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CRAIGFOOT, MILTON OF CAMPSIE, EAST DUNBARTONSHIRE

PRELIMINARY RISK ASSESSMENT (PRA) LAND QUALITY

CONFIDENTIAL

NOVEMBER 2016

WSP | PARSONS BRINCKERHOFF

CRAIGFOOT FIELD ALLOTMENT, MILTON OF CAMPSIE, EAST DUNBARTONSHIRE

PRELIMINARY RISK ASSESSMENT (PRA) LAND QUALITY

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TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

1 INTRODUCTION & OBJECTIVES 2

2 SUMMARY OF THE SITE AND SURROUNDING AREA.....5

3 HISTORICAL LAND USE.....8

4 REGULATORY INFORMATION AND CONSULTATION.....9

5 ENVIRONMENTAL SETTING 11

6 PRELIMINARY CONCEPTUAL MODEL.....14

7 ENVIRONMENTAL LIABILITY CONSIDERATIONS 16

8 GEOTECHNICAL CONSTRAINTS.....18

9 CONCLUSIONS AND RECOMMENDATIONS.....19

TABLES

TABLE 2-1 SITE INFORMATION 5
TABLE 2-2 DETAILED PHYSICAL SITE DESCRIPTION 5
TABLE 2-3 SUMMARY OF POTENTIAL CONTAMINATIVE USES / STORAGE 6
TABLE 4-1 SUMMARY OF DATABASE SEARCHES (ALL DISTANCES ARE APPROXIMATE) 9
TABLE 4-2 CONTEMPORARY TRADE ENTRIES (ALL DISTANCES ARE APPROXIMATE) 9
TABLE 4-3 SUMMARY OF CONSULTEE RESPONSES 10
TABLE 6-1 POTENTIAL SOURCES OF CONTAMINATION 14
TABLE 6-2 PLAUSIBLE CONTAMINANT LINKAGES 15
TABLE 7-2 OTHER CONSIDERATIONS 16
TABLE 8-1 POTENTIAL GEOTECHNICAL CONSTRAINTS 18

APPENDICES

APPENDIX A CIRIA RISK DEFINITIONS

APPENDIX B CONTAMINANT LINKAGES UNDER CONSIDERATION

APPENDIX C SITE LOCATION AND SITE BOUNDARY PLAN

APPENDIX D PHOTOGRAPHIC RECORD

APPENDIX E ENVIROCHECK REPORTING AND SELECTION OF HISTORICAL MAP EXTRACTS

APPENDIX F FURTHER RELEVANT INFORMATION

APPENDIX F-1 COAL AUTHORITY REPORTING

APPENDIX F-2 UTILITIES

APPENDIX F-3 LOCAL AUTHORITY RESPONSES

APPENDIX F-4 RIVER BASIN MANAGEMENT PLANS AND WATER QUALITY DATA

APPENDIX F-5 FLOOD MAPPING

APPENDIX F-6 BGS BOREHOLE LOGS

EXECUTIVE SUMMARY

CRAIGFOOT, MILTON OF CAMPSIE, EAST DUNBARTONSHIRE	
Authorisation and purpose of assessment	WSP | Parsons Brinckerhoff UK Limited (WSP|PB) was instructed by East Dunbartonshire Council (the Client), to undertake a Phase 1 (preliminary) environmental and geotechnical assessment at Craigfoot, Milton of Campsie (the site). WSP|PB understands that the Client proposes to develop the site for field allotments and as such, we have completed an assessment of potential environmental liabilities and abnormal development constraints associated with the proposed development.
Key findings	The site comprises undeveloped land and is located in Milton of Campsie. The current site use is not considered to represent a potential source of contamination. Historical maps do however indicate that a quarry and French mill was located close to the site along with a railway and associated railway station. These may be potential sources to contamination.
Environmental Risk Assessment	In the context of the proposed use of the site, limited potential pollutant linkages have been identified predominantly based on the site having remained undeveloped from earliest available mapping.
Geotechnical Risk Summary	→ Likely requirement for earthworks to form vehicular access → Consideration of stability of existing slope
Other Considerations	→ Flooding potential within site → Japanese knotweed within site → Existing utilities within site
Recommendations	Intrusive ground investigation to confirm low environmental risks to future site users and geotechnical investigations to inform any earthworks or foundation design.

Please Note: This summary forms part of WSP | Parsons Brinckerhoff (WSP|PB) Preliminary Risk Assessment (ref.: 70012724/140). Under no circumstances is it to be used as an independent document.

1 INTRODUCTION & OBJECTIVES

1.1 AUTHORISATION & PURPOSE OF ASSESSMENT

WSP | Parsons Brinckerhoff (WSP|PB) was engaged by East Dunbartonshire Council ('the Client') dated 1st September 2016 to undertake a Preliminary Environmental and Geotechnical Risk Assessment (PRA) at Craigfoot, Milton of Campsie (the "site"). Its aim is to provide a preliminary assessment of potential liability in support of the proposed development of the site.

Preparation of this report has been in accordance with those conditions stated under WSP|PB UK's agreed scope of services as detailed within proposal, reference 70012724, dated 29th July 2016.

This assessment presents an interpretation of historical, archival and current information. The opinions given in this report were dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. WSP|PB cannot offer any guarantees or warranties for the completeness or accuracy of such information relied upon. Furthermore should new information and changes to legislation arise these may necessitate report alteration in whole or in part after its submission and consequently it should be referred back for reassessment and, and if required, amendment.

Finally, this report may not be relied upon or transferred to any other parties without the express agreement of WSP|PB in writing. No responsibility will be accepted where this report is used, ether in its entirety or in part, by any other party.

1.2 SITE APPRECIATION

WSP|PB understand that the site is to be developed into field allotments with associated infrastructure. No detailed development plans were provided for WSP|PB`s review.

1.3 UNDERSTANDING RISK

It is important to recognise that any risks identified during a preliminary assessment such as that presented below are perceived risks based on the record information reviewed. A more detailed assessment of the actual risks can only be assessed following intrusive investigations of the site. The preliminary assessments presented herein are qualitative based on professional judgements following review of the available data and within the context of the existing/proposed use. Those risk categories presented (Very Low, Low, Low to Moderate, Moderate, High, Very High) follow guidance presented in CIRIA Publication C552, *Contaminated Land Risk Assessment – A Guide to Good Practice*. CIRIA states that risk levels should be based both on an understanding of both the probability (likelihood) of a risk occurring and the magnitude of the potential consequence (severity) of a risk[1]. CIRIA defines four levels of probability and four levels of severity with relation to contaminated land, as presented in **Appendix A Tables A1 to A3**.

[1] Reference should be made to CIRIA C552 for the detailed definitions of probability and severity in relation to contaminated land, as well as the derivation of risk categories.

While CIRIA's definitions of probability, consequences, and risk categories are widely accepted in the UK in relation to contaminated land risk assessment, less guidance and consensus is available in terms of defining geotechnical risks. Risk categories relating to geotechnical issues need to be defined on a project by project basis, through a review of the site specific conditions and the potential implications for construction and performance of any proposed development. As such, WSP|PB UK's geotechnical assessment herein presents potential geotechnical constraints to the proposed development, and initial commentary on how these may be managed.

1.4 SCOPE OF WORKS

The works undertaken to prepare this report comprise a study of available and easily documented information from a variety of sources (including the Client), together with a walk over inspection of the site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. It is not standard, due to the timescales, to visit archives and local libraries as part of these works. WSP|PB cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.

In order to meet reporting objectives, the following scope of works were undertaken:

- A site walkover survey of accessible areas, to document the site`s current land use and its setting in relation to surrounding land uses.
- A review of the following information including but not limited to:
- Relevant previous reports pertaining to the site;
- Publicly available historical maps and site plans (where available) to identify former land uses and potential contaminative activities on and surrounding the site;
- Relevant regulatory databases and contact with relevant regulatory authorities including: the Local Council planning website, the Contaminated Land Officer (CLO), and the Scottish Environment Protection Agency (SEPA);
- Coal Authority (CA) and mineral stability database searches;
- Relevant publicly available information relating to hydrological features, hydrogeology, neighbouring land use, ecologically sensitive uses and geology in order to establish the environmental setting of the site;
- WSP|PB`s internal GIS system with respect to additional environmental data and/or ancillary reporting from surrounding sites that may inform our understanding.
    - The development of a preliminary Conceptual Site Model (CSM) following the source-pathway-receptor contaminant linkage approach[2].
    - Delivery of a preliminary geotechnical assessment of existing ground conditions at the site in relation to the proposed development, to provide an indication of potential foundation solutions and the assessment of the possibility for aggressive ground conditions, variable engineering properties and potential construction risks.
    - The delivery of outline the environmental risks and / or opportunities, with respect to ground, groundwater and ground gas conditions, which may potentially arise as liabilities or constraints associated with the development/Part IIA status of the site.

This report was prepared in general accordance with:

- BS 5930: Code of Practice for Site Investigations and BS 10175: Code of Practice for the Investigation of Potentially Contaminated Sites;
- Part IIA of the Environmental Protection Act 1990;

- CIRIA C552 Contaminated Land Risk Assessment - A Guide to Good Practice 2001;
- Environment Agency *'Model Procedures for the Management of Land Contamination'* CLR11 2004;
- Planning Advice Note PAN 33 - Development of Contaminated Land 2000; and
- *Eurocode 7: Geotechnical Design – Parts 1 and 2*.

1.5 POTENTIAL CONTAMINANT LINKAGES (PCL) UNDER CONSIDERATION

Appendix B denotes: those Potential Contaminant Linkages (PCL) under consideration herein. In order for a site to constitute Contaminated Land, as is defined in the 1990 Environmental Protection Act, a significant contaminant linkage must be identified between the source of contamination and a sensitive receptor via an appropriate environmental pathway.

2 SUMMARY OF THE SITE AND SURROUNDING AREA

2.1 SITE DETAILS

Table 2-1 Site Information

DETAILS	DESCRIPTION
Name and Address of Site	Craigfoot, Antermony Road, Milton of Campsie, East Dunbartonshire
Grid Reference	265382 676620
Site Size (approx.)	1.072 Ha
Site Ownership/Occupation	East Dunbartonshire Council
Site Description and Current Use	Undeveloped land sloping north to south
Utilities	From a review of utility plans relating to the site, the following has been identified: → BT cables adjacent to north of site. → Scottish Gas Network indicates medium-pressure mains below Antermony Road. Scottish Power Energy Networks (SPEN): → Two sets of overhead (pole-mounted) cables crossing the site northwest to southeast. → Further (possibly underground) cables shown entering site from access gate and trending southeast towards overhead cables. Scottish Water: → Two combined sewers present within north of site trending northwest-southeast. No invert levels - unable to determine flow direction. → Distribution mains and trunk mains present below Antermony Road to north of site.

Site location and layout plans are provided in **Appendix C.**

2.2 SITE RECONNAISSANCE

A walkover survey of accessible areas of the site was carried out by a representative of WSP|PB dated 3rd November 2016. A photographic record is provided as **Appendix D**. Access was possible to the majority of the site with the exception of the easternmost extent due to the presence of overgrown vegetation including Japanese knotweed. **Tables 2-2** and **2-3** detail those key observations made during our site reconnaissance.

Table 2-2 Detailed Physical Site Description

DETAILS	DESCRIPTION
Description of Site Layout, Buildings and Infrastructure	The Site comprises of a field with some mature trees and overgrown vegetation that slopes moderately down from the north to south. Two sets of (pole-mounted) electricity cables cross the site west-east and northwest-southeast.

Topography	→ The northern half of the site slopes moderately down from north (from adjacent Antermony Road) to south. → Southern half of site is predominantly flat, although slopes locally down to south adjacent to the southern boundary (Glazert Water).
Ground Cover and Surface Observations	→ Approximately 10% of the site area comprises maintained soft landscaping with the remainder comprising unmanaged, locally overgrown, soft landscaping. → Made Ground noted at ground surface locally in northwest site area; → No external staining of ground noted. → No evidence of vegetation stress noted. → Large areas of knotweed noted within east of site and adjacent to west of site, local stands of knotweed noted along southern boundary. → Manholes observed locally in north of site.
Drainage Descriptions	Drainage covers have not been lifted as part of this assessment however WSP|PB note the following with relation to surface waters: → Glazert Water adjacent to southern site boundary. → Surface water is assumed to directly infiltrate into the ground and Glazert Water.
Future Access Considerations	Based on site observations, we note that should any future site investigation be required then the following should be considered: → Access to the site will require permission of East Dunbartonshire Council; → An access gate (padlocked) is present off Antermony Road; → 4x4 vehicles, tracked excavators and tracking boards may be required for future intrusive investigation depending on preceding days weather and resultant possible soft and waterlogged ground conditions. → Should drilling rigs and excavators be required, representatives from SPEN will require advising on safe working height below overhead cables.

Table 2-3 Summary of Potential Contaminative Uses / Storage

DETAILS	DESCRIPTION
On-Site Activities including Operational Permits	No on-site activities were noted that may cause contamination.
Bulk Hazardous Material Storage	No evidence of Above Ground Storage Tanks (ASTs) or Underground Storage Tanks (USTs) were witnessed during our site reconnaissance.
Other Hazardous Materials	No quantities of potentially contaminative substances were observed to be stored on site.
Waste Storage	→ No waste storage areas noted on site. → Localised litter present within northwest corner. → Waste storage bins present within adjacent co-operative to northwest.
Polychlorinated Biphenyls (PCBs)[2] in Electrical Plant	No electricity sub stations noted to be present on site.

[2] Polychlorinated biphenyls have properties that once favoured their use as a coolant, though concerns over their environmental persistence led to a widespread ban on their use by the Stockholm Convention on Persistent Organic Pollutants in 2001. Albeit the use of PCBs has been progressively restricted since the 1970s. In 1986 their sale and

DETAILS	DESCRIPTION
Asbestos Containing Materials (ACMs)	In the absence of built structures on-site no suspected ACMs were observed.

2.3 ANECDOTAL INFORMATION

No anecdotal information was available in relation to the site.

2.4 SURROUNDING LAND USE

The site is located at the east of Milton of Campsie, in a predominantly residential area. A co-operative retail outlet is present adjacent to the northwest of the site.

use in new plant and equipment was banned in the UK. Upgraded electrical substations now generally use, non-toxic, stable silicone-based oils. Substation transformer oil used to contain polychlorinated biphenyls (PCBs) as intentional oil contaminants. Older substations should be assessed for PCBs spill and removal.

3 HISTORICAL LAND USE

3.1 GENERAL

A study of historical Ordnance Survey maps was undertaken to identify any significant potentially contaminative former land uses upon the site and within a 250m radius of influence of the site. A selection of historical map extracts is included as Appendix E.

3.2 SITE HISTORY

Historical maps indicate that the site has remained as undeveloped land since pre 1859.

3.3 SURROUNDING AREA HISTORY

Historical maps (from 1859) indicate that the surrounding land consisted of smaller buildings and farmland to the north and east side of the site, with a railway and associated station located 10m to the south and southwest of the site, beyond the Glazert Water. An old quarry and a French mill were recorded northwest and southwest of the site. Antermony Road has been present along the site's north / northeast boundary since earliest available mapping. One of two buildings present to the immediate northwest of the site was labelled as a public house, although pre-1986 these buildings appear to have been replaced by one single building also labelled as a public house. The Kincaid Print works with gasometer were located approximately 200m southeast (pre-1895) although noted as disused on the 1922 map. The Lilyburn Print Works with gasometer (pre-1895) were present approximately 400m west of the site until current 2016 mapping.

Between the 1917 and 1958 map the amount of residential buildings generally increases around the site. By 1958, the station and quarry was no longer in use. The railway was soon after dismantled (pre 1967). The residential area surrounding the site extended further by 1974, 1986 and 1988 with the majority of these residential buildings remaining to the present day.

4 REGULATORY INFORMATION AND CONSULTATION

4.1 REGULATORY DATABASE

Reference was made to the Landmark Information Group data provision service. This includes information and data collated from several organisations, including the Scottish Environment Protection Agency (SEPA), the Local Authority, the British Geological Survey (BGS), and Department for Environment, Food & Rural Affairs (DEFRA), Health & Safety Executive (HSE), the National Radiological Protection Board (NRPB), and the Coal Authority. **Table 4-1** below presents the entries which WSP|PB UK considers may represent off-site contamination sources.

Table 4-1 Summary of Database Searches (all distances are approximate)

DESCRIPTOR	ON-SITE	0-249M	250-500M	DETAILS
Contaminated Land register entries and notices	0	0	0	Not applicable (N/A)
Waste Disposal Sites[3]	0	0	0	N/A
Release Incidents[4]	0	0	0	N/A
Fuel Stations Entries	0	0	0	N/A

WSP|PB has reviewed the Contemporary Trade Entries data provided by Envirocheck and notes the following uses which may represent off-site contamination sources:

2 discharge consents within 250m from site.

- 165m SE: John T Bell and Sons Ltd - Sewage effluent into freshwater stream / river.
- 212m SE: Stirling County Council - Sewage treatment works into freshwater stream / river.

Table 4-2 Contemporary Trade Entries (all distances are approximate)

NAME	DISTANCE (M)	CLASSIFICATION
Bell Hiab Hire	392	Road Haulage Services

While Envirocheck reporting includes data from a number of environmental regulatory databases, WSP|PB considers that those databases listed in **Tables 4-1** and **4-2** above represent those of potential contaminant concern in relation to the site. Additional databases included by Envirocheck (e.g. authorised industrial processes, discharge consents, licensed radioactive substances, registered transfer stations/treatment facilities, and closed transfer stations/ treatment facilities, and Planning (Hazardous Substances) Act 1990 consents) have not been listed unless located within, or immediately adjacent to, the site.

[3] Including registered landfills and closed landfill facilities
[4] Including pollution incidents, enforcements, prohibitions or prosecutions, and Control of Major Accident Hazards (COMAH)

4.2 CONSULTEES

The following individuals and organisations have additionally been consulted.

Table 4-3 Summary of Consultee Responses

CONSULTEE	COMMENT
Local Authority Contaminated Land Officer (CLO)	The Contaminated Land Officer (CLO) at East Dunbartonshire Council has reported that they are unaware of any ground contamination issues associated with the site; however there are three sites in close proximity (250m radius) whose past industrial use may suggest possible contamination. → Kincaid Print Works 1895 with gasometer and railway line. → Lilyburn Print Works 1895 with tanks and waste material. → Craighead Quarry. The CLO's response is included in full in **Appendix F**.
Building Control Officer (BCO)	No issues were identified by WSP|PB based on a review of the sites history perceived as warranting consultation with the BO.
Petroleum Officer (PO)	No issues were identified by WSP|PB based on a review of the sites history perceived as warranting consultation with the PO.
SEPA	No issues were identified that are considered as having warranted direct consultation with SEPA.
Public Health England[5] HPA-CRCE-023: Indicative Atlas of Radon in Scotland	The site is reported by the HPA to be located within an area where less than 1% of homes are above the Action Level for radon gas. Therefore, no radon protection measures are considered necessary.

4.3 PLANNING RECORD REVIEW

An inspection of the available online planning record as held by the East Dunbartonshire Council was carried out on 01 November 2016. No environmentally pertinent information is available for review in any of the records.

4.4 FLOODING

SEPA's online flood maps (http://www.sepa.org.uk/flooding/flood_maps.aspx) present indicative areas which may flood from rivers, surface water, or coastal incursion. SEPA defines three likelihoods for flood extent, depth, and velocity as follows:

- → High (10 year return period);
- → Medium (200 year return period); and
- → Low (1000 year return period or 200 year plus climate change for surface waters).

According to SEPA's mapping the southern and central areas of the site are shown as having a high risk of flooding from river water. An output figure from SEPA's mapping is provided in **Appendix F**.

[5] When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations require that protective measures are taken against radon entering the building.

5 ENVIRONMENTAL SETTING

5.1 GEOLOGY

British Geological Survey (BGS) Map No. 31W Airdrie 1:50,000 Solid & Drift Editions (1992), and sheet NS67NE indicate the following ground conditions.

Superficial Deposits

The majority of the site is underlain by Alluvium comprising silt and clay associated with the adjacent Glazert Water. Glaciolacustrine Deposits of deltaic sand and gravel are shown to be present within the northeast of the site and to extend northeast. No Made Ground is documented on the site, however, Made Ground is likely to be locally present within the northwest of the site in association with the construction of the embankment of the adjacent retail outlet.

Bedrock Geology

The bedrock underlying the site is sedimentary in nature and comprises a cyclic sequence of sandstones, siltstones, mudstones, marine limestones, coals and seatrocks of the Upper Limestone Formation, with the Orchard Limestone shown to subcrop across the site. The site lies on the western limb of an axis of syncline and therefore the bedrock directly underlying the site is interpreted to dip down to the east-southeast.

The sedimentary strata are shown to have been intruded by quartz-dolerite igneous bedrock to the immediate northwest of the site.

A fault lies approximately 100m the northwest of the site; this fault trends southwest-northwest and downthrows the strata to the southeast.

BGS Borehole data

According to British Geological Survey (BGS) borehole logs (website: www.bgs.ac.uk/data/boreholescans), the following information also be been identified:

- Borehole Ref NS67NE10012/21 at grid reference 265516, 676765 (approximately 175m from site) recorded 3.2m of soft, brown, mottled, slightly silty, sandy Clay with occasional angular boulders and cobbles of weathered dolerite.
- Borehole Ref NS67NE10012/21A at grid reference 265603, 676683 (approximately 190m from site) recorded 0.2m of sandy topsoil, followed by 4m of clayey, silty, sandy gravel overlying 2.8m of firm to stiff silty, sandy, gravelly clay. Water recorded at 5.20m.

Copies of available BGS Borehole logs are included in **Appendix F**.

Mineral Stability

A Coal Authority (CA) report (reference number 51001285245001) was obtained for the site. This has been included in **Appendix F** and reports that:

- The site is not within a surface area that could be affected by past or present underground mining.
- However, reserves of coal exist in the local area which could be worked at some time in the future.

→ There are no known coal mine entries within, or within 20m of the boundary of the two sites.

Reference to the CA on-line interactive map viewer indicates that the site and immediately surrounding area does not fall within a 'development high risk area', or in an area of 'probable shallow coal mine workings'. The nearest such area are shown to the northwest and southeast of the site.

The Coal Authority Interactive Viewer describes a development high risk area as *'part of the coal mining reporting area which contains one or more recorded coal mining relates features which have the potential for instability or a degree of risk to the surface from the legacy of coal mining operations'* and also probable shallow coal mine workings as, *'probable shallow coal mine workings contain locations and estimated extents of probable shallow underground workings for which no recorded plan exists, but where it is likely that workable coal at shallow depths has been mined before records were kept'.*

Based on the above sources of information and documented geology, the risk of the site being affected by mineral instability is considered to be low.

5.2 HYDROGEOLOGY

River Basin Management Planning Information

SEPA maintains its classification of the water environment within its River Basin Management Planning (RBMP) for the Water Framework Directive. The site falls within the "Clyde" Area Advisory Group of the "Scotland" River Basin District.

The groundwater body underlying the site are listed as the "Clydebank and Kirkintilloch bedrock and localised sand and gravel aquifers"; water body number 150219. This groundwater body is noted as having an overall status of "Poor" with high confidence in 2011. **Appendix F** includes a summary sheet for this water body outlining the classification, pressures, measures and objectives. The objectives for this water body are to have the quantitative status as "Good" by 2027; however SEPA acknowledges quality status may still be "poor" at this time.

Groundwater Vulnerability

The BGS 1:625,000 Hydrogeological Map of Scotland (1988) indicates that the site is underlain by a Minor to Moderately Permeable Aquifer (low yields except where disturbed by mining).

Groundwater Abstractions

No regulatory licensed groundwater abstractions were identified within a 250m radius of the site.

5.3 HYDROLOGY

Surface Water Features

Surface water features in the vicinity and presumed influence of the subject site are as follows:

Table 5-1 Surface Water Features in Proximity and Influence of the Site

Surface Water Feature	Quality*	Distance	Direction
Glazert Water	Poor	1m	S

*Chemical water quality as classified under the EA's General Quality Assessment (GQA) Scheme.

The Glazert Water flows east to the immediate south of the site; water body number 10145. This water body is noted as having an overall status of "Poor ecological potential" with medium confidence in 2012. **Appendix F** includes a summary sheet for this water body outlining the classification, pressures, measures and objectives.

Wetlands

The EU Water Framework Directive (WFD) identifies a number of receptors that may be impacted by inputs to groundwater including groundwater dependent terrestrial ecosystems (wetlands). No such wetlands were identified within a 250m radius of influence of the site.

Surface Water Abstractions

No regulatory licensed surface water abstractions were identified within a 250m radius of the site.

5.4 PRELIMINARY HYDROGEOLOGICAL MODEL

Based on the documented presence of alluvial and glaciofluvial deposits below the site, and given the close proximity of the Glazert Water, it is considered likely that groundwater will be present within the superficial deposits. It is anticipated that the groundwater flow in a southerly direction towards the Glazert Water. Consequently, it is assumed there will be connectivity between the groundwater and this surface watercourse.

5.5 DESIGNATED ECOLOGICAL SITES AND OTHER SENSITIVE LAND USES

There are no ecological of other sensitive sites identified within 500m of the site.

5.6 ENVIRONMENTAL SENSITIVITY

In consideration of the previous sections WSP|PB consider the site to be located in an area of moderate sensitivity, for the following reasons:

- The presence of the adjacent surface watercourse (Glazert Water, south);
- The underlying poor quality bedrock aquifer;
- The absence of groundwater surface water abstractions within a 1km radius of the site;
- The absence of a designated Drinking Water Protection Zone; and
- The residential land uses within the surrounding area.

6 PRELIMINARY CONCEPTUAL MODEL

6.1 INTRODUCTION

This section of the report presents the characteristics of the site and provides a systematic indication of the risks to enable uncertainties and further assessment needs or other actions to be identified. It draws on the information presented in earlier sections of the report to identify plausible contaminant-pathway-receptor contaminant linkages in the context of a proposed allotment land use scenario.

6.2 POTENTIAL SOURCES

Table 6-1 provides a summary of the potential sources of contamination and the likely nature of such sources both on site and in the immediate surrounds.

Table 6-1 Potential Sources of Contamination

Potential Source	Potential Contaminants of Concern	Likely / Anticipated Distribution
On-Site		
Made ground of unknown provenance	Metals, inorganics (e.g. cyanide), hydrocarbons, asbestos	Local to northwest of site
Organic matter in made ground / alluvial deposits	Ground gas (carbon dioxide and methane)	Site wide
Off-Site		
Chemical releases associated with historical use as farmland	Pesticides and fertilisers, metals, inorganics (e.g. cyanide), hydrocarbons, asbestos	Possibly present within northeast of site
Releases from railway	Hydrocarbons	Unlikely given surface watercourse between site and historical railway
Quarry and French mill	Metals, inorganics hydrocarbons	Localised to northwest of site

6.3 POTENTIAL RECEPTORS

In the context of the proposed development, the following potential receptors were identified:

Water Environment

- Groundwater in the shallow drift aquifer;
- Groundwater in the underlying bedrock aquifer with future resource potential; and
- Surface watercourse adjacent south.

Human Health

- Site occupiers, including those consuming homegrown produce from future allotments;
- Third Party neighbours; and
- Groundworkers.

Other

- Buildings foundations and underground water pipes.

6.4 PLAUSIBLE CONTAMINANT LINKAGES

Table 6-2 provides an evaluation of those potential contaminant linkages that we consider to be plausible given our current site understanding.

Table 6-2 Plausible Contaminant Linkages

Potential Contaminant	Receptor	Plausibility of Pathway
Inorganic and Organic Contaminants associated with Made Ground of Unknown Provenance	Underlying bedrock aquifer with future resource potential	The alluvial deposits may not restrict the vertical migration of contaminants into groundwater in the underlying bedrock aquifer.
	Surface Water Receptor	Shallow groundwater within granular deposits underlying the site must be assumed to be in hydraulic connection with the adjacent Glazert Water. There is the potential for any shallow groundwater contamination if present on the site to have migrated and impacted these surface water features. However, overall potential for contamination to be present is considered low.
	Site Occupiers	There is considered a potential for a health exposure to contaminated materials via direct contact (ingestion, dermal contact, inhalation of dust, consumption of homegrown produce).
	Buildings foundations and underground water pipes	Standard plastic (HDPE) water supply pipes may potentially be at risk of being impacted by residual organic contamination and upgraded pipe materials may be required. Acidic conditions or elevated sulphate concentrations may be present in the soil and/or groundwater and have the potential to degrade standard concrete. As such, upgraded concrete materials may be required for any structures proposed.
	Ground Workers	In the event of below ground works, site workers may be exposed to subsurface contamination if present. It should simply be ensured that future construction workers adopt appropriate procedures to manage their health and safety associated with acute exposures.
	Third Party Neighbours	Due to the anticipated granular nature of shallow deposits, there is considered the potential for lateral migration of site-derived contamination to third party land to the east of the site.
Ground gas generation from any made ground or organic matter within superficial deposits	Site Occupiers	There is the potential for ground gases arising from the made ground or natural alluvial deposits to migrate through the subsurface and accumulate in nay built structures, presenting an explosion and/or asphyxiation risk.
Off-site chemical releases from adjacent potential contamination sources	Site Occupiers	Given the presence of the underlying permeable geology, there is the potential for contaminated groundwater from the off-site sources identified to migrate onto the subject site. Highest risk from historical farmland to north of site.

7 ENVIRONMENTAL LIABILITY CONSIDERATIONS

Having evaluated the information gathered during this study and described in the previous sections, WSP|PB has produced the following assessment of risk primarily focused on contaminated land issues, assuming an allotment landuse:

Table 7-1 Liability Risk Assessment Matrix Limited to a current understanding of the available data

DESCRIPTOR	ASSESSMENT	RISK CATEGORY
Potential for statutory liability and designation as Contaminated Land[6]	No potential significant pollutant linkages were identified. Furthermore, WSP|PB considers it highly unlikely that the site will be a priority for further investigation under the Local Authority's Contaminated Land Inspection Strategy. (LOW)	Category 4
Potential for third party liability	No potentially significant sources of contamination were identified that are considered likely to impact third party property and therefore result in third party liability. (LOW)	Very Low
Risk of commercial liability on resale	No contamination concerns were identified which are likely to significantly impact the resale of the property. (LOW)	Very Low
Risk of contaminated land liability for owner	No significant sources of land contamination were identified on the basis of current or historical land use. (LOW)	Very Low
	CONTAMINATED LAND LIABILITY RISK	**Very Low**

7.1 OTHER ENVIRONMENTAL CONSIDERATIONS

Albeit not strictly land quality related WSP|PB observes that the following matters may also require further wider assessment. WSP|PB can offer in house support in respect to these issues if requested.

Table 7-1 Other Considerations

DESCRIPTOR	COMMENT
Ecology and Archaeology	WSP|PB notes that ecological and archaeological considerations reside outwith the scope of this contamination and geotechnical assessment. However, we note for the client's interest that consideration should be given to these subject areas as a matter of course.

[6] Part IIA classifications are to take into account existing site use only. In April 2012, DEFRA issued new Statutory Guidance regarding contaminated land (under Part IIA of the EPA 1990) which seeks to clarify some of the uncertainty regarding what constitutes Significant Possibility of Significant Harm (SPOSH) and leads to determination of a site as "Contaminated Land". The new guidance refers to the assessment of the possibility of significant harm (POSH), with only the Local Authority to decide whether there is a SPOSH. Four categories of land quality are defined in the guidance, with Category 1 representing land where significant harm would occur if no action was taken and Category 4 where the land does not pose a SPOSH, with Categories 2 and 3 in between. Policy was devolved in 1999. Scotland and Wales operate systems similar to England's and consequently WSP have adopted this terminology herein albeit it is yet to be formally written into Scottish legislation.

DESCRIPTOR	COMMENT
Invasive Plant Species[7]	Significant areas of Japanese knotweed were observed on site. Giant hogweed, Himalayan balsam etc may also be present on the site. Japanese knotweed is a highly invasive plant that may cause structural damage. Under the Wildlife and Countryside Act 1981 it is an offence 'to plant or otherwise encourage' the growth of Japanese knotweed.
Flooding	The area is noted to lie within an area with High flooding potential from surface waters.

[7] Under to the provisions of the Wildlife and Countryside Act 1981, if any person plants, releases or otherwise causes to grow in the wild any plant which is included in Part 11 of Schedule 9 he/she shall be guilty of a criminal offence, this includes spreading the species or transferring polluted ground material from one area to another. Japanese knotweed, Himalayan balsam and giant hogweed are classified under this schedule as injurious plants and are therefore subject to these provisions. Under the Environmental Protection Act 1990, section 33/34, they are also classified as a controlled waste. A duty of care is placed on waste producers to ensure that soil containing Japanese knotweed or Giant Hogweed roots and or vegetative waste including stem pieces are disposed of safely at a site specifically licensed and this waste should be accompanied by appropriate Waste Transfer documentation.

8 GEOTECHNICAL CONSTRAINTS

Table 8-1 provides a summary of the potential geotechnical constraints.

Table 8-1 Potential Geotechnical Constraints

AREA OF POTENTIAL CONCERN	DETAILS
Weak natural soils	Strength of documented alluvial soils is potentially low; this will require verification by intrusive investigations.
Requirement for cut/fill earthworks	Northern site area slopes moderately down to south; likely requirement for earthworks in order to form access into site.
Groundwater Levels	Shallow groundwater may be present at the site; this will require to be confirmed by intrusive investigations. Possible requirement for groundwater control measures where significant earthworks required.
Natural Cavities	Land Instability can include both naturally formed cavities and manmade mining cavities, a national database of such information is held by Peter Brett Associates LLP. Acquisition of such a specialist search has not formed part of our existing scope. Based on the data available (as reported herein) it is not however perceived that such a search would be warranted.
Underground utilities	Consideration should be given to the sewers and electricity cables present below the site.
Slope Stability	The future stability of the slope within the north of the site should be considered given the documented natural granular soils in this area.

9 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of our site walkover and subsequent desk based assessment, WSP|PB makes the following conclusions and recommendations in the context of the proposed development of the site as allotments.

9.1 ENVIRONMENTAL RISKS AND CONSTRAINTS

- Human exposure to any contaminated soils and groundwater which may be present could be relatively high due to the relatively sensitive development proposed. However, the presence of site wide contaminants is considered unlikely given the historical landuse; localised issues may exist in the northwest area where Made Ground was observed.
- Risks to the Water Environment are considered low based on the history of landuse at the site.
- There is potential for ground gas generation which may present accumulate in confined spaces within any proposed structures.
- Standard plastic (HDPE) water supply water supply pipes are considered to be at risk of being impacted by any organic contamination and upgraded pipe materials may be required.
- In the event of below ground works, site workers may be exposed to subsurface contamination if present. Future construction workers should adopt appropriate procedures to manage their health and safety associated with acute exposures.

9.2 GEOTECHNICAL CONSTRAINTS

- The topography of the site is such that earthworks are likely to be required in order to form vehicular access into the site.
- Abnormal foundations may be required for any structures proposed within the site based on the documented alluvial soils.
- Risks of mineral instability for the site are considered low.
- Depending on the finalised layout of the proposed development, an assessment of slope stability may be required for the existing slope within the north of the site.

9.3 RECOMMENDATIONS

Prior to development of the site, it is recommended that allowance be made for intrusive ground investigation with particular focus on the potential issues as identified within this report.

WSP|PB is a framework supplier and reviewer of planning submissions of multiple Scottish Local Authorities and our advice is based on experience of likely Local Authority requirements.

Appendix A

CIRIA RISK DEFINITIONS

CIRIA RISK DEFINITIONS

Table A1– Classifications of Probability

CLASSIFICATION	DEFINITION
High likelihood	There is a pollution linkage / identified geotechnical hazard and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term

Table A2 – Classifications of Consequence

CLASSIFICATION	DEFINITION
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services (significant harm as defined m the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve, Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). Easily repairable effects of damage to buildings, structures and services.

The risk categories presented in this reporting, taking into account both probability and severity, are based on the matrix presented in **Table A3** below, following CIRIA C552.

Table A3- Adopted Risk Categories / Comparison of Consequence against Probability

PROBABILITY	CONSEQUENCE			
	Severe	**Medium**	**Mild**	**Minor**
High Likelihood	Very High Risk	High Risk	Moderate Risk	Low to Moderate Risk
Likely	High Risk	Moderate Risk	Low to Moderate Risk	Low Risk
Low Likelihood	Moderate Risk	Low to Moderate Risk	Low Risk	Very Low Risk
Unlikely	Low to Moderate Risk	Low Risk	Very Low Risk	Very Low Risk

Appendix B

CONTAMINANT LINKAGES UNDER CONSIDERATION

CONTAMINANT LINKAGES UNDER CONSIDERATION

CPL	SOURCE	PATHWAY	RECEPTOR[8]	COMMENTS
Human Health (on-site)				
H1	Contaminants in near surface materials	Dermal contact, ingestion, inhalation of dust	Current and future site users; construction personnel	
H2	Contaminants in deeper materials	Dermal contact, ingestion, inhalation of dust during groundwork's	Construction personnel	Usually managed by use of personal protective equipment (PPE) except in incidents of extreme contamination where further measures are needed
H3	Contaminants in near surface materials	Root uptake in site-grown produce followed by ingestion	Consumers of produce	Requires residential, allotment or agricultural use
H4	Volatile contaminants in ground or groundwater	Migration to indoor air	Current and future site users	Requires occupied, enclosed structures
H5	Ground Gas generation from made ground, organic material degradation, or coal measures	Migration to indoor air	Current and future site users	Requires occupied, enclosed structures
H6	Contaminants in groundwater	Abstraction and ingestion	Current and future site users	Not a viable linkage in the absence of groundwater abstractions
H7	Contaminants in surface water	Dermal contact, ingestion, or abstraction and ingestion	Current and future site users, construction personnel	Usually not a viable linkage in the absence of surface water abstractions, however contact with surface waters may occur
H8	Radon Gas	Migration of radon gas from bedrock to indoor air and inhalation	Current and future site users	
H9	Radioactive materials in ground	Exposure through radiation	Current and future site users; construction personnel	
H10	Radon, Ground gas, and volatile materials	Outdoor air inhalation	Current and future site users; construction personnel	Generally not a viable risk due to dilution with outdoor air, unless significant contamination / source is present. May need consideration for trenching works or confined space entry.
Water Environment (on-site and surrounding)				
W1	Contaminants in ground	Leaching to groundwater	Groundwater	
W2	Near-surface contaminants	Surface run-off	Surface Water	Viability of linkage is dependent on the distance to surface water receptors
W3	Contaminants in	Lateral migration	Surface Water	Viability of linkage is

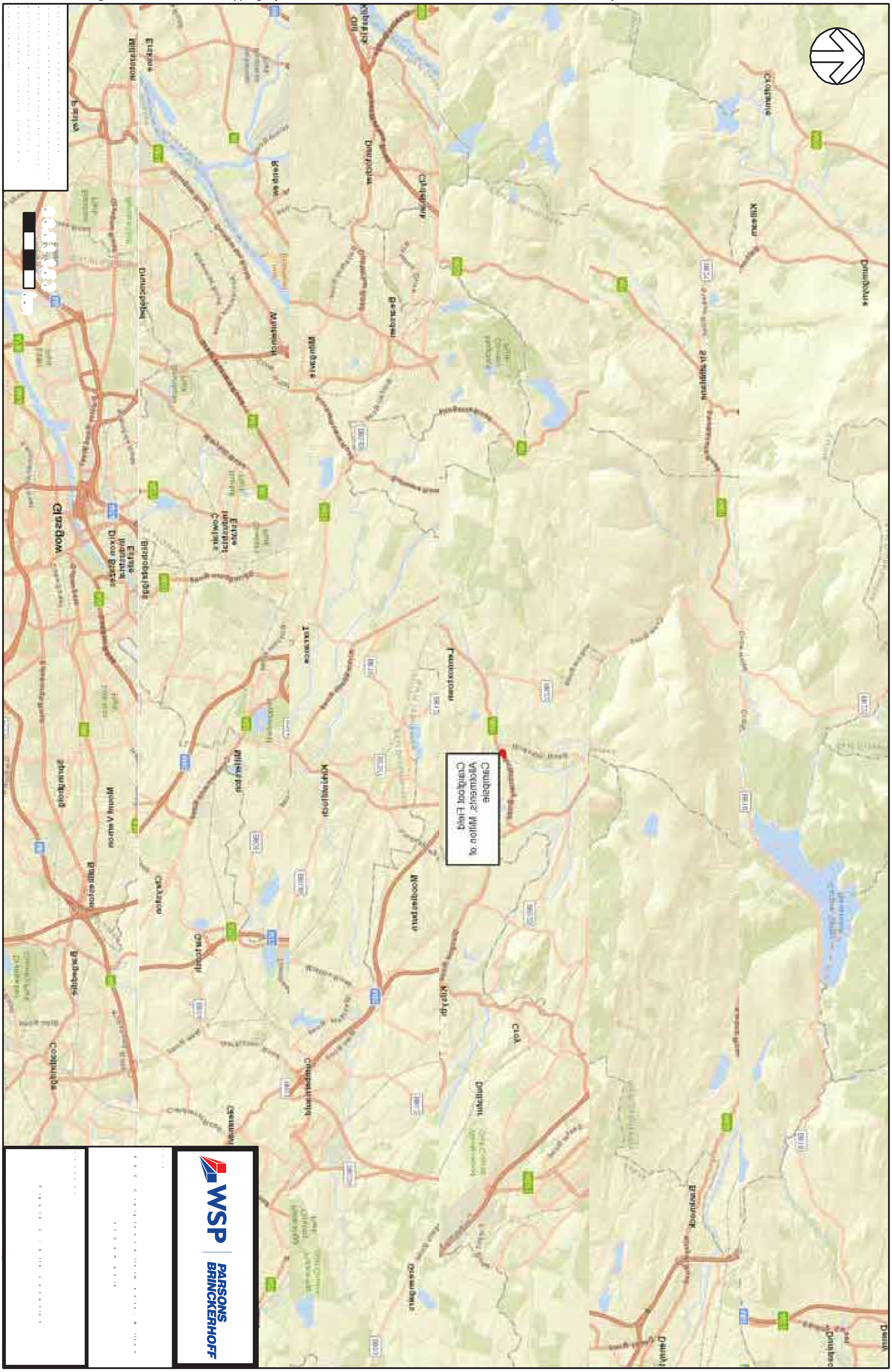
[8] 'Receptors' are defined in BS10175 as "persons, living organisms, ecological systems, controlled waters, atmosphere, structures and utilities that could be adversely affected by the contaminant(s)". Controlled waters equate to water environment receptors in Scotland. The Contaminated Land (Scotland) Regulations 2005 which extend to Scotland only, amends Part IIA of the Environmental Protection Act 1990 (c.43) ("the 1990 Act") and the Contaminated Land (Scotland) Regulations 2000 (S.S.I. 2000/178) ("the 2000 Regulations") in light of the Water Environment and Water Services (Scotland) Act 2003 (asp 3) ("the 2003 Act").

	groundwater			dependent on the distance to surface water receptors
W4	Contaminants in groundwater	Lateral and downward migration	Drift aquifer with Future Resource Potential	Following SEPA guidance, if drift material includes greater than 1-2m of non-cohesive materials
W5	Contaminants in groundwater	Downward migration	Bedrock aquifer with Future Resource Potential	Following SEPA guidance, most bedrock aquifers in Scotland have future resource potential.
Built Environment (on-site)				
B1	Phytotoxic contaminants in shallow ground	Root update	Plant life	
B2	pH and sulphate in shallow ground and/or groundwater in contact with concrete structures	Attack on concrete by direct contact	Buried concrete	
B3	Contaminants in shallow ground	Permeation of water pipes	Pipe material and water ingestion	
Off-Site Human Health / Built Environment Receptors				
O1	Ground Gas / volatile contaminants vapour generation on-site	Migration to indoor air on off-site properties	Adjacent site users	Requires occupied, enclosed structures within influencing distance of site
O2	Groundwater with volatile contamination	Migration off-site and subsequent volatilisation to indoor air	Adjacent site users	Requires occupied, enclosed structures within influencing distance of site
O3	Contaminated groundwater	Migration off-site and contact with services	Services and structures in adjacent site	Requires built environment structures within influencing distance of site

Appendix C

SITE LOCATION AND SITE BOUNDARY PLAN

File: Created using iGIS, WSP's Online Mapping System   Drawn By: UKMXN004   Date Modified: 02/11/2016 10:56



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Appendix D

PHOTOGRAPHIC RECORD

PHOTOGRAPHIC RECORD – EDC CRAIGFOOT ALLOTMENTS

1) Panorama from southeast corner of site

2) Looking south from north of site

3) Looking southwest from north of site

PHOTOGRAPHIC RECORD – EDC CRAIGFOOT ALLOTMENTS

4) Looking north from southwest corner

5) Looking northeast from southwest corner

6) Looking east from southwest corner

7) Looking west from Antermony Road

PHOTOGRAPHIC RECORD – EDC CRAIGFOOT ALLOTMENTS

	
8) Looking southwest from northeast of site	9) Looking west from northeast of site
	
10) Looking east from northwest corner	11) Looking south from northwest corner

PHOTOGRAPHIC RECORD – EDC CRAIGFOOT ALLOTMENTS

12) Looking east from centre of site

13) Looking south across eastern site area

14) Cable support pole in west of site

15) Cable support poles along northern boundary of site

PHOTOGRAPHIC RECORD – EDC CRAIGFOOT ALLOTMENTS

16) Knotweed on edge of Glazert Water in south of site

17) Knotweed on edge of Glazert Water in south of site

18) Drainage manhole in northern site area

19) Drainage manhole in northeastern site area

Appendix E

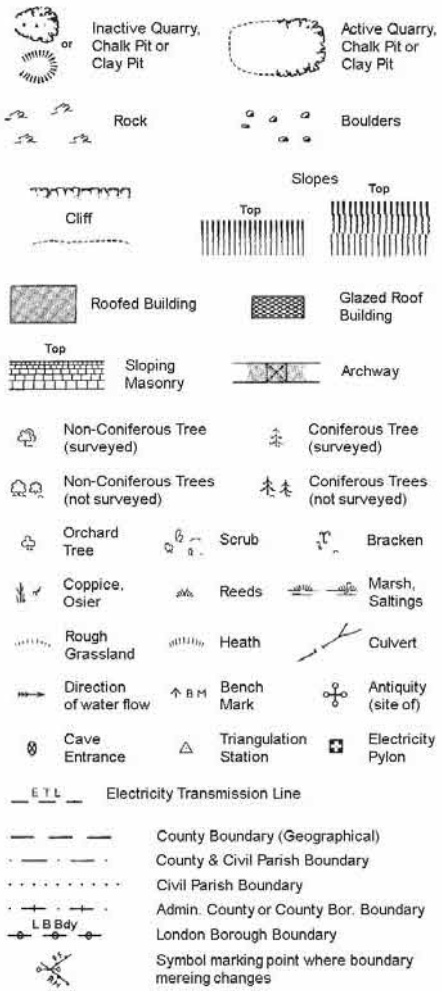
ENVIROCHECK REPORTING AND SELECTION OF HISTORICAL MAP EXTRACTS

Historical Mapping Legends

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

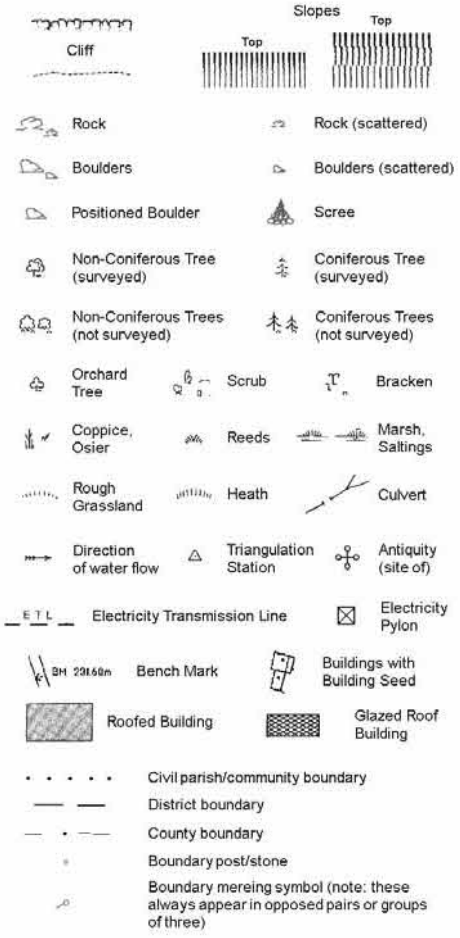
B.P B.S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



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

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



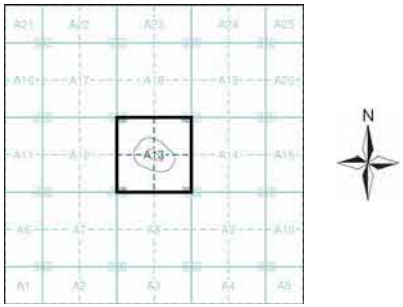
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

WSP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Stirlingshire	1:2,500	1859 - 1894	2
Stirlingshire	1:2,500	1898	3
Stirlingshire	1:2,500	1917	4
Ordnance Survey Plan	1:2,500	1958	5
Ordnance Survey Plan	1:2,500	1967	6
Ordnance Survey Plan	1:2,500	1974	7
Ordnance Survey Plan	1:2,500	1986	8
Additional SIMs	1:2,500	1988	9
Large-Scale National Grid Data	1:2,500	1992	10
Additional SIMs	1:2,500	1992	11
Historical Aerial Photography	1:2,500	2005	12

Historical Map - Segment A13



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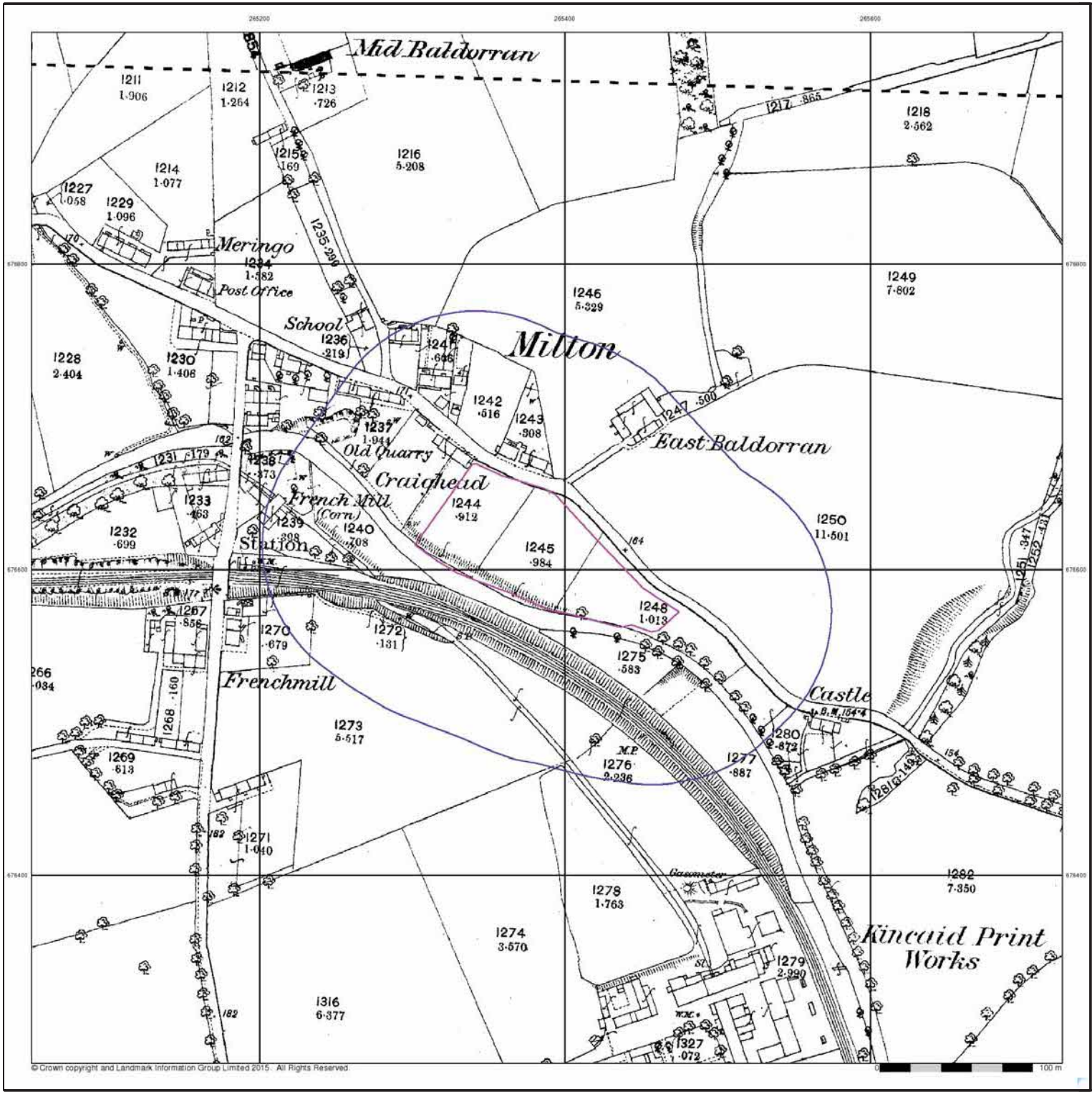
Search Buffer (m): 100

Site Details

Site at, Milton of Campsie, East Dunbartonshire

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



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Stirlingshire

Published 1859 - 1894

Source map scale - 1:2,500

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

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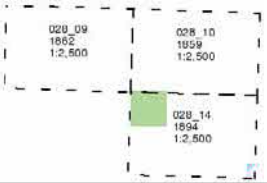

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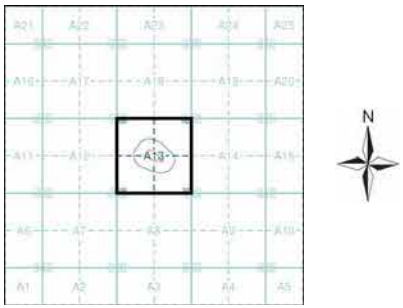

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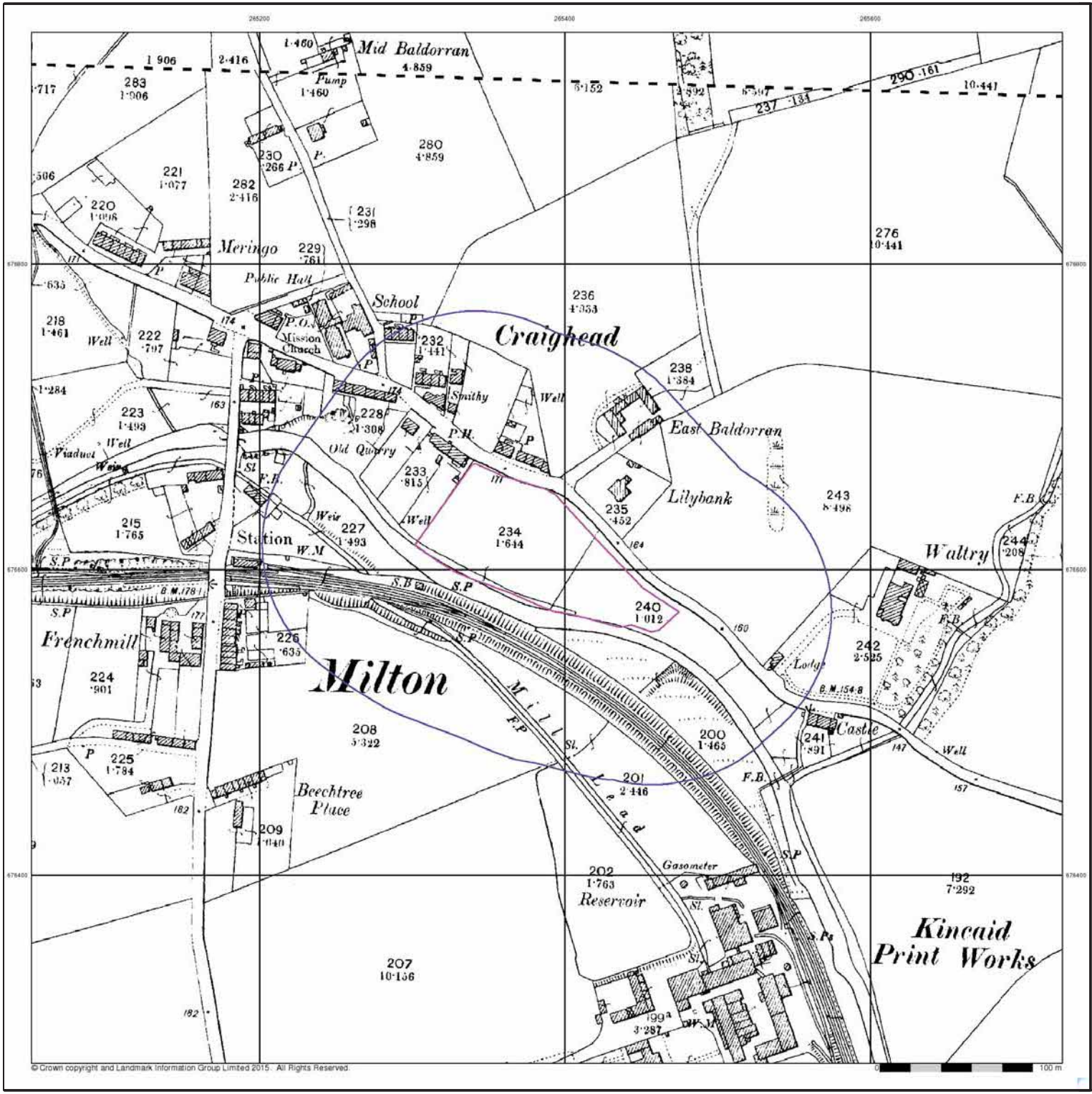

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Stirlingshire

Published 1898

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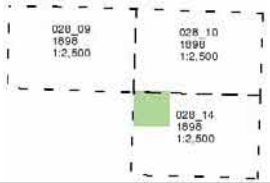

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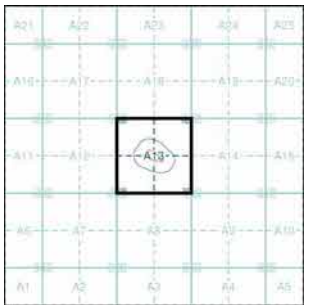

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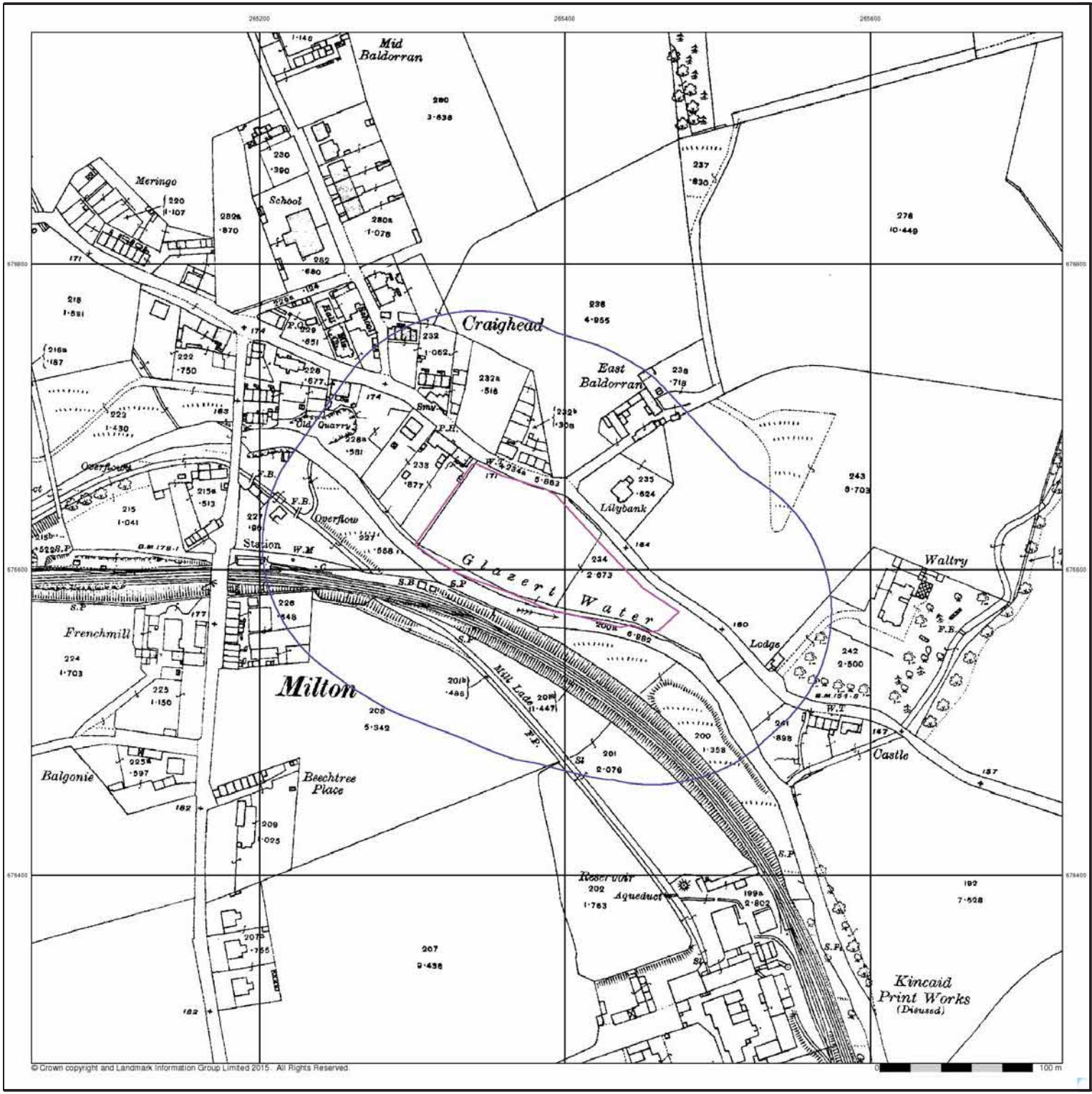

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Stirlingshire

Published 1917

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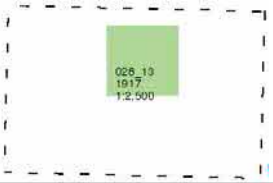

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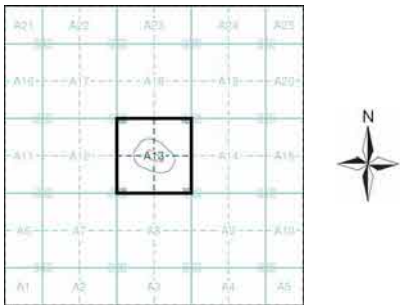

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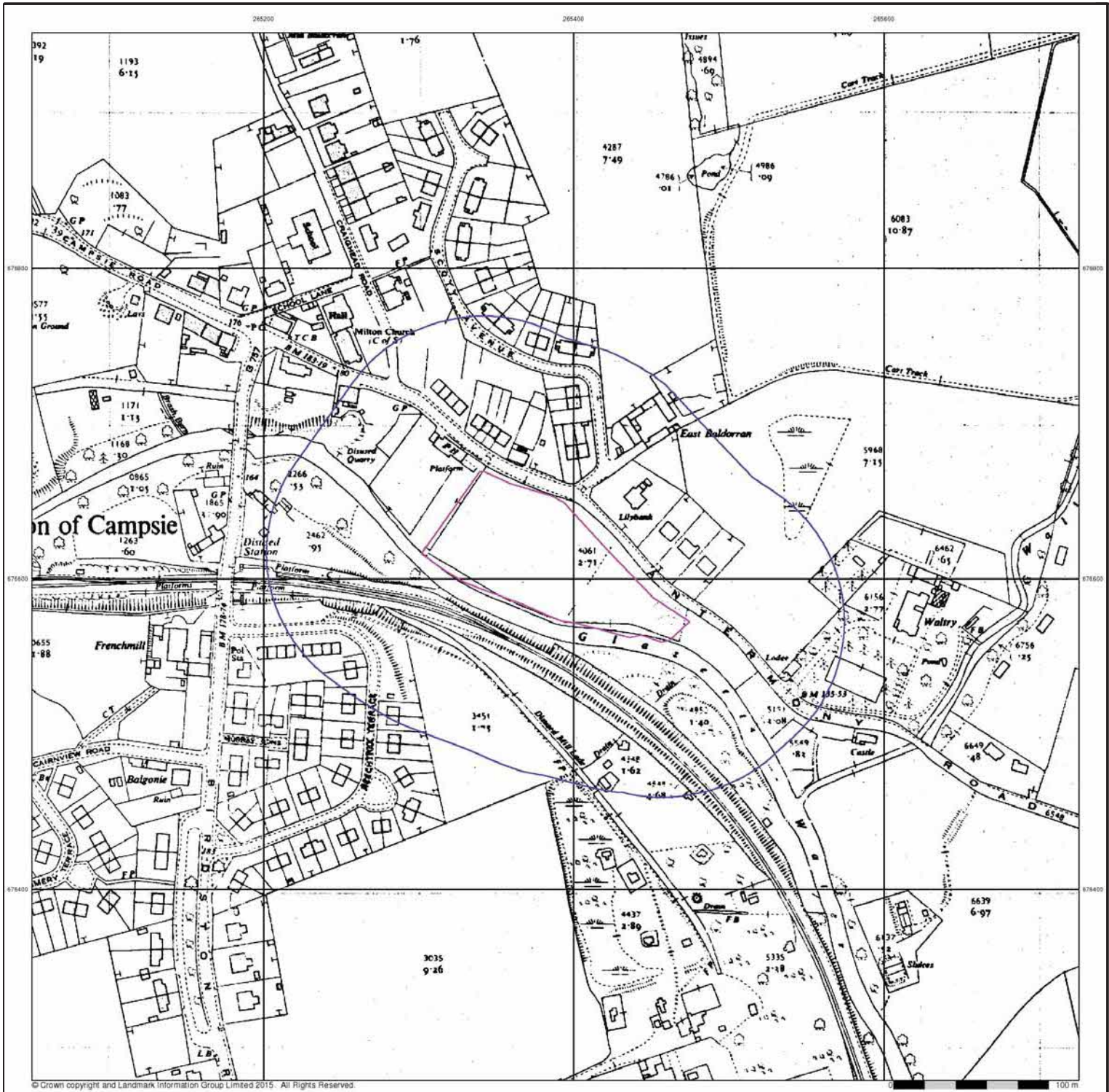

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Ordnance Survey Plan

Published 1958

Source map scale - 1:2,500

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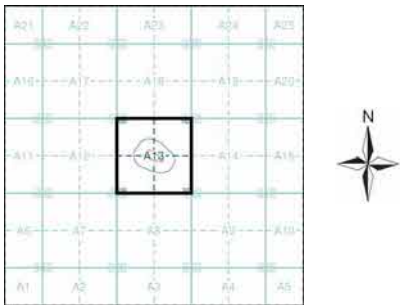
Historical Map - Segment A13



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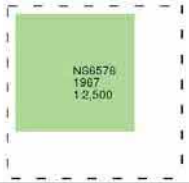
Ordnance Survey Plan

Published 1967

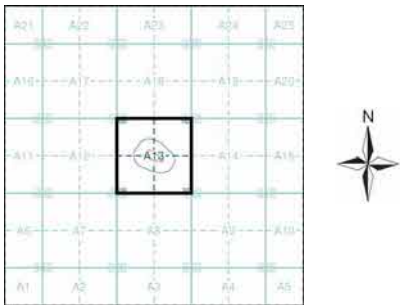
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

Site at, Milton of Campsie, East Dunbartonshire

Landmark INFORMATION GROUP

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

WSP

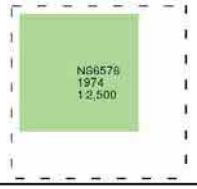
Ordnance Survey Plan

Published 1974

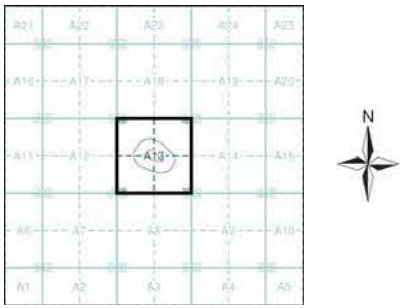
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

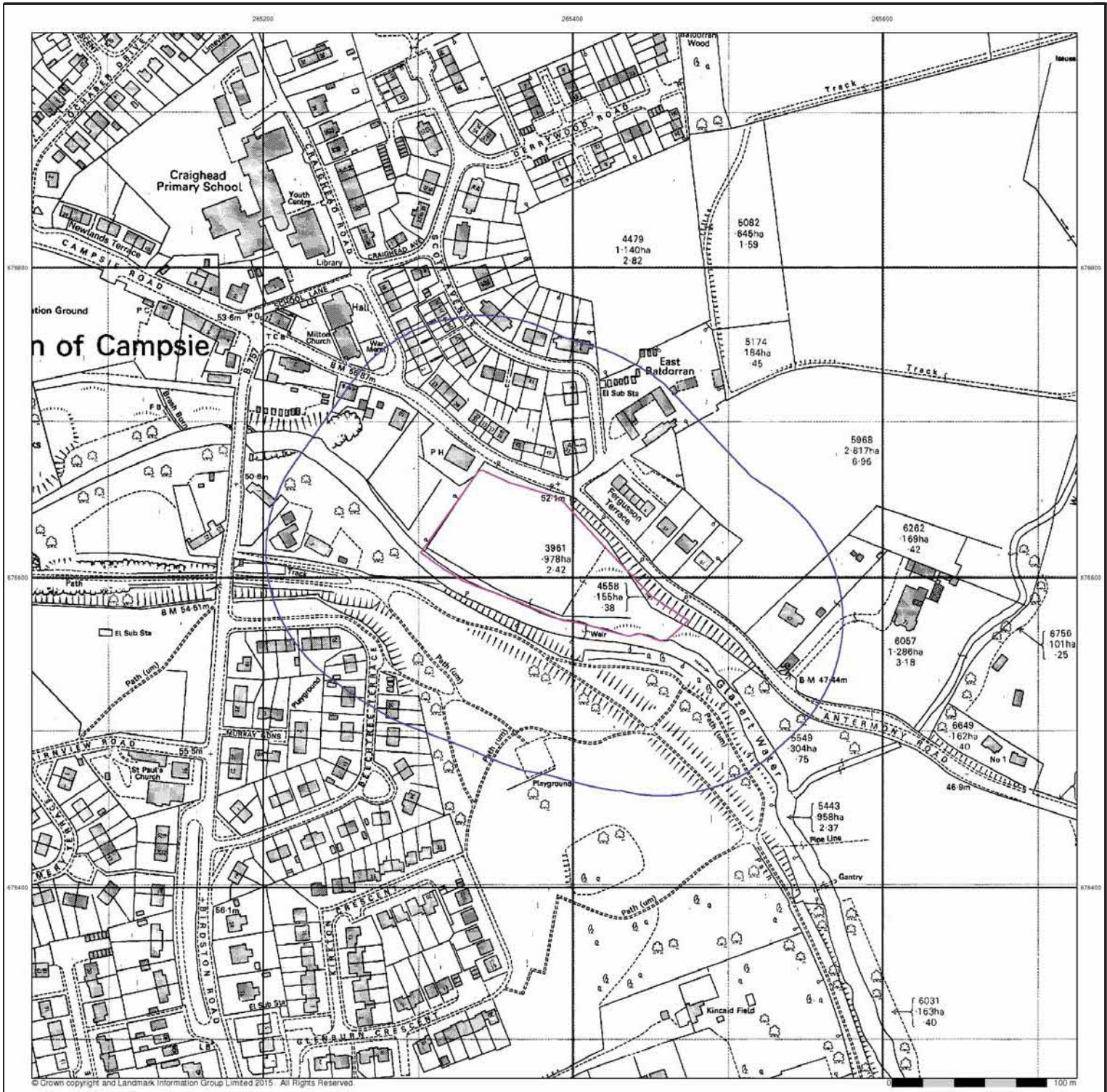


Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

Site at, Milton of Campsie, East Dunbartonshire



WSP

Ordnance Survey Plan

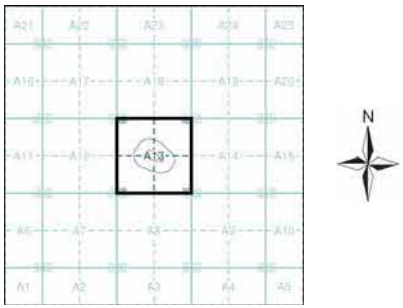
Published 1986

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

Site at, Milton of Campsie, East Dunbartonshire

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

Additional SIMs

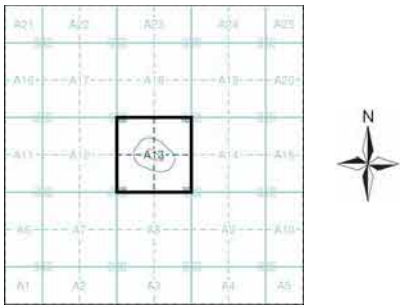
Published 1988

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

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Web: www.envirocheck.co.uk

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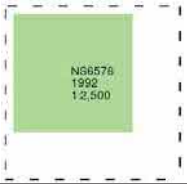
Large-Scale National Grid Data

Published 1992

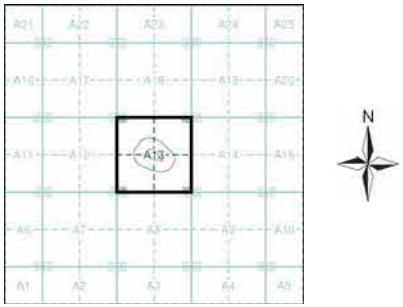
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

Site at, Milton of Campsie, East Dunbartonshire

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

WSP

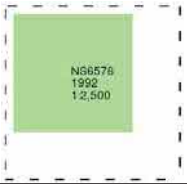
Additional SIMs

Published 1992

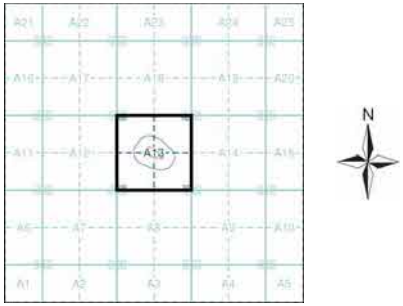
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

Site at, Milton of Campsie, East Dunbartonshire

Landmark INFORMATION GROUP

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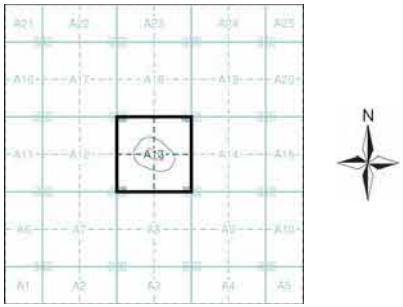
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Aerial Photography

Published 2005

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

Historical Aerial Photography - Segment A13



Order Details

Order Number:	102995423_1_1
Customer Ref:	70012724-140
National Grid Reference:	265390, 676610
Slice:	A
Site Area (Ha):	0.9
Search Buffer (m):	100

Site Details

Site at, Milton of Campsie, East Dunbartonshire

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
102995423_1_1

Customer Reference:
70012724-140

National Grid Reference:
265390, 676610

Slice:
A

Site Area (Ha):
0.9

Search Buffer (m):
1000

Site Details:

Site at
Milton of Campsie
East Dunbartonshire

Client Details:

Mr M Byerly
WSP UK Ltd
7 Lochside View
Edinburgh Park
Edinburgh
EH12 9DH

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	14
Industrial Land Use	21
Sensitive Land Use	24
Data Currency	25
Data Suppliers	29
Useful Contacts	30

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

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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v50.0

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 6		2	1	15
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 10	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 10				1
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 10	Yes	n/a	n/a	n/a
Drift Deposits	pg 10	1	n/a	n/a	n/a
Source Protection Zones					
River Flood Data (Scotland)	pg 11	Yes	Yes	n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a
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 12	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 12				1
Potentially Infilled Land (Non-Water)	pg 12				10
Potentially Infilled Land (Water)	pg 12		7	3	3
Registered Landfill Sites	pg 13				1
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 14	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 14	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 16			1	10
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 18	Yes	n/a	n/a	n/a
Mining Instability	pg 18	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 18	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 18	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19	Yes	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 21			3	3
Fuel Station Entries					
Points of Interest - Commercial Services	pg 21			3	1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 21		2	3	1
Points of Interest - Public Infrastructure	pg 22		1	1	3
Points of Interest - Recreational and Environmental	pg 22		4	4	4
Gas Pipelines					

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 24		1		2
Areas of Adopted Green Belt	pg 24	1			
Areas of Unadopted Green Belt	pg 24	1			
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					

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	A13SE (E)	0	2	265450 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	0	2	265400 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (NE)	0	2	265388 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	8	2	265450 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	15	2	265300 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	31	2	265388 676700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	38	2	265350 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	38	2	265500 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	57	2	265300 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	62	2	265250 676650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	70	2	265388 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	76	2	265550 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	79	2	265500 676650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	81	2	265350 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	81	2	265500 676700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	82	2	265388 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	84	2	265350 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	97	2	265400 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	104	2	265200 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	116	2	265450 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	122	2	265200 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	125	2	265250 676500

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	A13SW (S)	130	2	265350 676450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	131	2	265388 676800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	144	2	265400 676800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	147	2	265500 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	153	2	265200 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	159	2	265250 676800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	161	2	265450 676800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	174	2	265150 676700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	178	2	265650 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	178	2	265350 676400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	180	2	265600 676700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	181	2	265350 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	181	2	265388 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	184	2	265550 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	190	2	265400 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	195	2	265300 676400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	202	2	265100 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	203	2	265250 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	207	2	265450 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	218	2	265600 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	226	2	265700 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	227	2	265350 676350

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	A13SE (E)	227	2	265700 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	229	2	265200 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	231	2	265350 676900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	231	2	265150 676800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	237	2	265700 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	242	2	265300 676350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	253	2	265050 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	257	2	265700 676450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	260	2	265250 676350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	260	2	265700 676700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	263	2	265150 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	276	2	265750 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	277	2	265750 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	278	2	265050 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	278	2	265750 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	281	2	265350 676950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	285	2	265750 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	302	2	265050 676450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	303	2	265000 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	304	2	265000 676650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	310	2	265000 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	314	2	265200 676950

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)	327	2	265800 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	331	2	265350 677000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	331	2	265388 677000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	335	2	265800 676650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	336	2	265300 676250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	345	2	265000 676450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	353	2	265250 676250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	359	2	264950 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	364	2	265388 676200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	366	2	265500 677000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	372	2	265000 676400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	376	2	265850 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	377	2	264950 676750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	377	2	265850 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	381	2	265350 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	381	2	265388 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	383	2	265850 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	384	2	265850 676650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	386	2	265400 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	392	2	265250 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	396	2	265450 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	402	2	264900 676608

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	A12SE (W)	403	2	264900 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	408	2	265600 677000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	422	2	265350 676150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	423	2	264950 676850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	426	2	265900 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	427	2	265900 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	433	2	265900 676650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	433	2	265300 676150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	438	2	265000 676300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	443	2	265900 676450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	451	2	265600 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	452	2	264950 676900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	452	2	264850 676608
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	453	2	264850 676600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	454	2	265200 677100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	457	2	264850 676550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	460	2	265900 676400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	463	2	265388 676100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (NE)	467	2	265750 676950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	472	2	265150 677100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	476	2	265650 677050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	477	2	265950 676608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	481	2	265900 676350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	482	2	265950 676500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	495	2	265850 676250
1	**Discharge Consents** Operator: John T Bell And Sons Ltd Property Type: Not Given Location: Temporary Discharge From, Extended Aeration Plant Stage 1, Sewage Purification Works At, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 30461 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 13th January 1972 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	165	3	265500 676400
2	**Discharge Consents** Operator: Stirling County Council Property Type: Not Given Location: 12 Inch Diameter Pipe Discharging To The, Glazert Water From The, Sewage Disposal Works, MILTON OF CAMPSIE, Stirlingshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 3686 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 3rd June 1971 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	212	3	265600 676400
3	**Discharge Consents** Operator: Alexander Russell Ltd Property Type: Not Given Location: Propoted Toilet Facilities At, Alton Quarry, MILTON OF CAMPSIE, Stirlingshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 1708 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 23rd September 1968 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	386	3	265600 676200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Universal Pulp Containers Ltd Property Type: Not Given Location: Outlet From Number 2 Mill, Lillyburn Works To, Glazert Water At, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 37091 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 13th March 1975 Revocation Date: Not Supplied Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water; Revoked **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	529	3	264805 676795
4	**Discharge Consents** Operator: Universal Pulp Containers Ltd Property Type: Not Given Location: Outlet From Number 1 Mill, Lillyburn Works To, Glazert Water At, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 37101 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 13th March 1975 Revocation Date: Not Supplied Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water; Revoked **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	530	3	264805 676800
4	**Discharge Consents** Operator: Universal Pulp Containers Ltd Property Type: Not Given Location: 6 Inch Diameter Pipe From Septic Tank, For Number 1 Mill; Killyburn Works, Discharging To Glazert Water, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 37081 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 13th March 1975 Revocation Date: Not Supplied Discharge Type: Public Sewage: Septic Tank Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	533	3	264800 676795
4	**Discharge Consents** Operator: Universal Pulp Containers Ltd Property Type: Not Given Location: 6 Inch Diameter Earthenware Outlet From, Number 2 Mill And Office Block, Lillyburn Works, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 37031 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 13th March 1975 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	535	3	264800 676800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: W Kerr Property Type: Not Given Location: 2 Lochmill Holdings, Milton Of Campsie, GLASGOW, G65 8AB Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 12719 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 18th March 1996 Revocation Date: Not Supplied Discharge Type: Public Sewage: Septic Tank Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	592	3	266000 676300
6	**Discharge Consents** Operator: Colin J Mckenzie Property Type: Not Given Location: Septic Tank And Soakaway Serving The, Dwelling Known As Garden House At, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 198 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 12th August 1982 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Surface Water Discharge Environment: Onto Land Receiving Water: Underground Strata **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	645	3	264750 676950
7	**Discharge Consents** Operator: Mrs R Walker Property Type: Not Given Location: 59 Birdston Road, MILTON OF CAMPSIE, G65 8BX Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 13160 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 14th January 1997 Revocation Date: Not Supplied Discharge Type: Public Sewage: Septic Tank Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	662	3	265400 675900
8	**Discharge Consents** Operator: Strathclyde Regional Council Property Type: Not Given Location: Storm Sewage Overflow, 186 Ardgay Street, GLASGOW Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 7661 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 7th October 1987 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Tollcross Burn **Status: Not Supplied** Positional Accuracy: Unknown	A12SW (W)	672	3	264630 676610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: Kincaid Hotels Ltd Property Type: Not Given Location: Kincaid House Hotel, MILTON OF CAMPSIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 95 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 29th March 1962 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Tributary Of Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	771	3	265001 675901
10	**Discharge Consents** Operator: A Jamieson Property Type: Not Given Location: Barrhill Farm, LENNOXTOWN Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 99 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 28th June 1962 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Agricultural And Surface Discharge Environment: Freshwater Stream/River Receiving Water: Minor Tributary Of Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NW (W)	823	3	264500 676800
11	**Discharge Consents** Operator: Atkinson Vehicles (Scotland) Ltd Property Type: Not Given Location: New Premises At, Carlisle Road, AIRDRIE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 89 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 30th January 1962 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Browns Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	911	3	264600 677200
12	**Discharge Consents** Operator: Stirling County Council Property Type: Not Given Location: New Sewage Works, South Of, MILTON OF CAMPSIE, Stirlingshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 846 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st September 1967 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	925	3	265800 675700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Discharge Consents** Operator: Stirling County Council Property Type: Not Given Location: New Sewage Works, South Of, MILTON OF CAMPSIE, Stirlingshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 847 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st September 1967 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	927	3	265805 675700
12	**Discharge Consents** Operator: Stirling County Council Property Type: Not Given Location: New Sewage Works South Of, MILTON OF CAMPSIE, Stirlingshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 845 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st September 1967 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Glazert Water **Status: Not Supplied** Positional Accuracy: Unknown	A9SW (SE)	930	3	265800 675695
13	**Discharge Consents** Operator: Walter Alexander And Sons (Midland) Ltd Property Type: Not Given Location: Bus Depot, Milton Road, KIRKINTILLOCH Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 717 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 12th January 1967 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Luggie Water **Status: Not Supplied** Positional Accuracy: Unknown	A3NE (S)	961	3	265400 675600
	Nearest Surface Water Feature	A13SE (SE)	0	-	265407 676570
	River Quality Name: Not Supplied GQA Grade: River Quality C Reach: Not Supplied Estimated Distance (km): Not Supplied Flow Rate: Not Supplied Flow Type: Not Supplied Year: 1990	A8SE (S)	656	4	265435 675904
	Groundwater Vulnerability 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	A13SW (NE)	0	4	265388 676608
	Drift Deposits 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	A13SW (NE)	0	4	265388 676608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Flood Data (Scotland) Type: Flood Plain Depth Greater than 2 Metres Flood Plain Type: over 2m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SW (NE)	0	5	265388 676608
	River Flood Data (Scotland) Type: Flood Plain Depth Greater than 2 Metres Flood Plain Type: over 2m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (E)	0	5	265450 676600
	River Flood Data (Scotland) Type: Flood Plain Depth Greater than 2 Metres Flood Plain Type: over 2m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (SE)	34	5	265500 676550
	River Flood Data (Scotland) Type: Flood Plain Depth 0 -1 Metres Flood Plain Type: 0-1m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (SE)	72	5	265500 676500
	River Flood Data (Scotland) Type: Flood Plain Depth 1 - 2 Metres Flood Plain Type: 1-2m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (E)	79	5	265550 676550
	River Flood Data (Scotland) Type: Flood Plain Depth Greater than 2 Metres Flood Plain Type: over 2m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (SE)	105	5	265550 676500
	River Flood Data (Scotland) Type: Flood Plain Depth 0 -1 Metres Flood Plain Type: 0-1m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (E)	128	5	265600 676550
	River Flood Data (Scotland) Type: Flood Plain Depth 0 -1 Metres Flood Plain Type: 0-1m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (SE)	176	5	265600 676450
	River Flood Data (Scotland) Type: Flood Plain Depth 0 -1 Metres Flood Plain Type: 0-1m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (SE)	184	5	265550 676400
	River Flood Data (Scotland) Type: Flood Plain Depth Greater than 2 Metres Flood Plain Type: over 2m estimated 100yr flood depth Source: Centre for Ecology and Hydrology	A13SE (SE)	212	5	265600 676400
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: East Dunbartonshire Council - Has supplied landfill data		0	6	265388 676608
14	**Local Authority Recorded Landfill Sites** Location: Burnibrae Farm, Milton Of Campsie Reference: Not Supplied Authority: East Dunbartonshire Council, Development And Environment Directorate **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A19SW (NE)	719	6	265918 677141
15	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18SE (N)	617	11	265433 677279
16	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18SW (NW)	624	11	265065 677228
17	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A17SE (NW)	652	11	265035 677244
18	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NW (N)	674	11	265121 677306
19	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NW (N)	701	11	265288 677368
20	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NW (N)	718	11	265169 677365
21	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1979	A17NE (NW)	811	11	264961 677385
22	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NE (N)	834	11	265711 677421
23	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NE (N)	866	11	265587 677499
24	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NE (N)	903	11	265563 677544
25	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13SW (W)	39	11	265266 676602
26	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13SW (SW)	42	11	265335 676542
27	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13NW (W)	73	11	265231 676633
28	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13SW (S)	97	11	265388 676474

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13NW (W)	158	11	265154 676670
30	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13SE (S)	176	11	265477 676385
31	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13NW (NW)	224	11	265114 676737
32	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1864	A13NW (NW)	271	11	265085 676779
33	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A13NW (NW)	326	11	265057 676835
34	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A8NW (S)	451	11	265357 676119
35	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1864	A12NE (NW)	555	11	264810 676872
36	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A18NE (N)	919	11	265707 677514
37	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A18NE (N)	976	11	265723 677569
38	**Registered Landfill Sites** Licence Holder: West Of Scotland Water Authority Licence Reference: WML/W/20156 Site Location: Birdston S.T.Works, Birdston Road, Milton Of Campsie, Dunbartonshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 419 Balmore Road, GLASGOW, Strathclyde, G22 6NU Authority: Scottish Environment Protection Agency, West Region Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Operational as far as is knownOperational Dated: 21st June 2000 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste Prohibited Waste: Waste Soils Contaminated Soil Other Waste/Waste Not Otherwise Specified Pcb/Pct Bearing Waste Special Waste (As In Epa 1990:S62 Of 1996 Regs)	A8SE (S)	796	3	265661 675790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Clackmannan Group	A13SW (NE)	0	2	265388 676608
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NE)	0	2	265388 676608
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (W)	0	2	265340 676609
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	64	2	265289 676707
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	64	2	265405 676714
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	303	2	265000 676641
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	330	2	264972 676632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	331	2	265388 677000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (S)	357	2	265416 676205
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	357	2	265787 676743
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (SE)	375	2	265625 676224
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	437	2	264875 676527
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (W)	645	2	264663 676698

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (W)	704	2	264615 676770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	722	2	264715 677036
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	738	2	266032 677055
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NE (SE)	834	2	266070 675989
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	890	2	264500 677000
39	**BGS Recorded Mineral Sites** Site Name: Alton Sand Pits Location: Alton Farm, Milton Of Campsie, Kirkintilloch, Dumbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 174668 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deltaic (And/Or Subaqueous Fan) Deposits Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	449	2	265735 676205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**BGS Recorded Mineral Sites** Site Name: Derry Pit Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32103 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Limestone Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A18SE (N)	622	2	265455 677280
41	**BGS Recorded Mineral Sites** Site Name: Glorat Lime Works Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32102 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Limestone Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	677	2	265030 677270
41	**BGS Recorded Mineral Sites** Site Name: Glorat Lime Works Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32102 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	677	2	265030 677270
42	**BGS Recorded Mineral Sites** Site Name: Glorat Lime Works Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32101 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	683	2	265120 677315
42	**BGS Recorded Mineral Sites** Site Name: Glorat Lime Works Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32101 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Limestone Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	683	2	265120 677315
42	**BGS Recorded Mineral Sites** Site Name: Derry Coal & Lime Works Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32100 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Limestone Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	707	2	265090 677330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	**BGS Recorded Mineral Sites** Site Name: Kincraig Location: , Birdston, Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 232057 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Upper Limestone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	729	2	264758 676131
44	**BGS Recorded Mineral Sites** Site Name: Alton Sand Pits Location: Alton Farm, Milton Of Campsie, Kirkintilloch, Dumbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 174669 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deltaic (And/Or Subaqueous Fan) Deposits Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	792	2	266110 676100
45	**BGS Recorded Mineral Sites** Site Name: Derry Coal & Lime Works Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 32099 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hurlet Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	822	2	264965 677400
46	**BGS Recorded Mineral Sites** Site Name: Milton Location: , Milton Of Campsie, Kirkintilloch, Dunbartonshire Source: British Geological Survey, National Geoscience Information Service Reference: 232058 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Lower Limestone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	843	2	264468 676733
	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.	A13SW (NE)	0	7	265388 676608
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	-	265388 676608
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	122	2	265306 676787
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	2	265390 676612
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	142	2	265188 676700
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	2	265390 676612
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	142	2	265188 676700
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	2	265345 676620
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	2	265390 676612
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	21	2	265342 676567
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	30	2	265325 676694
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	90	2	265449 676719
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	2	265390 676612
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	11	2	265336 676565
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	30	2	265325 676694
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	90	2	265450 676718
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	142	2	265188 676700
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	2	265390 676612
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	142	2	265188 676700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A13SW (NE)	0	2	265388 676608
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	2	265388 676608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**Contemporary Trade Directory Entries** Name: Full Steam Ahead Location: 2, Lochalsh Crescent, Milton of Campsie, Glasgow, G66 8EZ Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	390	-	265250 677048
48	**Contemporary Trade Directory Entries** Name: Bell Hiab Hire Location: 22, Hillside Terrace, Milton of Campsie, Glasgow, G66 8BP Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	392	-	264921 676525
49	**Contemporary Trade Directory Entries** Name: Universal Pulp Packaging Ltd Location: Lillyburn Works, Campsie Road, Milton of Campsie, Glasgow, G66 8EE Classification: Paper & Cardboard Products & Packaging - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	454	-	264867 676742
50	**Contemporary Trade Directory Entries** Name: Q S P Print Ltd Location: 1, Limetree Walk, Milton of Campsie, Glasgow, G66 8HJ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	718	-	264843 676064
51	**Contemporary Trade Directory Entries** Name: Strathlene Cleaning Services Location: 6, Valleyfield, Milton of Campsie, Glasgow, G66 8HN Classification: Cleaning Services - Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	861	-	264482 676878
52	**Contemporary Trade Directory Entries** Name: D L Williamson Location: Burniebrae Cottage, Milton of Campsie, Glasgow, G66 8AB Classification: Refractory Materials & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	956	-	266226 677163
53	**Points of Interest - Commercial Services** Name: Bell Hiab Hire Location: 22 Hillside Terrace, Milton Of Campsie, Glasgow, G66 8BP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (W)	392	8	264921 676525
54	**Points of Interest - Commercial Services** Name: Spotless Mobile Valeting Location: 9 Willow Drive, Milton Of Campsie, Glasgow, G66 8DY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	459	8	265132 676184
54	**Points of Interest - Commercial Services** Name: Spotless Mobile Valeting Location: 9 Willow Drive, Milton Of Campsie, Glasgow, G66 8DY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	459	8	265132 676184
55	**Points of Interest - Commercial Services** Name: J C C Ferguson Location: Burniebrae Farm, Milton Of Campsie, Glasgow, G66 8AB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19SE (NE)	948	8	266229 677145
56	**Points of Interest - Manufacturing and Production** Name: William Turner & Son Location: East Baldoran, Scott Avenue, Milton Of Campsie, Glasgow, G66 8DQ Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13NE (NE)	74	8	265453 676694
56	**Points of Interest - Manufacturing and Production** Name: William Turner & Son Location: East Baldoran, Scott Avenue, Milton Of Campsie, Glasgow, G66 8DQ Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13NE (NE)	74	8	265453 676694

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	**Points of Interest - Manufacturing and Production** Name: Tank Location: G66 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	414	8	264889 676642
58	**Points of Interest - Manufacturing and Production** Name: Lillyburn Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	447	8	264884 676774
58	**Points of Interest - Manufacturing and Production** Name: Lillyburn Works Location: G66 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A12NE (W)	454	8	264866 676742
59	**Points of Interest - Manufacturing and Production** Name: Tank Location: G66 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	934	8	265611 675639
60	**Points of Interest - Public Infrastructure** Name: Weir Location: G66 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	6	8	265416 676562
61	**Points of Interest - Public Infrastructure** Name: Weir Location: G66 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	425	8	265637 676174
62	**Points of Interest - Public Infrastructure** Name: Sluice Location: G66 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	609	8	264761 676895
63	**Points of Interest - Public Infrastructure** Name: Mount Dam Location: G66 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	771	8	264620 676976
64	**Points of Interest - Public Infrastructure** Name: Sewage Treatment Works Location: G66 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	965	8	265619 675608
65	**Points of Interest - Recreational and Environmental** Name: Playground Location: Kirkton Crescent, G66 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (S)	93	8	265374 676482
65	**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	A13SE (S)	97	8	265398 676472
66	**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	A13SW (SW)	117	8	265229 676525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	**Points of Interest - Recreational and Environmental** Name: Playground Location: Murray Gardens, G66 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (SW)	118	8	265226 676526
67	**Points of Interest - Recreational and Environmental** Name: Playground Location: Scott Avenue, G66 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	317	8	265298 676983
67	**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	A18SW (N)	318	8	265284 676981
68	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	337	8	265015 676793
68	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Campsie Road, G66 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12NE (NW)	356	8	265000 676803
69	**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	A7NE (SW)	739	8	264881 676009
70	**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	A7NE (SW)	774	8	264728 676097
70	**Points of Interest - Recreational and Environmental** Name: Playground Location: Munro Drive, G66 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	787	8	264714 676094
70	**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	A7NW (SW)	850	8	264650 676072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**Ancient Woodland** Name: Not Supplied Reference: 29722 Area(m²): 57278.26 Type: Long-Established Woodland of Plantation Origin	A13NE (N)	245	9	265484 676877
72	**Ancient Woodland** Name: Not Supplied Reference: 29716 Area(m²): 29268.6 Type: Long-Established Woodland of Plantation Origin	A18NW (N)	658	9	265210 677313
73	**Ancient Woodland** Name: Not Supplied Reference: 29713 Area(m²): 55367.67 Type: Long-Established Woodland of Plantation Origin	A17NE (NW)	1000	9	264735 677465
74	**Areas of Adopted Green Belt** Authority: East Dunbartonshire Council Plan Name: East Dunbartonshire Local Plan 2 **Status: Adopted** Plan Date: 31st October 2011	A13SW (NE)	0	10	265388 676608
75	**Areas of Unadopted Green Belt** Authority: East Dunbartonshire Council Plan Name: East Dunbartonshire Local Development Plan **Status: Proposed Plan** Plan Date: 1st April 2015	A13SW (NE)	0	10	265388 676608

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
East Dunbartonshire Council	December 2014	Annual Rolling Update
North Lanarkshire Council	January 2015	Annually
Stirling Council	October 2014	Annual Rolling Update
Discharge Consents		
Scottish Environment Protection Agency - East Region	June 2001	Not Applicable
Scottish Environment Protection Agency - West Region	May 1998	Not Applicable
Enforcement and Prohibition Notices		
Scottish Environment Protection Agency - East Region	January 2012	Not Applicable
Scottish Environment Protection Agency - West Region	January 2012	Not Applicable
Integrated Pollution Controls		
Scottish Environment Protection Agency - Head Office	February 1998	Variable
Scottish Environment Protection Agency - East Region	March 2002	Not Applicable
Scottish Environment Protection Agency - West Region	March 2002	Not Applicable
Local Authority Pollution Prevention and Controls		
Scottish Environment Protection Agency - East Region	March 2002	Not Applicable
Scottish Environment Protection Agency - West Region	March 2002	Not Applicable
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Prosecutions Relating to Authorised Processes		
Scottish Environment Protection Agency - East Region	March 2007	Not Applicable
Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Prosecutions Relating to Controlled Waters		
Scottish Environment Protection Agency - East Region	March 2007	Not Applicable
Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Registered Radioactive Substances		
Scottish Environment Protection Agency - East Region	April 1996	Not Applicable
Scottish Environment Protection Agency - West Region	April 1996	Not Applicable
Scottish Environment Protection Agency - Head Office	January 1998	Not Applicable
River Quality		
Scottish Environment Protection Agency - Head Office	December 1990	Not Applicable
Water Abstractions		
Scottish Executive - Agriculture, Environment and Fisheries Department	December 1997	Not Applicable
Water Industry Act Referrals		
Scottish Environment Protection Agency - East Region	April 1996	Not Applicable
Scottish Environment Protection Agency - West Region	April 1996	Not Applicable
Groundwater Vulnerability		
Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
Drift Deposits		
Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
River Flood Data (Scotland)		
Centre for Ecology and Hydrology	September 1999	Not Applicable
Detailed River Network Lines		
Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
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	January 1998	Not Applicable
Scottish Environment Protection Agency - West Region	January 1998	Not Applicable
Scottish Environment Protection Agency - East Region	March 2002	Not Applicable
Local Authority Landfill Coverage		
East Dunbartonshire Council - Development And Environment Directorate	May 2000	Not Applicable
North Lanarkshire Council	May 2000	Not Applicable
Stirling Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
East Dunbartonshire Council - Development And Environment Directorate	May 2000	Not Applicable
North Lanarkshire Council	May 2000	Not Applicable
Stirling Council	May 2000	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	December 2005	Not Applicable
Scottish Environment Protection Agency - East Region - Perth Office	December 2005	Not Applicable
Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Transfer Sites		
Scottish Environment Protection Agency - East Region	December 2005	Not Applicable
Scottish Environment Protection Agency - East Region - Perth Office	December 2005	Not Applicable
Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Treatment or Disposal Sites		
Scottish Environment Protection Agency - East Region	December 2005	Not Applicable
Scottish Environment Protection Agency - East Region - Perth Office	December 2005	Not Applicable
Scottish Environment Protection Agency - West Region	December 2005	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites		
Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
North Lanarkshire Council - Planning & Environment (Northern Division)	April 2008	Annual Rolling Update
North Lanarkshire Council - Planning & Environment (Southern Division)	April 2008	Annual Rolling Update
North Lanarkshire Council - Planning & Environment (Central Division)	April 2016	Annual Rolling Update
East Dunbartonshire Council - Planning Department	February 2016	Annual Rolling Update
Stirling Council - Planning Department	October 2015	Annual Rolling Update
Planning Hazardous Substance Consents		
North Lanarkshire Council - Planning & Environment (Northern Division)	April 2008	Annual Rolling Update
North Lanarkshire Council - Planning & Environment (Southern Division)	April 2008	Annual Rolling Update
North Lanarkshire Council - Planning & Environment (Central Division)	April 2016	Annual Rolling Update
East Dunbartonshire Council - Planning Department	February 2016	Annual Rolling Update
Stirling Council - Planning Department	October 2015	Annual Rolling Update

Data Currency

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	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
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	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	September 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	July 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	September 2016	Quarterly
Points of Interest - Education and Health PointX	September 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2016	Quarterly
Points of Interest - Public Infrastructure PointX	September 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2016	Quarterly

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Scottish Natural Heritage	August 2016	Bi-Annually
Areas of Adopted Green Belt		
East Dunbartonshire Council	September 2016	As notified
North Lanarkshire Council	September 2016	As notified
Stirling Council	September 2016	As notified
Areas of Unadopted Green Belt		
East Dunbartonshire Council	September 2016	As notified
North Lanarkshire Council	September 2016	As notified
Stirling Council	September 2016	As notified
Environmentally Sensitive Areas		
Scottish Executive - Geographic Information Service	April 2016	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
East Dunbartonshire Council	April 2016	Bi-Annually
North Lanarkshire Council	April 2016	Bi-Annually
Stirling Council	April 2016	Bi-Annually
Marine Nature Reserves		
Scottish Natural Heritage	February 2012	Bi-Annually
National Nature Reserves		
Scottish Natural Heritage	April 2016	Bi-Annually
Nitrate Vulnerable Zones		
Scottish Executive - Geographic Information Service	April 2016	Annually
Ramsar Sites		
Scottish Natural Heritage	April 2016	Bi-Annually
Sites of Special Scientific Interest		
Scottish Natural Heritage	April 2016	Bi-Annually
Special Areas of Conservation		
Scottish Natural Heritage	April 2016	Bi-Annually
Special Protection Areas		
Scottish Natural Heritage	April 2016	Bi-Annually
World Heritage Sites		
Historic Scotland	March 2016	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Scottish Environment Protection Agency - West Region** 5 Redwood Crescent, Peel Park, East Kilbride, South Lanarkshire, G74 5PP	Telephone: 01355 574200 Fax: 01355 574688
4	**Scottish Environment Protection Agency - Head Office** Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
5	**Centre for Ecology and Hydrology** Maclean Building, Crowmarsh Gifford, WALLINGFORD, Oxfordshire, OX10 8BB	Telephone: 01491 838800 Fax: 01491 692424
6	**East Dunbartonshire Council - Development And Environment Directorate** Whitegates, Lenzie Road, Kirkintilloch, East Dunbartonshire, G66 3BQ	Telephone: 0141 578 8402 Website: www.eastdunbarton.gov.uk
7	**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
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**Scottish Natural Heritage** 12 Hope Terrace, Edinburgh, Midlothian, EH9 2AS	Telephone: 0131 447 4784 Fax: 0131 446 2279
10	**East Dunbartonshire Council** Omnia Building, Westerhill Road, Bishopbriggs, Strathclyde, G64 2TQ	Telephone: 0141 578 8000 Fax: 0141 777 8576 Website: www.eastdunbarton.gov.uk
11	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmark.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Appendix F

FURTHER RELEVANT INFORMATION

APPENDIX F-1

COAL AUTHORITY REPORTING

The Coal Authority

Resolving the impacts of mining

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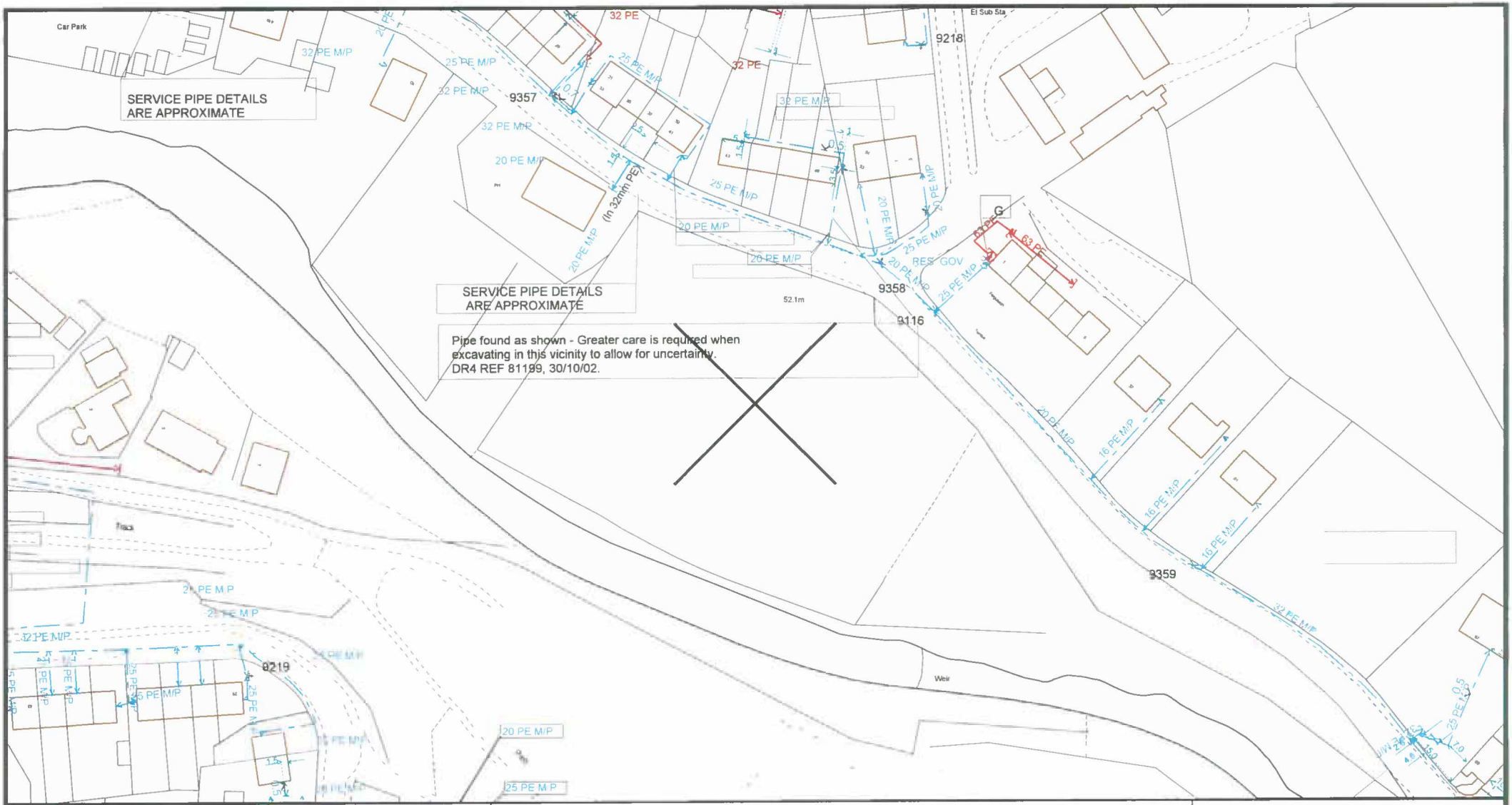
APPENDIX F-2

UTILITIES



USER ID: amcmilla
DATE: 13 Oct 2016
EXTRACT DATE: 07 Jul 2016
MAP REF: NS6576NW
CENTRE: 265368, 676627
SCALE: 1:1,250

- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- NHP Mains

Valve | Depth of Cover | Syphon | Diameter Change | Material Change

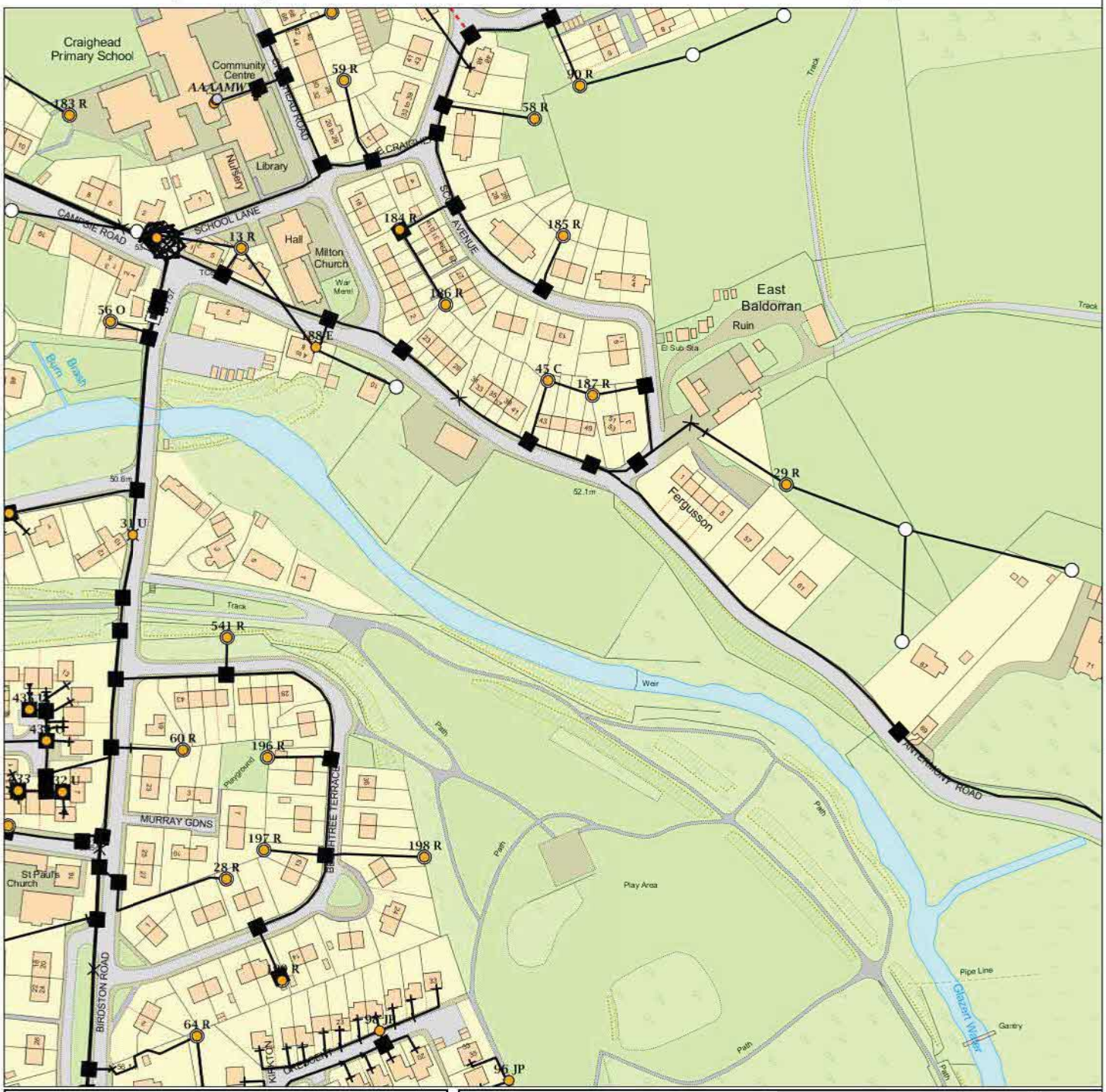
This plan shows those pipes owned by Scotia Gas Networks plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Scotia Gas Networks plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Product: UtilityMaps
Version: 1.6.8.1
Template: 'Scotia Gas Networks (A4 Landscape)'

N

Scotia Gas Networks
Delivering gas safely, reliably and efficiently

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

openreach BT

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

KEY TO BT SYMBOLS

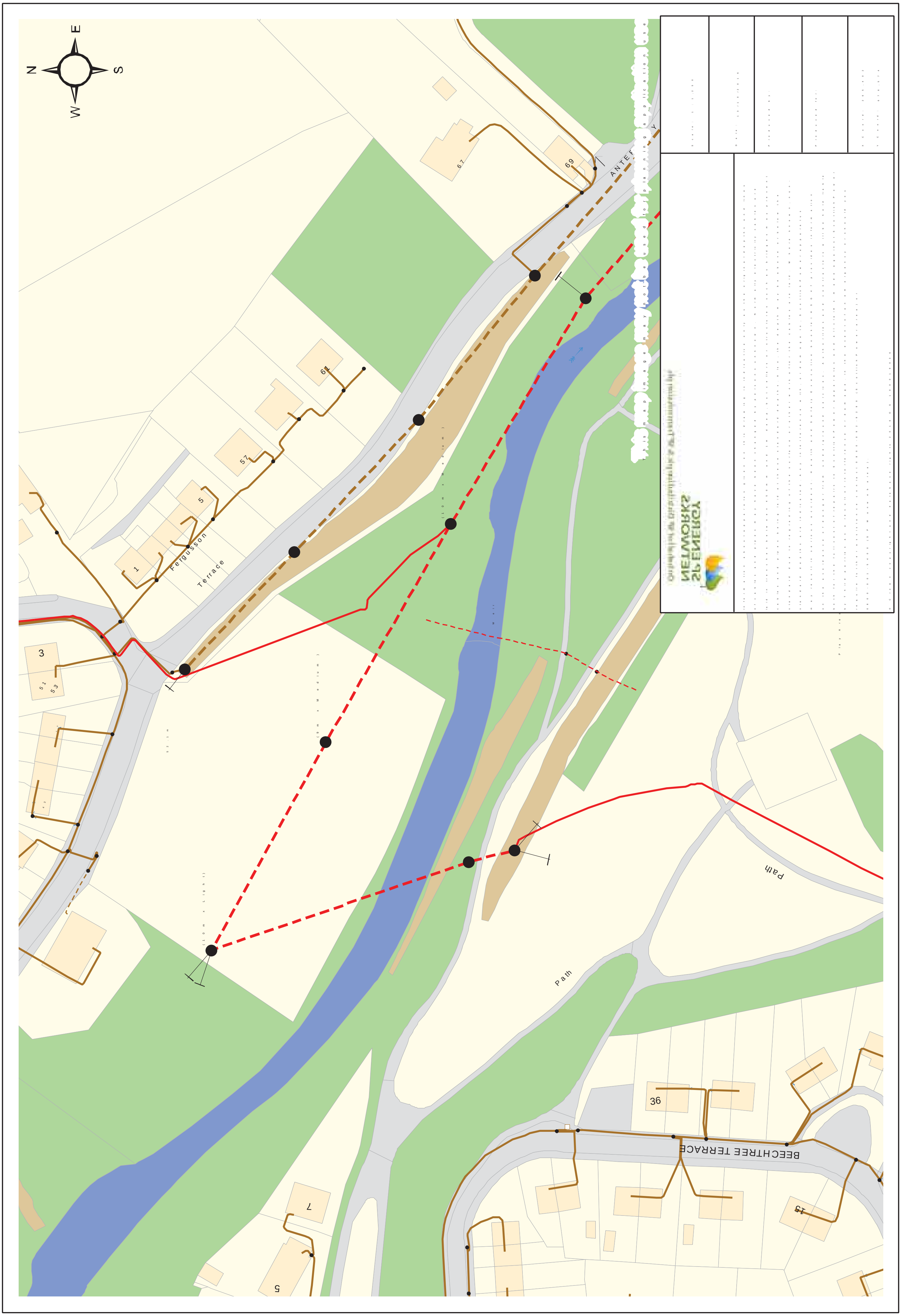
DP	Pole
Planned DP	Planned Pole
PCP	Joint Box
Planned PCP	Change Of State
Built	Split Coupling
Planned	Duct Tee
Inferred	Planned Box
Building	Manhole
Kiosk	Planned Manhole
Hatchings	Cabinet
	Planned Cabinet

Other proposed plant is shown using dashed lines.
BT Symbols not listed above maybe disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation

openreach a BT Group business

BT Ref : XXE11338T
Map Reference : (centre) NS6536876627
Easting/Northing : (centre) 265368,676
Issued : 13/10/2016 11:33:30

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk



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APPENDIX F-3

LOCAL AUTHORITY RESPONSES

sustainable thriving achieving
East Dunbartonshire Council
www.eastdunbarton.gov.uk

THOMAS GLEN
DEPUTE CHIEF EXECUTIVE
PLACE, NEIGHBOURHOOD
AND CORPORATE ASSETS
Community Protection
Environmental Health
Southbank House
Strathkelvin Place
Kirkintilloch
G66 1XQ

Tel: 0300 123 4510

Your Ref:
Our Ref: 16/03595/PUBCON
If phoning or calling ask for: Adeyemi Roland
Ext No. 5776
e:mail: [redacted]

8th November 2016

Marte Nikolaisen
WSP UK Limited
7 Lochside View,
Edinburgh Park,
Edinburgh, EH12 9DH

Dear Sir/Madam

Environmental Information Enquiry- Craigfoot Field Allotment, Milton of Campsie

Further to your email enquiry to this department on 8th of November 2016, regarding the above address, we have made the following responses

We are currently unaware of any ground contamination issues associated with the above site; however we are aware of three sites in close proximity (250m radius) to the site whose past industrial use may suggest possible contamination may exist.

- *Kincaid Print works 1895 had a gasometer to north western edge of site and Railway line to east and north running alongside the Glazert water*
- *Lilyburn Print Works 1895, Print works expanded across most of site, Factory changed to "Moulded pulp containers". No sign of gasometer and waste vegetated over. Tanks marked on site and new waste material dumped in south eastern leg of site.*
- *Quarry Craighead*

The information contained in this letter is believed by the Council to be correct but it is not warranted and no liability whatsoever will attach to the Council or their Officers, Employees and/or Agents in respect of any loss incurred by any person or party by reason of any incorrectness in the said information.

If further information or assistance is required, please contact the above named Officer.

Yours faithfully

[redacted]

Adeyemi Roland
Environmental Protection Officer

APPENDIX F-4

RIVER BASIN MANAGEMENT PLANS AND WATER QUALITY DATA

Water body information sheet for water body 10145 in Clyde

General details

Water body name:	Glazert Water/Finglen Burn
Water body Identifier code:	10145
Length:	15.14 km
Water body category:	River
River basin district:	Scotland
Area advisory group:	Clyde
Catchment:	River Kelvin
Associated protected areas:	Balglass Corries - SSSI River Kelvin - FRESHWATER FISH (EXISTING)
Associated groundwater:	Kelvin Valley
Responsible body:	SEPA Glasgow & Dunbarton
Heavily modified:	Yes
Artificial:	No
Typology:	Mid-altitude Small Calcareous
National Grid Reference:	NS 60971 78721
Latitude:	55.98126
Longitude:	-4.22981

Current status of this water body

Classification results are updated annually, as part of SEPA's commitment to monitor and assess the condition of the environment.

Once the classification is agreed, as part of river basin management planning, the pressures and measures for every water body are reviewed to ensure that they reflect this improved understanding of the environment. Objectives are reviewed as part of the six yearly planning cycle and any proposed changes to objectives will be presented in the draft river basin plans http://sepa.org.uk/water/river_basin_planning.aspx.

This worksheet was produced using the most up to date classification results but the measures, pressures and objectives shown may not yet align to these classification results. Please contact rbmp@sepa.org.uk if you require further information on this water body.

We have classified this water body as having an overall status of Poor ecological potential with Medium confidence in 2012 with overall ecological status of Poor and overall chemical status of Pass.

It is important to note that the five classification ecological potential classes for Heavily Modified Water Bodies (HMWBs) and Artificial Water Bodies (AWBs) combine the level of mitigation measures for water levels and flow and physical habitat with measurements of the biological and chemical water quality. For example, a HMWB could have all the mitigation measures in place to allow it to reach good ecological potential e.g. a fish pass installed on a dam required for hydropower generation, but if water quality is poor due to elevated phosphorus levels, its overall ecological potential assessment could be moderate, poor or bad depending on the severity of the impact.

The overall classification of status is made up of many different tiers of classification data. A complete set of classification data for 2012 is shown at the end of this document.

Targets for the future status of this water body

We have set environmental objectives for this water body over future river basin planning cycles in order that sustainable improvements to its status can be made over time, or alternatively that no deterioration in status occurs, unless caused by a new activity providing significant specified benefits to society or the wider environment.

For this water body we have set the overall environmental objectives for the first, second and third River Basin Management Planning (RBMP) cycles as:

Year	2012	?	?	?
Status	Poor ecological potential	?	?	?
Year	2012	2015	2021	2027
Status	Poor ecological potential	Pass	Pass	Pass

Pressures and measures on this water body

We have established an ongoing programme of monitoring in order to identify pressures on our water bodies.

The pressures listed below contribute to this water body's failure to meet good ecological status or potential. River basin planning allows us to plan improvements for particular parameters over time. We have collaborated with others to identify measures which will act to protect or improve our water environment in order that all water bodies reach good status over successive RBMP cycles.

The following table shows our collated information on the pressures on this water body, their causes and the measures which could be introduced to mitigate their effects. We have also indicated the current funding status of the measure; with projected measures being potentially funded and agreed measures having funding in place. Finally, we have included information on the potential or actual owner of the measure, the date it will be effective and information on the justification for extending the deadlines or for setting an alternative objective, where appropriate.

Pressure	**As a Result of**	**Assessment Parameter**	**Objective**	**Reasons for Failure**
	Measure	**Funding**	**Owner**	**Effective date**
Point Source Pollution	Other manufacturing	UK Specific pollutants (Annex 8)	Good by 2015	
	Reduce at source	Neither Agreed nor Projected	Landowner(s)	31/12/2026
Morphological Alterations		Multiple Pressure	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Improvement to condition of channel/ bed and/or banks/ shoreline	Projected	Landowner(s)	31/12/2026

Pressure	As a Result of	Assessment Parameter	Objective	Reasons for Failure
	Measure	**Funding**	**Owner**	**Effective date**
Point Source Pollution	Sewage disposal	Unknown Toxics	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Increase treatment	Agreed	Scottish Water	31/03/2010

Footnote – These results show current classification but the measures, pressures and objectives shown may not yet align to these classification results. Please contact rbmp@sepa.org.uk if you require further information on this water body.

Future work

Additional work to identify pressures and to develop and implement measures to mitigate their impacts will continue over subsequent river basin cycles.

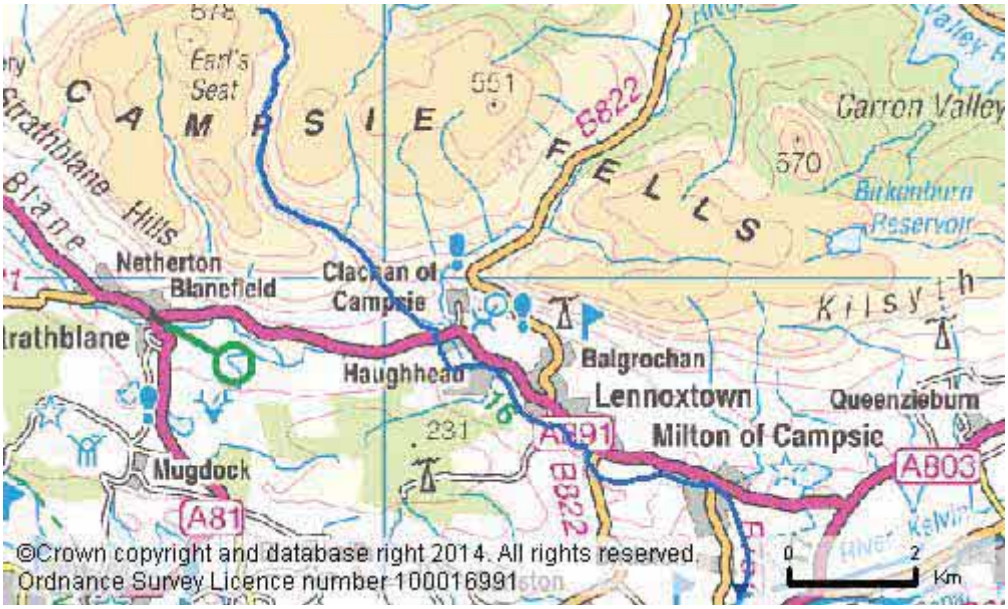
Complete classification for this water body in 2012

Parameter	Status	Confidence of Class
OVERALL STATUS	POOR ECOLOGICAL POTENTIAL	MEDIUM
Pre-HMWB status	Poor	Medium
Overall chemistry	Pass	High
Priority substances	Pass	High
Cadmium	Pass	High
Lead	Pass	High
Nickel	Pass	High
Overall ecology	Poor	Medium
Physico-Chem	High	High
Temperature	High	High
Soluble reactive phosphorus	High	High

Parameter	Status	Confidence of Class
pH	High	High
Dissolved Oxygen	High	High
Biological elements	High	High
Phytobenthos	High	High
Macrophytes	High	High
Benthic invertebrates	High	High
Macro-invertebrates (acid)	High	Low
Macro-invertebrates (RiCT)	High	High
Macro-invertebrates (ASPT)	High	High
Macro-invertebrates (NTAXA)	High	Medium
Alien species	High	Low
Fish	High	Medium
Fish ecology	High	Medium
Fish barrier	High	Medium
Specific pollutants	Pass	High
Arsenic	Pass	High
Iron	Pass	High
Copper	Pass	High
Zinc	Pass	High
Ammonium	Pass	High
Chromium	Pass	High
Hydromorphology	Poor	Medium
Morphology	Poor	Medium
Hydrology	Moderate	Medium
Hydrology (impoundment)	High	Medium
Hydrology (abstraction)	Moderate	Medium
Regulatory BOD	High	High
Regulatory ammonium	High	High
Water quality	High	High
Morphological pressures	Poor	Medium

Location of this water body

You can find the geographical location of this water body by searching on water body ID in the interactive maps at www.sepa.org.uk/water/river_basin_planning.aspx



SEPA Contact Details: rbmp@sepa.org.uk

Water body information sheet for water body 150219 in Clyde

General details

Water body name:	Clydebank and Kirkintilloch bedrock and localised sand and gravel aquifers
Water body identifier code:	150219
Area km^2:	310.17
Water body category:	Groundwater
Baseline:	Y
River basin district:	Scotland
Area advisory group:	Clyde
Associated protected areas:	
Associated surface waters:	
Responsible body:	SEPA Glasgow & Dunbarton, North Lanarkshire, F.A.S.T
National Grid Reference	NS 64030 71360
Latitude:	55.91605
Longitude:	-4.1771

Water body information sheet for water body 150219 in Clyde

Current status of this water body

Classification results are updated annually, as part of SEPA's commitment to monitor and assess the condition of the environment.

Once the classification is agreed, as part of river basin management planning, the pressures and measures for every water body are reviewed to ensure that they reflect this improved understanding of the environment. Objectives are reviewed as part of the six yearly planning cycle and any proposed changes to objectives will be presented in the draft river basin plans. For more information see http://sepa.org.uk/water/river_basin_planning.aspx

This worksheet was produced using the most up to date classification results although the measures, pressures and objectives shown may not yet align to these classification results. Please use the "contact us" email address (rbmp@sepa.org.uk) if you require further information on this water body.

We have classified this water body as having an overall status of Poor with High confidence in 2011.

The quality of the groundwater has been classified as Poor with High confidence and the quantity of groundwater has been classified as Poor with Medium confidence in 2011

This overall classification of status is made up of many different tiers of classification data. A complete set of classification data for 2011 is shown at the end of this document.

Targets for the future status of this water body

We have set environmental objectives for this water body over future river basin planning cycles in order that sustainable improvements to its status can be made over time, or alternatively that no deterioration in status occurs, unless caused by a new activity providing significant specified benefits to society or the wider environment.

For this water body we have set the overall environmental objectives for the first, second and third River Basin Management Planning (RBMP) cycles as:

Year	2008	2015	2021	2027
Overall Status	Poor			
Chemistry Status	Poor	Poor	Poor	Poor
Quantitative Status	Poor	Good	Good	Good

Water body information sheet for water body 150219 in Clyde

Pressures and measures on this water body

We have established an ongoing programme of monitoring in order to identify pressures on our water bodies.

There are currently no pressures identified on this water body.

Classification results are updated annually, as part of SEPA's commitment to monitor and assess the condition of the environment.

Once the classification is agreed, as part of river basin management planning, the pressures and measures for every water body are reviewed to ensure that they reflect this improved understanding of the environment. Objectives are reviewed as part of the six yearly planning cycle and any proposed changes to objectives will be presented in the draft river basin plans http://sepa.org.uk/water/river_basin_planning.aspx.

This worksheet was produced using the most up to date classification results but the measures, pressures and objectives shown may not yet align to these classification results. Please use contact rbmp@sepa.org.uk if you require further information on this water body.

Future work

Additional work to identify pressures and to develop and implement measures to mitigate their impacts will continue over subsequent river basin cycles.

Complete Classification for this water body in 2011

Parameter	Status	Confidence of Class
OVERALL STATUS	POOR	HIGH
Quantitative	Poor	Medium
Saline intrusion	Good	Medium
River impacts	Poor	Medium
Wetland interactions	Good	Medium
Water balance	Good	Medium
Groundwater chemistry	Poor	High
Saline intrusion	Good	Low
River interactions	Good	High
Diffuse impacts	Good	High
Point source impacts	Good	Medium

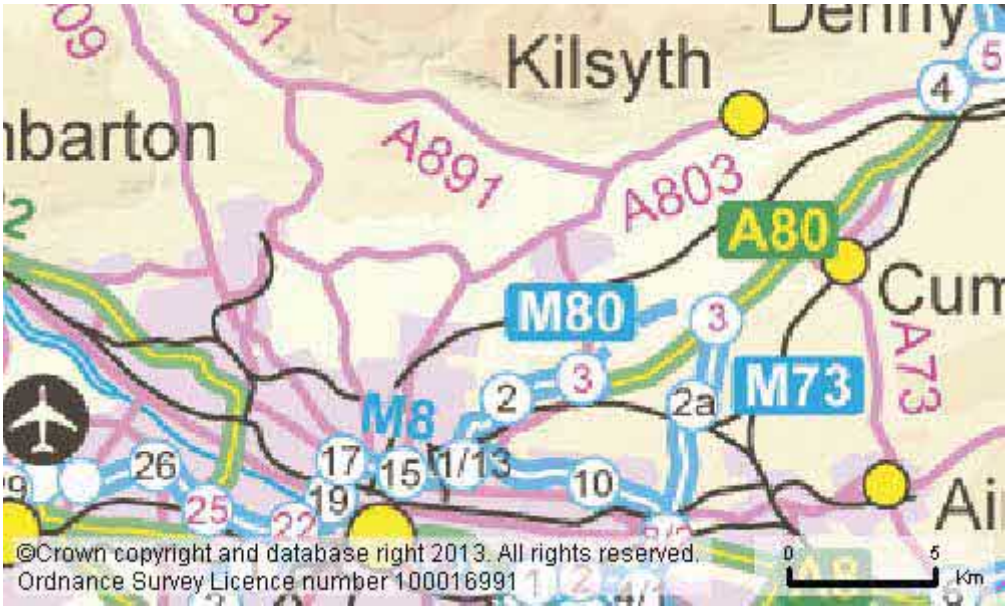
Water body information sheet for water body 150219 in Clyde

Parameter	Status	Confidence of Class
DWPA test	Good	Low
General chemical test	Poor	High
General chemical test (other)	Good	High
General chemical test (mining)	Poor	High

Location of this water body

You can find the geographical location of this water body by searching on water body ID in the interactive maps at www.sepa.org.uk/water/river_basin_planning.aspx

You can search through our water body information sheets here http://www.sepa.org.uk/water/river_basin_planning/waterbody_data_sheets.aspx



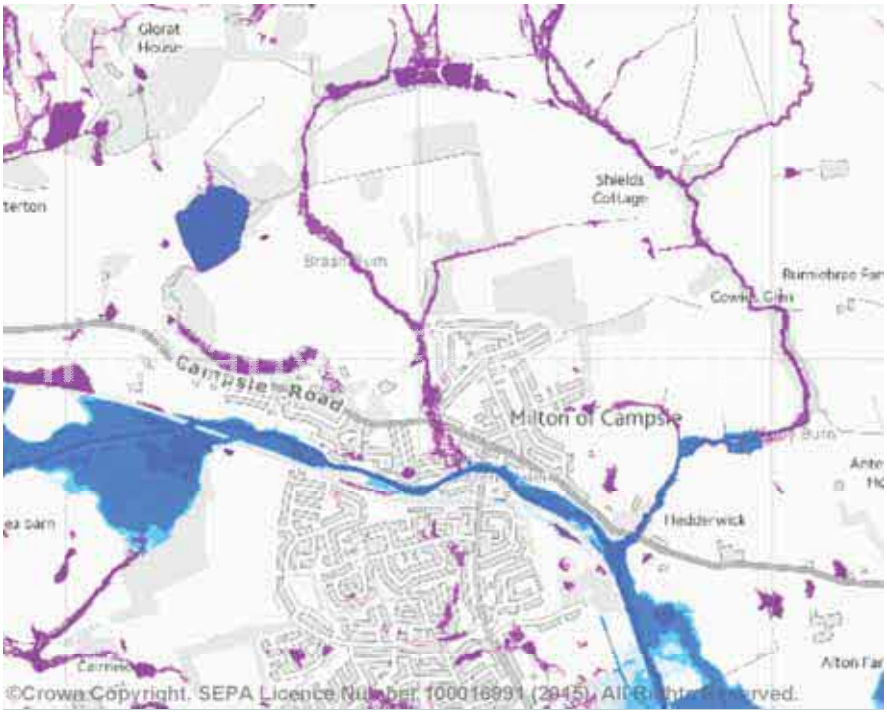
SEPA Contact Details: rbmp@sepa.org.uk

APPENDIX F-5

FLOOD MAPPING

SEPA Scottish Environment Protection Agency

Flood Maps



Map Legend

Areas that may flood - All Likelihood

River
- High
- Medium
- Low

Surface Water
- High
- Medium
- Low

Coastal
- High
- Medium
- Low

Disclaimer and Terms and Conditions
All intellectual property rights are owned by SEPA or its licensors. The maps cannot be used for commercial purposes, by value added resellers or for income generating purpose. A full list of terms and conditions is available from the flood maps or by contacting flooding@sepa.org.uk.

The maps are indicative and of a strategic nature. Whilst all reasonable effort has been made to ensure that the flood maps are accurate for their intended purpose, no warranty is given by SEPA in this regard. Within any modelling technique there is inherent uncertainty. SEPA has assessed the confidence it has in the maps and has shaded areas where data is not appropriate for use or where no data is available. It is inappropriate for these maps to be used to assess flood risk to an individual property.

Acknowledgements
The maps were developed using data from various sources. Full acknowledgement of data providers and participating parties is from the flood maps.

Maps creation dates
Created: January 2014 This supersedes the Indicative River and Coastal Flood Map (Scotland)
Updated: 3 March 2015
Updated: 2 December 2015

The flood maps reflect the knowledge and data that was available to be incorporated at the time of publication.

For further queries please contact flooding@sepa.org.uk

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APPENDIX F-6

BGS BOREHOLE LOGS

Ritchies

Borehole No. : KV21

Ref. No. : 918/88/JSK

SOILS BOREHOLE LOG

Location : KELVIN VALLEY

Engineer : BABTIE GEOTECHNICAL

Date started : 2.11.88 3/11/88

Ground Level : 54.52

Co-ordinates : NS 6551 7676

Equipment and Methods : LIGHT CABLE PERCUSSION : 250mm dia. 0.00 - 3.20m

Scale : 8.00m

Sheet 1 Of 1.

Description	Reduc. Level	Legend	Depth	Sample Depth	Type	Test
	C.L.		0.00			
TOPSOIL	54.22		0.30	0.30 - 1.30	B	
Soft. brown mottled orange. slightly silty. sandy CLAY with many angular cobbles of weathered dolerite and occasional angular boulders.				1.30 - 2.30	B	
				2.30 - 2.90	B	
End of Borehole	51.32		3.20			

Sample/Test Key

S SPT
N SPT 'N' Value
V Vane Shear Test
CBR Undisturbed CBR

Progress / Water Levels

Remarks :
Borehole dry.
Scale 1.50

Ritchies

Borehole No. : KV21A

Ref. No. : 918/88/JSK

SOILS BOREHOLE LOG

Location : KELVIN VALLEY

Engineer : BABTIE GEOTECHNICAL

Date started : 3.11.88 — 3.11.88

Ground Level : 51.35

Co-ordinates : NS 6559 7668

Equipment and Methods : LIGHT CABLE PERCUSSION : 250mm 0.00 - 7.00m

Scale : 8.00m

Sheet 1 Of 1.

Description	Reduc. Level	Legend	Depth	Sample Depth	Type	Test
	C.L.		0.00			
SANDY TOPSOIL	51.15		0.20	0.20 - 1.20	B	
Loose brown silty very sandy coarse to fine angular to rounded GRAVEL with some cobbles.				1.20 - 2.20	B	
Loose brown slightly clayey to clayey silty sandy rounded to subangular GRAVEL with some rounded cobbles.	49.15		2.20	2.20 - 3.20	B	
Brown clayey silty sandy fine to coarse rounded to subangular GRAVEL with some cobbles.	48.15		3.20	3.20 - 4.20	B	
Brown firm very silty sandy very gravelly CLAY with some cobbles and occasional boulders.	47.15		4.20	4.20 - 5.20	B	
Stiff dark grey very silty sandy very gravelly CLAY with some cobbles and occasional boulders.	46.15		5.20	5.20 - 6.20	B	
				6.20 - 7.00	B	
End of Borehole	44.35		7.00			

Sample/Test Key

S SPT
N SPT 'N' Value
V Vane Shear Test
CBR Undisturbed CBR

Progress / Water Levels

Remarks :
Water at 5.20m.
Scale 1.50