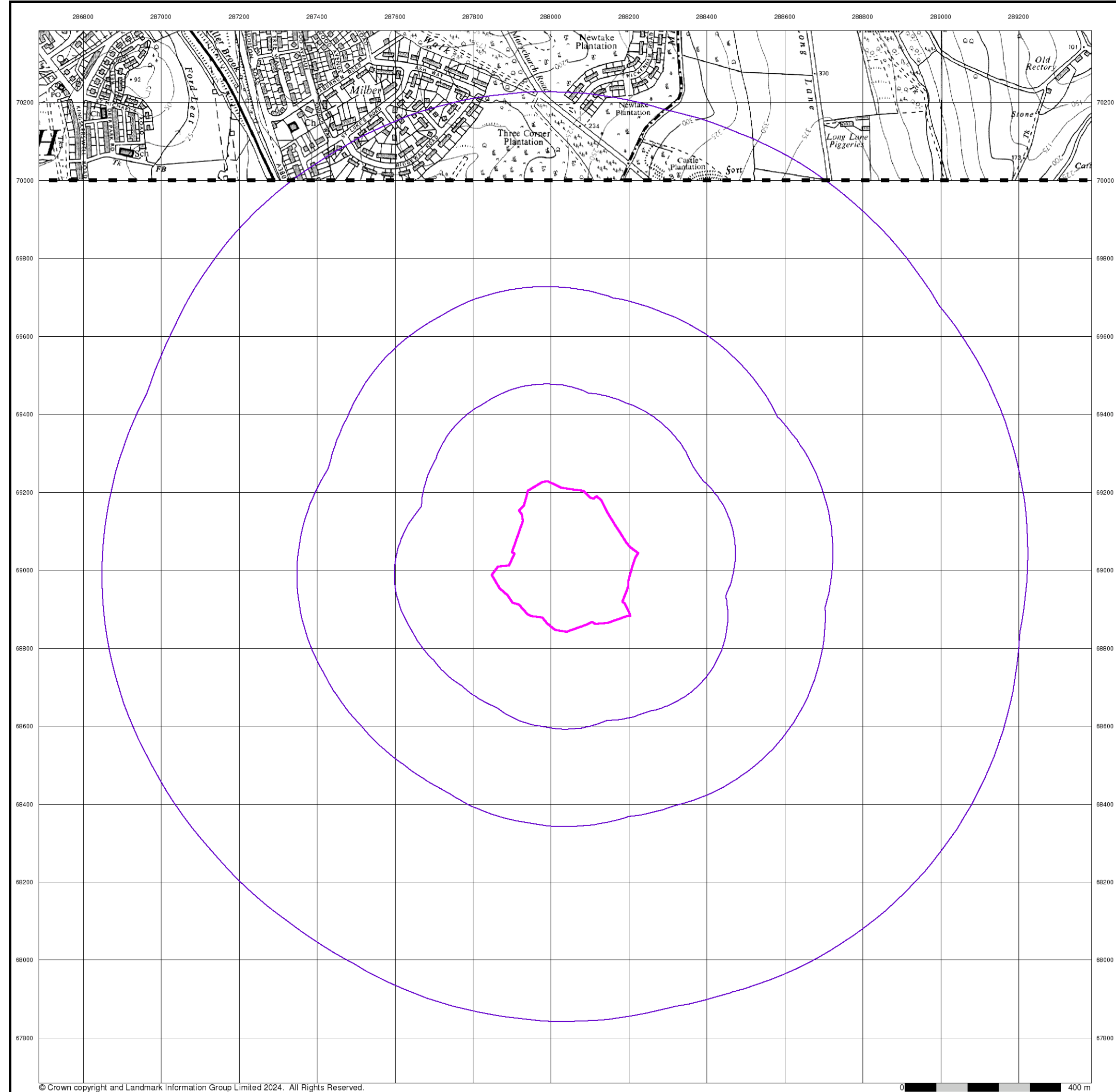
Allerswell Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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

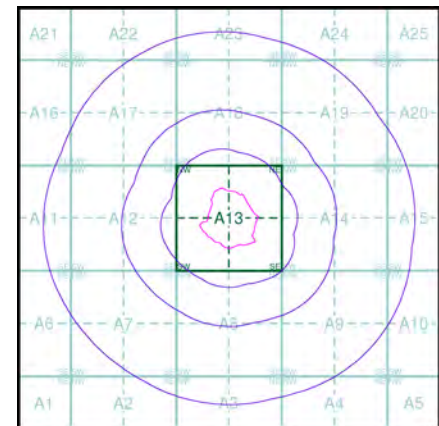
Map Name(s) and Date(s)

SX87SE

1969

1:10,560

Historical Map - Slice A



Order Details

Order Number:347366419_1_1

Customer Ref:HCE0269

National Grid Reference:288040, 69030

Slice:A

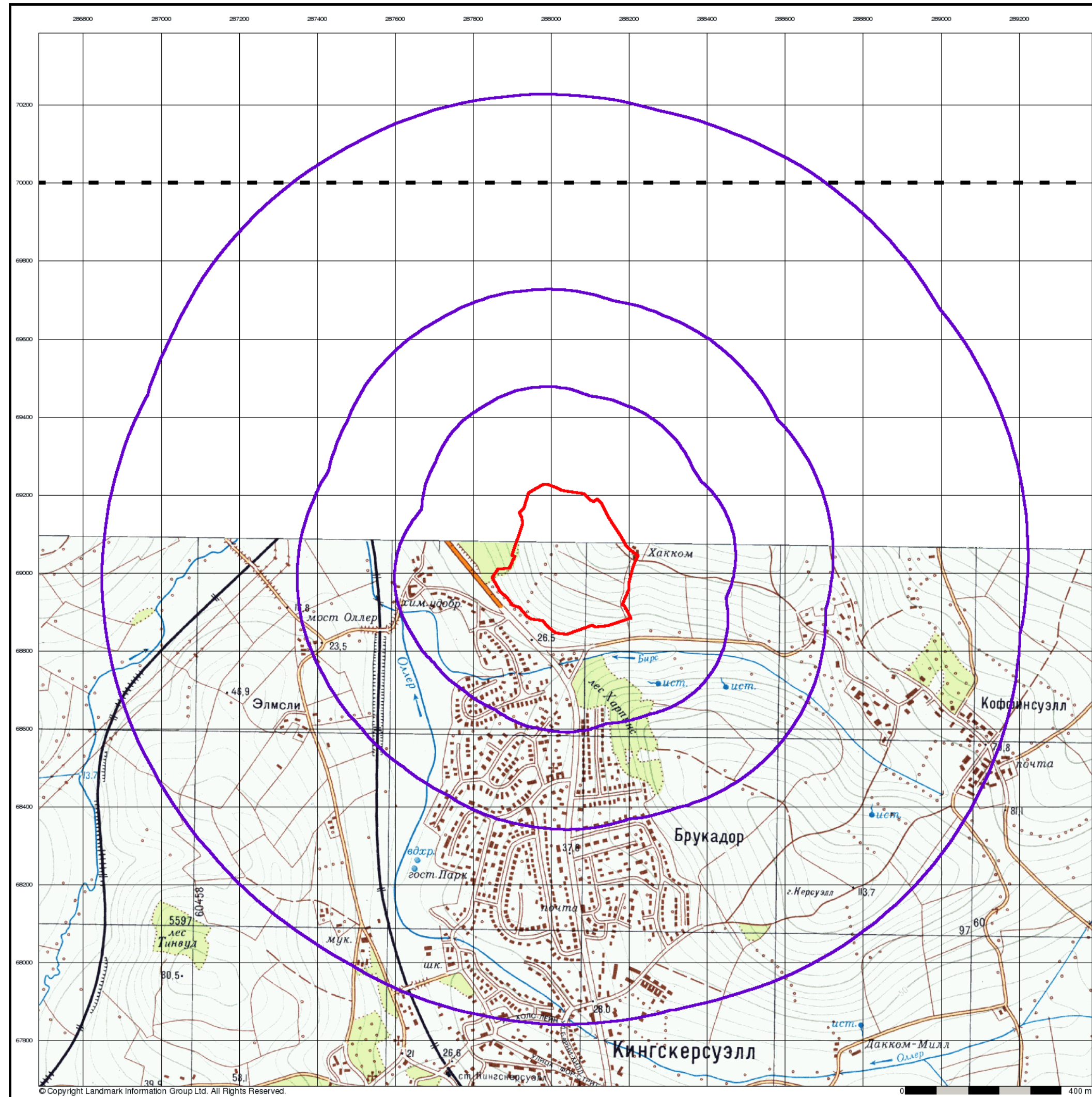
Site Area (Ha):9.48

Search Buffer (m):1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT,

TQ12 5AT



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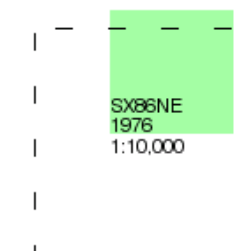
Torbay

Published 1976

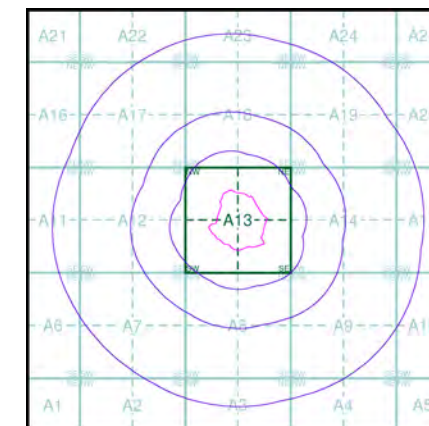
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Russian Map - Slice A

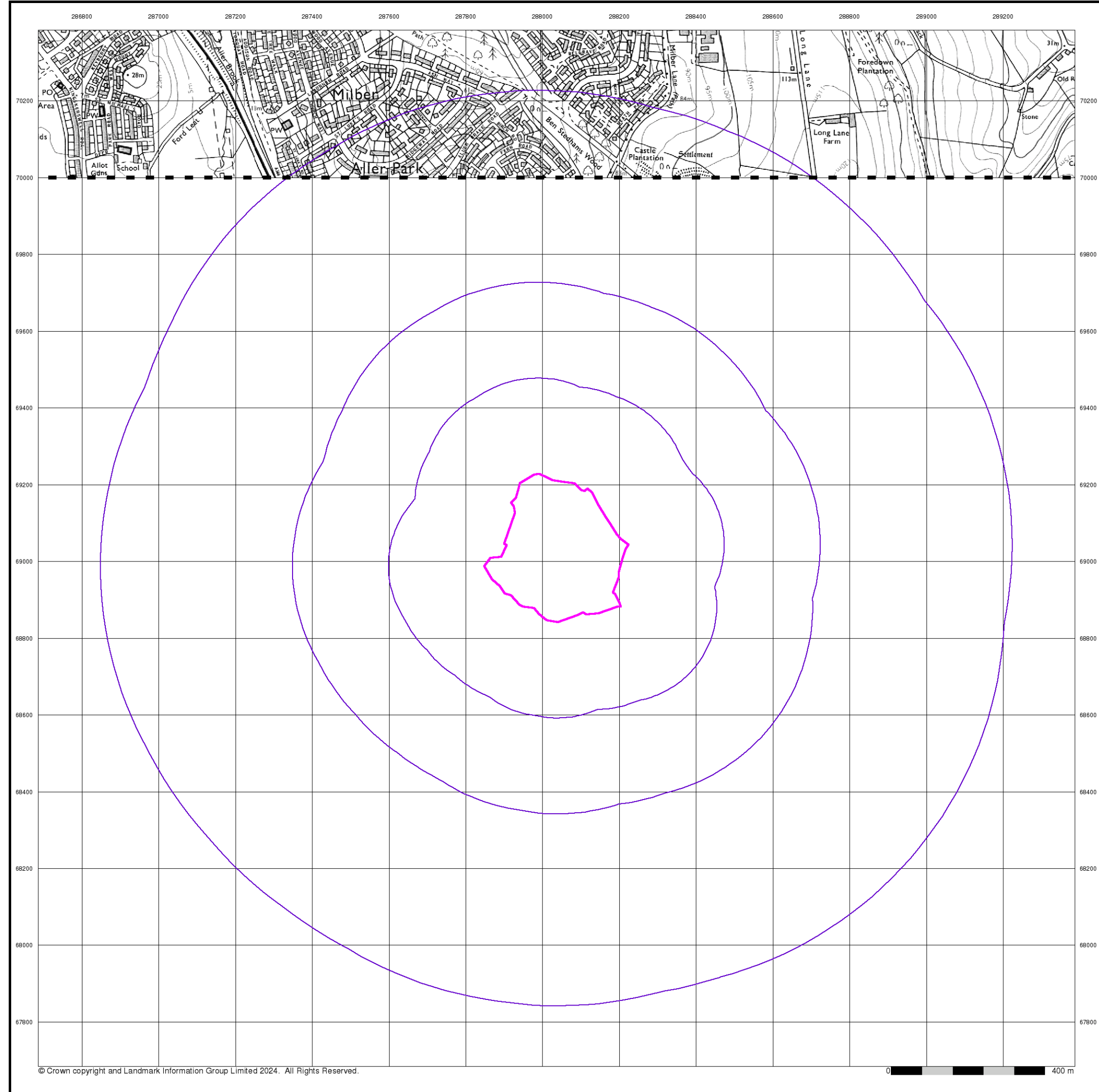


Order Details

Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1987

Source map scale - 1:10,000

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

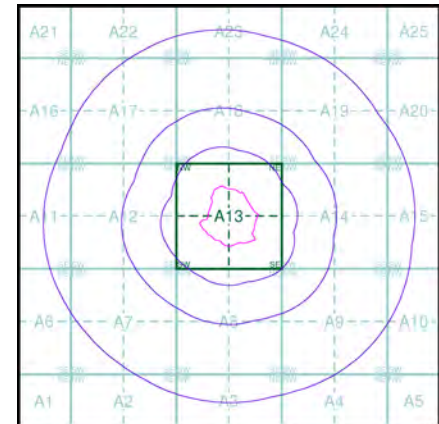
Map Name(s) and Date(s)

SX87SE

1987

1:10,000

Historical Map - Slice A



Order Details

Order Number: 347366419_1_1

Customer Ref: HCE0269

National Grid Reference: 288040, 69030

Slice: A

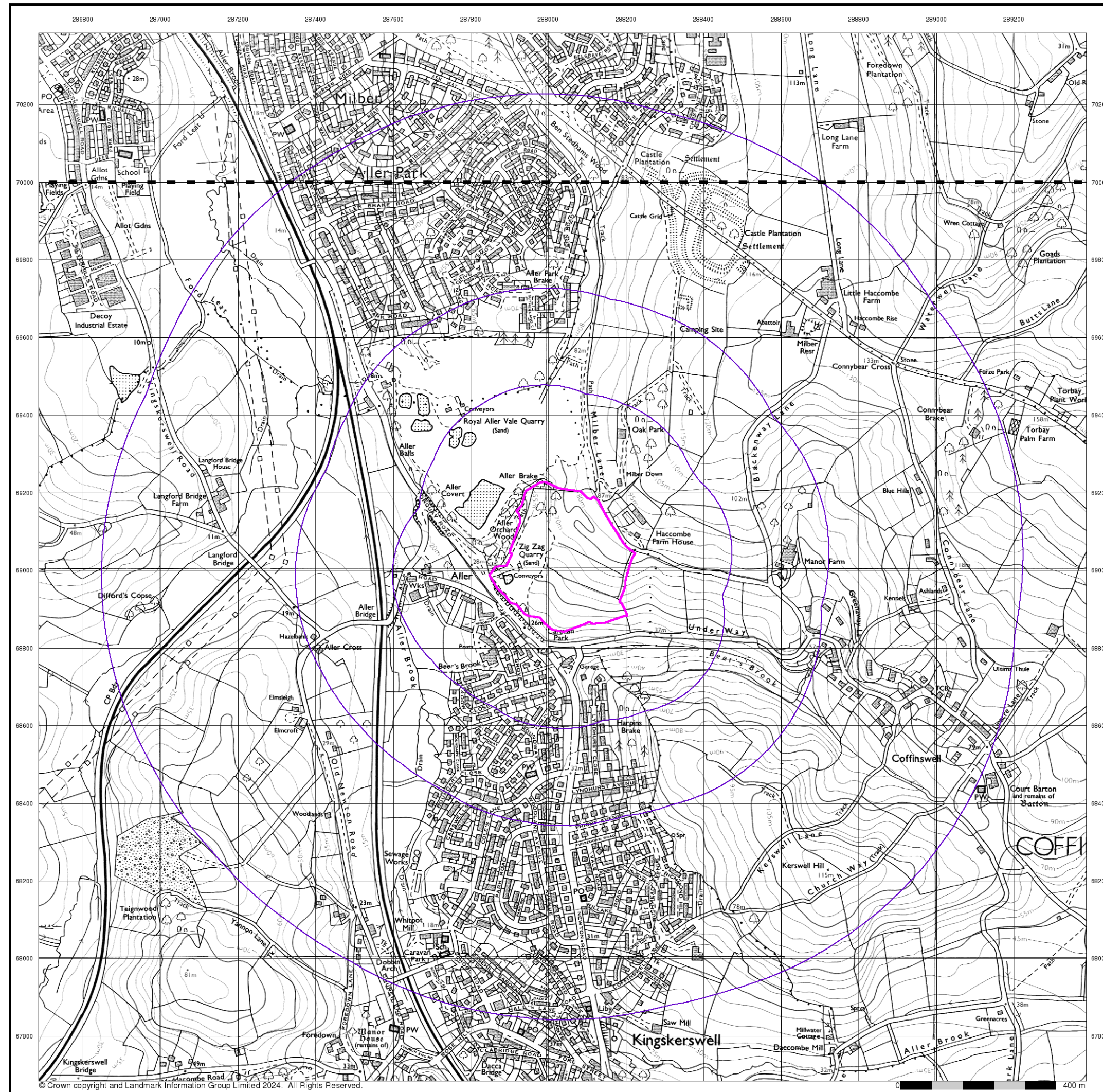
Site Area (Ha): 9.48

Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT,

TQ12 5AT



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Ordnance Survey Plan

Published 1991 - 1993

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SX87SE

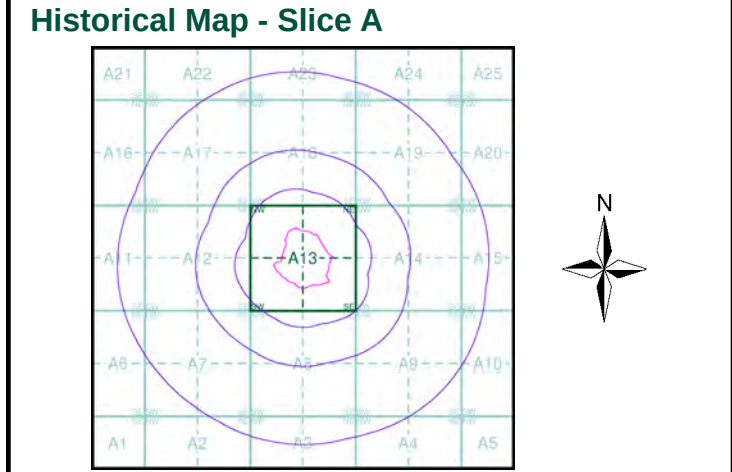
1993

1:10,000

SX86NE

1991

1:10,000

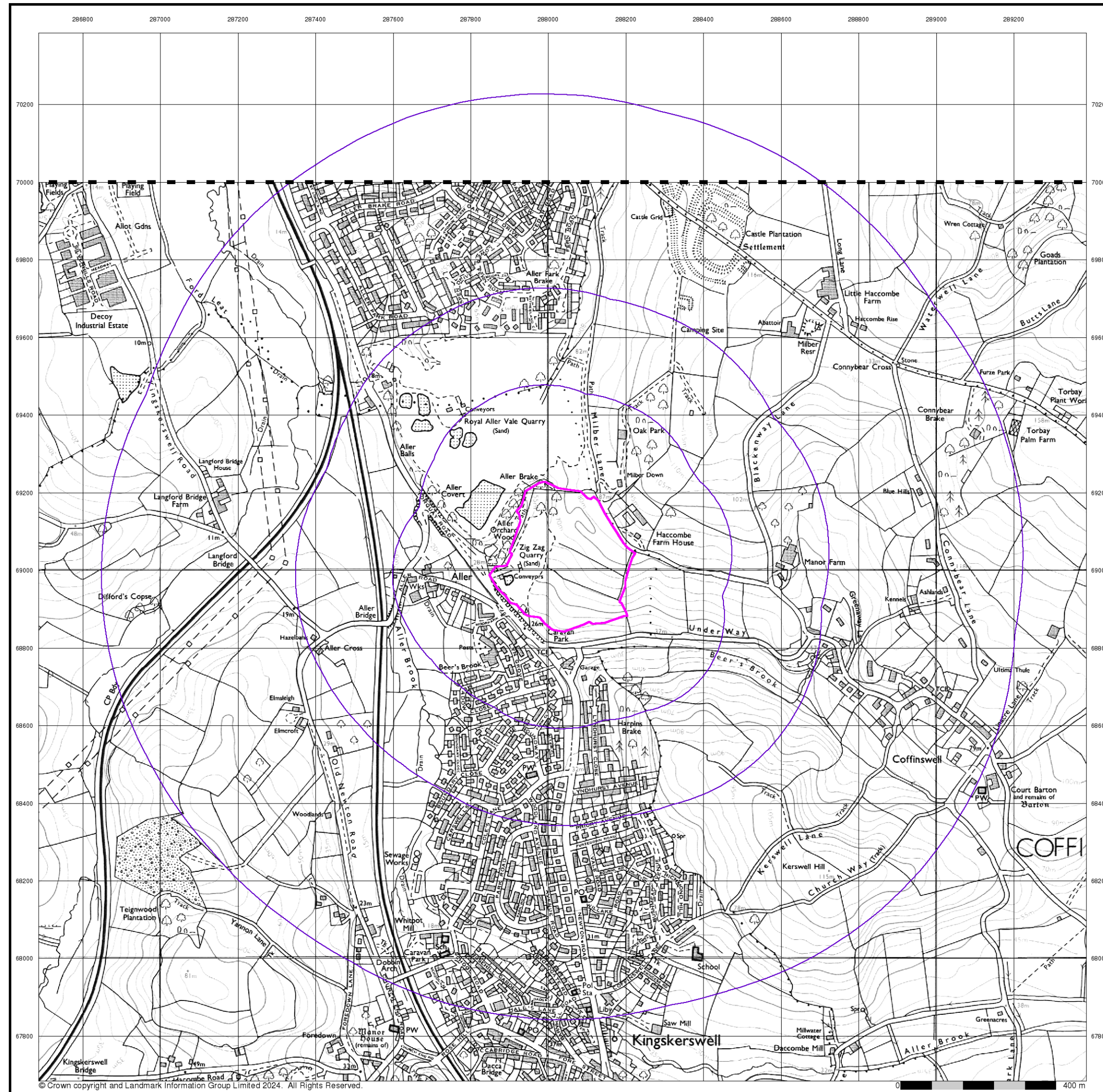


Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details

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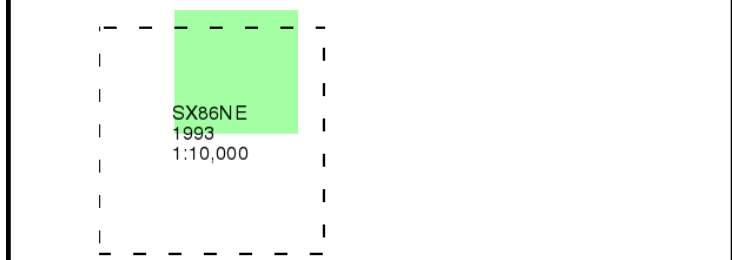
Ordnance Survey Plan

Published 1993

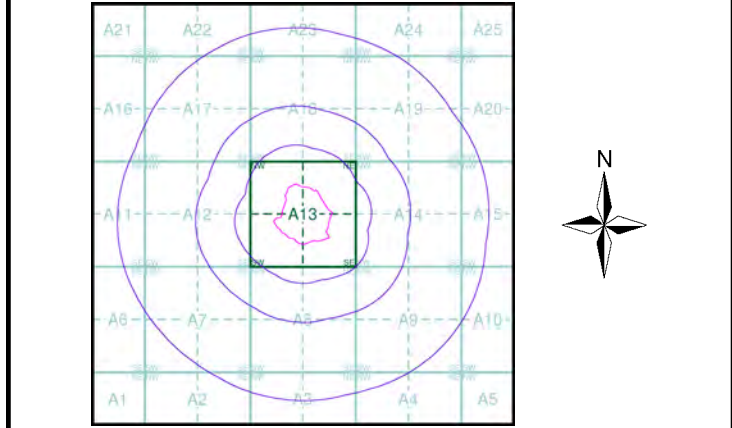
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

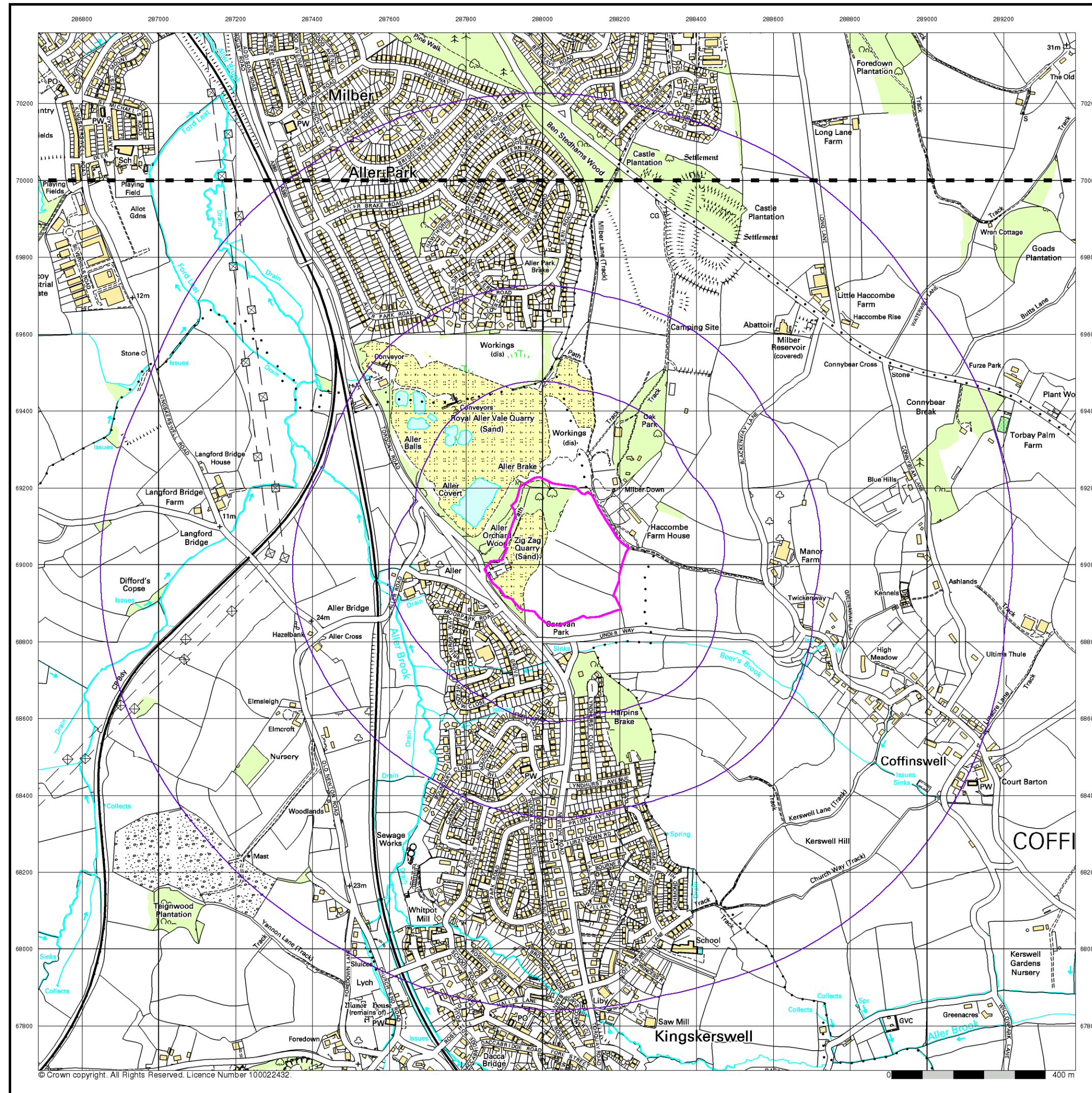


Historical Map - Slice A



Order Details	
Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details
Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT



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10k Raster Mapping

Published 1999

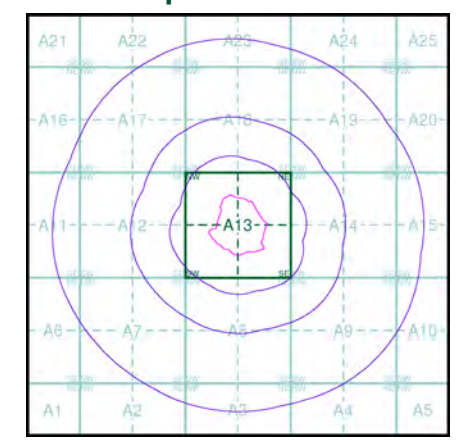
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SX87SE
1999
1:10,000
SX86NE
1999
1:10,000

Historical Map - Slice A



Order Details

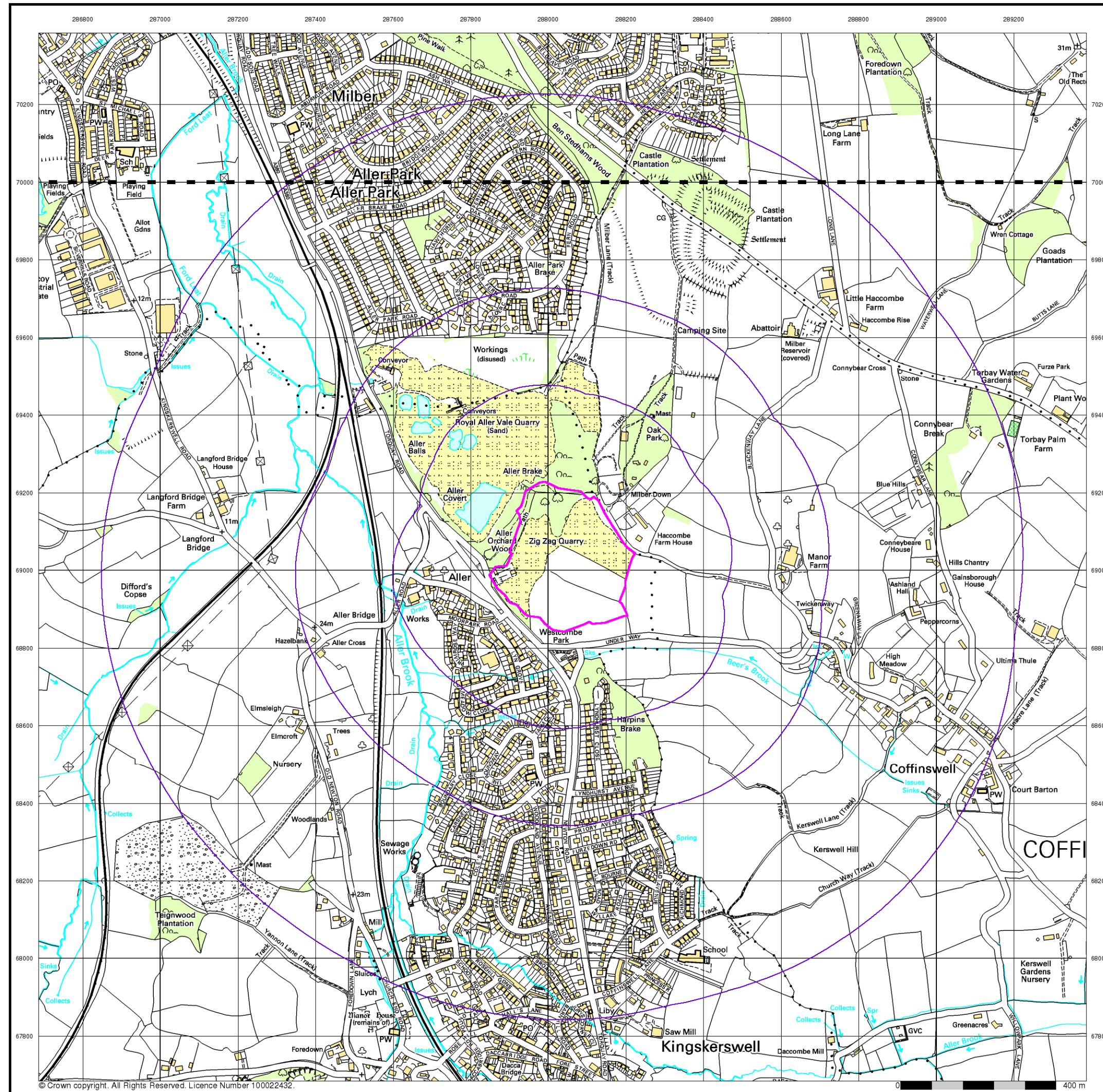
Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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10k Raster Mapping

Published 2006

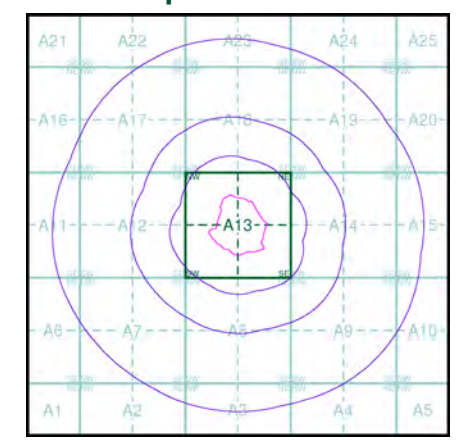
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SX87SE
2006
1:10,000
SX86NE
2006
1:10,000

Historical Map - Slice A



Order Details

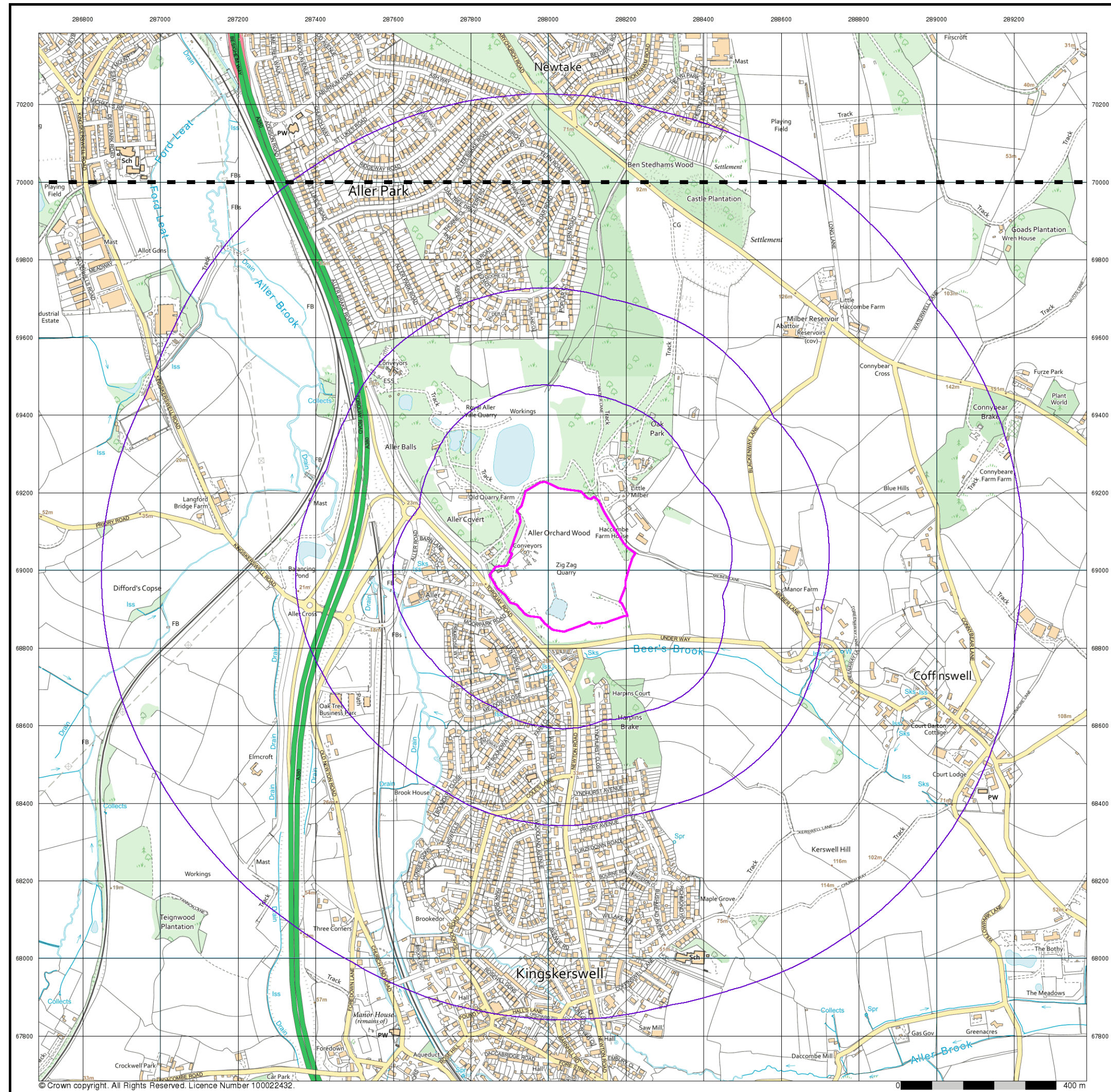
Order Number: 347366419_1_1
Customer Ref: HCE0269
National Grid Reference: 288040, 69030
Slice: A
Site Area (Ha): 9.48
Search Buffer (m): 1000

Site Details

Allers Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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VectorMap Local

Published 2024

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SX87SE	2024	Variable
SX86NE	2024	Variable

Historical Map - Slice A

Order Details

Order Number:	347366419_1_1
Customer Ref:	HCE0269
National Grid Reference:	288040, 69030
Slice:	A
Site Area (Ha):	9.48
Search Buffer (m):	1000

Site Details

Aller Vale Farm House, Newton Road, NEWTON ABBOT, TQ12 5AT

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Appendix G

Summary Tables

Table G01
Landfill Gas Data
Zig Zag Quarry



Well Location	Status	Meteorological Information							Perimeter																								BH05								BH06					
Date									BH01												BH02						BH03																			
		Flow rate		CH ₄		CO ₂		Flow rate		CH ₄		CO ₂		Flow rate		CH ₄		CO ₂		Flow rate		CH ₄		CO ₂		Flow rate		CH ₄		CO ₂		Flow rate		CH ₄		CO ₂										
		State of Ground	Precipitation	Wind	Cloud Cover	Barometric Pressure			Peak (l/hour)	Steady (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (l/hour)	Steady (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (l/hour)	Steady (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (l/hour)	Steady (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)	Peak (l/hour)	Steady (l/hour)	Peak (%v/v)	Q _{HG} (l/hour)										
		Start	End	Situation	2	0.3	0	0	4.5	0.0135	0.8	0.6	0	0	5.2	0.0312	0.2	0.2	0	0	0.9	0.0018	0.2	0.2	<0.1	0.0002	1.2	0.0024	0	0	<0.1	0	0	0	0	<0.1	0	0.0	0							
Worst Case																																														
23-Apr-25	Baseline	Dry	None	Light	Slight	1,029	1,028	Steady	0.3	0.3	<0.1	0.0003	4.5	0.0135	-0.1	-0.1	<0.1	-0.0001	1.7	-0.0017	-0.1	-0.1	<0.1	-0.0001	0.1	-0.0001	-0.1	-0.1	<0.1	-0.0001	0.1	-0.0001														
22-May-25	Baseline	Dry	None	Light	None	1,019	1,019	Steady	-0.2	-0.2	<0.1	-0.0002	0.3	-0.0006	0.4	0.4	<0.1	0.0004	0.1	0.0004	0.1	0.1	<0.1	0.0001	0.1	0.0001	<0.1	<0.1	<0.1	0.0001	0.2	0.0002														
02-Jul-25	Baseline	Dry	None	Moderate	Slight	TBC	TBC	TBC	-0.2	-0.2	<0.1	-0.0002	0.1	-0.0002	<0.1	<0.1	<0.1	0.0001	4.3	0.0004	0.1	0.1	<0.1	0.0001	0.1	0.0001	<0.1	<0.1	<0.1	0.0001	0.1	0.0001														
28-Jul-25	Baseline	Dry	None	Calm	Overcast	1,022	TBC	Steady	0.1	0.1	<0.1	0.0001	0.4	0.0004	0.3	0.3	<0.1	0.0003	4.1	0.0123	<0.1	<0.1	<0.1	0.0001	0.1	0.0001	0.1	0.1	<0.1	0.0001	0.2	0.0002														
01-Sep-25	Baseline	Wet	Slight	Moderate	Overcast	1,003	1,003	Steady	0.3	0.2	<0.1	0.0003	0.1	0.0002	0.8	0.6	<0.1	0.0008	2.3	0.0138	<0.1	<0.1	<0.1	0.0001	0.1	0.0001	0.1	0.1	<0.1	0.0001	0.2	0.0002														
22-Sep-25	Baseline	Moist	None	Calm	None	1,029	TBC	TBC	0.1	0.1	<0.1	0.0001	0.1	0.0001	0.3	0.3	<0.1	0.0003	4.9	0.0147	0.1	0.1	<0.1	0.0001	0.1	0.0001	0.2	0.2	<0.1	0.0002	0.2	0.0004														
14-Oct-25	Baseline	Dry	None	Light	Overcast	1,030	1,030	Steady	0.1	0.1	<0.1	0.0001	0.1	0.0001	<0.1	<0.1	<0.1	0.0001	5.2	5.1	0.2	0.2	<0.1	0.0002	0.1	0.0002	<0.1	<0.1	<0.1	0.0001	0.1	0.0001														
07-Nov-25	Baseline	Wet	Slight	Light	Overcast	1,002	1,002	Steady	2	0.2	<0.1	0.002	1.4	0.0028	0.1	0.1	<0.1	0.0001	4.8	4.8	0.1	0.1	<0.1	0.0001	0.9	0.0009	<0.1	0.1	<0.1	0.0001	1.2	0.0012														

Notes:
Hazardous Gas Flow Rate (Q_{HG}) calculated using maximum gas concentration and either peak flow (methane) or steady state flow (carbon dioxide)
In the event flow or gas rising below instrument detection limit, the instrument detection limit has been used to calculate Q_{HG} .
*Baseline refers to data obtained prior to variation of permit.

Table G02
Surface Water Monitoring Data (SW01)
Zig Zag Quarry



Date Sampled	Unit	Trigger Level	Statistics				22-Jul-21	04-Aug-21	13-Sep-21	27-Oct-21	01-Feb-22	26-Apr-22	04-Aug-22	10-Nov-22	07-Feb-23	19-May-23	15-Aug-23	13-Nov-23	19-Feb-24	15-May-24	12-Aug-24	25-Nov-24	19-Feb-25	28-May-25	19-Aug-25
pH	pH Units	-	19	7.38	8.2	8.5	8.2	8.2	8.1	8.2	8.4	8.3	8.3	8	8.2	8.2	8.4	8	8.2	8.5	8.2	8	7.38	8.04	8.24
Electrical Conductivity	uS/cm	-	19	316	567	696	604	600	522	561	676	615	615	696	385	615	588	502	660	582	628	539	316	505	560
Sulphate as SO4	mg/l	62	19	7.0	15.6	41.0	14	41	13	13	12	17	17	22	14	13	15	10	15	11	15	13	7	15	19
Ammoniacal Nitrogen as NH4	ug/l	1860	19	LRL	170.6	537.00	96	271	95	229	139	67	67	94	537	< 50	< 50	< 50	158	< 50	90	80.0	359	107	<65
Chloride	mg/l	53	19	20	28.0	41.0	28	35	30	27	26	30	30	30	27	26	27	20	29	20	26	25	41.0	27	28
Nitrate as NO3	mg/l	-	19	6.4	15.1	21.7	16.6	16.2	15.5	14	14.7	15.3	15.3	15.7	20.3	16.2	15.9	11	21.7	14.6	16	14.2	6.4	13.3	14.4
Nitrite as NO2	mg/l	-	19	LRL	0.2	0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2	<0.1	<0.1
Phosphate as PO4	mg/l	-	19	LRL	0.3	0.38	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.08	0.37	0.38
Fluoride	mg/l	-	19	LRL	0.3	0.25	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.10	<0.10	0.25
Total Oxidised Nitrogen	mg/l	-	19	1.5	3.4	4.9	3.7	3.7	3.5	3.2	3.3	3.4	3.4	3.5	4.6	3.7	3.6	2.5	4.9	3.3	3.6	3.2	1.5	3	3.3
Dissolved Organic Carbon (DOC)	mg/l	-	19	LRL	9.8	22.5	4.4	5.7	4.6	12.7	10.5	4.9	4.9	11.7	22.5	7.2	13.3	10.2	< 1.0	15.6	15.4	17.5	3.3	2.2	<2.0
Alkalinity (Carbonate)	mgCaCO3/l	-	13	LRL	103	278	278	-	-	-	-	-	-	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<15	<15	20	
Hardness - Total	mgCaCO3/l	-	18	106	256	331	294	304	285	275	278	148	-	297	326	269	223	221	287	253	228	236	106	248	331
Total Suspended Solids	mg/l	-	19	LRL	20	126	< 5	21	15	16	23	10	10	< 10	< 5	17	6	8	15	6	5	8	126	<10	14
Total Dissolved Solids	mg/l	-	19	228	300	408	306	313	294	283	313	310	310	287	306	297	293	242	295	312	300	258	228	347	408
Bicarbonate (Alkalinity)	mg/l	-	19	8	281	616	278	374	616	327	316	291	291	8	281	275	271	222	377	264	272	236	115	265	255
Aluminium (dissolved)	ug/l	-	19	LRL	16.8	51	< 5	6.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	9.0	4.0	4.0	51.0	8.0	24.0	<10	28.0	<10
Arsenic (dissolved)	ug/l	-	17	LRL	13.1	92	-	-	< 5	< 5	< 5	< 5	< 5	92	< 5	< 5	< 5	1.5	2	1.6	1.7	1.7	<1	2	2
Barium (dissolved)	ug/l	-	19	LRL	101.5	148	100	148	114	96	99	131	131	< 0.4	118	100	102	64	83.2	96	105	82.9	39	103	114
Copper (dissolved)	ug/l	-	19	LRL	4.3	8.1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	3.2	3.3	1.6	5.1	8.1	<4	<4	<4
Iron (dissolved)	ug/l	-	19	6	28.4	118	16	11	22	17	7	19	19	37	17	7	19	28	6	118	37	68	40	37	14
Lead (dissolved)	ug/l	-	19	LRL	0.5	0.8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.2	< 0.2	0.8	< 0.2	0.6	<1	<1	0.2
Manganese (dissolved)	ug/l	-	19	LRL	10.0	28	< 5	< 5	< 5	10	7	< 5	< 5	< 5	12	< 5	< 5	9.4	8.6	8.6	1.9	10.4	28	7	7
Mercury (dissolved)	ug/l	0.1	19	LRL	0.1	0.08	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.04	< 0.04	< 0.04	0.08	<0.1	<0.1	<0.1
Nickel (dissolved)	ug/l	-	19	LRL	0.7	1.2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	0.6	0.6	0.5	0.5	1.2	<2	<2	<2
Zinc (dissolved)	ug/l	-	19	LRL	16.2	51	22	10	10	9	< 2	3	3	51	6	11	3	18	18	19	47	39	9	10	3
Calcium (dissolved)	mg/l	-	19	36.4	88.9	114	99.5	103	95.6	94.2	95	87.9	87.9	94.5	114	90.8	76.5	76.2	99.4	86.1	75.8	81.5	36.4	83.9	111.2
Magnesium (dissolved)	mg/l	-	19	3.7	9.5	13	11.1	11.4	11.1	9.6	9.8	10.6	10.6	9.5	10	10.3	7.8	7.4	9.5	9.2	9.4	7.8	3.7	9.4	13
Potassium (dissolved)	mg/l	-	19	1.8	2.6	3.6	2.9	3.6	2.6	3.2	2.4	2.7	2.7	3.1	2.4	2	2.5	2.7	2.7	2.2	2.5	3	1.8	1.8	2.7
Sodium (dissolved)	mg/l	-	19	14	17	27.7	19.2	19.5	17.7	16	15.2	17.5	17.5	19.5	15.6	16.2	13.7	14	16.5	15.2	14.5	14.9	27.7	18.3	23.7
Total Phenols (monohydric)	ug/l	-	19	LRL	20.0	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	20	<10	<0.01
EPH (C10 - C40)	ug/l	-	19	LRL	NC	LRL	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<40	<40	<40

Notes:
EQs - Environmental Quality Standard
BOLD - denotes concentration above laboratory reporting limit.
Denotes concentration above Existing Trigger Level

Table G03
Surface Water Monitoring Data (SW02)
Zig Zag Quarry



Date Sampled	Unit	Trigger Level	Statistics			22-Jul-21	04-Aug-21	13-Sep-21	27-Oct-21	01-Feb-22	26-Apr-22	04-Aug-22	10-Nov-22	07-Feb-23	19-May-23	15-Aug-23	13-Nov-23	19-Feb-24	15-May-24	12-Aug-24	25-Nov-24	19-Feb-25	28-May-25	19-Aug-25	
pH	pH Units	-	19	7.57	8.2	8.4	8.2	8	8.1	8.2	8.3	8.3	7.9	8.4	8.3	8.4	7.9	8.2	8.4	8.2	8	7.57	8.09	8.26	
Electrical Conductivity	uS/cm	-	19	422	576	694	584	691	509	478	645	579	615	694	676	599	576	510	660	575	581	524	422	504	513
Sulphate as SO4	mg/l	62	19	10.0	14.0	24.0	14	24	13	12	11	15	17	22	12	12	14	10	14	10	13	13	10	14	16
Ammoniacal Nitrogen as NH4	ug/l	1860	19	LRL	198.6	1240.00	104	1240	96	249	116	61	67	83	139	113	70	< 50	101	< 50	< 50	88.0	253	<65	<65
Chloride	mg/l	53	19	18	25.8	41.0	27	27	27	24	25	27	30	28	26	23	25	19	27	18	24	22	41.0	25	26
Nitrate as NO3	mg/l	-	19	11.1	17.4	22.8	21.2	16.8	18.3	17.1	19.3	18	15.3	22.7	14.7	18.1	17.9	13.1	22.8	16.8	18.7	17	11.1	15.7	15.8
Nitrite as NO2	mg/l	-	19	LRL	0.2	0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2	0.1	<0.1
Phosphate as PO4	mg/l	-	19	LRL	0.3	0.39	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.12	0.39	0.39
Fluoride	mg/l	-	19	LRL	NC	LRL	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.10	<0.10	<0.10
Total Oxidised Nitrogen	mg/l	-	19	2.6	3.9	5.2	4.8	3.8	4.1	3.9	4.4	4.1	3.4	5.1	3.3	4.1	4	3	5.2	3.8	4.2	3.8	2.6	3.6	3.6
Dissolved Organic Carbon (DOC)	mg/l	-	19	LRL	47.4	659	4.2	6.1	5.2	12.7	10.4	4.8	4.9	11.7	10.5	7.2	13.8	10.7	659	11.4	13.3	16.7	2.8	<2.0	<2.0
Alkalinity (Carbonate)	mgCaCO3/l	-	13	LRL	293	293	293	-	-	-	-	-	-	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<15	<15	<15	
Hardness - Total	mgCaCO3/l	-	17	188	257	303	292	303	-	289	274	261	-	301	278	264	222	229	269	254	216	213	188	239	276
Total Suspended Solids	mg/l	-	19	LRL	25	113	16	50	12	9	15	13	10	< 10	23	18	< 5	< 5	< 5	12	< 5	< 5	113	14	<10
Total Dissolved Solids	mg/l	-	19	245	297	454	296	357	274	253	289	278	310	267	313	299	278	245	287	270	283	251	301	332	454
Bicarbonate (Alkalinity)	mg/l	-	19	8	273	442	293	442	424	366	285	272	291	8	316	283	266	208	287	252	248	232	175	270	260
Aluminium (dissolved)	ug/l	-	19	LRL	18.6	42	< 5	10.0	< 5	< 5	< 5	32.0	< 5	< 5	< 5	< 5	6.0	5.0	5.0	42.0	13.0	18.0	<10	36.0	<10
Arsenic (dissolved)	ug/l	-	17	LRL	10.6	81	-	-	< 5	< 5	< 5	< 5	< 5	81	< 5	< 5	< 5	1.6	1.9	1.8	2.1	1.7	1	2	2
Barium (dissolved)	ug/l	-	19	LRL	79.3	137	72	137	77	78	75	83	131	< 0.4	99	75	74	55.2	61	73.1	71.3	61	55	76	73
Copper (dissolved)	ug/l	-	19	LRL	4.1	8.8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	2.9	3.1	1.2	4.6	8.8	<4	<4	<4
Iron (dissolved)	ug/l	-	19	LRL	26.0	81	11	11	17	17	< 5	17	19	38	7	< 5	19	30	3	81	40	46	33	31	22
Lead (dissolved)	ug/l	-	19	LRL	0.4	0.6	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.2	< 0.2	0.6	0.2	0.4	<1	<1	<0.1
Manganese (dissolved)	ug/l	-	19	LRL	8.8	16	< 5	7	6	11	8	10	< 5	9	7	< 5	8	5.8	6.1	7	7.4	7.1	13	12	16
Mercury (dissolved)	ug/l	0.1	19	LRL	0.1	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.04	< 0.04	< 0.04	< 0.04	0.06	<0.1	<0.1	<0.1	
Nickel (dissolved)	ug/l	-	19	LRL	0.6	1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	0.6	0.5	0.4	0.5	1	<2	<2	<2
Zinc (dissolved)	ug/l	-	19	LRL	13.8	40	< 2	< 2	11	10	< 2	3	3	40	< 2	8	3	17	15	7	30	31	7	8	<2
Calcium (dissolved)	mg/l	-	19	65.1	87.9	104	99.7	104	89.3	100	94.9	84.4	87.9	98.8	95	90.5	77	79.7	93.7	87.7	73	74.3	65.1	82	93.8
Magnesium (dissolved)	mg/l	-	19	6.3	8.8	10.6	10.3	10.5	9.4	9.3	8.9	9.1	10.6	9.3	9.8	9.3	7.2	7.2	8.5	8.5	8.1	6.5	6.3	8.3	10.2
Potassium (dissolved)	mg/l	-	19	1.9	2.9	4.1	3.2	3.3	2.8	3.7	2.5	3.2	2.7	3.5	2.4	2.2	2.7	3.1	2.7	2.5	2.7	3	1.9	2.6	4.1
Sodium (dissolved)	mg/l	-	19	11	15	28.8	17.1	16.9	14.7	14.9	13.7	14.2	17.5	17.4	15.2	13.9	11.4	13.2	14.2	13.5	12.1	11.7	28.8	15.1	17.4
Total Phenols (monohydric)	ug/l	-	19	LRL	10.0	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	10	<0.01
EPH (C10 - C40)	ug/l	-	19	LRL	NC	LRL	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<40	<40	<40	

Notes:
EQs - Environmental Quality Standard
BOLD - denotes concentration above laboratory reporting limit.
Denotes concentration above Existing Trigger Level

Table G04
Groundwater Elevation Data
Zig Zag Quarry



Location	Well Details			DTW (m TOC)			31-Mar-25	23-Apr-25	22-May-25	02-Jul-25	28-Jul-25	01-Sep-25	22-Sep-25	14-Oct-25	06/07-Nov-25
	Depth to Top of Response Zone (m bgl)	Depth to Base of Response Zone (m bgl)	Location	Min	Max		DTW (m TOC)	DTW (m TOC)	DTW (m TOC)	DTW (m TOC)	DTW (m TOC)	DTW (m TOC)	DTW (m TOC)	DTW (m TOC)	DTW (m TOC)
BH01	2	16.5	Downgradient	7.78	9.89		7.97	7.78	8.63	9.89	9.25	9.43	8.95	9.39	9.13
BH02	2	16.5	Downgradient	5.19	6.85		5.30	5.19	5.99	6.85	6.66	6.72	6.33	6.78	6.25
BH03	2	43	Upgradient	36.69	37.52		36.74	36.69	36.87	37.08	37.23	37.34	37.43	37.46	37.52
BH04	2	48	Upgradient	27.09	28.46		28.45	27.59	27.62	27.09	28.10	28.23	28.34	28.46	28.39
BH05	2		Downgradient of Soils Placed to Date	8.99	8.99		-	-	-	-	-	-	-	-	8.99
BH06	2		Downgradient of Soils Placed to Date	14.16	14.16		-	-	-	-	-	-	-	-	14.16

Location	Well Details			GWE (m AOD)			31-Mar-25	23-Apr-25	22-May-25	02-Jul-25	28-Jul-25	01-Sep-25	22-Sep-25	14-Oct-25	06/07-Nov-25
	GE (m AOD)	TOC Elevation (m AOD)	Location	Min	Max		GWE	GWE	GWE	GWE	GWE	GWE	GWE	GWE	GWE
BH01	33.25	32.79	Downgradient	22.90	25.01		24.82	25.01	24.16	22.90	23.54	23.36	23.84	23.40	23.66
BH02	30.54	30.16	Downgradient	23.31	24.97		24.86	24.97	24.17	23.31	23.50	23.44	23.83	23.38	23.91
BH03	85.52	85.88	Upgradient	48.36	49.19		49.14	49.19	49.01	48.80	48.65	48.54	48.45	48.42	48.36
BH04	80.13	80.55	Upgradient	52.09	53.46		52.10	52.96	52.93	53.46	52.45	52.32	52.21	52.09	52.16
BH05	33.14	33.25	Downgradient of Soils Placed to Date	24.26	24.26		-	-	-	-	-	-	-	-	24.26
BH06	39.58	39.7	Downgradient of Soils Placed to Date	25.54	25.54		-	-	-	-	-	-	-	-	25.54

Notes:

DTW - Depth to Water

DTB - Depth to Base

TOC - Top of Casing

GE - Ground Elevation

GWE - Groundwater Elevation

AOD - Above Ordnance Datum

Table G05
Groundwater Monitoring Data (Borehole BH01)
Zig Zag Quarry



Date Sampled	Unit	Assessment Criteria		Statistics					31-Mar-25	23-Apr-25	22-May-25	02-Jul-25	28-Jul-25	01-Sep-25	22-Sep-25	14-Oct-25	07-Nov-25
Element Laboratory Certificate No		EQS	EQS Source	No. Samples	Min	Mean	SD	Max	25/5461	25/6729	25/8381	25/10930	25/12396	25/14397	25/15703	25/17132	25/18790
pH	pH Units	-		9	7.04	7.4	0.2	7.64	7.46	7.64	7.29	7.04	7.52	7.35	7.54	7.55	7.52
Electrical Conductivity	uS/cm	-		9	388	709	127	820	729	820	797	705	721	752	767	388	700
Sulphate as SO ₄	mg/l	-		9	15.4	18.7	2.9	24.2	22	18.1	19.8	16.4	17.9	24.2	15.9	18.4	15.4
Ammoniacal Nitrogen as NH ₄	mg/l	-		9	LRL	NC	NC	LRL	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chloride	mg/l	250	UK AA	9	32.3	37.0	4.0	42.8	41.4	42.8	40	39.2	36	33	34.4	33.5	32.3
Nitrate as NO ₃	mg/l	-		9	14.1	16.9	1.4	18.7	15.8	17.3	16.8	17.3	17.1	14.1	16.6	18.5	18.7
Nitrite as NO ₂	mg/l	-		9	LRL	NC	NC	LRL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phosphate as PO ₄	mg/l	-		9	LRL	11.0	2.3	14	12	9	14	<0.06	9	8	12	10	14
Fluoride	mg/l	5	UK AA. Assumes >50 mg/l of calcium carbonate.	9	LRL	NC	NC	LRL	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.03	<0.03
Total Oxidised Nitrogen	mg/l	-		9	3.2	3.8	0.3	4.2	3.6	3.9	3.8	3.9	3.9	3.2	3.7	4.2	4.2
Dissolved Organic Carbon (DOC)	mg/l	-		9	LRL	NC	NC	3	<2	<2	3	<2	<2	<2	<2	<2	<2
Alkalinity as CaCO ₃	mgCaCO ₃ /l	-		9	310	882	1,058	3,614	364	352	368	1,066	816	3,614	704	310	345
Hardness - Total as CaCO ₃	mgCaCO ₃ /l	-		9	355	374	11	394	369	394	382	382	370	371	373	371	355
Total Suspended Solids	mg/l	-		9	10	1,399	1,979	5,139	576	113	20	5,139	3,832	72	2738	92	10
Total Dissolved Solids	mg/l	-		9	376	462	39	493	493	492	492	480	477	376	465	459	425
Bicarbonate (Alkalinity)	mg/l	-		9	310	882	1,058	3,614	364	352	368	1,066	816	3,614	704	310	345
Aluminium (dissolved)	ug/l	-		9	LRL	2.2	0.6	3.1	2.8	3.1	<1.5	1.8	1.7	2.0	1.9	<1.5	<1.5
Arsenic (dissolved)	ug/l	50	UK AA	9	LRL	NC	NC	LRL	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.09
Cadmium (dissolved)	ug/l	0.25	UK AA. Function of water hardness.	9	LRL	0.1	0.1	0.16	0.15	0.04	0.05	0.03	0.16	0.06	<0.03	<0.03	<0.03
Total Dissolved Chromium	ug/l	3.4	UK AA (Cr VI)	9	LRL	0.8	0.4	1.7	0.8	0.8	0.7	0.8	0.5	1.7	0.3	<0.03	0.4
Barium (dissolved)	ug/l	-		9	25	37.7	6.3	45.1	25	41	44.1	45.1	42	37	33	37.4	35
Copper (dissolved)	ug/l	1	UK AA (Bioavailable).	9	LRL	NC	NC	15	4	4	15	<1	<1	<1	<1	<1	<1
Iron (dissolved)	ug/l	1,000	UK AA	9	LRL	8.6	2.9	12.4	9.5	12.4	9.9	<4.7	5.3	6	<4.7	<4.7	<4.7
Lead (dissolved)	ug/l	1.2	UK AA (Bioavailable).	9	LRL	NC	NC	LRL	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Manganese (dissolved)	ug/l	123	UK AA (Bioavailable).	9	LRL	19.0	29.2	77.1	77.1	17.8	11.4	2.8	2.1	2.6	<1.5	<1.5	<1.5
Molybdenum (dissolved)	ug/l	-		8	LRL	NC	NC	0.5	-	<0.2	0.5	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury (dissolved)	ug/l	0.07	UK MAC	9	LRL	NC	NC	LRL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Nickel (dissolved)	ug/l	4	UK AA (Bioavailable).	9	0.4	1.8	1.5	5	5	1.7	2	0.8	2.4	2.8	0.4	0.5	0.4
Zinc (dissolved)	ug/l	10.9	UK AA (Bioavailable).	9	LRL	6.9	2.2	10	10	9	7	7	8	4	<3	4	6
Calcium (dissolved)	mg/l	-		9	131	138	4	145	135.7	145	141	140.8	136.4	137.2	137.8	136.8	131
Magnesium (dissolved)	mg/l	-		9	6.6	6.9	0.2	7.4	7	7.4	7	7.1	6.8	6.7	6.8	6.8	6.6
Potassium (dissolved)	mg/l	-		9	1.6	1.7	0.1	1.8	1.6	1.8	1.7	1.8	1.7	1.6	1.7	1.6	1.8
Sodium (dissolved)	mg/l	-		9	16.7	19.4	3.1	27.2	19.7	19.4	19.5	27.2	17.9	19.4	18.3	16.7	16.7
Total Phenols (monohydric)	ug/l	7.7	UK AA (Phenol)	9	LRL	NC	NC	LRL	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
EPH (C10 - C40)	ug/l	-		9	LRL	NC	NC	LRL	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes:

EQs - Environmental Quality Standard

BOLD - denotes concentration above laboratory reporting limit.

LRL - Laboratory Reporting Limit

SD - Standard Deviation

NC - Not Calculated

Denotes concentration above EQS

Denotes concentration above EQS where EQS based on bioavailable concentration

Table G06
Groundwater Monitoring Data (Borehole BH02)
Zig Zag Quarry



Date Sampled	Unit	Assessment Criteria		Statistics					31-Mar-25	23-Apr-25	22-May-25	02-Jul-25	28-Jul-25	01-Sep-25	22-Sep-25	14-Oct-25	07-Nov-25
Element Laboratory Certificate No		EQS	EQS Source	No. Samples	Min	Mean	SD	Max	25/5461	25/6729	25/8381	25/10930	25/12396	25/14397	25/15703	25/17132	25/18790
pH	pH Units	-		9	6.73	7.3	0.4	7.75	7.16	7.57	6.73	6.83	7.59	7.75	7.63	7.29	6.99
Electrical Conductivity	uS/cm	-		9	866	2538	838	3,816	2,816	2,593	2,446	3,816	2,636	2,133	2,125	866	3,408
Sulphate as SO ₄	mg/l	-		9	42.5	51.6	6.1	59.9	49.9	49.6	47.4	59.9	45.4	58	56.4	42.5	55.7
Ammoniacal Nitrogen as NH ₄	mg/l	-		9	LRL	NC	NC	0.05	0.05	0.03	<0.03	<0.03	0.03	0.05	<0.03	<0.03	<0.03
Chloride	mg/l	250	UK AA	9	373.4	667.3	223.4	1,036.8	757.6	663.3	611.9	1,036.8	582.8	512.1	483.8	373.4	983.9
Nitrate as NO ₃	mg/l	-		9	3.6	9.7	4.0	13.8	12.7	13.8	13.6	9.6	12.1	4.7	5.8	11.2	3.6
Nitrite as NO ₂	mg/l	-		9	LRL	NC	NC	LRL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phosphate as PO ₄	mg/l	-		9	LRL	11.5	4.0	19	14	8	15	<0.06	10	19	9	8	9
Fluoride	mg/l	5	UK AA. Assumes >50 mg/l of calcium carbonate.	9	LRL	NC	NC	LRL	<0.3	<0.3	<0.3	<0.3	<0.3	<0.6	<0.3	<0.3	<0.03
Total Oxidised Nitrogen	mg/l	-		9	0.8	2.2	0.9	3.1	2.9	3.1	3	2.2	2.7	1.1	1.3	2.5	0.8
Dissolved Organic Carbon (DOC)	mg/l	-		9	LRL	NC	NC	4	<2	<2	4	<2	<2	<2	<2	<2	<2
Alkalinity as CaCO ₃	mgCaCO ₃ /l	-		9	185	245	55	332	185	214	222	286	314	264	332	204	186
Hardness - Total as CaCO ₃	mgCaCO ₃ /l	-		9	157	351	171	766	273	326	300	417	352	157	258	314	766
Total Suspended Solids	mg/l	-		9	33	4,780	7,187	17,333	33	1,541	299	17,100	17,333	2,014	4414	194	92
Total Dissolved Solids	mg/l	-		9	1,010	1,547	381	2,168	1,651	1,463	1,416	2,168	1,543	1,268	1298	1010	2107
Bicarbonate (Alkalinity)	mg/l	-		9	185	245	55	332	185	214	222	286	314	264	332	204	186
Aluminium (dissolved)	ug/l	-		9	LRL	11.3	13.0	39	11.7	13.8	<1.5	6.5	3.7	39.0	2.2	2.3	<7.5
Arsenic (dissolved)	ug/l	50	UK AA	9	LRL	1.3	0.4	1.5	<0.9	1.5	<0.9	<0.9	<0.9	1	<0.9	<0.9	<2.5
Cadmium (dissolved)	ug/l	0.25	UK AA. Function of water hardness.	9	0.06	0.2	0.1	0.44	0.27	0.22	0.23	0.44	0.1	0.06	0.06	0.13	0.33
Total Dissolved Chromium	ug/l	3.4	UK AA (Cr VI)	9	LRL	6.8	17.6	50.3	0.7	0.3	0.6	50.3	0.8	0.8	0.6	0.6	<1
Barium (dissolved)	ug/l	-		9	55	116.1	61.9	254	95	97	115.9	175.3	101	55	69	82.5	254
Copper (dissolved)	ug/l	1	UK AA (Bioavailable).	9	LRL	2.3	1.1	4	3	2	2	4	1	3	1	<1	<5
Iron (dissolved)	ug/l	1,000	UK AA	9	LRL	53.5	70.2	214.6	24.6	67.9	15.5	214.6	16.1	74.3	8.2	6.8	<20
Lead (dissolved)	ug/l	1.2	UK AA (Bioavailable).	9	LRL	NC	NC	0.3	0.3	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<2
Manganese (dissolved)	ug/l	123	UK AA (Bioavailable).	9	2.7	60.4	101.5	313.6	118.9	313.6	27.7	12.1	2.7	37.8	4.9	5.3	20.6
Molybdenum (dissolved)	ug/l	-		8	0.8	1.8	1.4	5.2	-	1.7	1	1.8	1	5.2	1.8	0.8	1.4
Mercury (dissolved)	ug/l	0.07	UK MAC	9	LRL	NC	NC	LRL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
Nickel (dissolved)	ug/l	4	UK AA (Bioavailable).	9	1.4	6.3	8.6	28.6	6.1	6.8	4.4	28.6	2.3	1.5	1.4	2.4	2.9
Zinc (dissolved)	ug/l	10.9	UK AA (Bioavailable).	9	LRL	14.4	5.4	23	23	18	15	18	10	7	<3	9	15
Calcium (dissolved)	mg/l	-		9	58	131	66	293.3	100.4	119.8	110.4	153.5	129.7	58.4	95.5	115.5	293.3
Magnesium (dissolved)	mg/l	-		9	2.7	5.9	1.6	8	5.2	6.3	5.8	8	6.7	2.7	4.7	6.1	7.9
Potassium (dissolved)	mg/l	-		9	4.8	12.2	19.7	64.6	6.2	5.8	5.6	7.2	5.5	5	4.8	5.4	64.6
Sodium (dissolved)	mg/l	-		9	262	479.7	118.8	695.8	582.4	482.5	489.7	695.8	469.1	397.3	446.1	262	492
Total Phenols (monohydric)	ug/l	7.7	UK AA (Phenol)	9	LRL	NC	NC	LRL	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
EPH (C10 - C40)	ug/l	-		9	LRL	NC	NC	LRL	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes:

- EQs - Environmental Quality Standard
- BOLD** - denotes concentration above laboratory reporting limit.
- Denotes concentration above EQS
- Denotes concentration above EQS where EQS based on bioavailable concentration

Table G07
Groundwater Monitoring Data (Borehole BH03)
Zig Zag Quarry



Date Sampled	Unit	Assessment Criteria		Statistics				31-Mar-25	23-Apr-25	22-May-25	02-Jul-25	28-Jul-25	01-Sep-25	22-Sep-25	14-Oct-25	07-Nov-25
Element Laboratory Certificate No		EQS	EQS Source	No. Samples	Min	Mean	Max	25/5461	25/6729	25/8381	25/10930	25/12396	25/14397	25/15703	25/17132	25/18790
pH	pH Units	-		9	6.94	7.6	8.01	7.85	7.58	7.27	6.94	8.01	7.73	7.93	7.73	7.25
Electrical Conductivity	uS/cm	-		9	271	477	544	544	440	541	519	517	478	537	271	443
Sulphate as SO ₄	mg/l	-		9	4.5	9.8	15.3	15.3	10.8	13.8	8.3	5.5	4.5	12.8	10.6	6.7
Ammoniacal Nitrogen as NH ₄	mg/l	-		9	LRL	1.1	4.40	<0.03	0.05	<0.03	<0.03	<0.03	0.06	0.06	<0.03	4.4
Chloride	mg/l	250	UK AA	9	23	29.6	49.5	26.3	49.5	24.3	31.4	29.3	27	23	29.1	26.4
Nitrate as NO ₃	mg/l	-		9	7.7	18.3	25.2	11.7	20.1	7.7	25.2	24.3	23.3	15.6	17.4	19.4
Nitrite as NO ₂	mg/l	-		9	LRL	NC	LRL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phosphate as PO ₄	mg/l	-		9	LRL	18.6	35	29	15	23	<0.06	9	8	35	11	<0.15
Fluoride	mg/l	5	UK AA. Assumes >50 mg/l of calcium carbonate.	9	LRL	NC	LRL	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.03	<0.3
Total Oxidised Nitrogen	mg/l	-		9	1.7	4.1	5.7	2.6	4.5	1.7	5.7	5.5	5.3	3.5	3.9	4.4
Dissolved Organic Carbon (DOC)	mg/l	-		9	LRL	NC	LRL	<2	<2	<2	<2	<2	<2	<2	<2	<2
Alkalinity as CaCO ₃	mgCaCO ₃ /l	-		9	188	295	523	274	450	268	237	200	188	228	290	523
Hardness - Total as CaCO ₃	mgCaCO ₃ /l	-		9	145	214	260	247	145	260	194	225	187	246	243	181
Total Suspended Solids	mg/l	-		9	LRL	5,693	26,712	4,014	1,386	138	7,649	302	<10	686	4,658	26,712
Total Dissolved Solids	mg/l	-		9	264	318	352	352	264	350	314	304	280	343	347	306
Bicarbonate (Alkalinity)	mg/l	-		9	188	295	523	274	450	268	237	200	188	228	290	523
Aluminium (dissolved)	ug/l	-		9	2	10.6	44.1	11.2	44.1	3.0	2.1	3.7	4.0	2	4.2	21.4
Arsenic (dissolved)	ug/l	50	UK AA	9	LRL	NC	LRL	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Cadmium (dissolved)	ug/l	0.25	UK AA. Function of water hardness.	9	LRL	NC	LRL	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.3
Total Dissolved Chromium	ug/l	3.4	UK AA (Cr VI)	9	0.2	1.5	2.9	0.6	0.6	0.3	2.9	1.9	2.9	0.2	1.3	2.4
Barium (dissolved)	ug/l	-		9	7	20.3	29.5	7	23	29.5	20.4	26	17	14	24.6	21
Copper (dissolved)	ug/l	1	UK AA (Bioavailable).	9	LRL	1.0	1	<1	1	<1	<1	<1	<1	<1	<1	<1
Iron (dissolved)	ug/l	1,000	UK AA	9	LRL	33.4	132.9	42.3	132.9	9.8	9.8	11.5	19.9	<4.7	16.2	25
Lead (dissolved)	ug/l	1.2	UK AA (Bioavailable).	9	LRL	0.5	0.5	<0.2	0.5	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Manganese (dissolved)	ug/l	123	UK AA (Bioavailable).	9	LRL	6.2	22.4	6.6	22.4	7.4	2.8	1.8	2.6	<1.5	2.7	3.6
Molybdenum (dissolved)	ug/l	-		8	LRL	0.7	0.9	-	0.9	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2
Mercury (dissolved)	ug/l	0.07	UK MAC	9	LRL	0.0	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<1
Nickel (dissolved)	ug/l	4	UK AA (Bioavailable).	9	LRL	1.0	1.9	0.6	1.9	0.4	1.4	0.9	1.2	<0.2	0.7	1
Zinc (dissolved)	ug/l	10.9	UK AA (Bioavailable).	9	LRL	6.0	8	<3	7	3	8	6	6	<3	5	7
Calcium (dissolved)	mg/l	-		9	44	69	85.8	81.6	44.4	78.9	58.2	70.5	58.3	85.8	83.5	56.4
Magnesium (dissolved)	mg/l	-		9	7.6	10.2	15	10.3	8.1	15	11.6	11.5	9.8	7.6	8.2	9.5
Potassium (dissolved)	mg/l	-		9	1.4	1.9	2.4	2.4	2.2	2.3	1.6	1.9	1.5	2	1.4	1.4
Sodium (dissolved)	mg/l	-		9	LRL	17.4	25.6	14.8	25.6	14.1	18.1	19.6	16.3	14.6	<0.01	15.8
Total Phenols (monohydric)	ug/l	7.7	UK AA (Phenol)	9	LRL	NC	LRL	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
EPH (C10 - C40)	ug/l	-		9	LRL	NC	LRL	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes:

EQs - Environmental Quality Standard

BOLD - denotes concentration above laboratory reporting limit.

Denotes concentration above EQS

Denotes concentration above EQS where EQS based on bioavailable concentration

Table G08
Groundwater Monitoring Data (Borehole BH04)
Zig Zag Quarry



Date Sampled	Unit	Assessment Criteria		Statistics				31-Mar-25	23-Apr-25	22-May-25	02-Jul-25	28-Jul-25	01-Sep-25	22-Sep-25	14-Oct-25	14-Oct-25	07-Nov-25
Element Laboratory Certificate No		EQS	EQS Source	No. Samples	Min	Mean	Max	25/5461	25/6729	25/8381	25/10930	25/12396	25/14397	25/15703	25/17132	25/17132	25/18790
pH	pH Units	-		10	7.11	7.7	8.25	7.69	7.11	7.81	8.25	7.92	7.53	7.53	7.79	7.79	7.6
Electrical Conductivity	uS/cm	-		10	286	477	599	599	522	554	560	550	443	443	286	286	528
Sulphate as SO ₄	mg/l	-		10	4.0	13.2	24.0	14.5	11.7	24	21.2	13.5	4	4	13.1	13.1	13.1
Ammoniacal Nitrogen as NH ₄	mg/l	-		10	LRL	0.0	0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chloride	mg/l	250	UK AA	10	24	27.4	36.0	27.4	36	32.6	29.7	24	25.9	25.9	24.2	24.2	24.2
Nitrate as NO ₃	mg/l	-		10	4.7	14.8	19.5	4.7	19.5	17.9	18.2	17.5	19	19	10.5	10.5	11
Nitrite as NO ₂	mg/l	-		10	LRL	NC	LRL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phosphate as PO ₄	mg/l	-		10	LRL	23.3	60	16	12	0.25	60	41	<5	<5	15	15	27
Fluoride	mg/l	5	UK AA. Assumes >50 mg/l of calcium carbonate.	10	LRL	NC	LRL	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total Oxidised Nitrogen	mg/l	-		10	1	3.3	4.4	1	4.4	4	4.1	4	4.3	4.3	2.4	2.4	2.5
Dissolved Organic Carbon (DOC)	mg/l	-		10	LRL	2.0	2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2
Alkalinity as CaCO ₃	mgCaCO ₃ /l	-		10	172	224	278	278	241	198	200	239	172	172	230	230	275
Hardness - Total as CaCO ₃	mgCaCO ₃ /l	-		10	164	234	292	292	212	223	216	249	164	164	278	278	260
Total Suspended Solids	mg/l	-		10	12	1,613	2,550	688	1,970	1,670	2,302	12	2,066	2066	1404	1404	2550
Total Dissolved Solids	mg/l	-		10	254	323	401	348	325	319	338	319	254	254	401	401	271
Bicarbonate (Alkalinity)	mg/l	-		10	172	224	278	278	241	198	200	239	172	172	230	230	275
Aluminium (dissolved)	ug/l	-		10	LRL	3.5	7.6	7.6	3.3	3.3	2.2	5.4	<1.5	<1.5	1.9	1.9	2.2
Arsenic (dissolved)	ug/l	50	UK AA	10	LRL	NC	LRL	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Cadmium (dissolved)	ug/l	0.25	UK AA. Function of water hardness.	10	LRL	NC	LRL	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Total Dissolved Chromium	ug/l	3.4	UK AA (Cr VI)	10	LRL	1.0	2.8	0.2	1.2	1	0.6	<0.2	2.8	2.8	0.2	0.2	0.3
Barium (dissolved)	ug/l	-		10	14	22.5	33	33	30.7	15.6	14	15	15	15	32.5	32.5	22
Copper (dissolved)	ug/l	1	UK AA (Bioavailable).	10	LRL	2.0	2	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron (dissolved)	ug/l	1,000	UK AA	10	LRL	7.8	19.7	19.7	6.8	4.8	5	9.5	<4.7	<4.7	5.4	5.4	5.4
Lead (dissolved)	ug/l	1.2	UK AA (Bioavailable).	10	LRL	NC	LRL	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Manganese (dissolved)	ug/l	123	UK AA (Bioavailable).	10	LRL	5.5	20.2	20.2	1.9	2	<1.5	3.5	<1.5	<1.5	4.7	4.7	1.7
Molybdenum (dissolved)	ug/l	-		10	LRL	0.5	0.5	<0.2	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury (dissolved)	ug/l	0.07	UK MAC	10	LRL	NC	LRL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<0.01	<0.01	<1
Nickel (dissolved)	ug/l	4	UK AA (Bioavailable).	10	LRL	0.6	1.3	0.7	0.9	0.3	0.3	0.3	1.3	1.3	0.2	0.2	<0.2
Zinc (dissolved)	ug/l	10.9	UK AA (Bioavailable).	10	3.0	5.4	15	15	3	5	6	6	3	3	4	4	5
Calcium (dissolved)	mg/l	-		10	51	74	86.1	82.4	70	76.4	74.3	86.1	50.5	50.5	82.5	82.5	81.5
Magnesium (dissolved)	mg/l	-		10	7.3	11.8	20.5	20.5	8.7	7.5	7.3	8	9.1	9.1	17.2	17.2	13.5
Potassium (dissolved)	mg/l	-		10	1.4	2.1	2.8	2.8	1.8	1.9	1.9	2.2	1.4	1.4	2.4	2.4	2.4
Sodium (dissolved)	mg/l	-		10	14.2	16.2	20.6	15.3	20.6	18.9	18.8	14.5	15.6	15.6	14.2	14.2	14.6
Total Phenols (monohydric)	ug/l	7.7	UK AA (Phenol)	10	LRL	NC	LRL	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
EPH (C10 - C40)	ug/l	-		10	LRL	NC	LRL	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes:

EQs - Environmental Quality Standard

BOLD - denotes concentration above laboratory reporting limit.

Denotes concentration above EQS

Denotes concentration above EQS where EQS based on bioavailable concentration

Table G09
Groundwater Monitoring Data (Borehole BH05)
Zig Zag Quarry



Date Sampled	Unit	Assessment Criteria		04-Nov-25	12-Nov-25
Element Laboratory Certificate No		EQS	EQS Source	25/18656	25/18790
pH	pH Units	-		7.71	7.64
Electrical Conductivity	uS/cm	-		640	-
Sulphate as SO ₄	mg/l	-		22.8	20.7
Ammoniacal Nitrogen as NH ₄	mg/l	-		0.03	<0.03
Chloride	mg/l	250	UK AA	36.6	36.5
Nitrate as NO ₃	mg/l	-		15.1	-
Nitrite as NO ₂	mg/l	-		<0.02	-
Phosphate as PO ₄	mg/l	-		24	-
Fluoride	mg/l	5	UK AA. Assumes >50 mg/l of calcium carbonate.	<0.3	-
Total Oxidised Nitrogen	mg/l	-		3.4	-
Dissolved Organic Carbon (DOC)	mg/l	-		<2	-
Alkalinity as CaCO ₃	mgCaCO ₃ /l	-		318	-
Hardness - Total as CaCO ₃	mgCaCO ₃ /l	-		312	-
Total Suspended Solids	mg/l	-		320	-
Total Dissolved Solids	mg/l	-		520	-
Bicarbonate (Alkalinity)	mg/l	-		318	281
Aluminium (dissolved)	ug/l	-		<1.5	-
Arsenic (dissolved)	ug/l	50	UK AA	<0.9	-
Cadmium (dissolved)	ug/l	0.25	UK AA. Function of water hardness.	<0.03	-
Total Dissolved Chromium	ug/l	3.4	UK AA (Cr VI)	1.5	-
Barium (dissolved)	ug/l	-		21	-
Copper (dissolved)	ug/l	1	UK AA (Bioavailable).	<1	-
Iron (dissolved)	ug/l	1,000	UK AA	<4.7	-
Lead (dissolved)	ug/l	1.2	UK AA (Bioavailable).	<0.4	-
Manganese (dissolved)	ug/l	123	UK AA (Bioavailable).	2	-
Molybdenum (dissolved)	ug/l	-		<0.2	-
Mercury (dissolved)	ug/l	0.07	UK MAC	<1	-
Nickel (dissolved)	ug/l	4	UK AA (Bioavailable).	0.2	-
Zinc (dissolved)	ug/l	10.9	UK AA (Bioavailable).	3	-
Calcium (dissolved)	mg/l	-		113.7	-
Magnesium (dissolved)	mg/l	-		6.6	-
Potassium (dissolved)	mg/l	-		1.8	-
Sodium (dissolved)	mg/l	-		17	-
Total Phenols (monohydric)	ug/l	7.7	UK AA (Phenol)	<0.5	-
EPH (C10 - C40)	ug/l	-		<10	-

Notes:

EQs - Environmental Quality Standard

BOLD - denotes concentration above laboratory reporting limit.

Denotes concentration above EQS

Denotes concentration above EQS where EQS based on bioavailable concentration

Table G10
Groundwater Monitoring Data (Borehole BH06)
Zig Zag Quarry



Date Sampled	Unit	Assessment Criteria		04-Nov-25	12-Nov-25
Element Laboratory Certificate No		EQS	EQS Source	25/18656	25/18790
pH	pH Units	-		7.64	7.82
Electrical Conductivity	uS/cm	-		553	-
Sulphate as SO ₄	mg/l	-		27.1	33.1
Ammoniacal Nitrogen as NH ₄	mg/l	-		<0.03	<0.03
Chloride	mg/l	250	UK AA	26.8	25.2
Nitrate as NO ₃	mg/l	-		9.2	-
Nitrite as NO ₂	mg/l	-		<0.02	-
Phosphate as PO ₄	mg/l	-		12	-
Fluoride	mg/l	5	UK AA. Assumes >50 mg/l of calcium carbonate.	<0.3	-
Total Oxidised Nitrogen	mg/l	-		2.1	-
Dissolved Organic Carbon (DOC)	mg/l	-		<2	-
Alkalinity as CaCO ₃	mgCaCO ₃ /l	-		252	-
Hardness - Total as CaCO ₃	mgCaCO ₃ /l	-		258	-
Total Suspended Solids	mg/l	-		347	-
Total Dissolved Solids	mg/l	-		350	-
Bicarbonate (Alkalinity)	mg/l	-		252	198
Aluminium (dissolved)	ug/l	-		7.6	-
Arsenic (dissolved)	ug/l	50	UK AA	<0.9	-
Cadmium (dissolved)	ug/l	0.25	UK AA. Function of water hardness.	<0.03	-
Total Dissolved Chromium	ug/l	3.4	UK AA (Cr VI)	1.1	-
Barium (dissolved)	ug/l	-		15	-
Copper (dissolved)	ug/l	1	UK AA (Bioavailable).	<1	-
Iron (dissolved)	ug/l	1,000	UK AA	14.1	-
Lead (dissolved)	ug/l	1.2	UK AA (Bioavailable).	<0.4	-
Manganese (dissolved)	ug/l	123	UK AA (Bioavailable).	8.2	-
Molybdenum (dissolved)	ug/l	-		<0.2	-
Mercury (dissolved)	ug/l	0.07	UK MAC	<1	-
Nickel (dissolved)	ug/l	4	UK AA (Bioavailable).	0.4	-
Zinc (dissolved)	ug/l	10.9	UK AA (Bioavailable).	3	-
Calcium (dissolved)	mg/l	-		93.2	-
Magnesium (dissolved)	mg/l	-		5.9	-
Potassium (dissolved)	mg/l	-		0.9	-
Sodium (dissolved)	mg/l	-		11.7	-
Total Phenols (monohydric)	ug/l	7.7	UK AA (Phenol)	<0.15	-
EPH (C10 - C40)	ug/l	-		<10	-

Notes:

EQs - Environmental Quality Standard

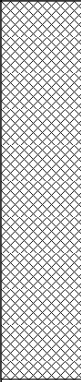
BOLD - denotes concentration above laboratory reporting limit.

Denotes concentration above EQS

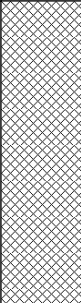
Denotes concentration above EQS where EQS based on bioavailable concentration

Appendix H

GCE Trial Pit Logs

				Trial Pit Log			TrialPit No TP1 Sheet 1 of 1	
Project Name: Zig Zag Quarry				Project No. GCE00621		Co-ords: - Level:		Date 30/12/1899
Location: Zig Zag Quarry						Dimensions (m): 1.50 2.00		Scale 1:25
Client: Harleyford Estate						Depth 1.25		Logged HM
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.25			Medium and dark brown, occasionally light brown and red brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10-20% sub angular to sub rounded flint. MADE GROUND	1
							End of Pit at 1.25m	2
								3
								4
								5
Remarks: No groundwater encountered. Large scale soakaway test undertaken in TP.								
Stability: Slight spalling								

				Trial Pit Log			TrialPit No TP2 Sheet 1 of 1	
Project Name: Zig Zag Quarry				Project No. GCE00621		Co-ords: - Level:		Date 30/12/1899
Location: Zig Zag Quarry						Dimensions (m): 1.50 2.10		Scale 1:25
Client: Harleyford Estate						Depth 1.25		Logged HM
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.00			Dark brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 20-30% sub angular to sub rounded flint. MADE GROUND	1
				1.25			Light brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10-20% sub angular to sub rounded flint. MADE GROUND	
							End of Pit at 1.25m	
								2
								3
								4
								5
Remarks: No groundwater encountered. Large scale soakaway test undertaken in TP.								
Stability: Slight spalling								

				Trial Pit Log			TrialPit No TP2A Sheet 1 of 1	
Project Name: Zig Zag Quarry				Project No. GCE00621		Co-ords: - Level:		Date 30/12/1899
Location: Zig Zag Quarry				Dimensions (m):		1.50 2.50		Scale 1:25
Client: Harleyford Estate				Depth 2.70		Logged HM		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.00			Medium brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10-20% sub angular to sub rounded flint. MADE GROUND	1
				1.30			Dark brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10% sub angular to sub rounded flint. RELIC TOPSOIL	
				2.70			Stiff light brown, slightly sandy slightly gravelly slightly cobbly silty CLAY. HEAD	
							End of Pit at 2.70m	2
								3
								4
								5
Remarks: No groundwater encountered. 50mm standpipe installed in backfilled trial pit.								
Stability: Slight spalling								



Trial Pit Log

Trial Pit No
TP3A
Sheet 1 of 1

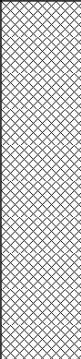
Project Name: Zig Zag Quarry	Project No. GCE00621	Co-ords: - Level:	Date 30/12/1899
Location: Zig Zag Quarry	Dimensions (m): Depth 2.50		Scale 1:25
Client: Harleyford Estate			Logged HM

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.10			Dark brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10% sub angular to sub rounded flint. TOPSOIL	
				0.40			Light brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10-20% sub angular to sub rounded flint. MADE GROUND	
				0.70			Dark brown, slightly sandy slightly gravelly slightly cobbly clay. Gravel and cobbles estimated at 10% sub angular to sub rounded flint. RELIC TOPSOIL	
				1.60			Stiff light brown, slightly sandy slightly gravelly slightly cobbly silty CLAY. HEAD	1
				2.50			Light grey brown, green grey and orange brown, silty fine SAND/sandy SILT. UPPER GREENSAND?	2
							End of Pit at 2.50m	3
								4
								5

Remarks: No groundwater encountered. 50mm standpipe installed in backfilled trial pit.

Stability: Slight spalling



				Trial Pit Log			TrialPit No TP4 Sheet 1 of 1	
Project Name: Zig Zag Quarry				Project No. GCE00621		Co-ords: - Level:		Date 30/12/1899
Location: Zig Zag Quarry						Dimensions (m): 1.50 2.10		Scale 1:25
Client: Harleyford Estate						Depth 1.20		Logged HM
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.20			Light brown silty rounded gravelly rounded cobblely small bouldery fine sand. (gravel cobbles and small boulders comprise flint and estimated at 30%) MADE GROUND	1
							End of Pit at 1.20m	
								3
								4
								5
Remarks: No groundwater encountered. Large scale soakaway test undertaken in TP.								
Stability: Slight spalling								



Trial Pit Log

Trial Pit No
TP5
Sheet 1 of 1

Project Name: Zig Zag Quarry

Project No.
GCE00621

Co-ords: -
Level:

Date
30/12/1899

Location: Zig Zag Quarry

Dimensions
(m):

2.40

Depth
1.50

1.50

Scale
1:25

Logged
HM

Client: Harleyford Estate

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
							Light brown, some light grey fine sandy silty CLAY/clayey SILT and clayey silty fine SAND, with occasional pockets of sandy gravelly clay. HEAD	1
				1.30			Light grey brown silty fine SAND. UPPER GREENSAND?	
				1.50			End of Pit at 1.50m	2
								3
								4
								5

Remarks: No groundwater encountered. Large scale soakaway test undertaken in TP.

Stability: Slight spalling



Appendix I

Horizon Trial Pit Logs

Key to exploratory hole symbols and abbreviations

SAMPLE TYPES

ACM - Asbestos sample	AMAL - Amalgamated sample	B - Bulk disturbed sample
BLK - Block sample	C - Core sample	CBR - CBR test sample
D - Disturbed sample	ES - Environmental sample	EW - Environmental water sample
G - Gas sample	J - Jar sample	L - Liner sample
TW - Pushed thin wall sample	U - Undisturbed sample	UT - Undisturbed thin wall sample
W - Water sample		

IN-SITU TESTS

HV - Hand shear vane	HV(r) - Hand shear vane residual	PID - Photo ionisation detector
PP - Hand penetrometer	SPT - Standard penetration test	

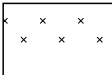
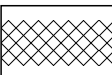
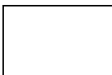
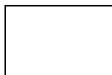
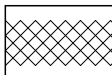
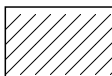
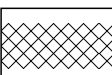
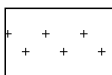
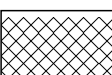
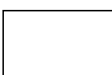
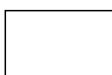
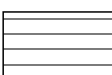
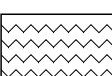
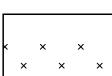
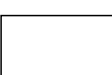
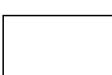
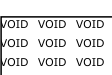
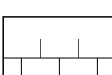
GROUNDWATER

 Groundwater strike	 Groundwater rest level
--	--

ROTARY CORE DETAILS

TCR - Total core recovery (%)	SCR - Solid core recovery (%)	RQD - Rock quality designation (%)
FI - Fracture index	NI - Non-intact core	AZCL - Assumed zone of core loss

LEGEND

 Topsoil	 Clay	 Chalk	 Sand backfill
 Peat	 Silt	 Breccia	 Gravel backfill
 Made ground	 Sand	 Conglomerate	 Arisings
 Concrete	 Gravel	 Metamorphic	 Bentonite
 Wood	 Cobbles	 Igneous	 Concrete
 Brick	 Boulders		 Grout
 Bituminous material	 Mudstone		 Plain pipe
 Gypsum	 Siltstone		
 Coal	 Sandstone		 Slotted pipe
 Void	 Limestone		



Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
					39.50	(1.50)		MADE GROUND. Orangish brown COBBLES and BOULDERS of well rounded to sub-angular flint. Rare anthropogenic materials, including plastic.	0.5 1.0
								Orange and black very gravelly very cobbly fine to coarse SAND with occasional boulders. Gravel is angular to well rounded flint. [ALLER GRAVEL FORMATION]	1.5 2.0 2.5 3.0

Method, Plant, Stability, Dimensions			Logger
0.00 - 3.20m	TP	Tracked Excavator	JH
Stable			
$L = 4.00m$			
		$W = 1.20m$	



Trial Pit

HTP02
Sheet 1 of 1

Hole Type TP	Easting 288079.00	Northing 68868.00	Ground Level (m) 49.00	Scale 1:25
Project Name Zig Zag Quarry	Project No. HCE0269		Start Date 2024-06-19	End Date 2024-06-19

Client BT Jenkins Ltd	Contractor -	Consultant Horizon Consulting Engineers
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(3.00)		MADE GROUND. Orange silty gravelly fine to coarse SAND. Gravel is fine to coarse angular to well rounded flint. Occasional cobbles and boulders. Possibly natural at depth.	
					46.00	3.00		End of Trial Pit at 3.00m	

Remarks No groundwater encountered. No visual or olfactory evidence of contamination Trial pit backfilled with arisings upon completion. Co-ordinates are for indicative purposes only.	Method, Plant, Stability, Dimensions		Logger JH
	0.00 - 3.00m Stable L = 4.00m W = 1.20m	TP Tracked Excavator	

[illegible]

Method, Plant, Stability, Dimensions		Logger
0.00 - 1.40m Stable $L = 4.00m$	TP Tracked Excavator	JH
	$W = 1.20m$	



Trial Pit

HTP05
Sheet 1 of 1

Hole Type TP	Easting 287966.00	Northing 68898.00	Ground Level (m) 41.00	Scale 1:25
Project Name Zig Zag Quarry	Project No. HCE0269		Start Date 2024-06-19	End Date 2024-06-19

Client BT Jenkins Ltd	Contractor -	Consultant Horizon Consulting Engineers
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(2.70)		MADE GROUND. Orange slightly clayey very gravelly fine to coarse SAND. Gravel is fine to coarse. Occasional cobbles. [ALLER GRAVEL FORMATION]	0.5 1.0 1.5 2.0 2.5
					38.30	2.70		Stiff whitish grey slightly sandy silty CLAY. Sand is fine to coarse. [ALLER GRAVEL FORMATION]	3.0 3.5
					37.40	3.60		End of Trial Pit at 3.60m	4.0 4.5 5.0

Remarks No groundwater encountered. No visual or olfactory evidence of contamination Trial pit backfilled with arisings upon completion. Co-ordinates are for indicative purposes only.	Method, Plant, Stability, Dimensions			Logger
	0.00 - 3.60m	TP	Tracked Excavator	JH
	Stable L = 4.00m W = 1.20m			
Checked By: JH Approved By: AL Status: FINAL				



Trial Pit

HTP06
Sheet 1 of 1

Hole Type TP	Easting 287927.00	Northing 69073.00	Ground Level (m) 45.00	Scale 1:25
Project Name Zig Zag Quarry	Project No. HCE0269		Start Date 2024-06-19	End Date 2024-06-19

Client BT Jenkins Ltd	Contractor -	Consultant Horizon Consulting Engineers
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(2.70)		Light brown and orange gravelly cobbly fine to coarse SAND, with frequent boulders. Northern side of trial pit is orange silty SAND. [ALLER GRAVEL FORMATION]	
					42.30	2.70		End of Trial Pit at 2.70m	
									0.5
									1.0
									1.5
									2.0
									2.5
									3.0
									3.5
									4.0
									4.5
									5.0

Remarks No groundwater encountered. No visual or olfactory evidence of contamination Trial pit backfilled with arisings upon completion. Co-ordinates are for indicative purposes only.	Method, Plant, Stability, Dimensions			Logger JH
	0.00 - 2.70m	TP	Tracked Excavator	
	Stable L = 4.00m  W = 1.20m			

Checked By: JH Approved By: AL Status: FINAL

Appendix J

Photographs (Ground Investigation)

Photo Sheet 1

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 1: View of trial pit HTP01.



Photograph 2: View of arisings from trial pit HTP01.

Photo Sheet 2

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 3: View of trial pit HTP02.



Photograph 4: View of arisings from trial pit HTP02.

Photo Sheet 3

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 5: View of trial pit HTP03.



Photograph 6: View of arisings from trial pit HTP03.

Photo Sheet 4

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 7: View of trial pit HTP04.



Photograph 8: View of arisings from trial pit HTP04.

Photo Sheet 5

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 9: View of trial pit HTP05.



Photograph 10: View of arisings from trial pit HTP05.

Photo Sheet 6

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 11: View of trial pit HTP06 (Photo by Horizon, 06 June 2024).



Photograph 12: View of arisings from trial pit HTP06.

Photo Sheet 7

Project Reference: HCE0269

Project Title: Zig Zag Quarry – Ground Investigation



Photograph 13: View of stepped excavations into natural geology in the north-west of the Site.



Photograph 14: View of exposure of natural geology in the north-west of the Site.

Appendix KApex and Horizon Borehole Logs



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 04/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH1	Hole Type RO	Level 32.79m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 1 of 2

Well	Water	Depth (m)	Type /FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	32.49		Made Ground **	
										Sand and Gravel ** (Aller Gravel Formation).	1
											2
											3
											4
											5
											6
							6.50	26.29		Sand and Gravel ** (Aller Gravel Formation).	7
							8.50	24.29		Weak gravelly Sands ** (Aller Gravel Formation)	8
							9.00	23.79		Scuffed No Recovery **	9
											10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
16.50	120	10.50	152									0.00	16.80				

Remarks 50mm standpipe installed to 16.50m. ** Drillers Description. Water level at 6.90m 05/03/25 8am. Air Flush																	
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[illegible]



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 05/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH2	Hole Type RO	Level 30.16m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 1 of 2

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
								0.30	29.86		Made Ground **	
											Sand and Gravel ** (Aller Gravel Formation).	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
16.50	120	13.50	152									0.00	16.50				

Remarks 50mm standpipe installed to 16.50m. ** Drillers Description. Air Flush																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry				Client: BT Jenkins				Date: 05/03/2025			
Location: Newton Abbot				Contractor: Apex Drilling Services Ltd							
Project No. : 13891				Crew Name: Carl Jones				Drilling Equipment: Klemm			
Borehole Number BH2		Hole Type RO		Level 30.16m AoD		Logged By Driller **		Scale 1:50		Page Number Sheet 2 of 2	

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
								12.50	17.66		Sand and Gravel ** (Aller Gravel Formation).	11
								13.50	16.66		Weak gravel of Sandstone ** (Possible Upper Greensand Formation).	13
								16.50	13.66		Scrubbed too weak to core **	14
											End of Borehole at 16.500m	17
												20

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
16.50	120	13.50	152									0.00	16.50				

Remarks 50mm standpipe installed to 16.50m. ** Drillers Description. Air Flush																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 06/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH3	Hole Type RO	Level 85.52m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 1 of 6

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											Sand and Gravel ** (Aller Gravel Formation)	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
52.00	120	39.00	152														

Remarks

80mm standpipe installed to 43m. ** Drillers Description. Groundwater at 37.10m on 11/03/25 at 8am. Air Flush.





Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 06/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH3	Hole Type RO	Level 85.52m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 2 of 6

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											Sand and Gravel ** (Aller Gravel Formation)	11
												12
												13
												14
												15
												16
												17
												18
												19
												20

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
52.00	120	39.00	152														

Remarks 80mm standpipe installed to 43m. ** Drillers Description. Groundwater at 37.10m on 11/03/25 at 8am. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry				Client: BT Jenkins				Date: 06/03/2025			
Location: Newton Abbot				Contractor: Apex Drilling Services Ltd							
Project No. : 13891				Crew Name: Carl Jones				Drilling Equipment: Klemm			
Borehole Number BH3		Hole Type RO		Level 85.52m AoD		Logged By Driller **		Scale 1:50		Page Number Sheet 3 of 6	

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											Sand and Gravel ** (Aller Gravel Formation)	21
												22
												23
												24
												25
												26
												27
												28
												29
												30

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
52.00	120	39.00	152														

Remarks 80mm standpipe installed to 43m. ** Drillers Description. Groundwater at 37.10m on 11/03/25 at 8am. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 06/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH3	Hole Type RO	Level 85.52m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 4 of 6

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description																																																																																																																																																																																			
				TCR	SCR	RQD																																																																																																																																																																																								
								32.50	53.02		Sand and Gravel ** (Aller Gravel Formation)	31																																																																																																																																																																																		
											34.50	51.02		Sandy Clay ** (Possible Upper Greensand Formation).	33																																																																																																																																																																															
														36.00	49.52		Soft wet Sands on barrel ** (Possible Upper Greensand Formation).	35																																																																																																																																																																												
																	37.00	48.52		Yellow Sand ** (Possible Upper Greensand Formation).	36																																																																																																																																																																									
									Soft drill No-Recovery **	37																																																																																																																																																																																				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
52.00	120	39.00	152														

Remarks 80mm standpipe installed to 43m. ** Drillers Description. Groundwater at 37.10m on 11/03/25 at 8am. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 06/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH3	Hole Type RO	Level 85.52m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 5 of 6

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
								41.50	44.02		Soft drill No-Recovery **	41
											Gravels Large ** (Possible Upper Greensand Formation).	42
											Sand and Gravel ** (Possible Upper Greensand Formation).	43
												44
												45
												46
												47
												48
												49
												50
								50.00	35.52			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
52.00	120	39.00	152														

Remarks 80mm standpipe installed to 43m. ** Drillers Description. Groundwater at 37.10m on 11/03/25 at 8am. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 06/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH3	Hole Type RO	Level 85.52m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 6 of 6

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
								52.00	33.52	incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key		

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
52.00	120	39.00	152														

Remarks 80mm standpipe installed to 43m. ** Drillers Description. Groundwater at 37.10m on 11/03/25 at 8am. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 13/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH4	Hole Type RO	Level 80.13m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 1 of 5

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											Sand and Gravel ** (Aller Gravel Formation).	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
48.00	120	18.00	152														

Remarks 80mm standpipe installed to 48m. ** Drillers Description. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 13/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH4	Hole Type RO	Level 80.13m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 2 of 5

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
								12.50	67.63		Sand and Gravel ** (Aller Gravel Formation).	11
											Red Sands and compact Gravel ** (Oddocombe Breccia Formation).	12
												13
												14
												15
												16
												17
												18
												19
												20

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
48.00	120	18.00	152														

Remarks 80mm standpipe installed to 48m. ** Drillers Description. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 13/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH4	Hole Type RO	Level 80.13m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 3 of 5

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											Red Sands and compact Gravel ** (Oddocombe Breccia Formation).	21
												22
												23
												24
												25
												26
												27
												28
												29
												30

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
48.00	120	18.00	152														

Remarks 80mm standpipe installed to 48m. ** Drillers Description. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Rotary Core Log

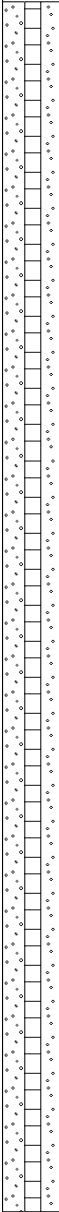
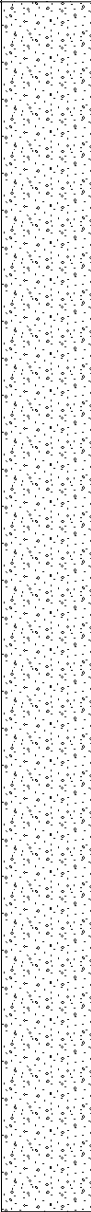
Project Name: Zig Zag Quarry		Client: BT Jenkins		Date: 13/03/2025	
Location: Newton Abbot		Contractor: Apex Drilling Services Ltd			
Project No. : 13891		Crew Name: Carl Jones		Drilling Equipment: Klemm	
Borehole Number BH4	Hole Type RO	Level 80.13m AoD	Logged By Driller **	Scale 1:50	Page Number Sheet 4 of 5

Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											Red Sands and compact Gravel ** (Oddocombe Breccia Formation).	31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
48.00	120	18.00	152														

Remarks 80mm standpipe installed to 48m. ** Drillers Description. Air Flush.																	
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Project Name: Zig Zag Quarry				Client: BT Jenkins				Date: 13/03/2025									
Location: Newton Abbot				Contractor: Apex Drilling Services Ltd													
Project No. : 13891				Crew Name: Carl Jones				Drilling Equipment: Klemm									
Borehole Number BH4		Hole Type RO		Level 80.13m AoD		Logged By Driller **		Scale 1:50		Page Number Sheet 5 of 5							
Well	Water	Depth (m)	Type /FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description						
				TCR	SCR	RQD											
								48.00	32.13		Red Sands and compact Gravel ** (Oddocombe Breccia Formation).	41					
												42					
												43					
												44					
												45					
												46					
												47					
												48					
											End of Borehole at 48.000m	49					
												50					
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
48.00	120	18.00	152														
Remarks																	
80mm standpipe installed to 48m. ** Drillers Description. Air Flush.																	

Key to exploratory hole symbols and abbreviations

SAMPLE TYPES

ACM - Asbestos sample	AMAL - Amalgamated sample	B - Bulk disturbed sample
BLK - Block sample	C - Core sample	CBR - CBR test sample
D - Disturbed sample	ES - Environmental sample	EW - Environmental water sample
G - Gas sample	J - Jar sample	L - Liner sample
TW - Pushed thin wall sample	U - Undisturbed sample	UT - Undisturbed thin wall sample
W - Water sample		

IN-SITU TESTS

HV - Hand shear vane	HV(r) - Hand shear vane residual	PID - Photo ionisation detector
PP - Hand penetrometer	SPT - Standard penetration test	SPT(C) - SPT using cone

GROUNDWATER



Groundwater strike



Groundwater rest level

ROTARY CORE DETAILS

TCR - Total core recovery (%)	SCR - Solid core recovery (%)	RQD - Rock quality designation (%)
FI - Fracture index	NI - Non-intact core	AZCL - Assumed zone of core loss

LEGEND

	Topsoil		Clay		Chalk		Sand backfill
	Peat		Silt		Breccia		Gravel backfill
	Made ground		Sand		Conglomerate		Arisings
	Concrete		Gravel		Metamorphic		Bentonite
	Wood		Cobbles		Igneous		Concrete
	Brick		Boulders				Grout
	Bituminous material		Mudstone				Plain pipe
	Gypsum		Siltstone				
	Coal		Sandstone				Slotted pipe
	Void		Limestone				

					Borehole Log			BH05 Sheet 1 of 2																																																																																																																																																																																																																																																																																																															
Hole Type		Easting		Northing		Ground Level (m)		Scale																																																																																																																																																																																																																																																																																																															
BH		287950.00		68964.00		33.00		1:50																																																																																																																																																																																																																																																																																																															
Project Name			Project No.			Start Date		End Date																																																																																																																																																																																																																																																																																																															
Zig Zag Quarry			HCE0269			2025-10-28		2025-10-29																																																																																																																																																																																																																																																																																																															
Client			Consultant			Contractor																																																																																																																																																																																																																																																																																																																	
BT Jenkins			Horizon Consulting Engineers			Apex Drilling Services																																																																																																																																																																																																																																																																																																																	
<table><tr><td rowspan="2">Inst/ Backfill</td><td rowspan="2">Water Levels</td><td colspan="3">Samples and Tests</td><td rowspan="2">Level (m)</td><td rowspan="2">Depth (m)</td><td colspan="2">Strata</td><td rowspan="2"></td></tr><tr><td>Depth (m)</td><td>Type/ Ref</td><td>Results</td><td>Legend</td><td>Description</td></tr><tr><td rowspan="15"></td><td rowspan="15"></td><td></td><td></td><td></td><td>32.70</td><td>(0.30)</td><td></td><td>Tarmac</td><td rowspan="2">0.5</td></tr><tr><td></td><td></td><td></td><td>32.40</td><td>(0.30)</td><td></td><td>[Made Ground]</td></tr><tr><td></td><td></td><td></td><td></td><td>(0.60)</td><td></td><td>Yellowish brown gravelly SAND. Sand is coarse. 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Appendix L

Risk Assessment Table

Table 1
Site Specific Risk Assessment (Deposit for Recovery)
Zig Zag Quarry



Receptor	Source	Harm	Pathway	Judgement				Action (by permitting)	
				Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Low	Medium	Medium	Permitted waste types are inert and do not include dusts or powders and have a low potential to produce bioaerosols. There is potential for increased dust generation from permitted activities during prolonged dry periods e.g. summer months. Nevertheless the site is in an active quarry in which dust emissions are actively controlled as required by planning and LAPPC Permitting.	The soils imported will be deposited away from sensitive human receptors below the level of the outer quarry walls. Throughout the works dust monitoring and mitigation to take place as per the DEMP.	Low
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Low	Low	Medium	As above. Local residents often sensitive to dust.	As above	Low
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Low	Low	Low	Local residents often sensitive to litter, however permitted waste types have low litter potential.	As above. Appropriate measures would include clearing litter arising from the activities from affected areas outside the site. Should litter be noted this would be cleared by BTJ staff.	Very low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Low	Medium	Medium	Road safety, local residents often sensitive to mud on roads. Distance to the public highway reduces probability to low.	All lorries to pass over a rumble strip prior to exiting site. A road sweeper to be used on an as required basis to clear the on-Site roads and any affected areas outside the Site.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	Low	Local residents often sensitive to odour, however permitted waste types have low odour potential.	Emissions will be free from odour. If required operations will be subject to an odour management plan.	Very low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Medium	Medium	Local residents often sensitive to noise and vibration. Low probability of exposure as noise is subject to planning control.	Compliance with Planning. Restoration activities considered to have limited potential to generate excessive noise and vibration. If required operations will be subject to a noise and vibration management plan.	Low
Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Air transport and over land	Low	Low	Low	Permitted wastes unlikely to attract scavenging animals and birds but may become nesting / breeding sites.	Only inert wastes to be accepted.	Very low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Low	Medium	Low	Permitted waste types unlikely to attract pests.	As above	Very low
Local human population and local environment	Flooding of site	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Low	Low	Low	Permitted waste types are inert so any waste washed off site will add to the volume of the local post-flood clean up workload, rather than create a hazard. The Site is not located within a flood zone. The majority of the wastes are to be deposited within existing quarry void space which will contain any run off and flood waters thus avoiding flooding off site.	Measures are proposed to minimise the potential for suspended solids run off during rainfall events including interception and trapping of suspended solids through silt lagoons.	Very low
Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.	Bodily injury	Direct physical contact	Medium	Medium	Medium	The site is an active quarry where public access is strictly prohibited.	The activities shall be managed and operated in accordance with the management system which includes site security measures to limit unauthorised access.	Low
Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Low	Low	Permitted waste types do not include any flammable materials so a low magnitude risk is estimated.	Activities managed and operated in accordance with the written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances (will include fire and spillages).	Low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or fire fighters. Pollution of water or land.	As above.	Low	Low	Low	As above.	As above (excluding comments on access to waste). Permitted activities do not include the burning of waste.	Low
All surface waters close to and downstream of site.	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Acute effects: oxygen depletion, fish kill and algal blooms	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Low	Low	Low	Permitted waste types do not include sludges or liquids so only a medium magnitude risk is estimated. No point source emissions to water are permitted, but there is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain.	Acceptance of inert waste only in accordance with the Waste Acceptance Procedures. Imported material subject to chemical testing and inspection to confirm suitability. To control suspended solids at source, it is proposed to incorporate various methods to retard runoff and extend retention time to allow suspended solids to settle out.	Very low
All surface waters close to and downstream of site.	As above	Chronic effects: deterioration of water quality	As above. Indirect run-off via the soil layer	Low	Low	Low	As above and waste types are non-hazardous and inert so harm is likely to be temporary and reversible.	Risks to controlled waters evaluated as part of Hydrogeological Risk Assessment.	Very low
Abstraction from watercourse downstream of facility (for agricultural or potable use).	As above	Acute effects, closure of abstraction intakes.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Low	Low	Low	No abstractions identified within 1 km downstream of the Site in Water Features Survey. Furthermore the majority of the fill material will be within the quarry void (i.e., surrounded by major geological barriers). As a result the probability of exposure is greatly reduced.	As above.	Very low
Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Low	Low	Low	As above plus permitted wastes unlikely to contaminate groundwater.	As above.	Very low
Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Low	Medium	Low	As above plus permitted wastes unlikely to contaminate groundwater. There is a lack of these receptors within the area.	As above.	Very low
Deciduous woodland adjacent to the Site.	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Medium	Medium	Medium	Uncontrolled waste operations may cause harm to and deterioration of nature conservation sites. Nevertheless only inert waste will be accepted whilst there are physical barriers between the activity and the receptors. As a result the probability of exposure is greatly reduced.	The potential risk to the species and habitat interests of the protected site from hazards associated with the deposit of clean inert soils for restoration purposes is considered low.	Low