

**Proposed Roadside Services Development,
Kelty
Fife**

**Preliminary Environmental
Assessment Report**

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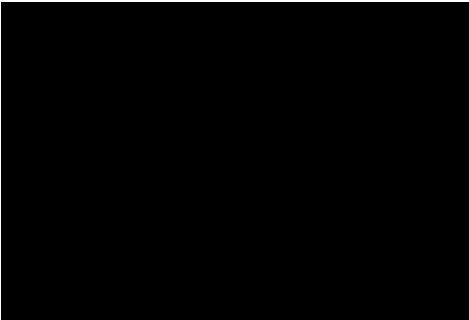
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1.0 Introduction

This Preliminary Environmental Assessment Report (desk study) presents a review and assessment of information obtained for a proposed roadside services development comprising of the erection of a petrol filling station and associated retail kiosk (Class 1), freestanding restaurant (Class 3) including drive-thru lane (Sui Generis), site access, parking provision, landscaping and ancillary works at land at the Kathellan, Home Farm, Kelty. A site location plan is included as Appendix I.

The purpose of this report is to summarise the historic and current land use in an environmental context, with regard to the suitability of use of the site in relation to the proposed development. Recommendations will be made in order to minimise the potential impact of the development and options for an intrusive site investigation will be discussed. This report has been prepared for TG Convenience Stores Ltd & McDonalds ('the Client') and should not be relied upon by any other third party without the express written consent of Goodson Associates Limited.

2.0 Regulatory Context

Contaminated land may be present in locations where previous industrial activity occurred, through unregulated disposal of waste products, or where land has been reworked or infilled. Contaminant sources are generally diverse and may be readily identifiable (such as surface spoil) or difficult to detect (such as polluted groundwater). These may be masked by apparent clean materials such as topsoil or inert waste materials. Spatial distributions and concentrations of contaminants may also be difficult to quantify from visual assessment, and it is often necessary to conduct intrusive, quantitative investigation to fully ascertain the nature and extent of any contaminants that may be present.

The contaminated land regime provides a regulatory framework for the assessment, definition and management of contaminated land. In Scotland, this guidance is provided by Statutory Guidance: Edition 2 notes¹ which provides key points on the changes to Section 78 of Part IIA of the Environmental Protection Act 1990 through the implementation of the WEVWS² Scotland Act, as amended by Statutory Instrument number 323³ and the Contaminated Land (Scotland) Regulations 2005.

The definition of contaminated land is contained within Part IIA of the 1990 act (and defined in a non-planning context) as inserted by Section 57 of the EPA 1995) and reflects the role of the contaminated land regime whereby:

- Areas of land which currently present a Significant Possibility of Significant Harm to Human Health (SPOSH) and:
- May have the potential to cause Significant Pollution and Significant Possibility of Significant Pollution to the Water Environment.

These areas of land through the contaminated land regime are identified, prioritised and notified on a statutory register, requiring a programme of satisfactory remediation to mitigate any potential risks to future site users and the wider environment. Such sites are regulated by the relevant local authority with the exception of 'special sites'⁴ (where the risk of significant harm to the environment is potentially high), in which case the Scottish Environmental Protection Agency (SEPA) is the regulatory body.

In a planning context, the definition and regulation of contaminated land is primarily dependent on the current and proposed use of a site. A site may contain existing contamination, but if the site use does not present a risk to site users, it may not have the potential to cause significant harm. In essence, the site can be determined as "suitable for use" until a change in use is proposed and conditions arise

¹ Environmental Protection Act 1990 Part IIA (Contaminated Land Statutory Guidance: Edition 2) Scottish Executive May 2006

² Water Environment Water Services Act Scotland 2003

³ The Water Environment (River Basin Management Planning: Further Provision) (Scotland) Regulations 2013

⁴ Special Sites as defined in The Contaminated Land (Scotland) Regulations 2005

2.0 Regulatory Context (continued)

whereby contamination presents an obstacle to development. Contaminated sites may therefore be regarded as "any site where the presence or suspected presence of contaminants is an obstacle to development, regardless as to whether development is proposed."

In assessing the risk posed by potential contamination at a site, the documents CLR11⁵, SR2⁶, and SR3⁷ provide standard guidance for the assessment of sites that may be contaminated. The concept of a viable Source-Pathway-Receptor (SPR) linkage model assists in evaluating the potential risk of elevated contaminants at a site. A Conceptual Site Model (CSM) provides a mechanism for assessing potential risks and this is the first stage in the risk evaluation process. The CSM is further discussed in Section 8.0.

2.1 Pan 33 Requirements

The Scottish Executive considers the "suitable for use" approach as the most appropriate to deal with the historic legacy of contaminated land, in a way that takes account of environmental, social, and economic objectives, as set out in Planning Advisory Note PAN33⁸ - "Development of Contaminated Land". This approach focuses on the risks caused by land contamination and recognises that the risks presented by any given level of contamination will vary greatly according to historical land uses and interactions with site-specific geology and hydrogeology. Risks therefore need to be assessed on a site-by-site basis.

The suitable for use approach ensures that land is made suitable for any new use. This requires that an assessment of potential risks from contamination in the context of the development is undertaken to avoid "unacceptable" risks to human health and environment prior to commencement of the development. Annex 2 of the PAN33 document delineates the key requirements that are required to be considered prior to application submission.

2.2 Local Authority Consultation & Statutory Database Information

An Environmental Information Request (EIR) was issued to Fife Council. The Council's response confirms the site was previously agricultural land with historical imagery from the 1940's confirming industrial activities likely involving extraction / infilling (probable opencast operations) before the land was restored. The site was then used as a residence before a commercial premise was formed to the south in the mid to late 1990's.

Fife Council's response does not confirm whether the site or sites in close proximity have been prioritised for inspection under Part IIA of the Environmental Protection Act 1990, although this is considered very unlikely. The Fife Council response also contains a database search for a range of relevant features which are noted where relevant in the remainder of this report. The EIR response is included as Appendix 2.

An Envirocheck report has been obtained which interrogates numerous datasets in relation to the site. This includes detailed lists of former potentially contaminative land uses and is included as Appendix 3.

⁵ Model Procedures for the Management of Land Contamination CLR 11 (Environment Agency 2004)

⁶ Science Report SC050021/SR2. 2009. The Environment Agency.

⁷ Science Report SC050021/SR3. 2009. The Environment Agency.

⁸ Planning Advice Note PAN33 (DEVELOPMENT OF CONTAMINATED LAND) Scottish Executive October 2000.

3.0 Site Description

The proposed development site is located within a rectangular shaped parcel of land adjacent to the south of the B914 and west of the M90 Junction 4 slip road, near the town of Kelty, in Fife. The total site area occupies approximately 1.11 hectares and is centred on National Grid Reference 313330, 693800. The site level lies between approximately 196mAOD in the northwest corner of the site and 185m in the east of the site. The site topography gently slopes gently downgradient to the east, with the surrounding topography sloping toward the southeast to the south of the site and northeast to the north of the site.

A site reconnaissance visit was completed on 23rd November 2020 and confirmed the site was currently occupied by agricultural land in the eastern half and a car park in the western half. The agricultural land was bound by fencing and the surface appeared to be managed grass, with no crops or livestock present during the reconnaissance. An overhead electricity transmission line (ETL) was present in the west of the field and trends northwest to southeast. The car park in the western half of the site appeared to be possibly disused or infrequently used given its appearance (colonising vegetation / poorly maintained) and was formed of gravel and crushed aggregate, suggesting this was intended as an overspill car park for the commercial premises to the south which has additional parking formed of tarmac. The car park is bordered by managed grass, shrubs and trees to the north, west and east. A strip of managed grass runs along the entire northern boundary of the site adjacent and parallel with the B914 and several services were noted here including a water main and telecommunications box.

A commercial premise was present adjacent to the south of the site which is bordered by tarmac car parking and agricultural land in the west and east respectively. A propane tank was noted adjacent to the south of the site and appeared to be in good condition. The commercial premise is understood to now be disused and was previously used as a coffeeshop / deli / giftshop.

The site access is located at the western boundary via the B914. Access into the agricultural field can be gained via three small gates but each was locked at the time of reconnaissance.

The surrounding land uses are summarised as follows:

- To the north: the B914 borders the site and trends east to west, with agricultural land beyond for at least 500m.
- To the east: the M90 lies adjacent to the site with agricultural land beyond for at least 500m to the southeast and residential properties within the town of Kelty for at least 500m to the northeast.
- To the south: a disused retail premise with tarmac car parking is situated immediately to the south of the site and farm buildings are located around 125m southwest. Agricultural and open land extend beyond for at least 500m.
- To the west: A strip of open grassland is situated opposite the access road with predominantly woodland and agricultural land for at least 500m beyond. Farm buildings are located around 125m northwest of the site, opposite the B914.

Site reconnaissance photographs are included as Appendix 4.

4.0 Historical Land Use

The history of land use within the site boundary and surrounding areas has been reviewed as part of the preliminary assessment. This helps to facilitate the development of a conceptual site model (CSM), used to identify and evaluate the presence of complete pollutant linkages and the risks they may present

4.0 Historical Land Use (continued)

to development. An important aspect of the development of a conceptual site model is that it should be site-specific and address all key pollutant linkage components relating to the site. A review of the historical land use within the site boundary for the proposed development has been undertaken, and a site-specific CSM derived - which is detailed in Section 8.0.

The Ordnance Survey (OS) historical map extracts are included as Appendix 5, with the key notable features and land uses summarised below, both within the site boundary and surrounding area. The Envirocheck report also provides a comprehensive list of former industrial land uses surrounding the site in a spatial and historical context.

4.1 Within Site Boundary

The earliest available historical map extract dated 1856, records the site to be predominantly open, undeveloped agricultural land associated with Cocklaw Farm to the south. An access track and woodland strip are present within the east of the site and connects with a road to the north (now the B914). The site retains this configuration until at least 1943. By 1960, the access track and woodland are no longer recorded, and the site is entirely open, undeveloped land which remains until at least 2000. The 1971 map edition features the M90 slip road within the far east of the site, but it should be noted this actually lies offsite. 2001 imagery records a car park within the western half of the site and the site has retained this configuration to present.

Review of the Fife Council EIR reveals additional historical information not featured on the Envirocheck historical mapping. The 1940's aerial map reveals an extensive area within and surrounding the site showing worked ground. Information obtained from the Coal Authority (see Section 7.0) indicates this to be a historical unlicensed opencast operation.

Review of Google Earth's historical imagery function confirms the site has remained generally unaltered since at least 2006.

4.2 Surrounding the Site

The notable surrounding historical land uses are:

- Predominantly undeveloped, open, land for at least 500m in all directions from 1856 to 1952. Cocklaw farm buildings are situated around 50m south of the site.
- The 1896 map edition features old shafts around 200m north and 500m east of the site and an old quarry around 400m west of the site. None of these features are recorded from 1978 onward.
- Kelty golf course is documented opposite the B914 in map editions 1915 to 1920 only.
- By 1962, coniferous trees have been planted to the west of the site and encroach within 50m. A residential building is located around 20m west of the site. A refuse tip is recorded roughly 200m south of the site. The residential building and refuse tip are no longer documented by 1976.
- The M90 is formed to the east of the site by 1971. Residential areas of Kelty expand and encroach to within 200m northeast of the site.
- Probable opencast works are featured on the Fife Council EIR from 1940's historical imagery and surround the site to the south. The 1980's aerial photograph reveals probable opencast operations

4.2 Surrounding the Site (continued)

to the north of the site opposite the B914 and east of the site opposite the M90. Between 2006 and 2020, licenced opencast operations occur over an extensive area between 200m and at least 1km southwest of the site (St. Ninian's Opencast Mine).

- By 2006, Cocklaw farm appears to have been converted (likely into the retail premise) with car parking formed to the north of the farm.

4.3 Potential Historical Contaminative Sources

Review of the surrounding past land uses indicates potentially contaminative land-uses within and in close proximity to the site boundary. Within the site boundary, made ground of unknown extent is likely to be present from historical unlicensed opencast operations. Made ground may also be present within the far east of the site associated with the development of the M90 motorway. The presence of a documented shaft within the northeast of the site may also present a risk from mine gas emissions.

Offsite sources are recognised within influencing distance of the site, which include licenced opencast operations and a refuse tip to the south. Depending on the nature of infill, there may be potential for migration of ground gases toward the site, although these may be masked within the site depending on the extent and nature of any fill.

5.0 Proposed Development

At the time of writing, it is understood that a new PFS will be formed in the west of the site and a new drive thru restaurant in the east. The most recently available development plan is included as Appendix 6.

6.0 Previous Reports

No previous reports regarding contamination were available for review.

7.0 Environmental Setting

Within the Envirocheck report, a series of datasets have been obtained and presented in relation to the site. Additionally, available relevant information has been gathered from various sources to assist in the site interpretation. A comprehensive review of the environmental setting has been completed in order to adequately convey the likely nature and magnitude of risk to and from development at this site. The risks assigned are qualitative and formulated based on the relevant factors considered in **Table I**.

Table I – Basis of Risk Rating	
Low	<ul style="list-style-type: none"> • Unlikely for pollutant linkage to occur and unlikely to cause harm to receptors. • Unlikely for event to occur and/or effect is unlikely to be severe. • Unlikely for significant issues caused to or from development.
Low - Moderate	<ul style="list-style-type: none"> • Unlikely but deemed viable for pollutant linkage to occur and potential for harm to receptors. • Event could occur and/or effect is unlikely to be severe. • Unlikely for significant issues to be caused to or from development.
Moderate	<ul style="list-style-type: none"> • Viable for pollutant linkage to occur and potential for harm to receptors. • Event could occur and/or effect could be noticeable. • Unlikely but potential for significant issues to be caused to or from development.
Moderate - High	<ul style="list-style-type: none"> • Viable for pollutant linkage to occur and potential for harm to receptors. • Event could occur and/or effect could be severe. • Potential for significant issues to be caused to or from development.
High	<ul style="list-style-type: none"> • Likely for pollutant linkage to occur and potential for significant harm to receptors. • Event likely to occur and/or effect could be severe. • Potential for significant issues to be caused to or from development.

The environmental setting summary is provided within **Table 2**.

Table 2: Environmental Setting Summary

Environmental Unit	Description	Risk Rating
Geology		
Made Ground	<p>The Envirocheck report and BGS Onshore Geindex⁹ indicate that significant (undivided) made ground deposits lie beneath the east of the site. This may be associated with licensed opencast operations, although unlicensed works appear to have possibly been conducted across the entire site. As works were unlicensed and due to the age of these workings, no records are available to the composition of any infill. No borehole records are present within or in close proximity to the site which indicate significant made ground, however, many of these borehole records likely pre-date the opencast workings or were not advanced in an area of opencast.</p> <p>Considering the age and undocumented nature of potential workings, made ground but may contain potential contaminants such as heavy metals, ash, and asbestos, for example. If made ground is found to be extensive, this may pose a constraint to development or require ground improvement works, for example. Depending on the thickness and nature of any deposits, this may also present a viable source of ground gases.</p>	Moderate - High
Superficial/ Drift Deposits	<p>The superficial deposits beneath the majority of site are mapped by the BGS as glacial till. Glacial till is typically a firm to very stiff, silty or sandy clay with rock clasts, of various types, and up to boulder size. No superficial deposits are mapped within the far east of the site in conjunction with the mapped made ground deposits. If opencast operations have taken place across the site or partially across the site as indicated, then superficial deposits may be partially or entirely reworked, or altogether absent.</p> <p>Based on review of BGS borehole information the natural depth to bedrock within the site boundary is anticipated to be shallow. Borehole scan NT19SW884 drilled in close proximity to the southwest of the site encountered bedrock at 2.7mbgl, whilst older bores dated 1945 drilled roughly 85m south of NT19SW884 encountered bedrock from 1.2 to 1.5mbgl. However, as noted in previous sections, the presence of historical opencast operations is likely to have resulted in extraction and removal of economic seams and thus 'bedrock' may not be in its natural state in the near surface.</p> <p>If organic rich natural soils are encountered, these may have the potential to release relatively high concentrations but low volumes of ground gases (mainly carbon dioxide and methane), however, as deposits are expected to be shallow and formed of glacial till then the potential for release of significant volumes of gas is considered unlikely from this stratum.</p>	Low - Moderate
Solid Geology	<p>Bedrock underlying the site belongs to the Limestone Coal Formation of Carboniferous Age. This unit is composed of a typical cyclic sedimentary sequence of sandstone, siltstone and mudstone with seatclay, seatearth, limestone and coal.</p> <p>The BGS records a coal seam to outcrop at rockhead within the centre of the site which trends north to south and is understood to be the Cowdenbeath Five Foot Coal which has likely been subject to opencast operations. The Coal Authority notes the five foot coal to dip 7.9 degrees to the east.</p> <p>The Envirocheck Report or BGS do not conjecture any major faulting within 250m of the site, although the presence of localized small-scale faulting cannot be discounted. If present, faulting would likely be represented at rockhead by a narrow zone or zones of disturbed or broken rock.</p>	Moderate
Radon Gas	<p>Both the UK Radon interactive viewer¹⁰ and the Envirocheck report indicate the site lies within a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).</p>	Low

⁹ <http://mapapps2.bgs.ac.uk/geindex/home.html>

¹⁰ <http://www.ukradon.org/information/ukmaps>.

<p>Natural Ground Stability</p>	<p>The Envirocheck report includes data regarding natural ground stability. This BGS sourced assessment is not site-specific and gives only an indication of a geohazard to occur within the site boundary, and within a 50m buffer zone. The Envirocheck report indicates the following hazard potentials: shrink swell (very low), landslides (low), soluble rocks (negligible), compressible ground (moderate), collapsible rocks (very low), and running sand (very low). Hazards posed by natural ground stability are considered low.</p> <p>For compressible ground it is recommended to avoid large differential of ground and to not drain or de-water ground without technical advice.</p>	<p>Moderate</p>
<p>Hydrogeology/Hydrology</p>		
<p>Hydrogeology</p>	<p>Reference to the BGS Onshore Geoindex map from the BGS indicates that the site is underlain by the Clackmannan Group. This group are characterised as being moderately productive multi-layered aquifers with low yields but higher yields where mined but usually of poor water quality. The Water Classification Hub¹¹, confirms the site is underlain by 'Dunfermline and Kirkcaldy Groundwater' which is a summary area of 276km². SEPA has designated this groundwater body as having 'poor' overall status, which has been maintained since 2012. Given the local historical mining legacy, it is but unlikely that the underlying bedrock would supply local abstractions in the foreseeable future, but this will provide an important source for maintaining base river flows.</p> <p>The BGS Aquifers and Groundwater Bodies Scotland¹² notes and Water Classification Hub confirm there are no likely significant underlying superficial aquifers and natural bedrock depths are expected to be shallow. In addition, if present, glacial till provides limited groundwater resources, although occasional perched lenses may be present where weathered glacial till overlies competent stiff glacial till. The presence of glacial till in the surrounding area, will likely inhibit significant vertical and lateral groundwater flow.</p> <p>According to the Fife Council EIR there are no private water supplies or groundwater abstractions within at least 250m of the site. It is considered unlikely that the proposed development would have any significant impact on the local hydrogeology or groundwater quality.</p> <p>The surrounding area is likely to be protected by The Controlled Activities Scotland Regulations (CAR 2011)¹³ which regulate and protect discharges to and abstraction from groundwater resources. However, should any notable contamination be identified, consideration should be given during development with regard to the possible mobilisation of potential contaminants underlying the site. It should also be noted that the new PFS will present an ongoing new possible pollutant source in the long term but this is out with the scope of this report and applies to all PFS developments.</p>	<p>Low</p>
<p>Hydrology</p>	<p>A river basin management plan (RBMP) (to enable easier integration with other catchments) has been developed and is available via the Water Classification Hub, providing resource information as to the status of classified inland and coastal water bodies within a specific RBMP catchment area. Using the interactive map tool, the nearest classified surface water body is the Lochfitty Burn, which is located around 1km to the south at its closest point. In 2018, this burn was designated by SEPA as having 'poor' overall status with previous moderate status held from 2016.</p> <p>No unclassified burns or drainage features are present in or in close proximity to the site. Upon redevelopment, it is anticipated that incident precipitation will generally trend toward a new urban drainage network or partially percolate through shallow groundwater. The proposed change of use at the site will result in a small increase in surface hardstanding but an appropriate drainage solution should be considered to avoid increased risk and cumulative impacts to alterations in the local hydrology. It is unlikely the development will lead to deleterious pollutant loading to surface water receptors based on the site history and significant proximity to the nearest major receptor.</p>	<p>Low</p>

¹¹ <https://www.sepa.org.uk/data-visualisation/water-classification-hub/>

¹² British Geological Society - Scotland's Aquifers and Groundwater Bodies. Groundwater Science Programme. Open Report OR/15/028 (NERC 2015).

¹³ Water Environment (Controlled Activities) (Scotland) Regulations 2011.

Flooding/ Drainage	Review of the Envirocheck report and SEPA flood map ¹⁴ confirms a low risk is presented from river, coastal, groundwater or pluvial flooding. Risks are considered low with respect to flooding, although an appropriate drainage design should be considered and should be informed by site investigation.	Low
Miscellaneous		
Coal/Mineral Extraction	<p>The Coal Authority Interactive Viewer¹⁵ shows the site lies within a Coal Mining Reporting Area and lies in a high-risk development area. Consequently, a Consultants Mining Report and mine abandonment plans were obtained from The Coal Authority and are included as Appendix 7. The Consultants Mining Report confirms the site is undermined in three seams of coal from 12 to 24m depth with licenced opencast operations haven taken place in the southeast of the site and unlicenced opencast operations taken place across the entire site. Four shafts are recorded within 50m of the site with two of these having been wholly or partially removed by opencast operations. Shaft reference 313693-004 is positioned in the northeast corner of the site and similarly may have been removed during unlicenced opencast operations but this should not be assumed.</p> <p>Consequently, the mineral stability beneath the site cannot be certain and intrusive investigation will be required. Further recommendations are provided in Section 9.2.</p>	High
Sensitive Land Uses	Reference to Scottish Natural Heritage Sitelink Gateway interactive map ¹⁶ and to the Envirocheck report indicates no environmentally sensitive land uses are present within at least 100m of the site area. It is considered unlikely that the proposed development would have adverse impacts on any sensitive land-use.	Low
Waste Management and Licenced Sites	<p>Review of the Envirocheck report confirms there are no landfill or waste sites within at least 1km of the site. Historical map editions record a small refuse tip to the south of the site which is unlikely to pose a significant risk. Opencast operations may have been infilled with material of various origins and may potentially have characteristics of a pre1960's landfill.</p> <p>There are no recorded petrol or fuel sites within 250m of the site, although a PFS is proposed for the site.</p> <p>Overall, risks are considered low to moderate with respect to historical and present waste management and licenced sites.</p>	Low - Moderate
National Monuments / Archaeology	<p>Reference to the PastMap interactive viewer¹⁷ indicates no features of interest within the site boundary and limited features in close proximity. The CANMORE and databases reveal records relating to Oakfield Colliery to the southwest, Kelty golf course and the construction of the M90 motorway.</p> <p>There is considered to be limited potential for archaeological features of interest to be present at the site, especially given the historical opencast operations, although this cannot be ruled out entirely. Discussions should be held with the relevant consultees in relation to any surveys that may be required for the development.</p> <p>During development, any features of interest identified during earthworks should be immediately reported to the on-site manager and necessary personnel.</p>	Low

14 <http://map.sepa.org.uk/floodmap/map.htm>

15 <http://mapapps2.bgs.ac.uk/coalauthority/home.html>

16 <https://gateway.snh.gov.uk/sitelink/searchmap.jsp>

17 <http://pastmap.org.uk/>

8.0 Conceptual Site Model

A Conceptual Site Model (CSM) is used for identifying hazardous sources, complete exposure pathways and potential receptors on which to focus the risk assessment. The CSM presents the network of relationships between potential hazards from within and adjacent to the site area, and the receptors that may be exposed to the hazards through pathways such as ingestion or inhalation of gases. An important aspect is that while the CSM examines the range of potential exposure pathways that are present and may be important for human and ecological receptors, it also eliminates those pathways that are incomplete, and that therefore do not pose a risk.

The concept of a pollutant linkage is a useful tool for understanding the interaction of potential contaminants and end site users via the Source – Pathway – Receptor (S-P-R) model. If any component of the pollutant linkage is absent, or through remediation options be mitigated, then the risk posed by an identified contaminant is removed. Applying the concept of viable pollutant linkage to the site and considering the current site setting and historical land use, there is limited potential for residual contaminants to be present within subsurface soils and groundwater at the site. As a requirement of the planning conditions, these should be appropriately quantified as part of any site investigation.

The key sources, pathways and receptors are detailed below, and a corresponding risk table has been compiled which is included as Appendix 8. The British Standard ISO 18400-202:2018 provides guidance on preliminary investigations and includes a list of potentially contaminative industries and commonly associated contaminants and have been used in developing the CSM.

8.1 Sources

The key potential on-site sources that may be attributable to potentially deleterious contaminant levels (upon redevelopment) are:

- Made ground deposits, potentially containing diverse contaminant sources, including (but not limited to): potentially toxic elements (PTE's), petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAH), and asbestos containing materials (ACM).
- Dust arising from site construction and maintenance.
- Sources of ground gases (principally carbon dioxide, methane, carbon dioxide and hydrogen sulphide):
 - Made ground – opencast infill (anticipated moderate risk¹⁸).
 - Potential generation and migration of ground gas in glacial till (primarily carbon dioxide (CO₂) and methane (CH₄)) attributable to microbiological decomposition associated within organic rich soils and strata (anticipated very low risk).
 - Potential generation and migration of mine gas in workings (primarily carbon dioxide (CO₂) and methane (CH₄)) (anticipated moderate risk).

There are not considered to be any likely potentially significant off-site sources of contamination impacting this site. Surrounding opencast operations may present a viable source but given these are also present within the site, determining a solely offsite origin of source will prove difficult and its unlikely that an offsite source of similar origin would present a higher risk than the onsite source.

¹⁸ BS 8576:2013. Guidance on investigations for ground gas – permanent gases and volatile organic compounds.

8.2 Pathways

A contaminant source must have a suitable/probable pathway to present a risk to a receptor. At this site, the following pathways are proposed:

- Airborne dispersion and inhalation/dermal contact of dust.
- Dermal contact/ingestion of potentially contaminated soils.
- Migration and inhalation of gases and vapours into sub-floor spaces and voids using drainage/service trenches and foundations as preferential pathways
- Leaching of contaminants through subsurface deposits and into underlying sedimentary aquifer.
- Migration of contaminants through groundwater.
- Ingestion/dermal contact of potentially contaminated groundwater.
- Sequestering of contaminants by flora in landscaped areas.
- Direct contact with structures and services from aggressive ground conditions (e.g. sulphate).

8.3 Receptors

Key receptors that should be given consideration are:

- End users (employees, visitors).
- The water environment.
- Construction and future maintenance workers.
- Buildings and services.
- Flora in landscaped areas.
- Adjacent properties and personnel.

8.4 S-P-R Assumptions

- End-users will not abstract groundwater for the purposes of human consumption or otherwise.
- Dust as a source primarily relates to ‘contaminated dust’ and not particulates. If no significant contamination is identified on-site then this should be discounted as a source to construction workers and adjacent premises but should still be managed in accordance with the relevant legislation, HSE requirements and best working practice.
- Any newly incorporated soft landscaping should incorporate clean growth medium ideally complying with BS 3882 2015 soil standards where possible and should not exceed phytotoxic criteria for parameters copper, nickel and zinc. The growth medium should also meet the requirements for suitability with respect to human health and appropriate to the proposed end use.

8.5 Pollutant Linkage Assessment

Having completed the historical map review, data interrogation and the site reconnaissance, the site presents overall a **Moderate** risk to development with a **Moderate** risk of contamination in the absence of quantitative site data. The site was subject to opencast operations in the 1940' and the extent and composition of infill is unknown. The mineral stability of the site is uncertain and risks may be present from ground gas in made ground or underlying mining voids.

An important aspect in considering the risk that the site may pose to sensitive receptors is the concept of "suitability" for use. The site is currently undeveloped greenfield land, and the proposed development will involve the construction of a new health centre. Once a thorough site investigation has been undertaken and subsequent remedial measures (if necessary) are completed, the site should present a **Low** risk to end users.

The model procedures for The Management of Contaminated Land (CLR 11) provides a flow diagram for conducting preliminary site assessments and the key pages within the document (pp16,51, 163-175 and pp183-186) include information on the derivation and assigning of risk to each identified SPR linkage. CLR 2 and CLR3 also provide a methodology for conducting site assessments and categorising associated risk(s). The CSM is represented graphically as Appendix 9.

9.0 Recommendations for Invasive Investigation

Having reviewed historical maps, third party information and conducted a site reconnaissance; it is considered that there is potential for complete pollutant linkages to exist at the site. We recommend that, in the absence of quantitative data, soil samples be obtained for laboratory analysis in conjunction with an intrusive geotechnical site investigation. The results will further characterise and refine the conceptual site model and assess the potential risks identified in the context of the proposed development. The site investigation should address the following:

- Evaluate the presence, extent and properties of any residual contaminants that may be attributable to the identified historical land use.
- Evaluate whether such contaminants are present within the sub surface soils and any underlying groundwater regime.
- Identify the composition of the underlying soils / bedrock and assess ground conditions to characterise geotechnical risk.
- Assess the extent and nature of any potential ground gas which may be being generated beneath the site.

9.1 Scope of Works

The site investigation should be sufficient to provide an adequate overview of site conditions, target areas where key sources and risks were identified within the preliminary CSM and provide a rationale for quantifying and interpreting the site data obtained. It is therefore recommended that the site investigation should comprise the following scope of works:

Formation of exploratory boreholes and/or and excavated trial pits with an approximate grid centre of 25m. These should be relevant and targeted to the specific development proposal. The preliminary sampling grid should be sufficient to provide adequate spatial coverage for the purposes of an exploratory investigation, which may be sufficient depending on the initial investigation results.

9.1 Scope of Works (continued)

- Following the initial investigation, a greater level of confidence may be required, or source areas of identified contamination may need to be delineated. The results of the initial intrusive investigation should be used to design any subsequent works as part of a detailed investigation.
- Suitable depths of advanced boreholes / trial pits should be attained to effectively assess the nature and extent of made ground and natural superficial deposits.
- Interpretation and assessment of all collected data to identify key risks and formulation of a remediation strategy if necessary.
- All site investigation works should be undertaken and adhere to current good practice guidelines (BS 10175 2011+A2 2017 (and associated documents), BS 5930 2015, BS 14688-1 2002, BS 14688-2 2004, BRE 365/412 and BS6068-6.11:2009) to ensure that a comprehensive site-wide investigation is conducted, that is appropriate to the context of the development, and that results are reliable and robust for recommendations to be formulated. Adherence to CLR 11 will be implemented.

9.2 Proposed Exploratory Site Investigation and Testing Regime

- Approximately nine number continuous percussive boreholes are recommended, advanced to refusal to prove the extent and nature of underlying made ground and natural deposits. Samples should be obtained for environmental and geotechnical laboratory analysis where appropriate.
- A minimum of three rotary cored boreholes are recommended to clarify the presence of any underlying mineral workings. Core should be obtained and inspected by a stratigrapher who should also note the TCR/SCR/RQD. A Coal Mining Risks Assessment (CMRA) has been instructed to the Coal Authority and will be issued upon receipt. The number of boreholes recommended may increase depending on the recommendations of the CMRA.
- It is recommended that in-situ standard penetration tests (SPT's) and California Bearing Ratio tests (CBR's) are completed within borehole and trial pit positions to assist in foundation and roadway design.
- Installation of combined groundwater and gas monitoring wellpoints within selected borehole locations, with response zones selected depending on the borehole returns in order to screen different strata, where possible.

That obtained soil samples should be analysed for a range of relevant contaminants as listed:

- a. CLEA metals suite.
- b. TPH CWG banding.
- c. PAH16 suite.
- d. Asbestos screen, quantified if detected.
- e. Soluble sulphate (2:1 soil extraction).
- f. Soil Organic Matter (SOM).
- g. Total Organic Carbon (TOC).
- h. pH.
- i. Cyanide (total)
- j. Phenols
- k. WAC / Waste Classification test suites (if areas of material are identified for off-site removal or disposal).

9.2 Proposed Exploratory Site Investigation and Testing Regime (continued)

Certain additional test suites may be scheduled as considered appropriate upon sample recovery should visual or olfactory evidence of contamination be noted. A photoionization detector may be used as a semi-quantitative screening tool to assist laboratory scheduling.

- It is recommended that environmental sampling be undertaken in accordance with guidance provided in BS 10175 2011+A2 2017 and ISO 18400-100-2018 (and associated documents). It is proposed that exploratory locations are targeted in areas of proposed structures but also non-targeted across the wider site on a suitable grid pattern to adequately characterise the site.
- During the investigation any obvious visual or olfactory contaminant sources should be sampled appropriately and brought to the attention of the supervising engineer.
- Groundwater, if encountered, should be sampled and scheduled for an appropriate analytical test suite, in line with the soil testing suites above, and specific objectives of the conceptual site model. Soil leachate may be scheduled as an alternative if limited groundwater volumes are indicated.
- The formation of the above positions provides suitable spatial coverage in line with guidance provided in BS 10175:2011+A2 2017. Additional sampling may be required to improve spatial density, facilitate further characterisation of the site and refine the conceptual site model. This should be based upon the returns of initial exploratory boreholes.
- Should any waste material arise from construction and development that require removal off-site, then this should be suitably characterised by additional testing in line with current guidelines and legal requirements^{19,20,21,22}.
- Depending on the returns of exploratory positions, a series of suitable geotechnical tests should be undertaken on recovered samples which should be obtained at regular intervals.
- A series of geophysical methods may be utilised in conjunction with the above intrusive methods to provide any necessary additional information such as delineation of opencast workings or shaft locating, for example.
- As part of the preliminary data collation stage and as a mandatory requirement prior to any invasive investigation, a series of public utility service plans have been obtained and are included as Appendix 10.

9.3 Site Monitoring and Reporting

Approximately six rounds of gas monitoring should be conducted in varying atmospheric pressure trends over a time period of approximately 3 months in line with a 'Low' sensitivity of development and 'Moderate' generation potential of source²³. Adherence to CIRIA C665²⁴ p59-60 Tables 5.5 and 5.5b (with regards to appropriate monitoring periods and frequency) should be implemented in the context of the new development. Depending on the initial results, additional rounds and an extended period of monitoring may be considered necessary.

¹⁹ The Landfill Directive 1999/31/EC

²⁰ The Hazardous Waste Directive 91/689/EEC

²¹ Statutory Instrument No235: The Landfill Scotland Regulations April 2003

²² https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/719394/Waste-classification-technical-guidance-WM3.pdf

²³ Wilson, S., Card, G., and Haines, S. Ground Gas Handbook.2009. ISBN 978-1904445-65-5.

²⁴ CIRIA C665 Assessing Risks Posed by Hazardous Ground Gases to Buildings CIRIA 2007

9.3 Site Monitoring and Reporting (continued)

- Should a new water supply pipe connection be required, it is recommended that a Site Assessment Report (SAR) should be compiled in order to adhere to the UKWIR guidelines and to ensure that a suitable water supply pipe medium is selected (as per Table 3.2) according to the prevailing ground conditions.
- The results of the intrusive investigation including borehole logs and laboratory analysis should be collated and presented in a factual report.
- An interpretive report with accompanying generic risk assessment report and revision/re-assessment of the preliminary CSM should be provided upon completion of the site investigation.

10.0 Conclusions and Recommendations

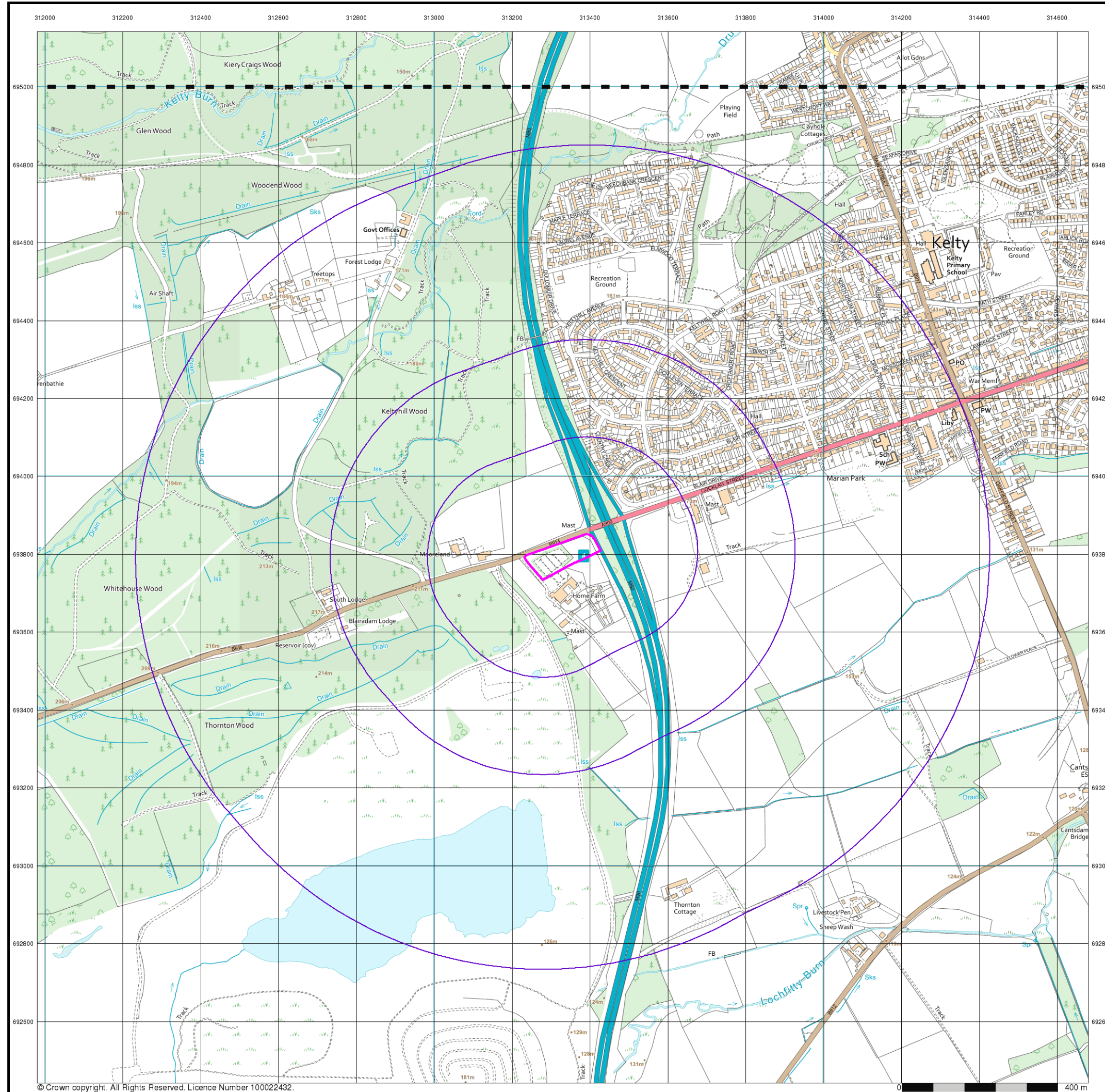
- The site is considered to be at moderate risk of contamination. Refer to the CSM in Section 8.0 for a breakdown of potential sources and viable pollutant linkages. A site investigation is recommended to characterise the ground beneath the site, detailed in Section 9.0.
- A geotechnical testing regime of the underlying deposits is recommended to better characterise the ground beneath the site to assist in foundation, roadways and drainage design.
- A series of environmental samples should be obtained to determine the concentrations of any potential contamination present and refine the CSM. The resulting laboratory data should then be incorporated into a Generic Quantitative Risk Assessment (GQRA) based on the proposed end-use of the development. Additional sampling may be required to improve spatial density, better characterise the site and refine the conceptual site model. Any additional sampling should be based upon the returns of initial boreholes.
- It is recommended that combined gas and groundwater monitoring installations are included in the site investigation specification to suitably assess the potential for ground gas generation within the in-situ soils.
- Reference to SEPA and Envirocheck flood maps shows that the site lies within an area that is not deemed to be at increased risk to surface water, river, groundwater or coastal flooding.
- The site is at risk of being impacted by coal mining or other mineral extraction. A mineral investigation is recommended to clarify the underlying mining position.
- The site is at low risk of being affected by elevated levels of radon gas. No radon protection measures are required within the site area.
- Should any unusual odours or seepages be encountered on site during the construction stage, then these should immediately be brought to the attention of the on-site engineer who should then arrange for the relevant sampling and testing to be carried out. Additionally, should there be significant changes in the proposed end-use of the site, a reappraisal and reconsideration should be made to the CSM, and appropriate exploratory/investigative analysis be conducted.
- Good site working practices should be employed at all times during construction to minimise the potential for deleterious impacts within the site boundary and the wider environment.

10.0 Conclusions and Recommendations (continued)

- Should development plans become revised in the future, then the indicative positions of exploratory locations and sampling strategy should be reconsidered and updated accordingly.

APPENDIX I

Site Location Plan



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VectorMap Local

Published 2020

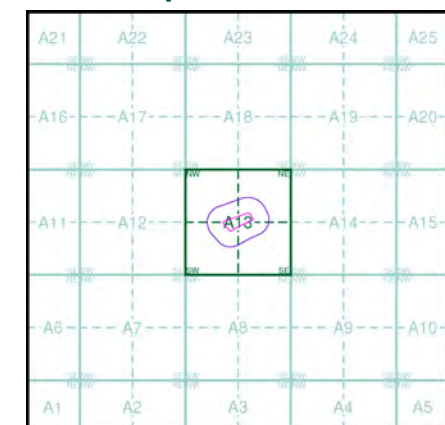
Source map scale - 1:10,000

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)

- NT19NW
2020
Variable
- NT19SW
2020
Variable

Historical Map - Slice A



Order Details

Order Number: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR



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

APPENDIX 2

Fife Council EIR Response

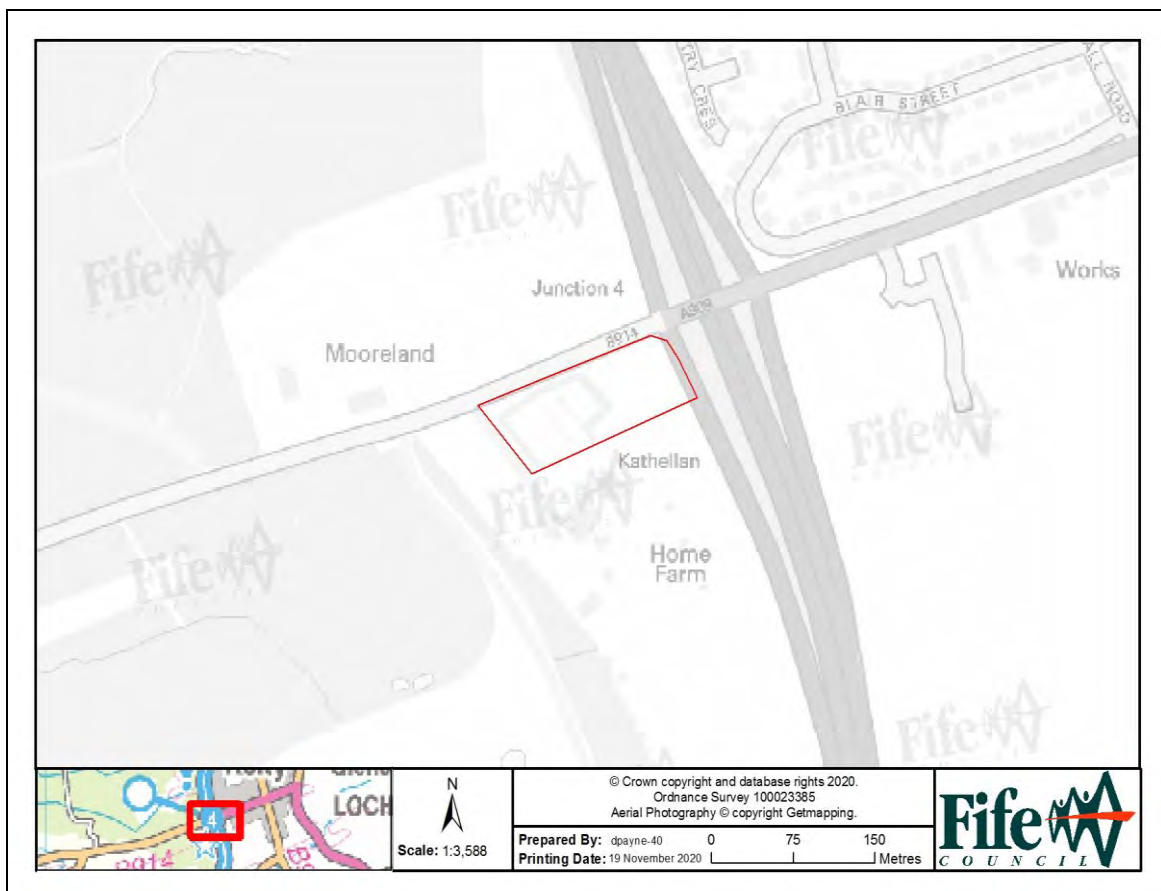


Environmental Enquiry Report

DATE: 19 November 2020 TIME: 09:07

Search Feature ID: EE200065 Home Farm

Approx. area of search feature: 11,831m²
Co-ordinates of centre of site: 313334, 693794



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Summary

Historical maps and data sources held by this office suggest that the site was open, agricultural land, likely associated with Cocklaw Farm to the south. Access to the farm was noted in the east of the site. The 1940s aerial indicates the eastern area of the site was included in some industrial activities (extraction/infilling) before returning to agricultural use (the access to the farm is now noted in the west of the site). A structure, likely residential in use was noted in the west of the site (to the west of the access road) between the 1960s and 1990s. In the mid-to-late 1990s, the farm structures were converted to a commercial premise and by the early 2000s the site is partially occupied by car parking facilities associated with this. No further significant changes to the site were noted.

It should be noted that the information gathered from historical maps is not conclusive as potentially contaminating industries may have come and gone between published map editions.

Should the site be redeveloped, possible contamination issues should be considered given the potential for made/infilled ground associated with the historical activities undertaken in the east of the site. An appropriate contaminated land site-specific risk assessment may be undertaken to ensure the site is suitable for its proposed end use in accordance with PAN 33.

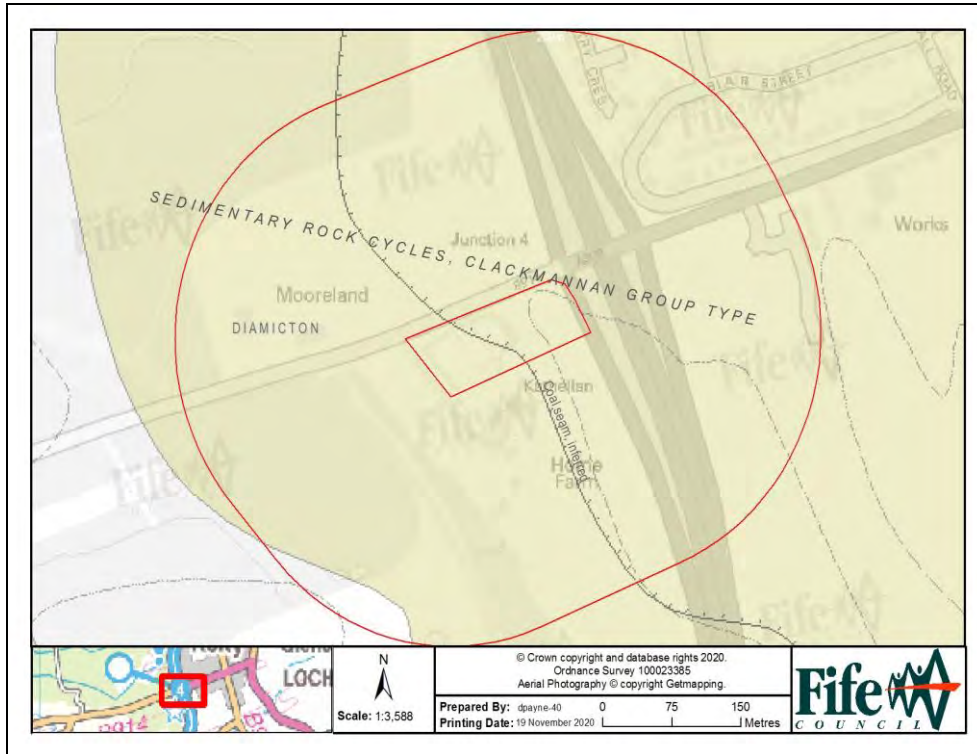
Information on processes permitted by SEPA under PPC or IPPC regulations can be obtained from Scottish Environment Protection Agency, Pentland Court, Saltire Centre, Glenrothes KY6 3DA www.sepa.org.uk.

There are currently no entries on Fife Council's Contaminated Land Register; should we make any entries, they will be posted on www.fifedirect.org.uk/contaminatedland.

Our guidance booklet "Advice for Developing Brownfield Sites in Fife" and our published strategy "Fife Council Contaminated Land Inspection Strategy" are also available online.

Should you require any further information or clarification regarding the contents of this report, please do not hesitate to contact us email contaminated.land@fife.gov.uk.

1. Geological Layers



Derived from 1:50,000 scale BGS Digital Data under Licence 2001/123 British Geological Survey 2020 ©NERC

1.1 Solid Bedrock Geology

1 feature(s) identified on site.

Identified On-site

Record 1 of 1

Geological Period: CARBONIFEROUS
 Bedrock Type: LIMESTONE COAL
 FORMATION - SEDIMENTARY ROCK
 CYCLES, CLACKMANNAN GROUP TYPE

1.2 Linear Geology Features

1 feature(s) identified on site.

Identified On-site

Record 1 of 1

Linear Feature: Coal seam, inferred
 Affected Horizon: COWDENBEATH FIVE
 FOOT COAL

1.3 Superficial Drift Geology

1 feature(s) identified on site.

Identified On-site

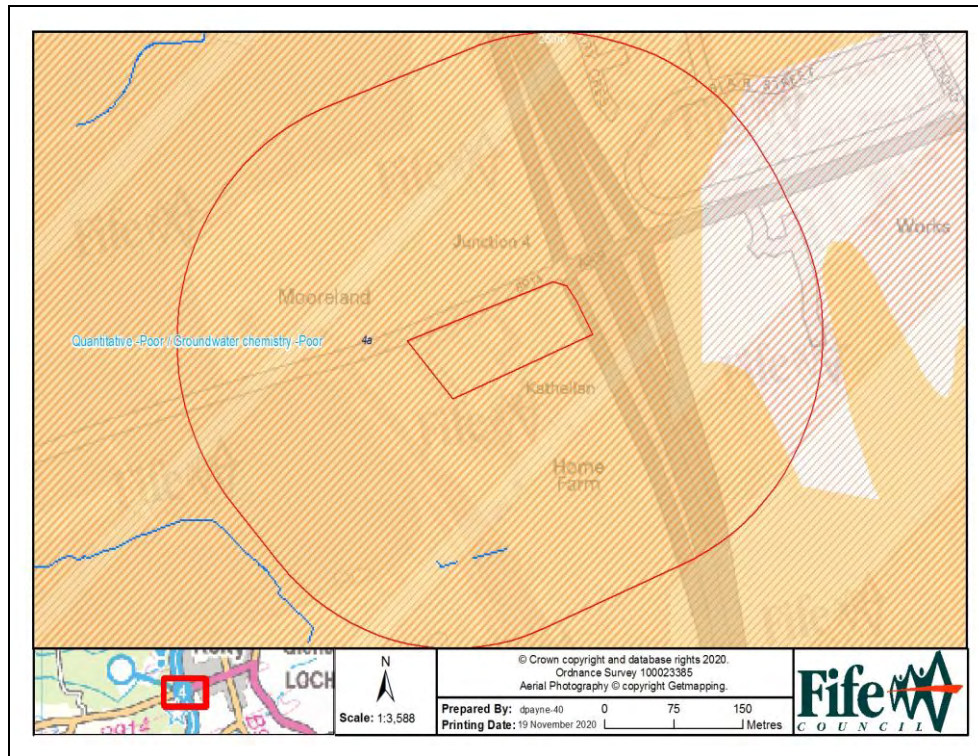
Record 1 of 1

Geological Period: QUATERNARY
 Superficial Cover: TILL, DEVENSIAN -
 DIAMICTON

1.4 Slope Failures

0 feature(s) identified (distance searched-
 250m)

2. Water Environment



Derived from SEPA water quality data, partly based on the CEH Digital Rivers Network 2020 ©SEPA & CEH

2.1 Streams and Ditches

0 feature(s) identified (distance searched - 0m, i.e. on-site)

2.2 River Water Quality

0 feature(s) identified (distance searched- 250m)

2.3 Loch Water Quality

0 feature(s) identified (distance searched- 250m)

2.4 Estuarine Water Quality

0 feature(s) identified (distance searched- 250m)

2.5 Coastal Water Quality

0 feature(s) identified (distance searched- 250m)

2.6 Groundwater Quality

1 feature(s) identified on site.

Identified On-site

Record 1 of 1

Water Body: South Fife bedrock and localised sand and gravel aquifers
Status: Quantitative -Poor / Groundwater chemistry -Poor

2.7 Groundwater Vulnerability

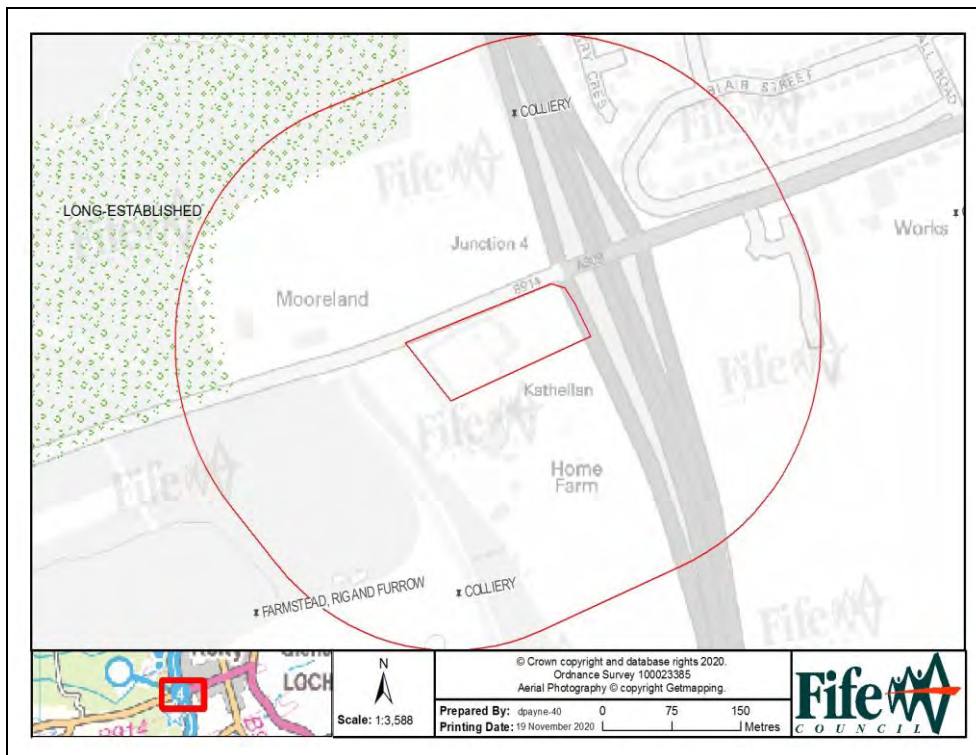
1 feature(s) identified on site.

Identified On-site

Record 1 of 1

Vulnerability Class: 4a
Advice: Vulnerable to those pollutants not readily adsorbed or transformed. Less likely to have clay present in superficial deposits (therefore generally higher vulnerability than 4b).

3. Protected Areas



Derived from Scottish Natural Heritage and Historic Environment Scotland data 2020 ©SNH, HS, RCAHMS

3.1 Natural Heritage Sites

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.2 Private Water Supplies

0 feature(s) identified (distance searched - 250m)

3.3 Smoke Control Zones

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.4 Air Quality Management Areas

0 feature(s) identified (distance searched - 250m)

3.5 Protected Individual Trees

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.6 Tree Preservation Orders

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.7 Areas of Ancient Woodland

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.8 Regional Archaeology

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.9 National Monuments Record

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.10 Scheduled Ancient Monuments

0 feature(s) identified (distance searched - 0m, i.e. on-site)

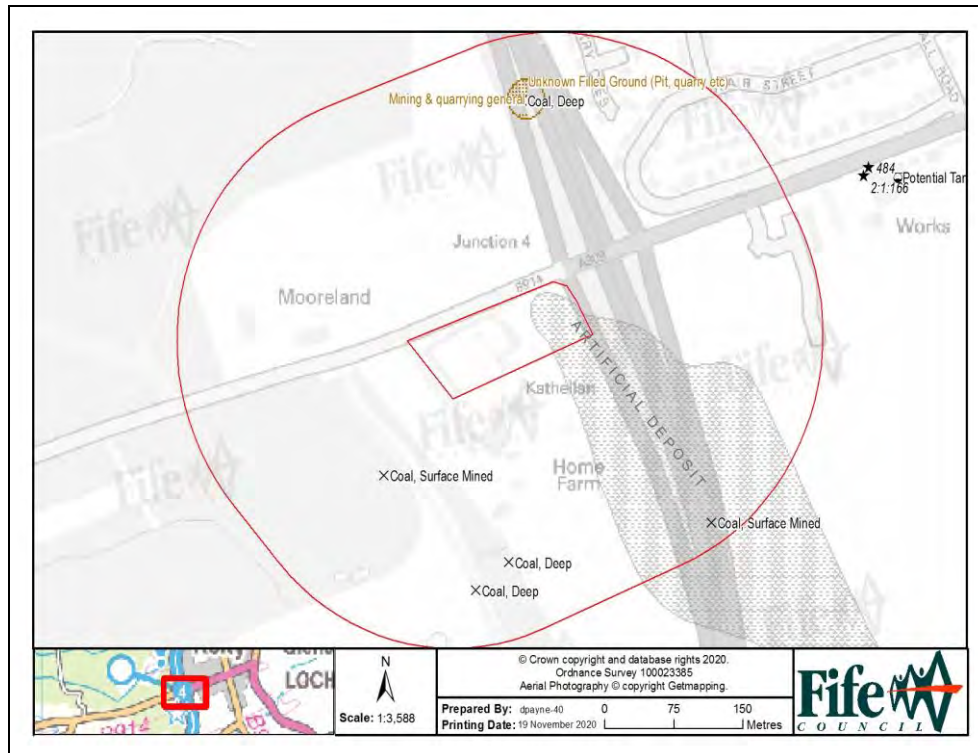
3.11 Listed Buildings

0 feature(s) identified (distance searched - 0m, i.e. on-site)

3.12 Conservation Areas

0 feature(s) identified (distance searched - 0m, i.e. on-site)

4. Former Land Uses



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4.1 Historical Land Uses

0 feature(s) identified on site.
2 feature(s) identified off site within 250 metres

Identified Off-site - Within 250 metre buffer

Record 1 of 2

Map Year: 1896
Land Use: Mining & quarrying general
Approximate distance from site: 166.16m
Feature Area: 1257m²
Grid Ref: 313360, 694034

Record 2 of 2

Map Year: 1989
Land Use: Unknown Filled Ground (Pit, quarry etc)
Approximate distance from site: 166.16m
Feature Area: 1257m²
Grid Ref: 313360, 694034

4.2 Extractive Industries

0 feature(s) identified on site.
5 feature(s) identified off site within 250 metres

Identified Off-site - Within 250 metre buffer

Record 1 of 5

Operating Name: Croftangry Wood Coal Pit
Commodity: Coal, Deep
Approximate distance from site: 184.45m
Grid Ref: 313356, 694032

Record 2 of 5

Operating Name: Oakfield Surface Mine No. 1
Commodity: Coal, Deep
Approximate distance from site: 193.20m
Grid Ref: 313306, 693542

Record 3 of 5

Operating Name: Oakfield Surface Mine No. 2
Commodity: Coal, Deep
Approximate distance from site: 174.63m
Grid Ref: 313342, 693570

Record 4 of 5

Operating Name: Oakfield Opencast Workings
Commodity: Coal, Surface Mined
Approximate distance from site: 107.00m
Grid Ref: 313206, 693657

Record 5 of 5

Operating Name: Oakfield Opencast Workings
Commodity: Coal, Surface Mined
Approximate distance from site: 228.00m
Grid Ref: 313562, 693610

4.3 Artificial Made Ground

1 feature(s) identified on site.
0 feature(s) identified off site within 250 metres

Identified On-site**Record 1 of 1**

Geological Period:
Nature of Fill: INFILLED GROUND - ARTIFICIAL DEPOSIT
Feature Area: 73212m²
Grid Ref: 313567, 693626

4.4 Waste Management Records

0 feature(s) identified (distance searched-250m)

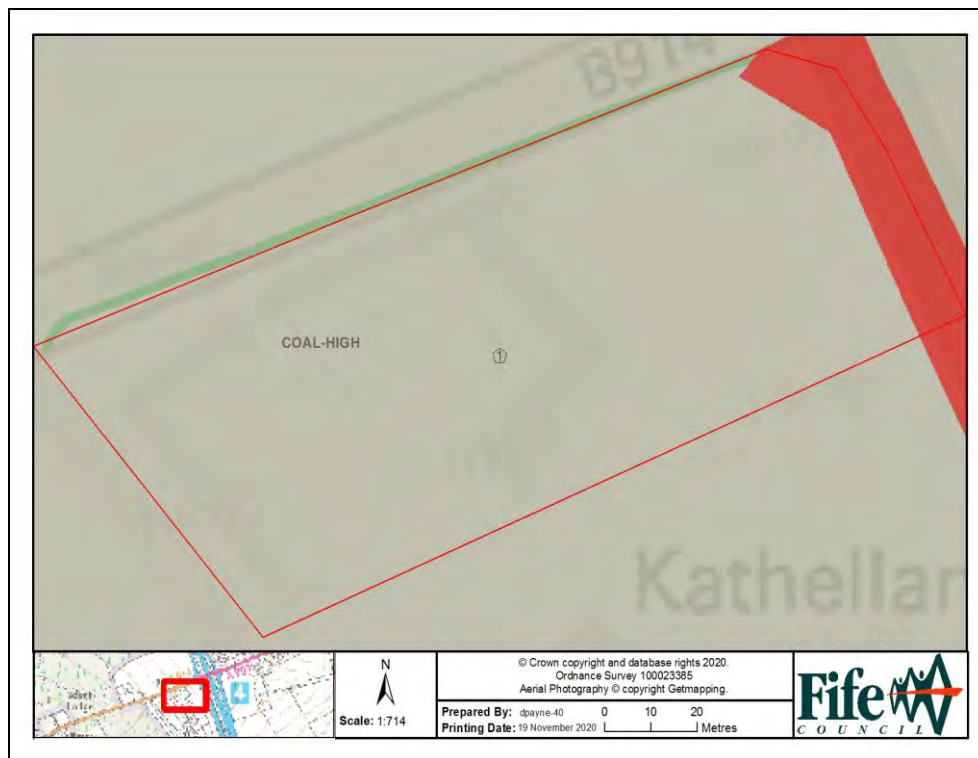
4.5 Historical Energy Facilities

0 feature(s) identified (distance searched-250m)

4.6 Derelict Fuel Tanks

0 feature(s) identified (distance searched-250m)

5. Stakeholder Information



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5.1 Radon Potential

The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). The property is not in a radon-affected area.

The estimated radon potential for properties can be obtained through the website www.UKradon.org or by contacting the council's Building Standards & Safety team.

5.2 Coal Authority Consultation Areas

1 feature(s) identified on site.

Identified On-site

Record 1 of 1

Advice: Development High Risk Area, which means the site lies within a Referral Area for the Coal, so the Coal Authority should be contacted

For further information contact The Coal Authority, 200 Lichfield Lane, Mansfield, NG18 4RG or online at www.groundstability.com.

5.3 Flood Risk from the Sea

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.4 Flood Risk from Rivers

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.5 Pipeline Consultations Zones

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.6 Hazard Consultation Zones

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.7 Indicative Council Ownership

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.8 Authorised Processes

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.9 Vacant or Derelict Land

0 feature(s) identified (distance searched - 0m, i.e. on-site)

5.10 Planning Applications

2 feature(s) identified on site.

Identified On-site

Record 1 of 2

Planning Reference:

Decision: Application Permitted with Conditions

Proposal: Outline planning application for the erection of a 50 bedroom hotel and conference centre, 5 tourism retail units, a micro-brewery, children's outdoor and indoor play areas and holiday chalets, all with associated coach and car parking and hard and soft landscaping

Record 2 of 2

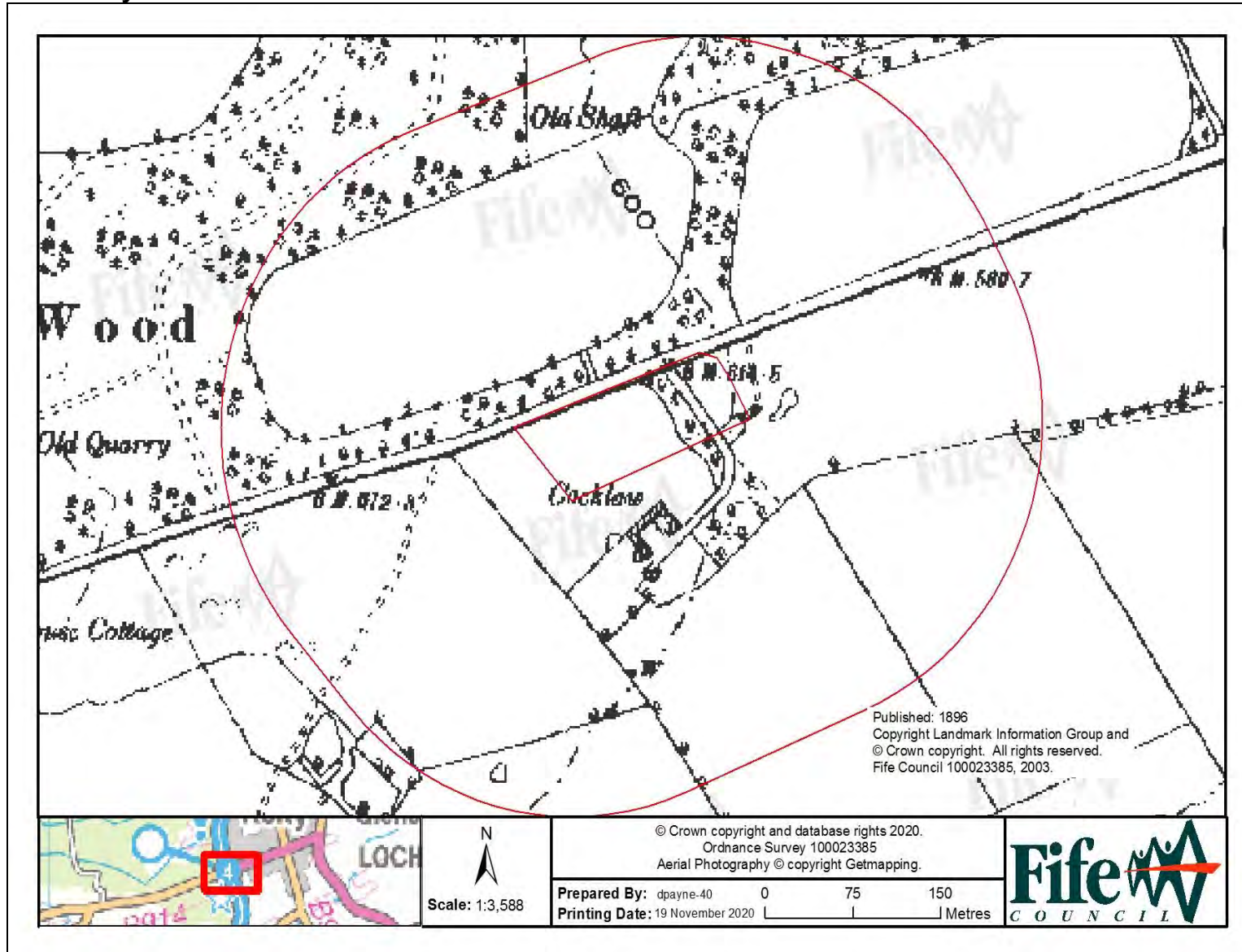
Planning Reference: 01/02315/WFULL

Decision: Application Permitted with Conditions

Proposal: Extension to the premises to provide additional retail sales space with associated alterations to the access road, additional car parking and landscaping

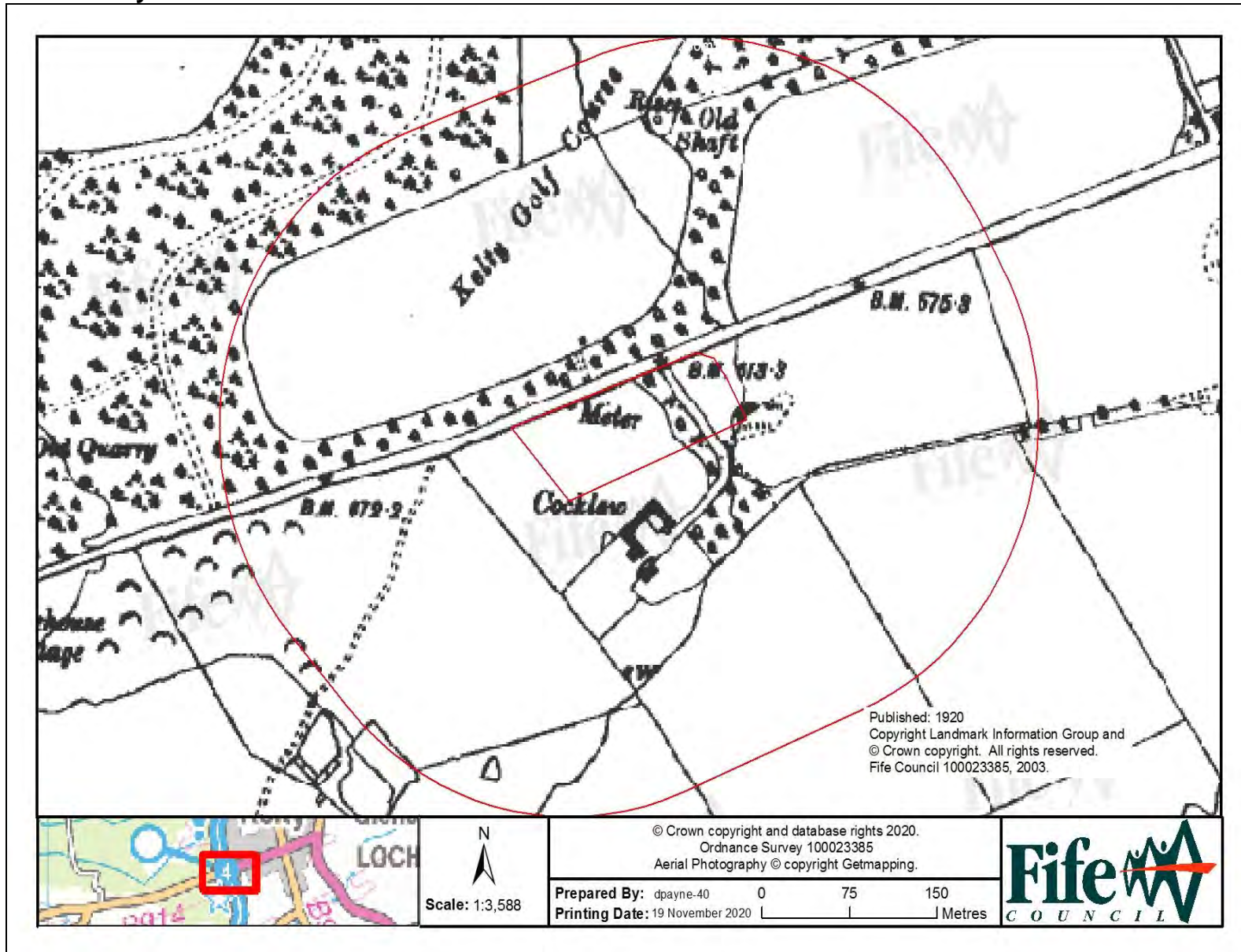
Appendix A Selected Historical Maps

1890s Ordnance Survey

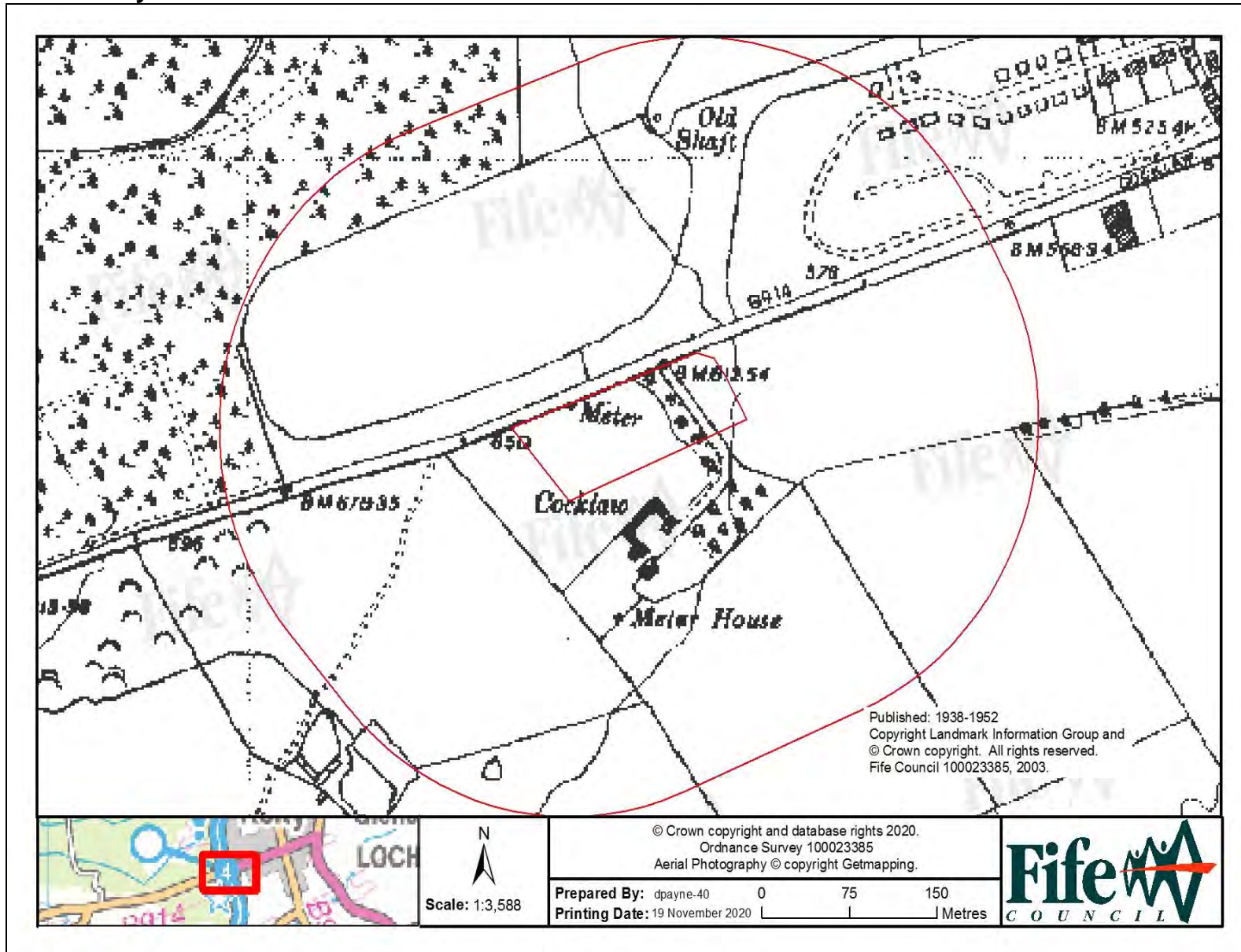


The Land & Air Quality Team prepared this report using STM MapEagle v.5.5.0.0.

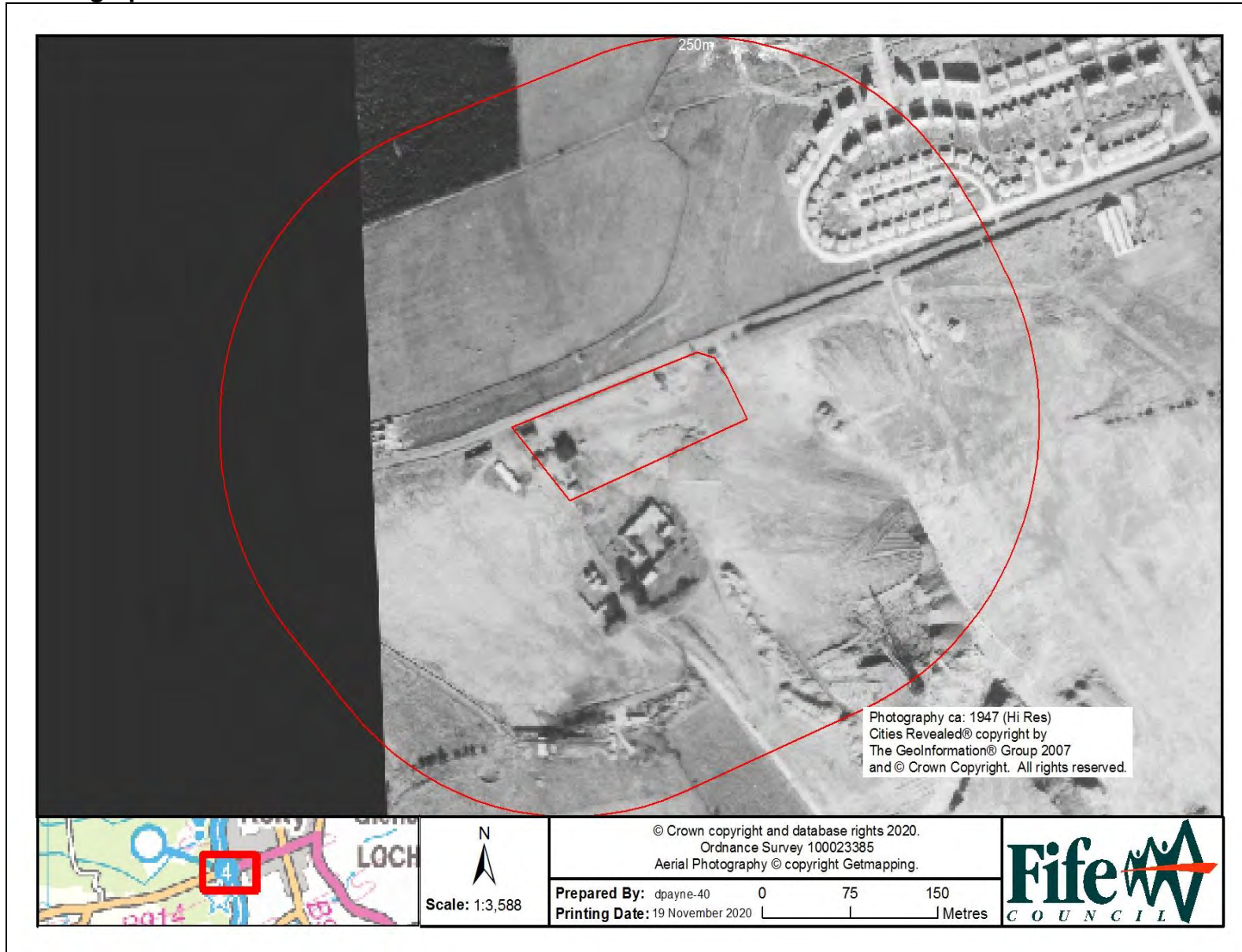
1920s Ordnance Survey



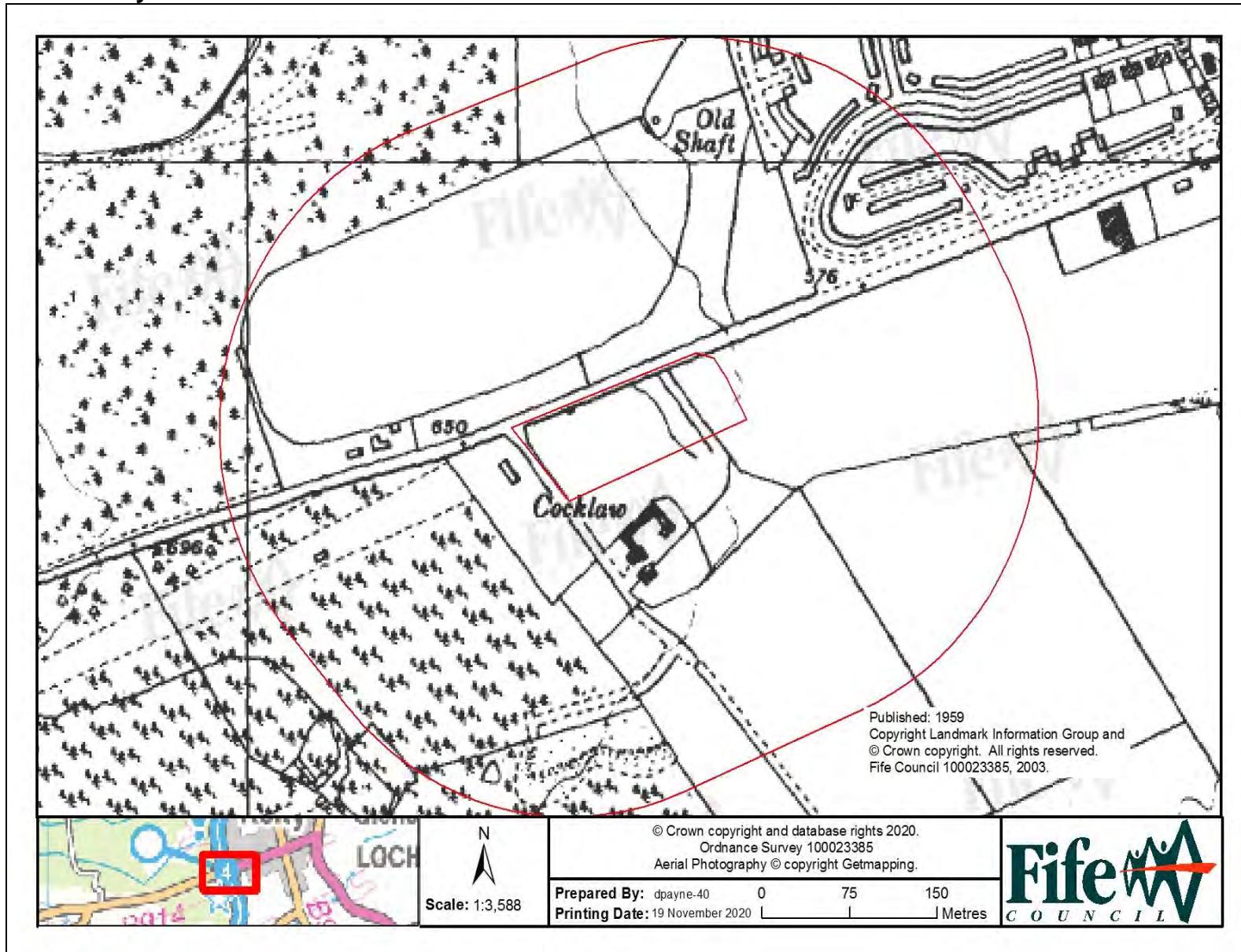
1940s Ordnance Survey



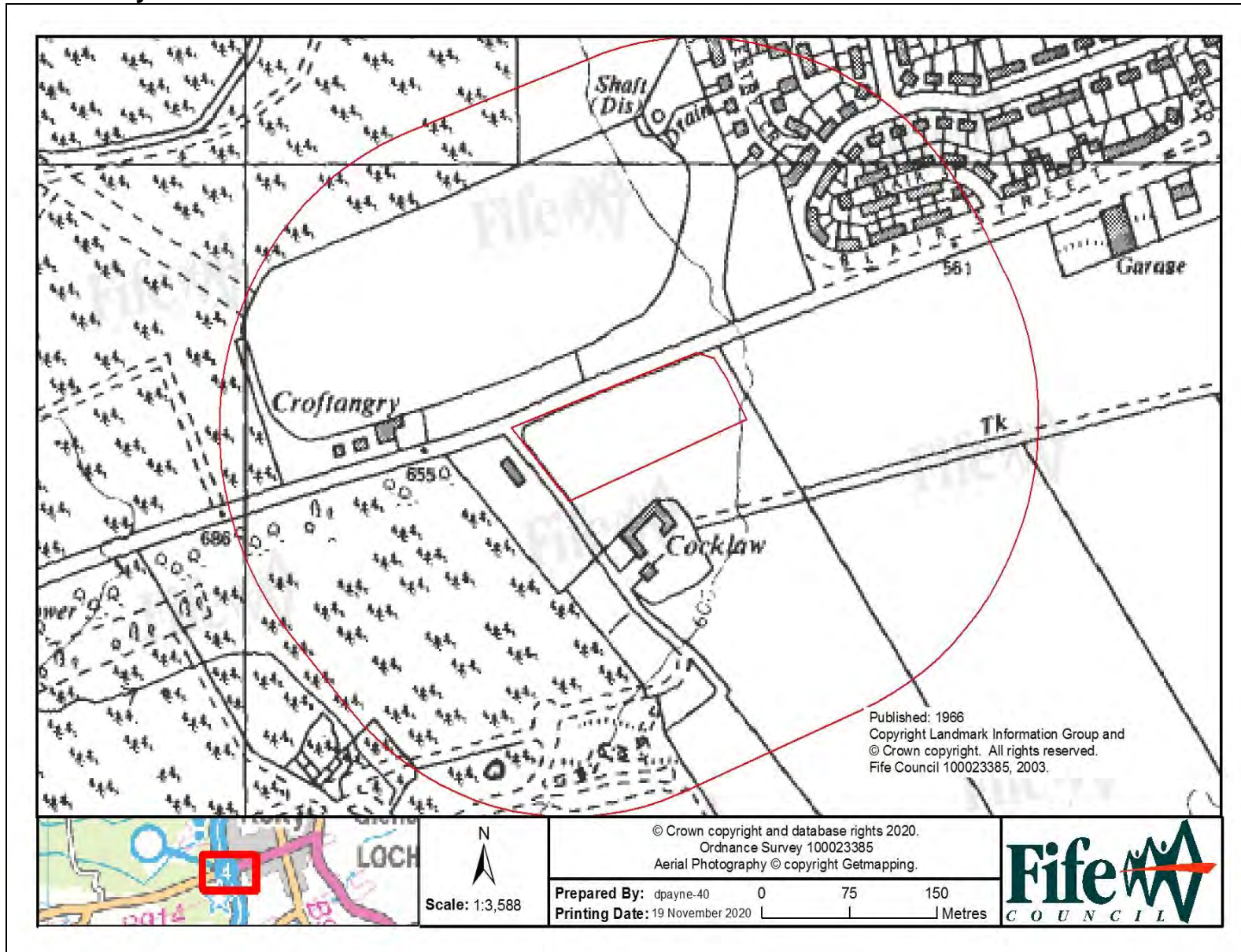
1940s Aerial Photograph



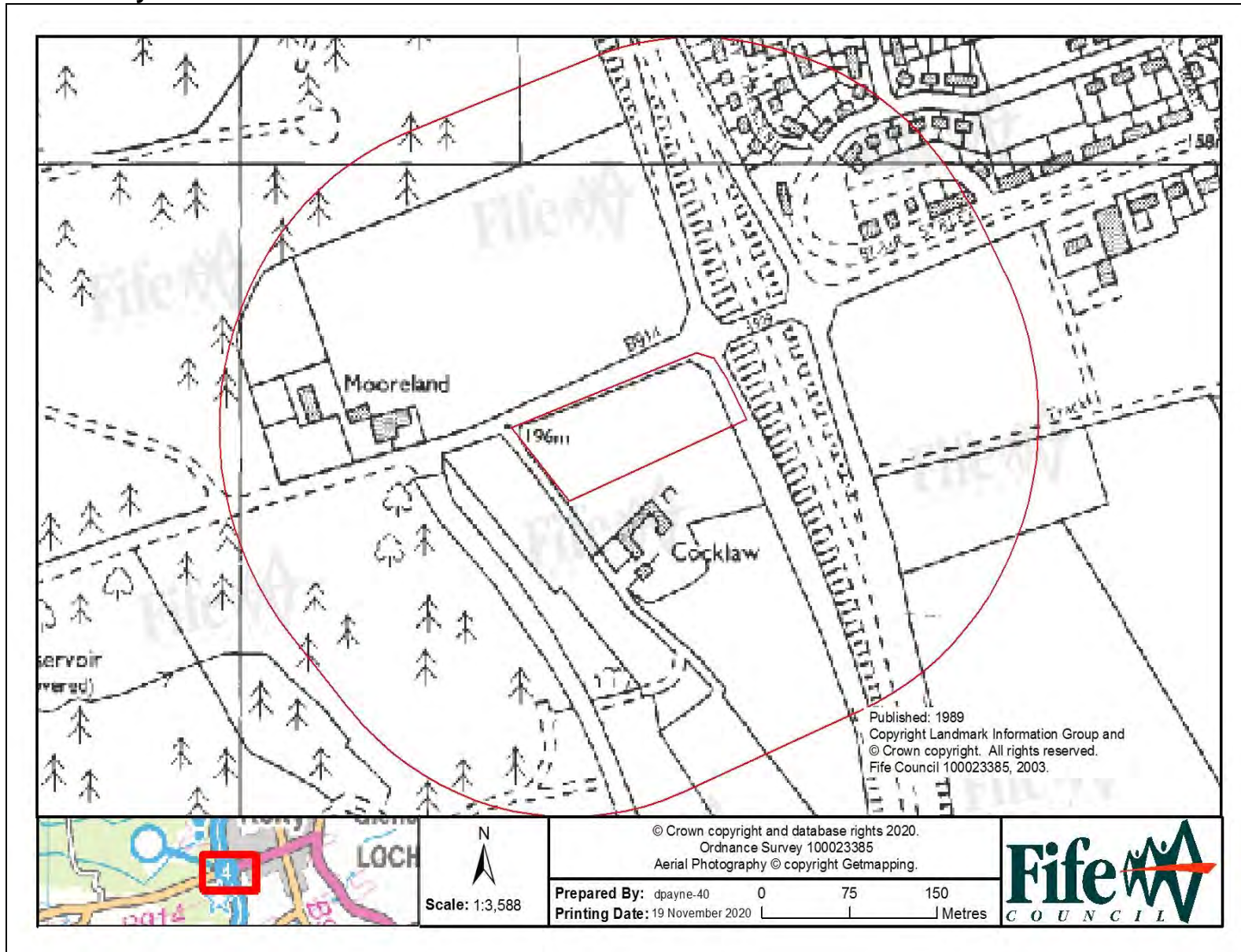
1950s Ordnance Survey



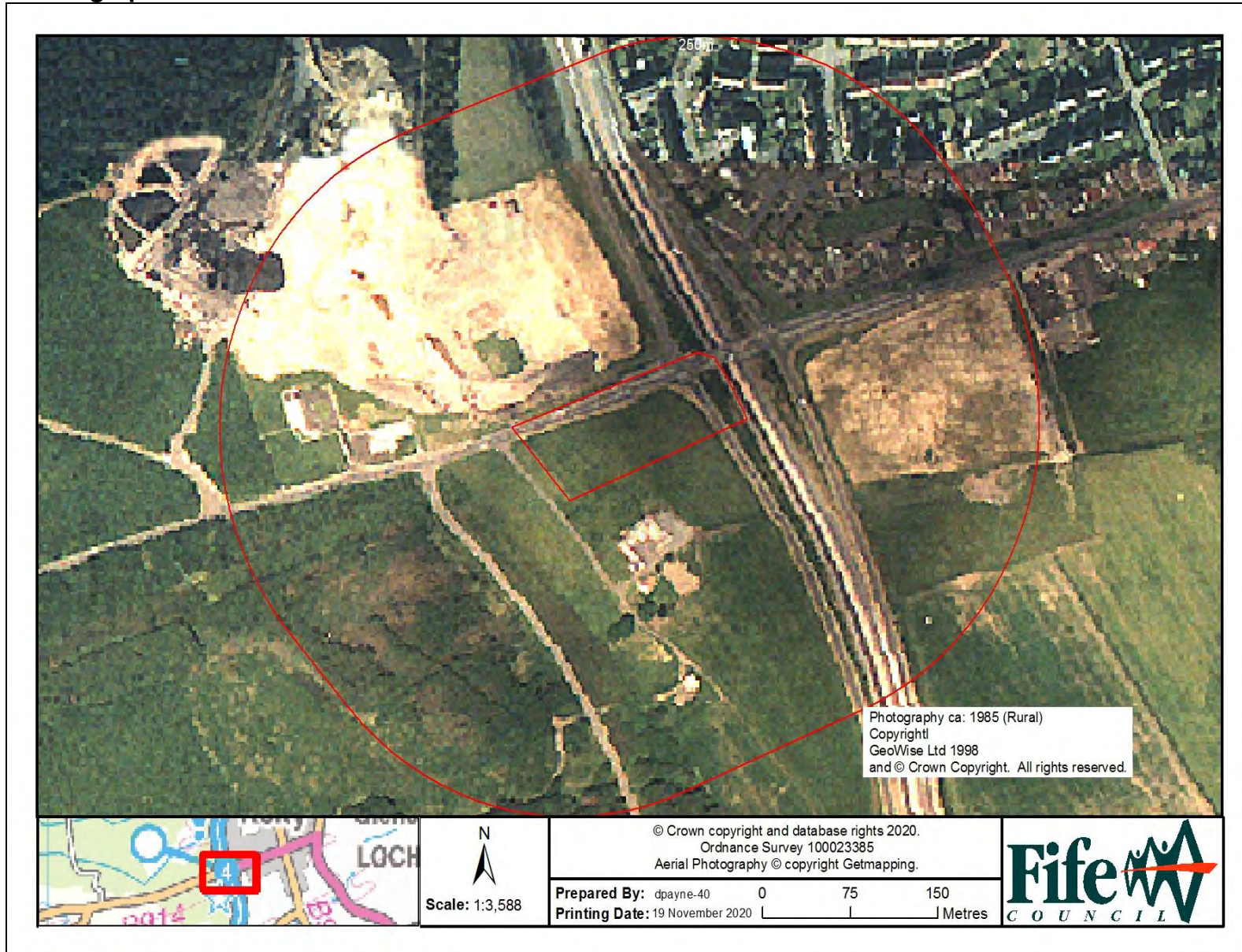
1970s Ordnance Survey



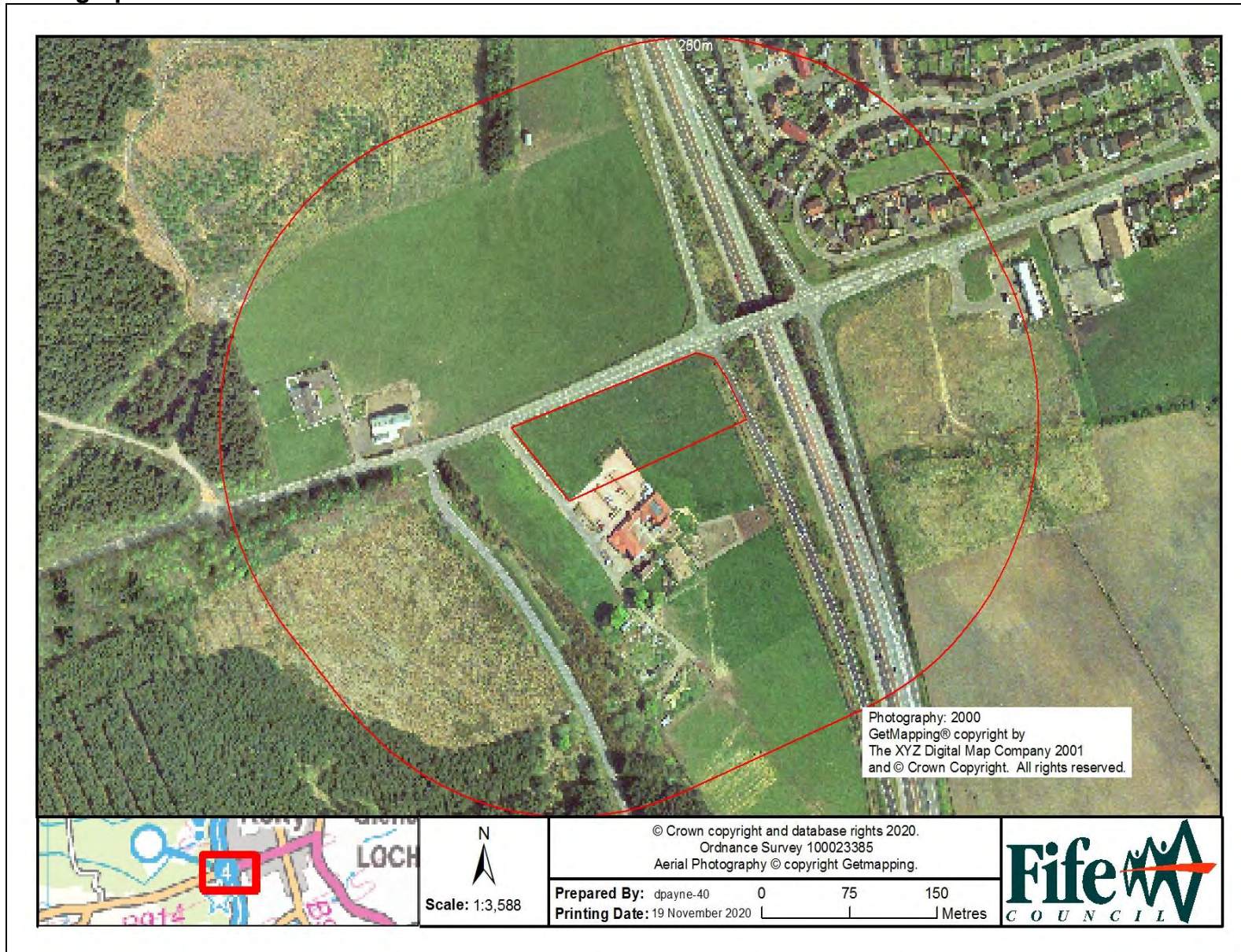
1980s Ordnance Survey



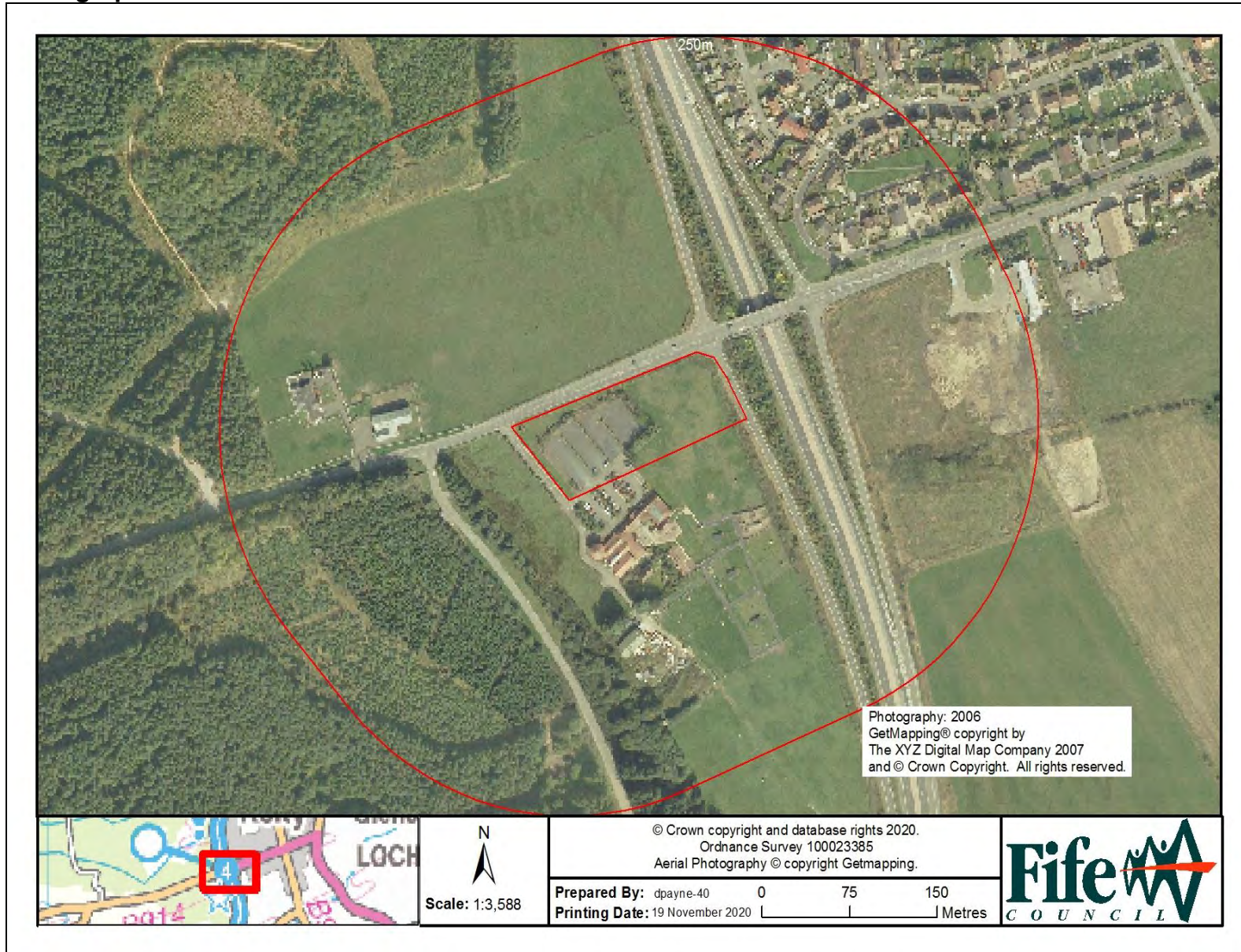
1980s Aerial Photograph



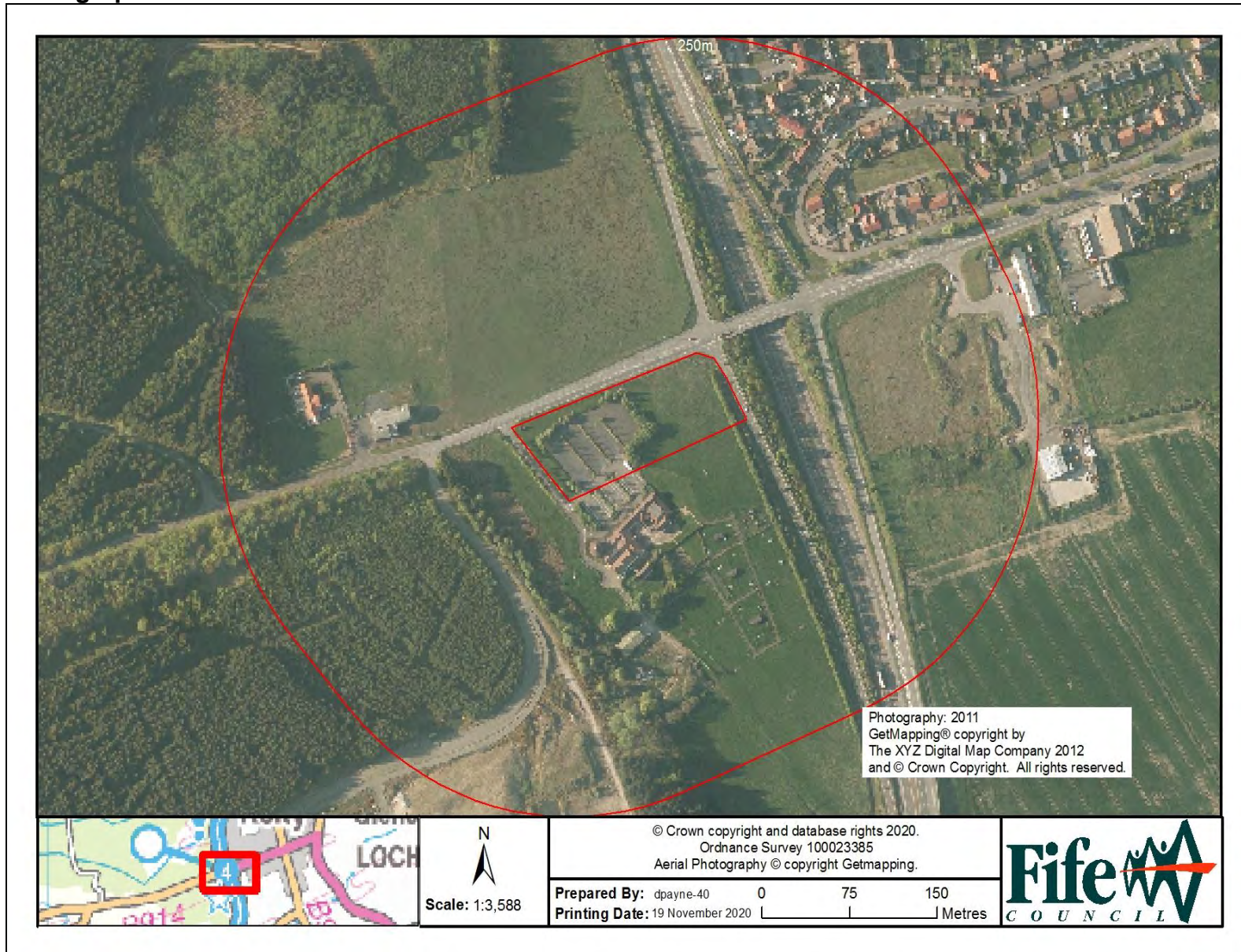
2000 Aerial Photograph



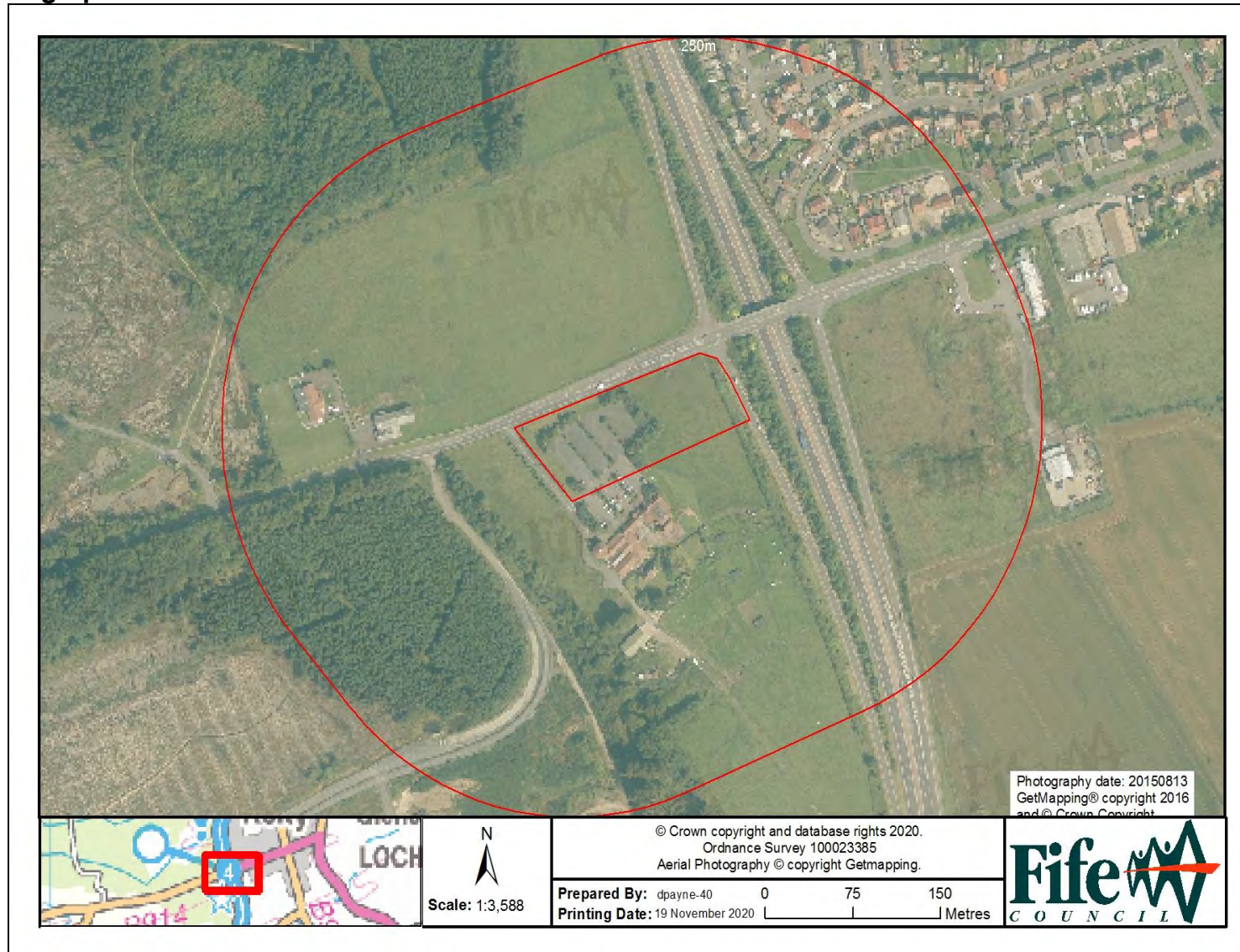
2006 Aerial Photograph



2011 Aerial Photograph



2015 Aerial Photograph



END OF REPORT

APPENDIX 3

Envirocheck Report



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

267464434_1_1

Customer Reference:

GA 14681

National Grid Reference:

313330, 693800

Slice:

A

Site Area (Ha):

1.11

Search Buffer (m):

1000

Site Details:

Proposed Development Site

Kelty

KY4 0JR

Client Details:

Mr D Miller

Dam Geotechnical Services

Glenfield House

69 Glasgow Road

Dumbarton

G82 1RE



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	15
Hazardous Substances	-
Geological	17
Industrial Land Use	27
Sensitive Land Use	30
Data Currency	31
Data Suppliers	35
Useful Contacts	36

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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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 4			1	3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 5				3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 5				1
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 5	Yes	n/a	n/a	n/a
Drift Deposits	pg 5	1	n/a	n/a	n/a
Source Protection Zones					
River Flood Data (Scotland)				n/a	n/a
OS Water Network Lines	pg 5		1	16	66
Waste					
BGS Recorded Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 15	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 15		1	3	12
Potentially Infilled Land (Water)	pg 16			1	
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 18		5	8	31
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 26	Yes	n/a	n/a	n/a
Mining Instability	pg 26	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 26	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 26	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 26	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			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 27		2	7	11
Fuel Station Entries					
Points of Interest - Commercial Services	pg 28			1	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 29		2	1	3
Points of Interest - Public Infrastructure	pg 29				3
Points of Interest - Recreational and Environmental	pg 29				2
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 30		1		
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
National Scenic Areas					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (S)	0	1	313330 693797
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	201	1	313200 693550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	224	1	313100 693600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	282	1	313600 694050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	292	1	313550 694100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	317	1	313500 694150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	319	1	313650 694050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	320	1	313600 694100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	331	1	313700 694000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	350	1	313400 694200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	352	1	313330 694200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	353	1	313650 694100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	353	1	313750 693950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	354	1	313450 694200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	359	1	313150 693400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	375	1	313750 694000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	376	1	313700 693550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	381	1	313650 693500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	382	1	313550 694200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	385	1	313330 693350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	385	1	313750 693600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	389	1	313700 694100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	390	1	313650 694150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	398	1	313600 693450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	399	1	313500 693400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	400	1	313750 694050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	400	1	313350 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	400	1	313400 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	402	1	313330 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	403	1	313450 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	404	1	313600 694200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	406	1	313800 693650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	409	1	313300 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	413	1	313500 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	414	1	313750 693550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	420	1	313800 694000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	422	1	313550 693400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	423	1	313650 693450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	424	1	313100 693350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	424	1	313700 694150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	428	1	313750 694100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	428	1	313550 694250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	428	1	313800 693600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	430	1	313650 694200



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	A14SW (E)	437	1	313850 693700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	443	1	313800 694050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	443	1	313500 693350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	447	1	313850 693950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	447	1	313750 693500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	450	1	313350 694300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	450	1	313400 694300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	452	1	313850 693650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	454	1	313800 693550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	465	1	313850 694000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	467	1	313550 693350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	467	1	313450 693300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	472	1	313850 693600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	479	1	312850 693500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	482	1	313900 693900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	483	1	313700 693400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	486	1	313900 693700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	487	1	313500 693300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	489	1	313600 693350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	491	1	313050 693300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	494	1	313900 693950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	494	1	313600 694300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	499	1	313900 693650
1	Discharge Consents Operator: Expromin Ltd Property Type: Not Given Location: Site Huts, Moorelands Occs , KELTY Authority: Scottish Environment Protection Agency, East Region Catchment Area: Not Given Reference: 6231 Permit Version: 1 Effective Date: Not Supplied Issued Date: 14th May 1992 Revocation Date: Not Supplied Discharge Type: Septic tank Discharge Environment: Freshwater Stream/River Receiving Water: River Leven to River B Devon Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	350	2	312900 693900
2	Discharge Consents Operator: Fenton Solid Fuels.. Property Type: Not Supplied Location: Lassodie Mine Occs Cantsdam Road Kelty Authority: Scottish Environment Protection Agency, East Region Catchment Area: River Leven Reference: Wpc/E/6565 Permit Version: 1 Effective Date: Not Supplied Issued Date: 24th November 1993 Revocation Date: Not Supplied Discharge Type: Trade: Opencast Coal Site Discharge Environment: Not Supplied Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (SE)	691	2	314040 693490
3	Discharge Consents Operator: Not Supplied Property Type: Not Supplied Location: Smallholding No 2 & No 4 Blairadam Forest Clentry By Kelty, Ky4 0jq Authority: Scottish Environment Protection Agency, East Region Catchment Area: Not Supplied Reference: Wpc/E/20961 Permit Version: 1 Effective Date: Not Supplied Issued Date: 12th September 2000 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage: Septic Tank Discharge Environment: Not Supplied Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	808	2	312700 694400
4	Discharge Consents Operator: Forest Enterprise Property Type: Not Supplied Location: Blairadam Forest Clentry Forest Store Kelty Authority: Scottish Environment Protection Agency, East Region Catchment Area: Not Supplied Reference: Wpc/E/20835 Permit Version: 1 Effective Date: Not Supplied Issued Date: 10th March 2000 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage: Septic Tank Discharge Environment: Not Supplied Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	917	2	312900 694650



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: The Scottish Coal Co Ltd Location: St Ninians Open Cast Coal Site, Lassodie, KELTY, Fife, KY4 Authority: Scottish Environment Protection Agency, East Region Permit Reference: Apc/E/0020057 Dated: 10th October 1997 Process Type: Local Authority Air Pollution Control Description: Not Supplied Status: Not Supplied Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	577	2	313869 693438
6	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Kelty Coaches Location: Union Street, KELTY, Fife, KY4 0EE Authority: Scottish Environment Protection Agency, East Region Permit Reference: WOB/5/92 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location</p>	A19SW (NE)	649	2	313927 694232
7	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: K H Bennetto Location: Kelty Coaches, Central Garage, Union Street, KELTY, Fife, KY4 Authority: Scottish Environment Protection Agency, East Region Permit Reference: APC/E/505 Dated: 10th August 1993 Process Type: Local Authority Air Pollution Control Description: Part B process (no specific reference) Status: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location</p>	A19NW (NE)	784	2	313882 694468
	Nearest Surface Water Feature	A13SE (S)	160	-	313340 693585
	<p>River Quality</p> <p>Name: Not Supplied GQA Grade: River Quality A Reach: Not Supplied Estimated Distance (km): Not Supplied Flow Rate: Not Supplied Flow Type: Not Supplied Year: 1990</p>	A18SW (N)	581	3	313237 694415
	<p>Groundwater Vulnerability</p> <p>Geological Classification: Minor or Moderately Permeable Aquifer - Fractured or potentially fractured rocks which do not have a high primary permeability or other formations of variable permeability Soil Classification: Not classified Map Sheet: Map of Scotland Scale: 1:625,000</p>	A13NW (S)	0	3	313330 693797
	<p>Drift Deposits</p> <p>Drift Deposit: Low permeability drift deposits which include till, head, peat, lacustrine deposits, clay-with-flints and brick earths Map Sheet: Map of Scotland Scale: 1:625,000</p>	A13NW (S)	0	3	313330 693797
	River Flood Data (Scotland) None				
8	<p>OS Water Network Lines</p> <p>Watercourse Form: Inland river Watercourse Length: 39.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1</p>	A13SE (S)	160	4	313340 693585
9	<p>OS Water Network Lines</p> <p>Watercourse Form: Inland river Watercourse Length: 91.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1</p>	A13SW (SW)	265	4	313077 693564



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 494.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A13SW (SW)	270	4	313046 693591
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A13SW (SW)	270	4	313046 693591
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 408.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A13SW (SW)	271	4	313106 693526
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 429.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A13SW (SW)	282	4	313038 693581
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NE (W)	308	4	312943 693897
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A12NE (W)	325	4	312913 693846
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NE (W)	325	4	312913 693846
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A13NW (NW)	331	4	313064 694079
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A13NW (NW)	364	4	313023 694092



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 398.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A13NW (NW)	365	4	313023 694092
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NE (W)	411	4	312852 693945
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 130.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NE (W)	420	4	312839 693938
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NE (W)	434	4	312802 693839
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A14NW (E)	475	4	313868 693984
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 185.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A8NE (S)	495	4	313399 693254
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1036.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A8NE (SE)	507	4	313624 693342
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NE (W)	531	4	312716 693912
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A14NW (E)	542	4	313935 693998



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 512.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A14NW (E)	547	4	313939 693999
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NW (W)	600	4	312635 693829
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NW (W)	612	4	312629 693891
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	622	4	312715 694139
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 485.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12NW (W)	626	4	312637 693985
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	627	4	312729 694164
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	634	4	312866 694311
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 205.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	644	4	312936 694366
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A8NE (S)	661	4	313520 693118



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 705.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A8NE (S)	662	4	313527 693120
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	678	4	312872 694368
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	690	4	312838 694360
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	690	4	312838 694360
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 299.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A7NE (SW)	690	4	312669 693390
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7NE (SW)	690	4	312669 693390
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 264.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12SW (W)	702	4	312580 693533
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 289.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12SW (SW)	707	4	312599 693475
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A18NW (NW)	710	4	313007 694469



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 297.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	719	4	312713 694289
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SE (NW)	767	4	312854 694461
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	769	4	312971 694518
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	785	4	312958 694530
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	785	4	312958 694530
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	787	4	312877 694496
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12SW (W)	810	4	312426 693728
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A9NE (SE)	816	4	314134 693401
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A18NW (N)	842	4	313127 694651



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.0 Watercourse Level: Underground Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A18NW (N)	857	4	313192 694685
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	861	4	312901 694590
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A18NW (N)	865	4	313026 694639
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A18NW (N)	865	4	313026 694639
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A18NW (N)	880	4	313047 694663
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A18NW (N)	880	4	313047 694663
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A18NW (N)	885	4	312997 694651
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SW (NW)	894	4	312432 694188
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SW (NW)	897	4	312432 694195



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	908	4	312904 694642
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	922	4	312956 694675
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7NW (SW)	924	4	312535 693182
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17SW (NW)	930	4	312392 694189
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SW (NW)	930	4	312392 694189
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 239.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A18NW (N)	934	4	313273 694777
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A17NE (NW)	941	4	312919 694682
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A11NE (W)	944	4	312308 693977
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: Underground Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SW (W)	944	4	312374 694182



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7NW (SW)	949	4	312531 693147
74	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 334.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7SE (SW)	949	4	312828 692899
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A17SW (W)	950	4	312364 694175
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A17SW (NW)	958	4	312371 694209
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12SW (W)	964	4	312325 693466
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A9NE (SE)	966	4	314213 693247
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 791.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A9NE (SE)	968	4	314216 693248
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A17NE (N)	970	4	312972 694731
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A12SW (W)	971	4	312320 693457



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	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: River Leven (Fife) Primacy: 2	A17NE (N)	973	4	312984 694740
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 284.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7NW (SW)	976	4	312377 693320
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A17NE (N)	977	4	312981 694743
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 323.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7NW (SW)	982	4	312374 693312
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A23SE (N)	988	4	313477 694834
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A7NW (SW)	989	4	312381 693286
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 1	A11SE (W)	997	4	312289 693469
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Leven (Fife) Primacy: 2	A23SE (N)	999	4	313460 694847
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Drumnagoil Burn Catchment Name: River Leven (Fife) Primacy: 1	A11NE (W)	1000	4	312266 694047



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Fife Council - Has supplied landfill data		0	5	313330 693797
91	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13NE (N)	186	-	313360 694034
92	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A12SE (W)	423	-	312811 693774
93	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14SW (E)	445	-	313850 693672
94	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NW (E)	493	-	313900 693946
95	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NW (NE)	519	-	313886 694050
96	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A12SE (W)	544	-	312695 693708
97	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A12NE (W)	598	-	312679 694016
98	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SE (N)	611	-	313501 694452
99	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SE (N)	619	-	313547 694450
100	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SW (NE)	668	-	313997 694160
101	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SW (NE)	669	-	313991 694172
102	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SW (NE)	686	-	313726 694452
103	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SW (NE)	691	-	313825 694395
104	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14SE (E)	726	-	314089 693512
105	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14SE (E)	727	-	314088 693505
106	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A9SW (SE)	880	-	313741 692983



Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A19SW (NE)	448	-	313736 694148



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Clackmannan Group	A13NW (S)	0	1	313330 693797
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (S)	0	1	313330 693797
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	210	1	313198 693541
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	362	1	313332 693376
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (SE)	467	1	313568 693359
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	548	1	313489 693228
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	573	1	314000 693797



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium no data</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A7NE (SW)	625	1	312787 693347
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium no data</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A19NW (NE)	710	1	313738 694474
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium no data</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18NW (N)	898	1	313248 694737
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium no data</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A9SW (SE)	961	1	313746 692894
108	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Opencast Workings</p> <p>Location: Kelty, Fife</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 182272</p> <p>Type: Underground</p> <p>Status: Ceased</p> <p>Operator: Individual'S Name Withheld</p> <p>Operator Location: Not Supplied</p> <p>Periodic Type: Carboniferous</p> <p>Geology: Dunfermline Splint Coal (Fife)</p> <p>Commodity: Coal - Opencast</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	107	1	313206 693657
109	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Surface Mine No. 2</p> <p>Location: Kelty, Fife</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 182265</p> <p>Type: Underground</p> <p>Status: Ceased</p> <p>Operator: Individual'S Name Withheld</p> <p>Operator Location: Not Supplied</p> <p>Periodic Type: Carboniferous</p> <p>Geology: Dunfermline Splint Coal (Fife)</p> <p>Commodity: Coal - Deep</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	176	1	313342 693570



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Surface Mine No. 1 Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182264 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Dunfermline Splint Coal (Fife) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A13SW (S)	194	1	313306 693542
110	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Croftangry Wood Coal Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108899 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	185	1	313356 694032
111	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Opencast Workings Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182273 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cowdenbeath Five Foot Coal (Fife) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A13SE (SE)	240	1	313562 693610
112	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Opencast Workings Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182274 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Mynheer Coal (Fife) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	338	1	313740 693683
113	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Thornton Wood Surface Mine Location: Lassodie, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 120649 Type: Opencast Status: Ceased Operator: Grant Construction Services Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hawkcraig Point Sill Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	416	1	313025 693405
114	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Whitehouse Wood Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108890 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous, Permian Geology: Hawkcraig Point Sill Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	420	1	312813 693774



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108924 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	439	1	313844 693674
116	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108900 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (E)	440	1	313850 693926
117	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108923 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	462	1	313885 693748
118	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108901 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	486	1	313845 694056
119	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108920 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (E)	493	1	313898 693954
120	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Opencast Workings Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182275 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Glassee Coal (Fife) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	524	1	313879 693544



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Mooreland Occs Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 1947 Type: Opencast Status: Ceased Operator: Expromin Ltd Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	532	1	312950 694245
122	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Whitehouse Wood Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 23343 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous, Permian Geology: Hawkcraig Point Sill Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	544	1	312694 693721
123	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blairenbathie Quarry Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108889 Type: Underground Status: Ceased Operator: Carlingnose Granite Co. Operator Location: Not Supplied Periodic Type: Carboniferous, Permian Geology: Hawkcraig Point Sill Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m</p>	A12NE (W)	593	1	312684 694016
124	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blackhall Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108905 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	594	1	313871 694214
125	<p>BGS Recorded Mineral Sites</p> <p>Site Name: North Lassodie No. 1 Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 1926 Type: Underground Status: Ceased Operator: J. Fenton & Sons (Contractors) Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	598	1	313884 693424
125	<p>BGS Recorded Mineral Sites</p> <p>Site Name: North Lassodie Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182269 Type: Underground Status: Ceased Operator: J. Fenton & Sons (Contractors) Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	620	1	313884 693390



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	<p>BGS Recorded Mineral Sites</p> <p>Site Name: North Lassodie No. 2 Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 29602 Type: Underground Status: Ceased Operator: J. Fenton & Sons (Contractors) Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	622	1	313918 693428
126	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blairadam Colliery No. 2 Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108907 Type: Underground Status: Ceased Operator: Fife Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Dunfermline Splint Coal (Fife) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	631	1	313556 694461
127	<p>BGS Recorded Mineral Sites</p> <p>Site Name: North Lassodie Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182270 Type: Underground Status: Ceased Operator: J. Fenton & Sons (Contractors) Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	634	1	313880 693366
128	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lassodie Mill Colliery Pit No 3 Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108963 Type: Underground Status: Ceased Operator: Rosewell Gas Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	655	1	314081 693837
129	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108902 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	664	1	313988 694167
130	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blackhall Coal Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108903 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	691	1	313815 694403



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Keltyhill Wood Coal Pit Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108913 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	691	1	313208 694517
132	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Keltyhill Wood Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 176081 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	706	1	313050 694479
133	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Oakfield Coal Pit Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108921 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14SE (E)	715	1	314075 693508
134	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lassodie Mill Colliery No 2 Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182266 Type: Underground Status: Ceased Operator: Rosewell Gas Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Kelty Main Coal (Fife) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	748	1	313864 693202
134	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lassodie Mill Colliery No 2 Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182267 Type: Underground Status: Ceased Operator: Rosewell Gas Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Kelty Main Coal (Fife) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	780	1	313859 693159
135	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blackhall Coal Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108912 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19NW (NE)	758	1	313820 694481



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
136	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Keltyhill Wood Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 23345 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	794	1	313034 694567
137	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Kelty Colliery Pit Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108909 Type: Underground Status: Ceased Operator: Fife Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19NW (NE)	801	1	313739 694574
138	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lassodie Mill Colliery No 2 Mine Location: Lower Oakfield, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108925 Type: Underground Status: Ceased Operator: Rosewell Gas Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	802	1	313934 693188
139	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Thornton Wood Occs (Old) Location: Lassodie, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 29576 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	805	1	312950 693000
140	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lassodie Mill Colliery Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182271 Type: Underground Status: Ceased Operator: Rosewell Gas Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	825	1	313711 693030
141	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blairadam Opencast Site Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 255390 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Glassee Coal (Fife) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19NW (NE)	851	1	313700 694645



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Blairadam Blaes Quarry Location: Keltyhill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 255389 Type: Opencast Status: Ceased Operator: Fife Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A19NW (NE)	860	1	313725 694645
142	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Keltyhill Coal Works Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 108911 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	861	1	313159 694680
143	<p>BGS Recorded Mineral Sites</p> <p>Site Name: St Ninians- Thornton Wood- Surface Coal Mine Location: Lassodie, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 27178 Type: Opencast Status: Ceased Operator: Hargreaves Surface Mining Occw (House Of Water) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	864	1	312825 693000
144	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lassodie Mill Colliery, No. 3 Mine Location: Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 182268 Type: Underground Status: Ceased Operator: Rosewell Gas Coal Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Kelty Main Coal (Fife) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	881	1	314196 693380
145	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Windyedge Colliery, No. 1 Mine Location: Lassodie Mill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 250357 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	891	1	313718 692959
146	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Windyedge Colliery, No. 2 Mine Location: Lassodie Mill, Kelty, Fife Source: British Geological Survey, National Geoscience Information Service Reference: 250358 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Limestone Coal Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9SW (S)	952	1	313671 692867



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (S)	0	6	313330 693797
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (S)	0	-	313330 693797
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	313369 693810
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	313394 693839
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	230	1	313398 693535
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	244	1	313142 693533
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	244	1	313142 693533
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	313369 693810
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	244	1	313142 693533
	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	A13NW (S)	0	1	313330 693797
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	313330 693797



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Contemporary Trade Directory Entries Name: Scottish Coal Location: Kelty, Fife, KY4 0JR Classification: Coal Mining Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	86	-	313161 693740
148	Contemporary Trade Directory Entries Name: J Low Agri Services Ltd Location: Kelty Industrial Park, Cocklaw Street, Kelty, Fife, KY4 0DT Classification: Agricultural Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	204	-	313618 693880
149	Contemporary Trade Directory Entries Name: Marinades Of Scotland Location: Unit 4, Kelty Industrial Park, Cocklaw Street, Kelty, Fife, KY4 0DT Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	265	-	313680 693885
149	Contemporary Trade Directory Entries Name: Water Coolers Scotland Ltd Location: Kelty Industrial Park, Cocklaw Street, KELTY, Fife, KY4 0DT Classification: Water Coolers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	265	-	313669 693917
150	Contemporary Trade Directory Entries Name: I L G A Uk Ltd Location: 175, Cocklaw Street, Kelty, KY4 0DH Classification: Rubber & Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	331	-	313741 693911
150	Contemporary Trade Directory Entries Name: Andrew Lamont Motorsport Ltd Location: 161, Cocklaw Street, Kelty, KY4 0DH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	349	-	313747 693947
150	Contemporary Trade Directory Entries Name: Kelty Motor Co Location: 161, Cocklaw Street, Kelty, Fife, KY4 0DH Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	349	-	313751 693936
151	Contemporary Trade Directory Entries Name: The Carolina Blind Co Location: 151, Cocklaw Street, Kelty, Fife, KY4 0DH Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	437	-	313824 693991
152	Contemporary Trade Directory Entries Name: Mcd'S Window Cleaners Location: 2, Blackhall Road, Kelty, Fife, KY4 0DW Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	476	-	313827 694070
153	Contemporary Trade Directory Entries Name: A Mobile Tyre Fitting Service Location: 135, Cocklaw Street, Kelty, Fife, KY4 0DH Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	512	-	313895 694013
153	Contemporary Trade Directory Entries Name: A Mobile Tyre Fitting Service Location: 135, Cocklaw Street, Kelty, Fife, KY4 0DH Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	512	-	313895 694013
154	Contemporary Trade Directory Entries Name: The Clutch Man Location: 52, Croftangry Road, Kelty, KY4 0EN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	535	-	313665 694314



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Contemporary Trade Directory Entries Name: Marc King Location: 27, Croftangry Road, Kelty, Fife, KY4 0EL Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	595	-	313781 694307
156	Contemporary Trade Directory Entries Name: T T S Location: Workshop Union Street, Kelty, Fife, KY4 0EF Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	676	-	313907 694298
157	Contemporary Trade Directory Entries Name: Hamilton Oilfield Technology Ltd Location: 48, Mossgreen Street, Kelty, Fife, KY4 0AD Classification: Oil & Gas Exploration Supplies & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	893	-	314176 694298
158	Contemporary Trade Directory Entries Name: Pressure Testing & Consultancy Services Ltd Location: Clentry, Kelty, Fife, KY4 0JQ Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	911	-	312923 694652
159	Contemporary Trade Directory Entries Name: R G Location: 72, Beechbank Crescent, Kelty, Fife, KY4 0LT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	966	-	313604 694794
160	Contemporary Trade Directory Entries Name: Regal Motors Location: 43-47, Main Street, Kelty, Fife, KY4 0AA Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	981	-	314292 694271
160	Contemporary Trade Directory Entries Name: Oak Industrial Ltd Location: 23, Main Street, Kelty, Fife, KY4 0AA Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	994	-	314321 694242
160	Contemporary Trade Directory Entries Name: Alisha'S Dust Busting Fairys Location: 29-31, Main Street, Kelty, Fife, KY4 0AA Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	996	-	314313 694262
161	Points of Interest - Commercial Services Name: Andrew Lamont Motorsport Ltd Location: 161 Cocklaw Street, Kelty, KY4 0DH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	349	7	313747 693947
162	Points of Interest - Commercial Services Name: The Clutch Centre Location: 52 Croftangry Road, Kelty, KY4 0EN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	535	7	313665 694314
162	Points of Interest - Commercial Services Name: The Clutch Man Location: 52 Croftangry Road, Kelty, KY4 0EN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	535	7	313665 694314
163	Points of Interest - Commercial Services Name: Regal Motors Location: 43-47 Main Street, Kelty, KY4 0AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	998	7	314310 694272



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	Points of Interest - Manufacturing and Production Name: Scottish Coal Location: Kelty, KY4 0JR Category: Extractive Industries Class Code: Coal Mining Positional Accuracy: Positioned to address or location	A13SW (W)	86	7	313161 693740
164	Points of Interest - Manufacturing and Production Name: Scottish Coal Ltd Location: Kelty, KY4 0JR Category: Extractive Industries Class Code: Coal Mining Positional Accuracy: Positioned to address or location	A13SW (W)	86	7	313161 693740
165	Points of Interest - Manufacturing and Production Name: Works Location: KY4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NW (E)	351	7	313749 693947
166	Points of Interest - Manufacturing and Production Name: Tank Location: KY4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	502	7	312762 693615
167	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: KY12 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A9SW (SE)	829	7	313710 693025
168	Points of Interest - Manufacturing and Production Name: Tank Location: KY4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	923	7	314310 694076
169	Points of Interest - Public Infrastructure Name: Spoil Heap Location: KY4 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	721	7	314076 693496
169	Points of Interest - Public Infrastructure Name: Heap (Dis) Location: KY4 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	727	7	314088 693507
170	Points of Interest - Public Infrastructure Name: Refuse Tip (Disused) Location: KY4 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	872	7	314178 693367
171	Points of Interest - Recreational and Environmental Name: Playground Location: Elmwood Terrace, KY4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NE (N)	704	7	313496 694547
171	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	A18NE (N)	712	7	313521 694551



Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	Ancient Woodland Name: Not Supplied Reference: 34508 Area(m ²): 1179738.85 Type: Long-Established Woodland of Plantation Origin	A13NW (NW)	187	8	313207 693998



Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Scottish Environment Protection Agency - Head Office Fife Council - Regional Headquarters Perth And Kinross Council	June 2020 March 2014 March 2014	Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Scottish Environment Protection Agency - East Region	June 2001	Not Applicable
Enforcement and Prohibition Notices Scottish Environment Protection Agency - East Region	January 2012	Not Applicable
Integrated Pollution Controls Scottish Environment Protection Agency - Head Office Scottish Environment Protection Agency - East Region	February 1998 March 2002	Variable Variable
Local Authority Pollution Prevention and Controls Scottish Environment Protection Agency - East Region	March 2002	Not Applicable
Local Authority Pollution Prevention and Control Enforcements Scottish Environment Protection Agency - East Region	June 2001	Variable
Nearest Surface Water Feature Ordnance Survey	August 2020	
Prosecutions Relating to Authorised Processes Scottish Environment Protection Agency - East Region	March 2007	Not Applicable
Prosecutions Relating to Controlled Waters Scottish Environment Protection Agency - East Region	March 2007	Annual Rolling Update
Registered Radioactive Substances Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - Head Office	April 1996 January 1998	Not Applicable Not Applicable
River Quality Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - Head Office	December 1990 December 1990	Not Applicable Not Applicable
Water Abstractions Scottish Government - Agriculture, Environment and Fisheries Department	December 1997	Not Applicable
Water Industry Act Referrals Scottish Environment Protection Agency - East Region	April 1996	As Designated
Groundwater Vulnerability Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - Head Office	December 1995 December 1995	Not Applicable Not Applicable
Drift Deposits Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - Head Office	December 1995 December 1995	Not Applicable Not Applicable
OS Water Network Lines Ordnance Survey	June 2020	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually



Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Scottish Environment Protection Agency - Head Office Scottish Environment Protection Agency - East Region	January 1998 March 2002	Not Applicable Not Applicable
Local Authority Landfill Coverage Fife Council - Regional Headquarters Perth And Kinross Council	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Fife Council - Regional Headquarters Perth And Kinross Council	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - East Region - Alloa Office Scottish Environment Protection Agency - East Region - Arboath Office Scottish Environment Protection Agency - East Region - Galashiels Office Scottish Environment Protection Agency - East Region - Glenrothes Office Scottish Environment Protection Agency - East Region - Perth Office Scottish Environment Protection Agency - East Region - Stirling Office Scottish Environment Protection Agency - Head Office	December 2005 December 2005 December 2005 December 2005 December 2005 December 2005 December 2005 December 2005	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - East Region - Alloa Office Scottish Environment Protection Agency - East Region - Arboath Office Scottish Environment Protection Agency - East Region - Galashiels Office Scottish Environment Protection Agency - East Region - Glenrothes Office Scottish Environment Protection Agency - East Region - Perth Office Scottish Environment Protection Agency - East Region - Stirling Office Scottish Environment Protection Agency - Head Office	December 2005 December 2005 December 2005 December 2005 December 2005 December 2005 December 2005 December 2005	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - East Region - Alloa Office Scottish Environment Protection Agency - East Region - Arboath Office Scottish Environment Protection Agency - East Region - Galashiels Office Scottish Environment Protection Agency - East Region - Glenrothes Office Scottish Environment Protection Agency - East Region - Perth Office Scottish Environment Protection Agency - East Region - Stirling Office Scottish Environment Protection Agency - Head Office	December 2005 December 2005 December 2005 December 2005 December 2005 December 2005 December 2005 December 2005	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Fife Council - Area Planning Office (West Area) Fife Council - Area Planning Office (Central Area) Perth And Kinross Council - Planning and Development Services Fife Council - Area Planning Office (East Area) Fife Council - Regional Headquarters	August 2006 January 2016 January 2016 June 2005 March 2001	Variable Variable Variable Variable Annual Rolling Update
Planning Hazardous Substance Consents Fife Council - Area Planning Office (Central Area) Perth And Kinross Council - Planning and Development Services Fife Council - Regional Headquarters	January 2016 January 2016 March 2001	Variable Variable Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually



Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2020	Quarterly
Gas Pipelines National Grid	September 2020	
Points of Interest - Commercial Services PointX	September 2020	Quarterly
Points of Interest - Education and Health PointX	September 2020	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2020	Quarterly
Points of Interest - Public Infrastructure PointX	September 2020	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2020	Quarterly
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Scottish Natural Heritage	July 2014	Bi-Annually
Areas of Adopted Green Belt Fife Council - Regional Headquarters Perth And Kinross Council	June 2020 June 2020	As notified As notified
Areas of Unadopted Green Belt Fife Council - Regional Headquarters Perth And Kinross Council	June 2020 June 2020	As notified As notified
Environmentally Sensitive Areas Scottish Government	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Fife Council - Regional Headquarters Perth And Kinross Council	February 2018 February 2018	Bi-Annually Bi-Annually
Marine Nature Reserves Scottish Natural Heritage	July 2019	Bi-Annually
National Nature Reserves Scottish Natural Heritage	June 2018	Bi-Annually
National Parks Scottish Government	December 2013	Bi-Annually
National Scenic Areas Scottish Government	December 2013	Bi-Annually
Nitrate Vulnerable Zones Scottish Government	July 2019	Annually
Ramsar Sites Scottish Natural Heritage	April 2019	Bi-Annually
Sites of Special Scientific Interest Scottish Natural Heritage	March 2019	Bi-Annually
Special Areas of Conservation Scottish Natural Heritage	August 2020	Bi-Annually
Special Protection Areas Scottish Natural Heritage	September 2020	Bi-Annually

A selection of organisations who provide data within this report

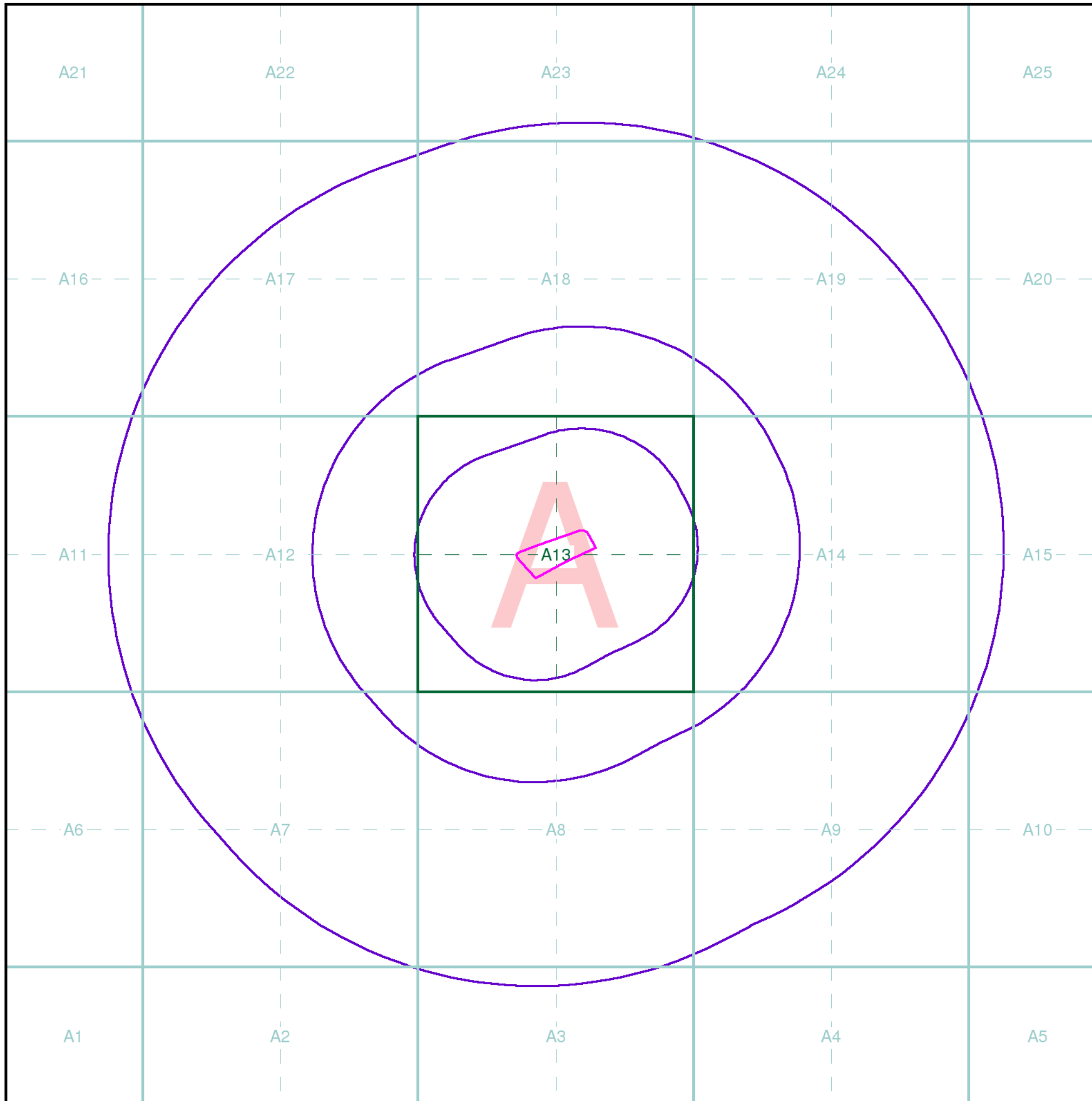
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology 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



Useful Contacts

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	Scottish Environment Protection Agency - East Region Clearwater House, Heriot Watt Research Park, Avenue North, Riccarton, Edinburgh, Midlothian, EH14 4AP	Telephone: 0131 449 7296 Fax: 0131 449 7277
3	Scottish Environment Protection Agency - Head Office Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Fife Council - Regional Headquarters Fife House, North Street, Glenrothes, Fife, KY7 5LT	Telephone: 01592 414141 Fax: 01592 414142 Website: www.fife.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Scottish Natural Heritage 12 Hope Terrace, Edinburgh, Midlothian, EH9 2AS	Telephone: 01463 725000
-	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.



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr D Miller, Dam Geotechnical Services, Glenfield House, 69 Glasgow Road, Dumbarton, G82 1RE

Order Details

Order Number: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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

313000

313200

313400

313600



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Severalty of Type at Location
- Pylon
- Overhead Transmission Line

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
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- 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
- 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

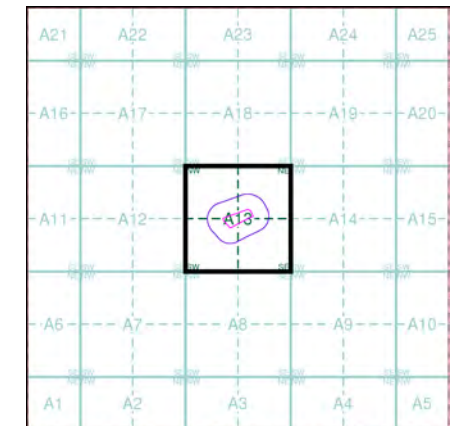
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

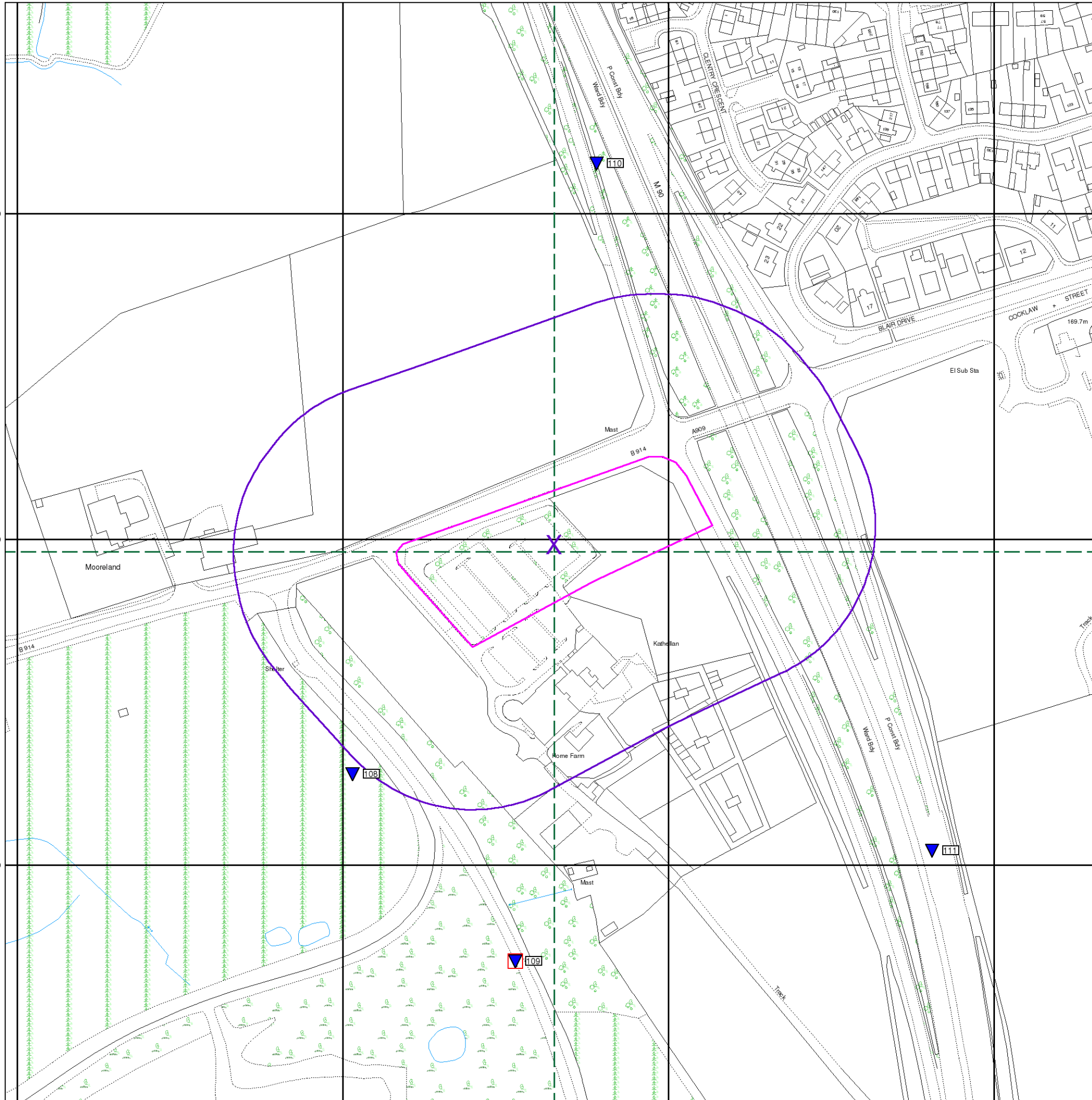
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 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Plot Buffer (m): 100

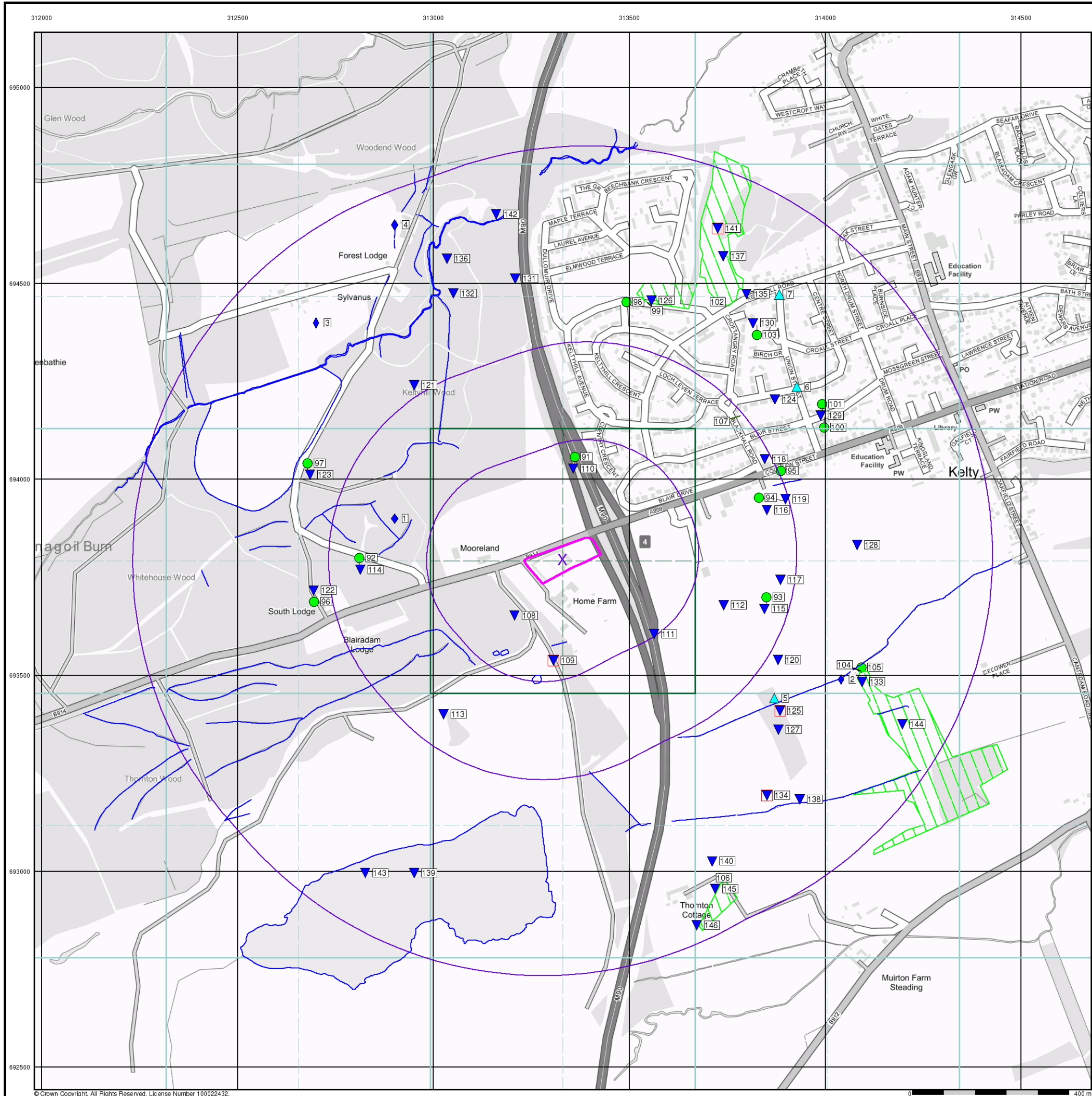
Site Details

Proposed Development Site, Kelty, KY4 0JR



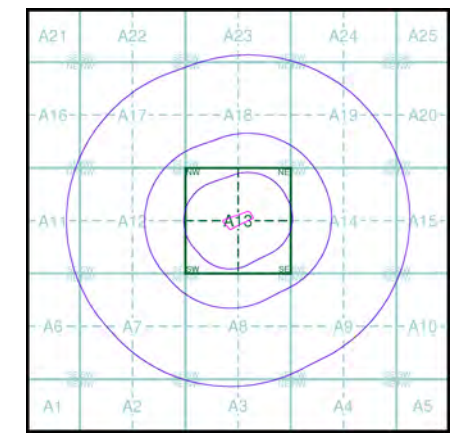
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk





- 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 and 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
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - Integrated Pollution Control Registered Waste Site
 - 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)
 - 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
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A

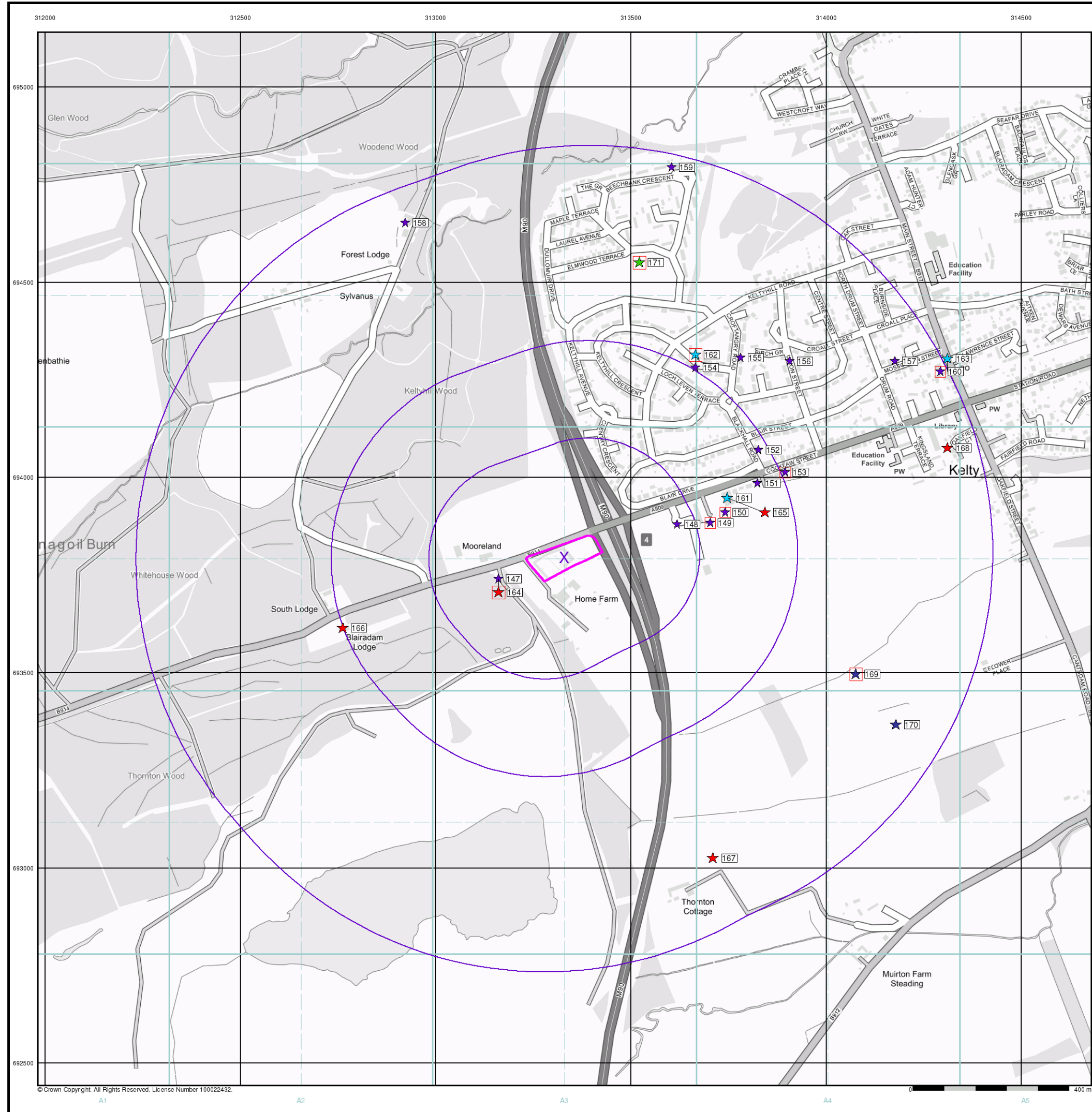


Order Details

Order Number: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR

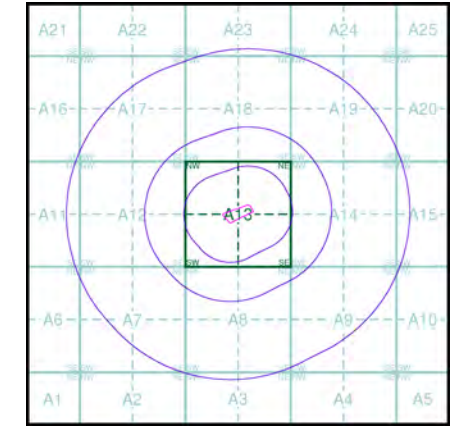


Industrial Land Use Map

- 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: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR



General

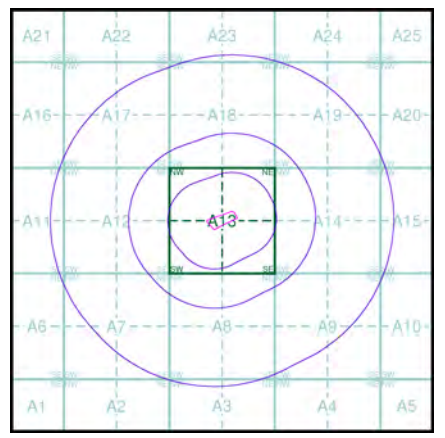
- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- 0 - 1m estimated 100yr flood depth
- 1 - 2m estimated 100yr flood depth
- Over 2m estimated 100yr flood depth

The flooded areas have been generated using a generalised technique and should not, by themselves, be used to infer that specific areas are or are not at risk of inundation. Flood risk at any specific location may be influenced by local factors - not least flood defence - that have not been taken into account.

Flood Map - Slice A



Order Details

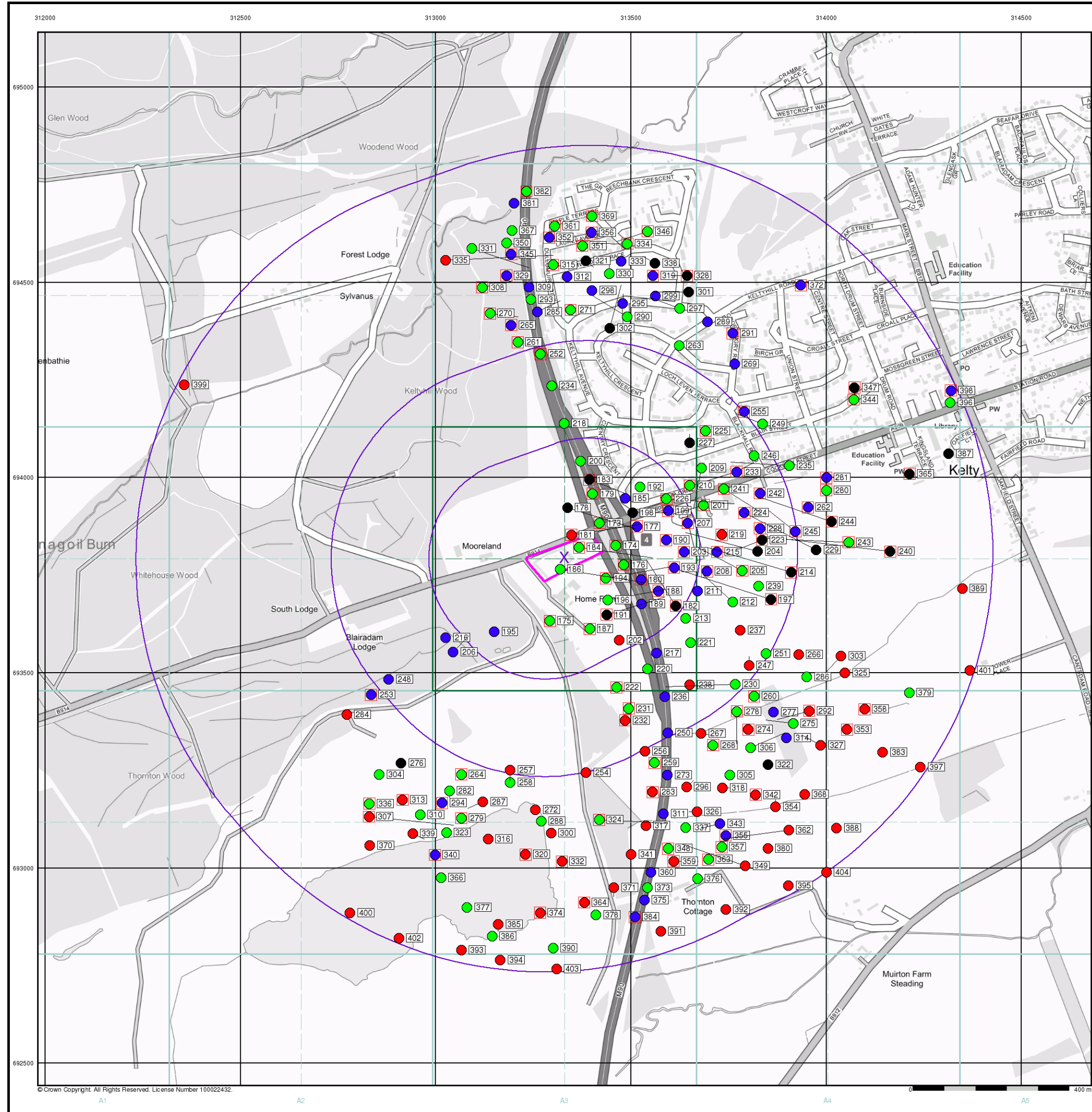
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 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR



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



General

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

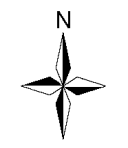
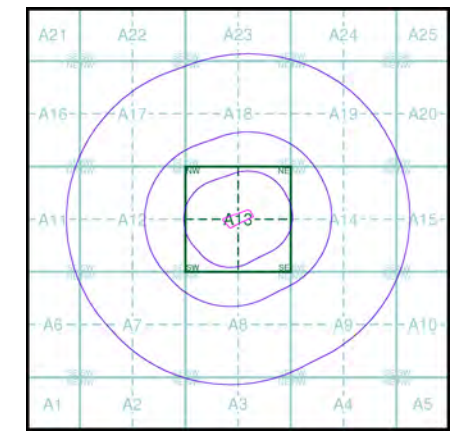
Agency and Hydrological (Boreholes)

- 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

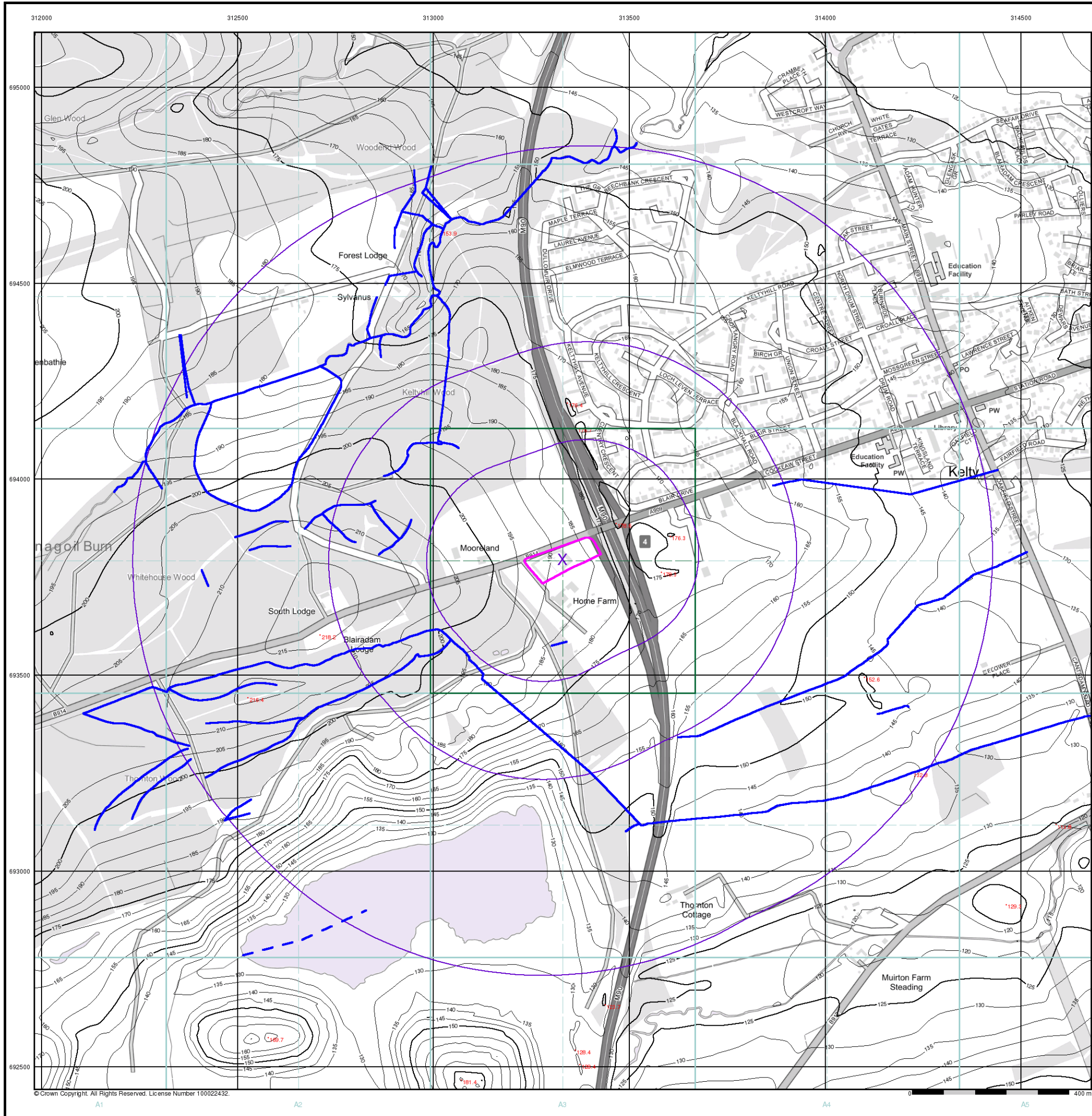
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 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR



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

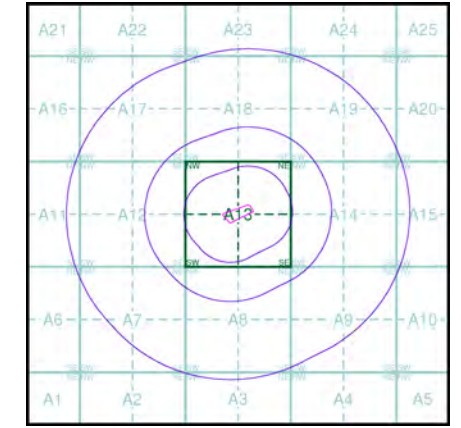


- General**
- Specified Site
 - Specified Buffer(s)
 - X Bearing Reference Point

- 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 Springs
 - MHW Mean High Water Springs

OS Water Network Map - Slice A

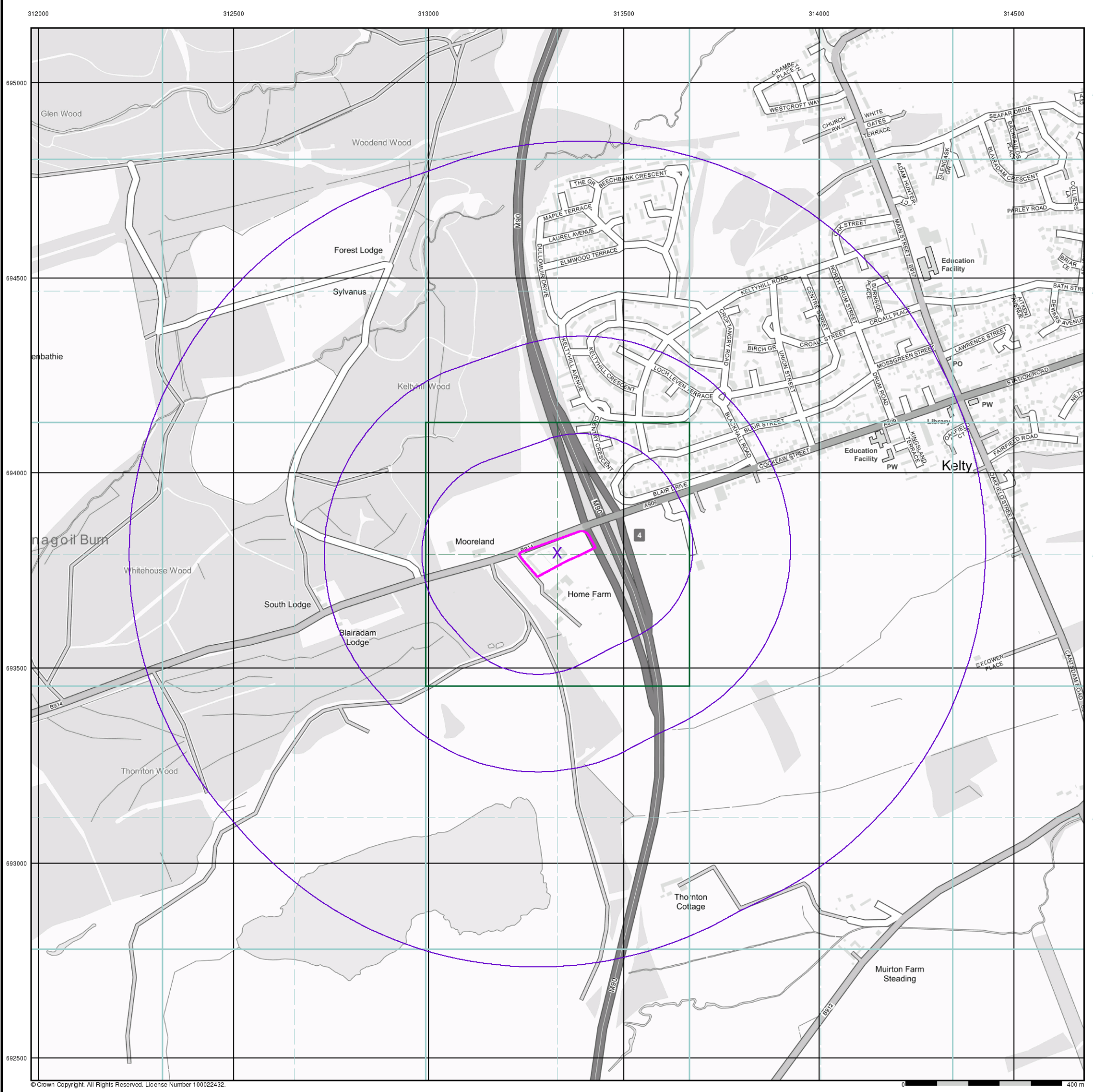


Order Details

Order Number: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR

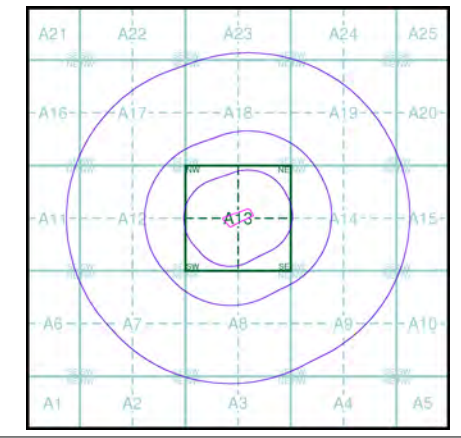


- General**
- Specified Site
 - Specified Buffer(s)
 - X Bearing Reference Point

- 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

EANRW Suitability Map - Slice A



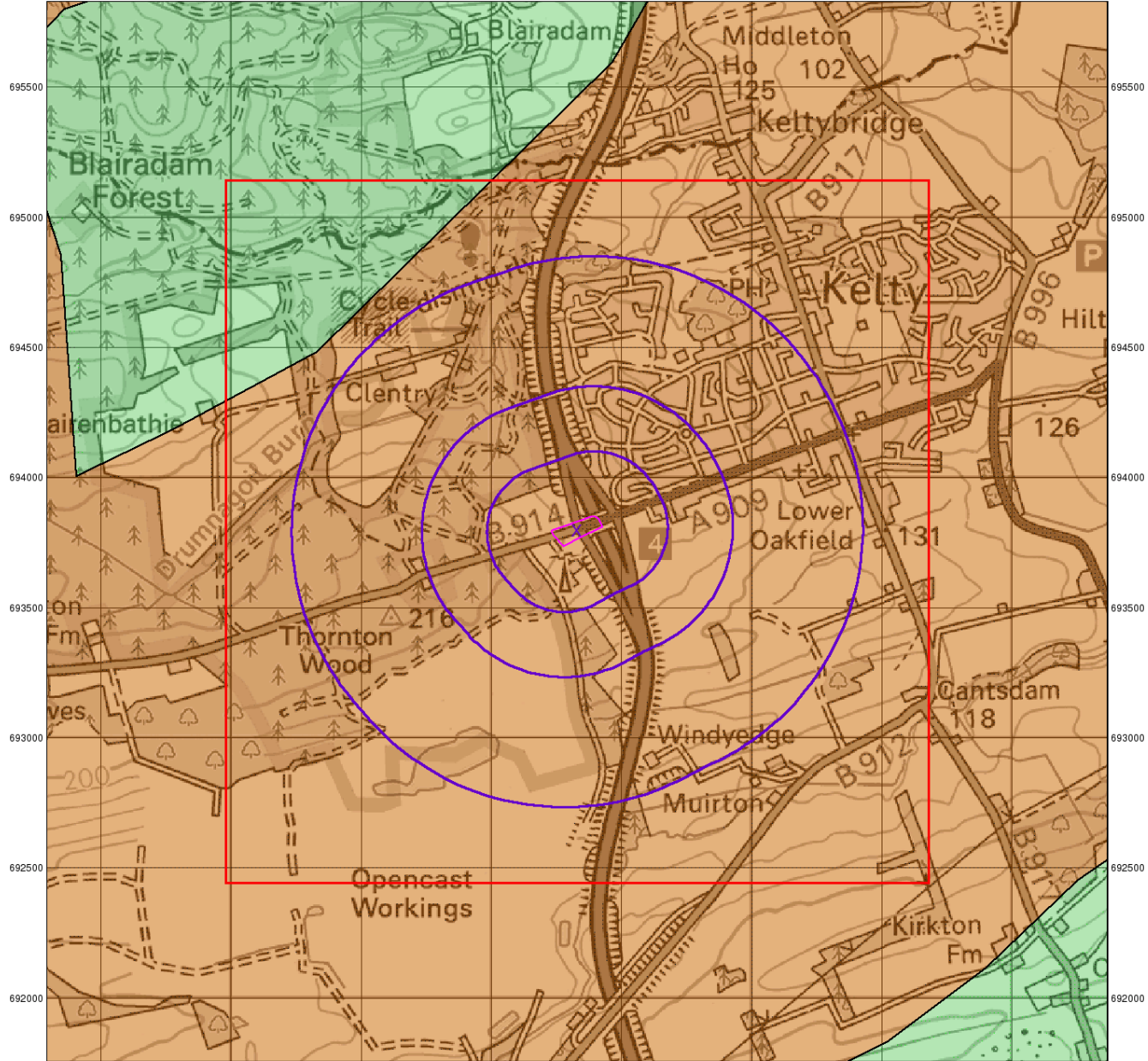
Order Details

Order Number: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

Proposed Development Site, Kelty, KY4 0JR

311500 312000 312500 313000 313500 314000 314500 315000



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0 1 km



Groundwater Vulnerability

General

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

Agency and Hydrological

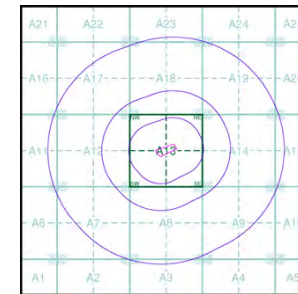
Geological Classes

- Highly Permeable**
- Moderately Permeable**
- Weakly Permeable**
- Water or Sea**
- Drift Deposit**

Soil Classes

- High
- Intermediate
- Low
-
-
-
-

Site Sensitivity Context Map - Slice A



Order Details

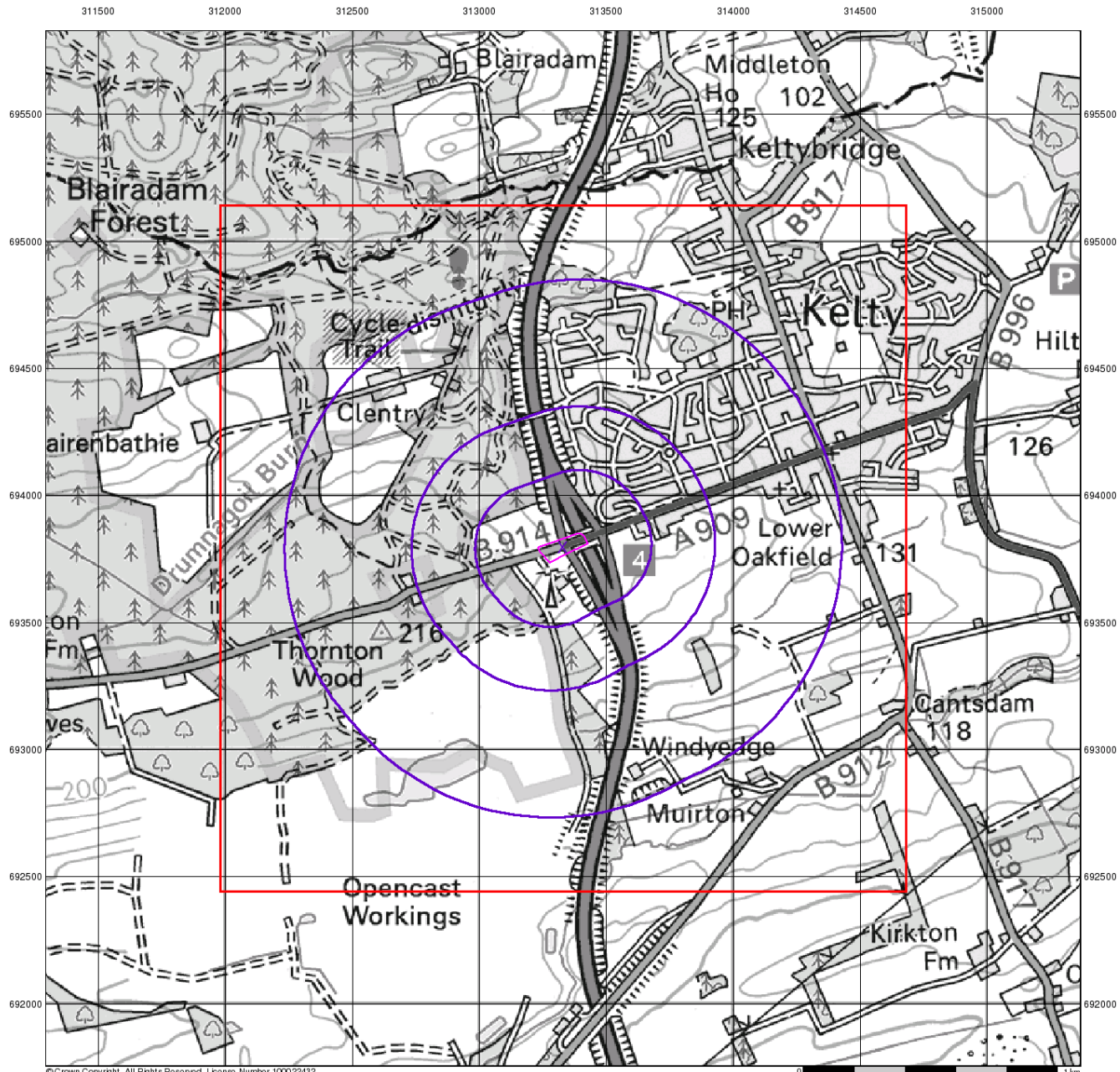
Order Number: 267464434_1_1
 Customer Ref: GA 14681
 National Grid Reference: 313330, 693800
 Slice: A
 Site Area (Ha): 1.11
 Search Buffer (m): 1000

Site Details

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Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
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Source Protection Zones

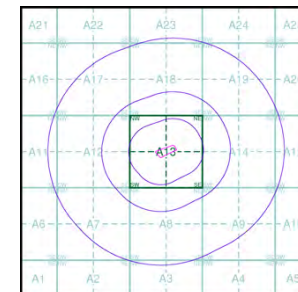
General

-  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



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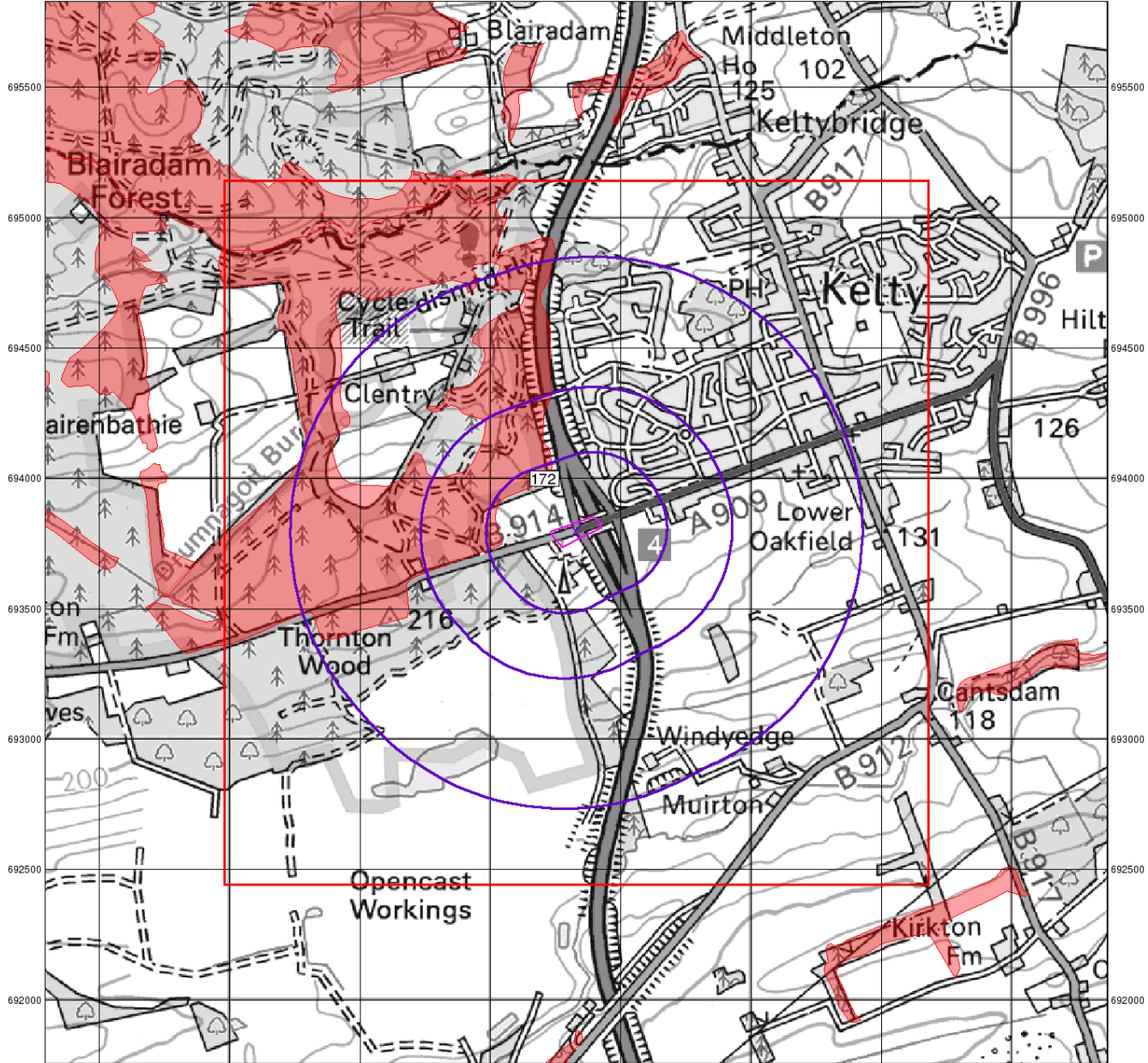
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311500 312000 312500 313000 313500 314000 314500 315000








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0 1 km




















Sensitive Land Uses

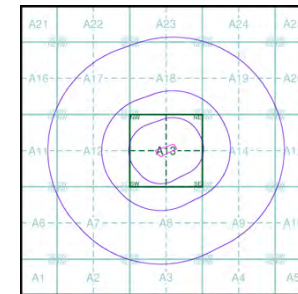
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



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