

Phase 1 Environmental Site Assessment

Seafield Road, Blackburn, West Lothian

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EXECUTIVE SUMMARY

Background and Objectives

A2 Environmental Consultants Ltd (A2) were commissioned by JMP on behalf of Hallam Land Management Limited to carry out a Phase I Geo-environmental site investigation for the proposed residential expansion of Blackburn, West Lothian on agricultural land located to the east of the existing town boundary. The assessment was intended to provide information on potential risk from ground contamination and assess the environmental risk of this to the development. The benefit of this report is for the exclusive use of the Hallam Land Management Limited and their advisors on this development.

At the time of the investigation the site comprised of agricultural land. The investigation, including site visits, was carried out in May 2012.

Site Setting

The site is situated immediately to the east of the residential area of Blackburn. Seafield road bisects the site and follows a ridge of higher ground. A number of drainage ditches and burns are present on site largely close to the margins and existing field boundaries.

The River Almond forms the southern site boundary. SEPA records indicate that a thin strip of the site adjacent to the River Almond is within an area that is liable to flooding.

The northern site boundary is marked by a track that is part of the National Cycle Network (Route 75). The site is used for agricultural grazing land.

West Lothian Council identify the land immediately to the north and north east of the site as Easter Inch Moss and Seafield Law (EIMSL) Local Nature Reserve. Easter Inch Moss is a Scottish Wildlife Trust Wildlife Site and is recognised in the 2006 West Lothian Plan. The area has been subject to historic peat extraction and in the period 1964-1972 attempts were made by Lothian Council to restore it for agricultural use. In the 1980's a limited amount of coniferous tree planting took place.

Seafield Bing to the east of the north eastern corner of the site is a result of the Oils Shale mining that historically took place.

Site History

Historical maps for the area suggest that the site itself has largely remained in agricultural use from the first map 1853 until the present day. The exception to this are a number of small quarries identified in the central part of the northern section of the site.

The land immediately to the east of the site was historically occupied by the Seafield Artificial Patent Fuel Works. This was largely an unsuccessful enterprise and the site was later developed as the crude oil works of the Bathgate Oil Company until c.1887. Later following purchase by the Pumpherston Oil Company the Seafield Works supplied crude oil for refining at Pumpherston until closure in 1931.

Ground Conditions

The ground conditions underlying the site are anticipated to comprise strata of the West Lothian Oil Shale Formation (pale sandstones, interbedded with grey siltstones and mudstones, seams of oil-shale and of coal with beds of limestone/dolomite and ironstone) with overlying Glacial Till. Localised superficial deposits of alluvium and peat may be present.

A review of available geological information concludes that site is located in an area which could be affected by coal mining activity. A Coal Authority search has been undertaken for the site and this confirms that the development area has within it four recorded adits and three recorded shafts. No



records are held as to whether any treatment of these has taken place. The report states that the site is in the likely zone of influence from workings in 1 seam of coal at 60m depth, last worked in 1908 and 3 seams of oil shale at 40m to 490m depth, last worked in 1961. The report goes on to state that any ground movement from the coal workings should have stopped by now. In addition the report notes that the property is in an area where the Coal Authority believe there is coal at or close to the surface and therefore unrecorded coal workings may exist.

A review of historical mapping has identified the presence evidence of localised quarrying activities in the northern section of the site. The borehole records suggest that the area has been subject to extensive investigation for oil shales. Records from the Museum of Scottish Shale Oil Industry suggest that the land to the east has been mined from a series of shafts close to Seafield to the east of the site. At least five shafts were mined.

British Geological Survey boreholes in the area suggest that the superficial deposits are between 5 and 15m thick. Peat was not recorded on any of the boreholes on or immediately adjacent to the site.

Near surface soils are typically described as sandy clay with fine to medium gravel over stiff sandy clay.

Seafield Bing off-site to the east of the north eastern corner of the site was used by the former District Council as a Landfill until the mid 1980s this was subsequently sealed in the late 1990s and ground water lagoons at the east end of the site were formed to treat polluted water arising from the tip. The site is reported to be monitored for methane and it is reported that there has been no evidence of methane migration

Geotechnical Considerations

It is considered that the prevailing ground conditions will be sufficient to provide adequate bearing capacities at relatively shallow depth to support the intended foundations and road construction, however, the known presence of former mine workings will need to be further investigated in order to confirm that these are not at significant risk of future collapse or subsidence.

The soils underlying the site are likely to be poorly drained and could be subject to water-logging at times of heavy rainfall.

Soils Assessment

The potential risk from soils anticipated to be present on the site to potential future receptors is considered low-medium. Localised mining on site and the previous use of adjacent land for the mining of oil shale gives rise to the possibility that some waste products from such activities may have been deposited on site.



1. BRIEF

A2 Environmental Consultants Ltd (A2) was commissioned by JMP on behalf of Hallam Land Management Limited to undertake a preliminary desk-based site investigation and site reconnaissance of a site identified for the future residential expansion of Blackburn, West Lothian. The works were undertaken to provide background information on environmental site setting and identify potential risks to the development proposals.

The Phase I Desk Study comprised a detailed review of historical mapping including procurement of EnviroCheck Report data, and review of British Geological Survey (BGS) and review of Scottish Environment Protection Agency (SEPA) together with a detailed site reconnaissance.

1.1 Methodology and Information Sources

This Phase I report comprises the collation of available documentary and site derived information followed by the development of a conceptual model and assessment of ground conditions and potential risk.

The information presented within this report is based on observations made on site, a review of available historical, geological and hydrogeological information published by the following parties listed in Table 1:

	Table 1:	List of parties consulted during this study
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Organisation
EnviroCheck report including information supplied by SEPA and West Lothian Council
British Geological Survey (BGS)
Coal Authority Search
Scottish Oil Shale web site (scottishshale.co.uk)



2. SITE DESCRIPTION AND RECONNAISSANCE

2.1 Site Description

The site currently comprises predominantly open space. The site is divided into two main sections by the broadly east west orientated Seafield Road (A705). This road becomes known as Redhouse Road as it approaches Seafield. This road follows a ridge of higher land with a maximum topographic level of approximately 170mAOD at the eastern site margin. From this road the land falls away gently to the north and south.

The field boundaries that mark the margins of the site are generally formed of discontinuous hedges, small trees and barbed wire.

The northern site boundary is marked by a track that is part of the National Cycle Network (Route 75). A tributary of Dean Burn crosses the north eastern corner of the site and here the topographic level is approximately 160mAOD.

Easter Inch Moss and Seafield Law (EIMSL) Local Nature Reserve are located to the north and north east of the site respectively. Easter Inch Moss is a Scottish Wildlife Trust Wildlife Site and is recognised in the 2006 West Lothian Plan. The area has been subject to historic peat extraction and in the period 1964-1972 attempts were made by Lothian Council to restore it for agricultural use. In the 1980's a limited amount of coniferous tree planting took place. Seafield Seafield Law is a spoil heap or 'bing' created as a product of the oil mining that took place to the east of the site. It was remodelled in the 1990's and now forms a significant crag and tail feature in the landscape, providing amenity grassland with some areas of tree planting.

A series of overhead electricity cables, mounted on telegraph poles, cross the northern section of the site in from Seafield Road towards the north western corner of the site.

The western margin of the site is largely marked by recent residential development at the eastern fringe of Blackburn. A drainage ditch is present along the northern half of this boundary.

The eastern margin of the northern section of the site has open grazing land and Seafield Bing beyond. Red House farm is present towards the centre of the site on Redhouse Road. To the east of the site, on Redhouse Road, there are a collection of detached properties. In addition to this a small number of residential properties are present to the south of Seafield Road. A drainage ditch is present in the central section of the site and continues to Seafield Road.

To the south of Seafield Road the site level falls away more steeply to the easterly flowing River Almond which forms the southern site boundary. Here the topographic level is around 140mAOD.

The eastern boundary of the southern section of the site is marked by a strip of trees beyond which are a number of spread out detached residential properties (Riverside Lea Cottages and Nursery). The western boundary follows the boundary of the site from Seafield Road broadly south to meet the River Almond.

The information detailed below is based on observations made by Alistair Dalziel of A2 Environmental Consultants on 18 May 2012. The weather on this day was cold, wet and overcast. A selection of relevant site photographs is included within Appendix C.

The site is centred at National Grid Reference 299670, 665690 as shown on Site Location Plan (Figure 1) in Appendix A.



2.2 Site Surroundings

A summary of the surrounding land uses at the site is shown in Table 2.

Table 2: Summary of surrounding land uses

Location	Description
North	Open Land
East	Open Land in northern section of the site, with residential properties at the western fringe of Seafield and to the south of Redhouse Road detached residential properties.
South	River Almond, open space and South Hill Farm beyond
West	Residential properties except in south west corner where there is further open space to the west.

The closest water body to the site is River Almond that marks the southern site boundary and the on site drainage ditches.



3. SITE HISTORY

A review of historical Ordnance Survey maps obtained via EnviroCheck for the period 1855 to present was undertaken. This mapping shows that the site is located approximately 1km to the east of the centre of Blackburn.

Information obtained from the historic Ordnance Survey maps suggests that the site has been largely in agricultural use; however, the site has had a number of small coal pits and quarries within the boundary. The wider area around the site has been subject to more extensive coal and oil shale mining and processing. The nearest location being the Seafield Oil Shale Works to the west of the site and the Hermand Oil Works approximately 1km south east of the site and the Breich Mine 750m east of the site. A mineral railway siding associated with the Seafield Oil Shale Works was present on the northern boundary of the site.

An overview of relevant information is shown in chronological order in Table 3 below.

Source	Scale	Site	Surroundings
1855/76	1:10,560	Predominantly farming land. An old pit is shown in the centre of the northern section of the site. Redhouse farm shown.	A corn mill (Hopefield Mills) is shown to the south west of the site. A very small quarry or adit is shown approximately 50m to the west of the northern section of the site. Old quarry shown off-site 200m east of north east corner of site A large house Blackburn House is shown to the east of the southern section of the site.
1897	1:2,500	A small quarry and a series of un-marked features are shown crossing the northern section of the site. A siding associated with the off site works shown at northern site boundary.	Hopefield mills is now labelled 'leather board' Reservoirs and shaft shown to east of north east corner of site. Mineral railway shown.
1915/17	1:2,500	The small quarry is still shown; an additional area of disturbed ground is shown. An old shaft is shown on-site towards the eastern boundary of the northern section of the site. Redhouse Cottages shown	An old shaft is shown off-site approximately 100m from the south east corner of the site. An air shaft and a tramway are shown off- site beyond the eastern boundary of the northern section of the site. Another old shaft is shown approximately 200m off-site to the east of the southern section of the site. Tramways shown crossing Easter Inch Moss to the north of the site. An air shaft and Mine No3 shown 100m east of north east corner of site
1920	1:10,560	No significant change	A series of tramways are shown to the north of the site suggesting peat extraction may have been taking place in from Easter Inch Moss
1957/59	1:2,500	No significant change	Hopefield mills no longer shown East of north east corner of site, Mine No3 now indicated to be disused, sidings and reservoirs absent.
1967	1:2,500	No significant change	Residential development shown off-site to the north west of the site.
1968	1:2,500	No significant change	Residential expansion has taken place to the west of the site

Table 3:History for the subject site



Source	Scale	Site	Surroundings
1978-88	1:1,250	No significant change	Blackburn Academy is shown immediately adjacent to the western boundary of the northern section of the site.
1993	1:1,250	No significant change	Additional residential expansion has taken place to the west of the site

A Copy of the EnviroCheck mapping is included in Appendix B.



4.2 **GEOLOGY**

4.1 General Geology and Ground Conditions

The geology beneath the site has been established from the British Geological Survey (BGS) 1:50,000 scale Geological mapping (Sheet 31E and 32W).

The underlying bedrock geology is recorded as West Lothian Oil Shale Formation across the majority of the site. The strata dip to the west north west at between 20-25° and at the north west corner of the site the West Lothian Oil Shale Formation is overlain by the Lower Limestone Group (cyclic limestones including marine limestones), close to the base of which is the Hurlet Limestone.

The West Lothian Oil Shale Formation comprise pale sandstones, interbedded with grey siltstones and mudstones, seams of oil-shale and of coal with beds of seatrock, ostracod-rich limestone/dolomite and sideritic ironstone. Beneath the site two main worked seams are present; these are the Houston Coal to the east of the site and the Raeburn Shale to the west. The Fraser Shale has been worked to the south of Blackburn. The Reaburn shale and Houston Coal were typically less than 0.6m thick and the Fraser Shale was up to 1.1m thick.

This is overlain by Quaternary Till across the majority of the site. The Till is locally absent in the north of the site where a small area of peat and alluvium are shown. In addition a thin strip of alluvium is shown at the southern boundary associated with the River Almond.

BGS boreholes in the area suggest that the superficial deposits are between 5 and 15m thick and comprise stiff to very stiff sandy clay with fine to coarse sub-angular gravel with fragments of coal and mudstone. Peat was not recorded on any of the boreholes on or immediately adjacent to the site.

4.2 Mining, Quarrying and Landfills

A review of available geological information concludes that site is located in an area which could be affected by coal mining activity.

A review of historical mapping has identified evidence of localised quarrying activities in the northern section of the site. The borehole records suggest that the area has been subject to extensive investigation for oil shales. Records from the Museum of Scottish Shale Oil Industry suggest that the land to the east has been mined from a series of shafts close to Seafield to the east of the site. At least five shafts were mined, however, the records available online suggest that the underground workings from these did not extend across the subject site.

A review of the EnviroCheck supplied data indicates that there are no identified historic landfills on or immediately adjoining the site. In the wider area there are numerous areas of made ground and these are likely to be predominantly associated with the historic mining activities that have taken place.

The landmark report indicates the presence of a British Geological Survey recorded mineral site on site. The data sheet suggests that this was located in the north western section of the site and identifies it as Red House and as an opencast mine. This is likely to be the small quarry identified on the historic maps and is thought to have quarried limestone.

The site is shown to be at low or very low risk from: collapsible ground, ground dissolution, shrinking clays, landslides or running sand.

Sections of the site are noted to be at high risk of compressible ground and this is likely to relate to the possible presence of peat.



4.2.1 Coal Authority Report

A Coal Authority Report was commissioned for the site. This is included in Appendix D. This shows that there are records of four adits and three shafts on the site. Two of the shafts were located in the eastern section of the north of the site. The remaining shaft and three of the adits were located in the north western section of the site. The remaining adit was located in the south western section of the site. The Coal Authority state that they do not have any records as to what actions were taken to treat the mine entries

The property is in the likely zone of influence from workings in one seam of coal at 60m depth, and last worked in 1908. The report notes that any ground movement from these coal workings should have stopped by now.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The property is in the likely zone of influence from workings in 3 seams of oil shale at 40m to 490m depth, and last worked in 1961.

The report states that the site is not in the likely zone of influence of any present workings nor is the property in an area that is likely to be affected at the surface from any planned future workings.

4.3 Radon

The property is identified as lying in an area where less than 1% of properties are affected by radon. Therefore radon protective measures are not considered necessary for the area of the site.



4. WATER ENVIRONMENT

5.1 Surface Waters

With reference to the EnviroCheck Report and historical mapping there are a number of surface water features identified on and in close proximity to the site. Most of the features present on the site are represented as drainage ditches. The closest river to the site is River Almond that marks the southern site boundary. No SEPA water quality data is provided for this water body

The SEPA indicative floodplain map shows that a thin strip of the southern site boundary lies in an area at risk of 1 in 100 year flooding to depths of up to 1-2m.

5.2 Groundwater

The EnviroCheck report classifies the solid geological deposits underlying the site as Minor or Moderately Permeable Aquifer - Fractured or potentially fractured rocks which do not have a high primary permeability or other formations of variable permeability.

The drift deposits underlying the site are classified as low permeability.

5.3 Water Abstractions, Discharge Consents and Pollution Incidents

Details provided within the EnviroCheck Report show the following recorded water abstraction, discharge consents and pollution incidents in the vicinity of the site.

- There is only one registered discharge consent located at Red House Farm and associated with a septic tank.
- A few surface water features, representing drainage ditches and small ponds are present on the site.
- There are no recorded pollution incidents to controlled waters recorded for or within 250m of the site.
- There are no records of water abstractions on or within 250m of the site boundary.



6. CONSULTATION

Information made available by the relevant agencies and included in the EnviroCheck Report has been reviewed during the course of this study are discussed as follows.

6.1 Relevant Site Information

Information made available by SEPA and West Lothian Council and included in the EnviroCheck Report is summarised as follows:

- There are no registered or recorded landfills on site or within 250m of the site.
- The closest BGS recorded mineral sites are the Red House see above, a site 75m to the west – Hopefield and Seafield Rows 177m NE these are recorded as limestone and sandstone opencast mines.
- No registered waste transfer, treatment or disposal sites are recorded on site or within 250m of the site.
- No active Contemporary Trade Directory Entries are on site or within 250m of the site.
- The site and surrounding area is not classified as a Nitrate Vulnerable Zone.
- There are no registered fuel station entries on site or within 250m of the site.

West Lothian Council has published a document Easter Inch Moss and Seafield Law (EIMSL) Local Nature Reserve and this provides further details on the background to the surrounding area as follows. Easter Inch Moss is a Scottish Wildlife Trust Wildlife Site and is recognised in the 2006 West Lothian Plan. has been subject to historic peat extraction and in the period 1964-1972 attempts were made by Lothian Council to restore it for agricultural use. In the 1980's a limited amount of coniferous tree planting took place. Seafield Bing to the east of the north eastern corner of the site is a result of the Oils Shale mining that historically took place. The site was used by the former District Council as a Landfill until the mid 1980s this was subsequently sealed in the late 1990s and ground water lagoons at the east end of the site were formed to treat polluted water arising from the tip. The site is reported to be monitored for methane and the report states that there has been no evidence of methane "drift"

Information from the Museum of the Scottish Shale Industry web-site is incorporated in the site history section.



7. SITE WALKOVER

The information detailed below is based on observations made by Alistair Dalziel of A2 Environmental during a site walkover conducted on 18 May 2012. During the visit the weather was cool and wet. No issues of particular environmental concern were noted. The fields inspected were either in agricultural rough grazing use or were fallow, no evidence of surface contamination or issues of poor environmental management were noted.

The buildings of Red House Farm were of various forms of construction and a number were in poor states of repair. Suspected asbestos cement sheet roofing and high level cladding were present to one of the barns. Various agricultural vehicles and machinery were present.



8. PRELIMINARY CONCEPTUAL GROUND MODEL

8.1 Background

In accordance with existing legislation and available guidance, a Tier 1 Quantitative Risk Assessment has been undertaken for the site. The assessment has been based on risks to future site users of a residential development, to construction workers undertaking the development and to the water environment.

This assessment process has been completed prior to any intrusive investigation and is used to identify potential sources of contamination in order to target the intrusive investigation towards confirming or discounting certain risks.

The findings of the assessment are discussed in the following section.

8.2 Qualitative Risk Assessment

The qualitative risk assessment criteria for each element (source, pathway, receptor) and the likelihood of an event occurring have been assessed as low, moderate or high based on the following system:

Low	Based on available information the likelihood of a contaminant linkage being realised is assessed as low or insignificant.	
Moderate	Based on available information the likelihood of a contaminant linkage being realised is assessed as moderate. However, there is insufficient information to confirm this observation and further action or assessment may be required.	
High	Based on available information the likelihood of a contaminant linkage being realised is assessed as high and further action or assessment is likely to be required.	

8.3 Potential Sources of Contamination

The Phase I study has identified that the site has operated as agricultural land from the earliest historical mapping. Mining activities have taken place on site with seven mine entries and one quarry identified on the site. Adjacent to the site is was a extensive oil shale mine and processing activities and it is thought that the historical mineral railway that adjoined part of the northern section of the site transported raw oils to Pumpherston for refining. Potential sources of contamination can be summarised as follows:

- Fuels & Oils: Whilst no evidence of any spillages or staining was noted at the site there is the possibility that the adjoining oil processing resulted in contamination on site.
- Mining Wastes: It is possible that mining wastes were deposited on site.
- **Mine Gas:** Methane, carbon dioxide and hydrogen sulphide could emanate from the mine workings on site

8.4 Potential Pathways

There are a number of potential pathways by which contaminant sources can cause a risk to a receptor (site users, construction worker or water environment). These include:



- **Dermal Contact:** Potential may exist for dermal contact with contaminated spoil by future residential residents, site users, construction workers and grounds maintenance personnel.
- **Ingestion:** Once the site is developed potential may exist for the ingestion of home grown vegetables and soil loaded to vegetables.
- Inhalation: Potential may exist for inhalation of contaminant vapours from either contaminated subsoil or groundwater. Potential may exist for inhalation of dust from either air-borne contaminated soil surface.
- Soil Leaching/contaminated surface water run-off: The potential may exist for the leaching of contaminants from contaminated soil to groundwater via surface water infiltration through the site
- **Groundwater/Leachate Migration:** There is potential for contaminants to migrate laterally/vertically within leachate or groundwater to surface waters and deeper groundwater aquifers.
- **Sulphate and hydrocarbons:** Direct contact and permeation of buried foundations/buried services

8.5 Potential Receptors

Receptors, which may be affected by contamination via the pathways previously described, are as follows:

- **Human Health:** Future residential residents, off-site receptors, construction and maintenance personnel
- Water Environment: On-site and off-site groundwater including surface water bodies
- Property: Foundations and structures including any services

8.6 Preliminary Conceptual Site Model

Potential sources of contamination and pathways by which there may be a potential pollutant linkage by which receptors could be at risk are listed in the following table. A risk rating (Low, Moderate or High) for each of these is also given.

Table 4:	Contamination assessment summary
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Receptor	Potential sources	Pathways	Risk	Justification/Mitigation
Human Heath				
Future Residents	Made Ground	Dermal Contact, Ingestion of soil and Inhalation of Dust	Low- Moderate	Whilst the potential for made ground to be contaminated by inorganic and organic contaminants is generally considered to be very low due to the predominantly agricultural use of the site isolated pockets of contamination could be present as a result of the former mining, quarrying or adjacent land uses. During any demolition / redevelopment of Red House Farm appropriate working methodologies will need to be adopted to prevent the possible release of asbestos fibres from the suspected asbestos containing materials.



Receptor	Potential sources	Pathways	Risk	Justification/Mitigation
Off site residents/users	Made Ground	Inhalation of Dust	Low	Contamination risk to site neighbours from the site is considered low.
Construction workers	Made Ground	Dermal Contact, Ingestion and Inhalation of Dust	Low	Potential for made ground to be contaminated by inorganic and organic contaminants is generally considered very low, however, isolated pockets of contamination could be present as a result of the former mining, quarrying or adjacent land uses. The use of standard site Personal Protective Equipment and site working methodologies will reduce the risk to low
Property				
On site structures	Made Ground	Sulphate attack on concrete structures and hydrocarbon risk to water supplies	Low- Moderate	The potential for contaminated made ground present on the site is generally considered a low risk with respect to buried concrete/potable water supplies, however. isolated pockets of contamination could be present as a result of the former mining, quarrying or adjacent land uses
On site structures	Voids in underground workings	Physical collapse or settlement of foundations	Low- Moderate	Quarrying and mining has taken place on and adjacent to the site. The mining is thought to have been at depths of at least 40m and it is considered likely that any settlement from these workings should largely have ceased and the risk of any movement affecting the residential end use is low. A series of adits and shafts are known to have been present on site and it is recommended that these are located and if necessary treated, infilled or capped.
On site structures	Ground gas	Explosion, asphyxiation	Low- Moderate	Across the majority of the site the risk of any ground gas reaching the surface from underground mine- workings is considered very low due to the presence of low permeability glacial till. The historic mine shafts and adits could present a conduit for such gas to reach the surface and, as above, it is recommended that they are located and if necessary treated, infilled or capped.



Receptor	Potential sources	Pathways	Risk	Justification/Mitigation
Controlled Water	S			
Groundwater	Made Ground & soil leachates	Soil leaching and groundwater flow	Low	The potential for contaminated made ground to be present on the site is generally considered low however. Isolated pockets of contamination could be present as a result of the former mining, quarrying or adjacent land uses. The risk of any mobile contaminants reaching groundwater is generally considered very low due to the presence of low permeability glacial till. The historic mine shafts and adits could present a conduit for vertical migration.
Surface Water	Made Ground and soil leachates	Surface water run-off, soil leaching and groundwater flow	Low- moderate	Isolated pockets of contamination could be present as a result of the former mining, quarrying or adjacent land uses. Leachable or liquid contaminants could migrate into the drainage ditch system and into the River Almond that borders the southern edge of the site.



9. CONCLUSIONS & RECOMMENDATIONS

A2 Environmental Consultants Limited has conducted a Phase 1 assessment of the subject site as detailed in the preceding text and concluded that the environmental risk posed by the site to future residential development is low to moderate. This risk rating relates to the presence of mine workings on site and the use of adjacent land for the extraction of oils from Oil Shales.

It is recommended that the historic mine shafts, adits and quarry are located and if necessary treated, infilled or capped. A programme of site investigation is recommended in order to confirm the absence of significant ground contamination at the site generally and in particular in the vicinity of these historical mine workings.



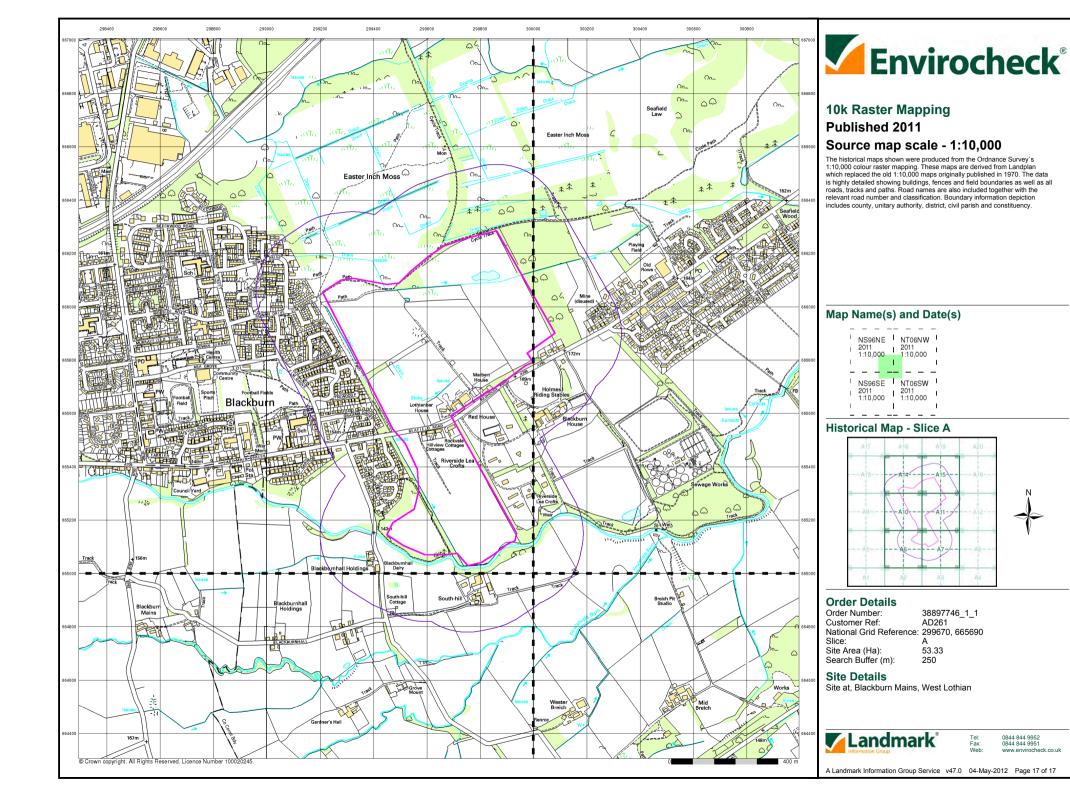
Appendices

Appendix A	Site Plans
	Site Location Plan (Fig. 1)
Appendix B	EnviroCheck Report
Appendix C	Site Photographs
Appendix D	Coal Authority Report



Appendix A Site Plans

Site Location Plan (Fig. 1)





Appendix B EnviroCheck Report



Envirocheck® Report:

Datasheet

Order Details:

Order Number: 38897746_1_1

Customer Reference: AD261

National Grid Reference: 299670, 665690

Slice:

Site Area (Ha):

53.33

Search Buffer (m): 250

Site Details:

Site at Blackburn Mains West Lothian

Client Details:

Mr J Marsh A2 Environmental Consultants Ltd 53 Bothwell Street Glasgow G2 6TS



Report Section	Page Number
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Agency & Hydrological	1
Waste	3
Hazardous Substances	-
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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 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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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and the Health Protection Agency.

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Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Agency & Hydrological			
Contaminated Land Register Entries and Notices			
Discharge Consents	pg 1	1	1
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 1	Yes	
Pollution Incidents to Controlled Waters			
Prosecutions Relating to Authorised Processes			
Prosecutions Relating to Controlled Waters			
Registered Radioactive Substances	pg 1		1
River Quality			
Substantiated Pollution Incident Register			
Water Abstractions			
Water Industry Act Referrals			
Groundwater Vulnerability	pg 1	Yes	n/a
Source Protection Zones			
River Flood Data (Scotland)	pg 1	Yes	Yes
Waste			
BGS Recorded Landfill Sites			
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)			
Licensed Waste Management Facilities (Locations)			
Local Authority Recorded Landfill Sites			
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			
Hazardous Substances			
Control of Major Accident Hazards Sites (COMAH)			
Explosive Sites			
Notification of Installations Handling Hazardous Substances (NIHHS)			
Planning Hazardous Substance Consents			
Planning Hazardous Substance Enforcements			

Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Geological			
BGS 1:625,000 Solid Geology	pg 4	Yes	n/a
BGS Estimated Soil Chemistry	pg 4	Yes	Yes
BGS Recorded Mineral Sites	pg 12	1	2
BGS Urban Soil Chemistry			
BGS Urban Soil Chemistry Averages			
Brine Compensation Area			n/a
Coal Mining Affected Areas	pg 12	Yes	n/a
Mining Instability	pg 12	Yes	n/a
Man-Made Mining Cavities	pg 13		1
Natural Cavities			
Non Coal Mining Areas of Great Britain	pg 13	Yes	Yes
Potential for Collapsible Ground Stability Hazards	pg 13	Yes	Yes
Potential for Compressible Ground Stability Hazards	pg 14	Yes	Yes
Potential for Ground Dissolution Stability Hazards	pg 14	Yes	Yes
Potential for Landslide Ground Stability Hazards	pg 14	Yes	Yes
Potential for Running Sand Ground Stability Hazards	pg 15	Yes	Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 15	Yes	Yes
Radon Potential - Radon Affected Areas			n/a
Radon Potential - Radon Protection Measures			n/a
Industrial Land Use			
Contemporary Trade Directory Entries	pg 17	2	
Fuel Station Entries			

Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Sensitive Land Use			
Areas of Adopted Green Belt			
Areas of Unadopted Green Belt			
Environmentally Sensitive Areas			
Forest Parks			
Local Nature Reserves	pg 18	1	
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			



Agency & Hydrological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Findlay, Robert Not Supplied Redhouse Farm Blackburn Scottish Environment Protection Agency, East Region Not Supplied Wpc/E/1151 1 Not Supplied 28th October 1968 Not Supplied Septic tank Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 100m	A10SE (S)	0	1	299600 665400
2	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Findlay, Robert Not Supplied Redhouse Farm Blackburn West Lothian Scottish Environment Protection Agency, East Region Not Supplied Wpc/E/910 1 Not Supplied 28th October 1968 Not Supplied Septic tank Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 100m	A6NE (SW)	67	1	299500 665300
	Nearest Surface Wa	ter Feature	A15SW	0	-	299889
3	Registered Radioac Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Lothian Regional Council Elm Grove, Blackburn, BATHGATE, West Lothian, EH47 7QW Scottish Environment Protection Agency, Head Office IPB/3/6/LD/001 8th January 1981 Registration under S7 of RSA to keep or accumulate radioactive material Use of one or more closed source(s) Not Given	(NE) A10NW (W)	155	2	666098 299217 665702
	Groundwater Vulne Geological Classification: Soil Classification: Map Sheet: Scale:		A11NW (E)	0	2	299669 665691
	Drift Deposits Drift Deposit: Map Sheet: Scale:	Low permeability drift deposits which include till, head, peat, lacustrine deposits, clay-with-flints and brick earths Map of Scotland 1:625,000	A11NW (E)	0	2	299669 665691
	River Flood Data (S Type: Flood Plain Type: Source:	cotland) Flood Plain Depth 0 -1 Metres 0-1m estimated 100yr flood depth Centre for Ecology and Hydrology	A6NE (S)	0	3	299500 665200
	River Flood Data (S Type: Flood Plain Type: Source:	cotland) Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A6NE (S)	0	3	299500 665150
	River Flood Data (S Type: Flood Plain Type: Source:	cotland) Flood Plain Depth 0 -1 Metres 0-1m estimated 100yr flood depth Centre for Ecology and Hydrology	A6NE (S)	0	3	299550 665150
	River Flood Data (S Type: Flood Plain Type: Source:	cotland) Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NW (S)	0	3	299650 665100

Order Number: 38897746_1_1

Date: 04-May-2012

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Agency & Hydrological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 0 -1 Metres 0-1m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NW (S)	0	3	299750 665100
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NW (S)	0	3	299700 665100
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NW (S)	0	3	299850 665100
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NW (S)	0	3	299750 665050
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A6NE (SW)	51	3	299400 665250
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NE (SE)	63	3	300000 665200
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 0 -1 Metres 0-1m estimated 100yr flood depth Centre for Ecology and Hydrology	A6NE (SW)	115	3	299350 665250
	River Flood Data (Scotland)				
	Type: Flood Plain Type: Source:	Flood Plain Depth 1 - 2 Metres 1-2m estimated 100yr flood depth Centre for Ecology and Hydrology	A7NE (SE)	171	3	300100 665250



Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage				
	Name: West Lothian Council - Has supplied landfill data		0	4	299669 665691



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid					
	Description:	Tournaisian and Visean (Carboniferous Limestone Series)	A11NW (E)	0	5	299669 665691
	BGS Estimated Soil Source: Soil Sample Type: Arsenic	Chemistry British Geological Survey, National Geoscience Information Service Sed <15 mg/kg	A15SW (NE)	0	6	299965 666020
	Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	<1.8 mg/kg 60 - 90 mg/kg				
	BGS Estimated Soil	-				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg	A15SW (NE)	0	6	299965 666000
	Concentration: Cadmium	<1.8 mg/kg				
	Concentration: Chromium	60 - 90 mg/kg				
	Concentration: Lead Concentration: Nickel Concentration:	<150 mg/kg 15 - 30 mg/kg				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg	A15SE (NE)	0	6	300000 666000
	Cadmium Concentration: Chromium	<1.8 mg/kg 60 - 90 mg/kg				
	Concentration: Lead Concentration: Nickel Concentration:	<150 mg/kg 15 - 30 mg/kg				
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration:	Chemistry British Geological Survey, National Geoscience Information Service Sed <15 mg/kg	A11NW (E)	0	6	299956 665691
	Cadmium Concentration:	<1.8 mg/kg				
	Chromium Concentration: Lead Concentration: Nickel Concentration:	60 - 90 mg/kg <150 mg/kg 15 - 30 mg/kg				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg	A11NE (E)	0	6	300000 665691
	Concentration: Cadmium Concentration:	<1.8 mg/kg				
	Chromium Concentration: Lead Concentration:	60 - 90 mg/kg <150 ma/ka				
	Nickel Concentration:	15 - 30 mg/kg				
	BGS Estimated Soil	-				
	Source: Soil Sample Type: Arsenic Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg	A14SE (N)	0	6	299547 666069
	Cadmium Concentration: Chromium	<1.8 mg/kg 60 - 90 mg/kg				
	Concentration: Lead Concentration: Nickel Concentration:					



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A14SE (N)	0	6	299577 666069
	Concentration:					
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A14SE (NW)	0	6	299538 666000
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A15SW (N)	0	6	299669 666000
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A14SE (N)	0	6	299625 666072
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A10NE (NW)	0	6	299462 665847
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg <150 mg/kg 15 - 30 mg/kg	A10NE (NW)	0	6	299488 665831



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A14SE (N)	0	6	299549 666042
	Concentration:					
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A14SE (N)	0	6	299579 666036
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A14SE (N)	0	6	299570 666000
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A15SW (N)	0	6	299658 666031
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A7NW (SE)	0	6	299940 665167
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg <150 mg/kg 15 - 30 mg/kg	A11NW (E)	0	6	299669 665691



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry					
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A15SE (NE)	0	6	300000 666021
	Concentration:					
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A7NW (SE)	3	6	299949 665172
	BGS Estimated Soil Chemistry					
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg <150 mg/kg 15 - 30 mg/kg	A11NW (E)	11	6	299955 665687
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A7NW (S)	30	6	299669 665000
	BGS Estimated Soil Chemistry					
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A7NW (SE)	38	6	299980 665111
	BGS Estimated Soil					
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg <150 mg/kg 15 - 30 mg/kg	A7NE (SE)	63	6	300002 665195



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A7NE (SE)	69	6	300055 665180
<u> </u>	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A11NE (E)	75	6	300000 665679
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg <150 mg/kg 15 - 30 mg/kg	A6NE (SW)	79	6	299370 665161
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A7NW (S)	108	6	299935 665000
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A14SE (N)	114	6	299501 666250
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A6NE (SW)	121	6	299335 665178



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A10SE (SW)	121	6	299393 665407
	Concentration:					
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A15NW (NE)	124	6	299974 666338
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A7NE (SE)	140	6	300000 665000
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A15NE (NE)	144	6	300000 666333
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A6NW (SW)	146	6	299307 665122
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg <150 mg/kg 15 - 30 mg/kg	A11NE (E)	166	6	300262 665688



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A15SE (NE)	174	6	300223 666000
	Nickel Concentration:	15 - 30 mg/kg				
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium	Chemistry British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg	A6NW (SW)	182	6	299278 665201
	Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	90 - 120 mg/kg				
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A11NE (E)	198	6	300294 665689
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A15SE (NE)	203	6	300256 666000
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A14SW (NW)	210	6	299000 666000
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A6NW (SW)	214	6	299239 665115



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg <150 mg/kg	A10NW (W)	214	6	299099 665681
	Nickel Concentration: BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium	15 - 30 mg/kg Chemistry British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A10NW (NW)	217	6	299000 665979
	Concentration: Lead Concentration: Nickel Concentration:	15 - 30 mg/kg				
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A15SE (NE)	220	6	300265 666019
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A10NW (W)	223	6	299000 665930
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 90 - 120 mg/kg	A14SW (NW)	233	6	298984 666000
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A10NW (W)	243	6	299068 665680



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A10NW (W)	244	6	299000 665691
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sed <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A6NW (SW)	245	6	299253 665000
4	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Red House Blackburn, Whitburn, West Lothian British Geological Survey, National Geoscience Information Service 52395 Opencast Ceased Unknown Operator Not Supplied Carboniferous Hurlet Limestone Limestone Located by supplier to within 10m	A10NE (NW)	0	5	299440 665810
5	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Hopefield Blackburn, Whitburn, West Lothian British Geological Survey, National Geoscience Information Service 52394 Opencast Ceased Unknown Operator Not Supplied Carboniferous Hurlet Limestone Limestone Located by supplier to within 10m	A10NE (W)	75	5	299310 665695
6	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:		A15SE (NE)	177	5	300170 666100
	BGS Measured Urb No data available	an Soil Chemistry				
	BGS Urban Soil Che No data available					
	Coal Mining Affecte Description:	d Areas 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.	A11NW (E)	0	7	299669 665691
	Mining Instability Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	A11NW (E)	0	-	299669 665691



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11NW (E)	0	-	299669 665691
	Man-Made Mining Cavities Easting: 300000 Northing: 665000 Distance: 140 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Not supplied Commodity: Oil Solid Geology Detail: No Details Superficial Geology No Details Detail: Vertical Geology	A7NE (SE)	140	8	300000 665000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	5	299490 665830
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	32	5	299669 664998
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	119	5	299394 665405
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	142	5	300001 664998
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	166	5	300263 665686
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	220	5	300266 666017
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	245	5	299254 664998
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	5	299658 666029
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	5	299950 665170
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	32	5	299669 664998
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	65	5	300003 665193
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	77	5	299371 665159



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	A7NE (SE)	142	5	300001 664998
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	145	5	300001 666331
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A14SE (N)	0	5	299625 666070
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	5	299658 666029
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	5	299950 665170
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	32	5	299669 664998
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	65	5	300003 665193
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	77	5	299371 665159
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	88	5	300135 665980
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	142	5	300001 664998
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	145	5	300001 666331
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	5	299490 665830
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	5	299473 665808
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	48	5	299347 665682
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (SW)	208	5	299265 665492
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NW (W)	214	5	299100 665679
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	5	299942 665111
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691

.0 A Landmark Information Group Service



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
		lide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NW (S)	32	5	299669 664998
		slide Ground Stability Hazards		70	_	
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	70	5	300001 665117
		slide Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A6NE (SW)	87	5	299363 665142
	Potential for Lands	slide Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	141	5	300060 665217
	Potential for Lands	slide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	142	5	300001 664998
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A15SW (N)	0	5	299658 666029
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	5	299950 665170
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NW (S)	32	5	299669 664998
		ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	65	5	300003 665193
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	70	5	300056 665178
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A6NE (SW)	77	5	299371 665159
	Potential for Runni	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	142	5	300001 664998
	Potential for Shrink	king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691
	Potential for Shrink	king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A14SE (N)	0	5	299625 666070
		king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
		king or Swelling Clay Ground Stability Hazards	(-/			
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NW (S)	32	5	299669 664998
		king or Swelling Clay Ground Stability Hazards	(0)			
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NE (SE)	142	5	300001 664998
		king or Swelling Clay Ground Stability Hazards	(02)			
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A15SE (NE)	145	5	300001 666331



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - R	adon Protection Measures				
	Protection Measure: Source:	No radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Radon Potential - R	adon Protection Measures				
	Protection Measure: Source:	No radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691
	Radon Potential - R	adon Affected Areas				
	Affected Area: Source:	The property is in a lower probability radon area, as less than 1% of homes are above the action level British Geological Survey, National Geoscience Information Service	A11NW (E)	0	5	299669 665691
	Radon Potential - R	adon Affected Areas				
	Affected Area: Source:	The property is in a lower probability radon area, as less than 1% of homes are above the action level British Geological Survey, National Geoscience Information Service	A11NE (E)	0	5	300001 665691



Industrial Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	e Directory Entries				
7	Name: Location: Classification: Status: Positional Accuracy:	Findlay Freight Solutions Lismore, Seafield Road, Blackburn, Bathgate, West Lothian, EH47 7AG Freight Forwarders Inactive Automatically positioned to the address	A11SW (S)	0	-	299697 665552
	Contemporary Trad	e Directory Entries				
8	Name: Location: Classification: Status: Positional Accuracy:	Superior Maid Blackburn, Bathgate, West Lothian, EH47 7AG Cleaning Services - Domestic Inactive Manually positioned within the geographical locality	A10SE (S)	0	-	299607 665510



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Nature Rese	rves				
9	Name: Multiple Area: Area (m2): Source: Designation Date:	Easter Inch Moss And Seafield Law N 1433372.1 West Lothian Council Not Supplied	A14SE (NW)	0	9	299444 666037

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
West Lothian Council	August 2011	Annual Rolling Update
Discharge Consents		
Scottish Environment Protection Agency - East Region	June 2001	Variable
Enforcement and Prohibition Notices		
Scottish Environment Protection Agency - East 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	Variable
Local Authority Pollution Prevention and Controls		
Scottish Environment Protection Agency - East Region	March 2002	Variable
Nearest Surface Water Feature		
Ordnance Survey	December 2011	Quarterly
Prosecutions Relating to Authorised Processes		
Scottish Environment Protection Agency - East Region	March 2007	Not Applicable
Prosecutions Relating to Controlled Waters		
Scottish Environment Protection Agency - East Region	March 2007	Not Applicable
Registered Radioactive Substances		
Scottish Environment Protection Agency - East Region	April 1996	Variable
Scottish Environment Protection Agency - Head Office	January 1998	Variable
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	Variable
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

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	Variable
Scottish Environment Protection Agency - East Region	March 2002	Variable
Local Authority Landfill Coverage		
West Lothian Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
West Lothian Council - Environmental Health Department	May 2000	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
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
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
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	December 2011	Bi-Annually
Explosive Sites		
Health and Safety Executive	December 2011	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
West Lothian Council - Planning Department	August 2011	Annual Rolling Update
Planning Hazardous Substance Consents		
West Lothian Council - Planning Department	August 2011	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	October 2011	Bi-Annually
Coal Mining Affected Areas		
The Coal Authority - Mining Report Service	August 2011	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	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	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	February 2012	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	November 2011	Quarterly

Sensitive Land Use	Version	Update Cycle
Environmentally Sensitive Areas		
Scottish Executive - Geographic Information Service	April 2012	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
West Lothian Council	December 2011	Bi-Annually
Marine Nature Reserves		
Scottish Natural Heritage	February 2012	Bi-Annually
National Nature Reserves		
Scottish Natural Heritage	December 2011	Bi-Annually
Nitrate Vulnerable Zones		
Scottish Executive - Geographic Information Service	April 2011	Annually
Ramsar Sites		
Scottish Natural Heritage	December 2011	Bi-Annually
Sites of Special Scientific Interest		
Scottish Natural Heritage	May 2012	Bi-Annually
Special Areas of Conservation		
Scottish Natural Heritage	December 2011	Bi-Annually
Special Protection Areas		
Scottish Natural Heritage	December 2011	Bi-Annually



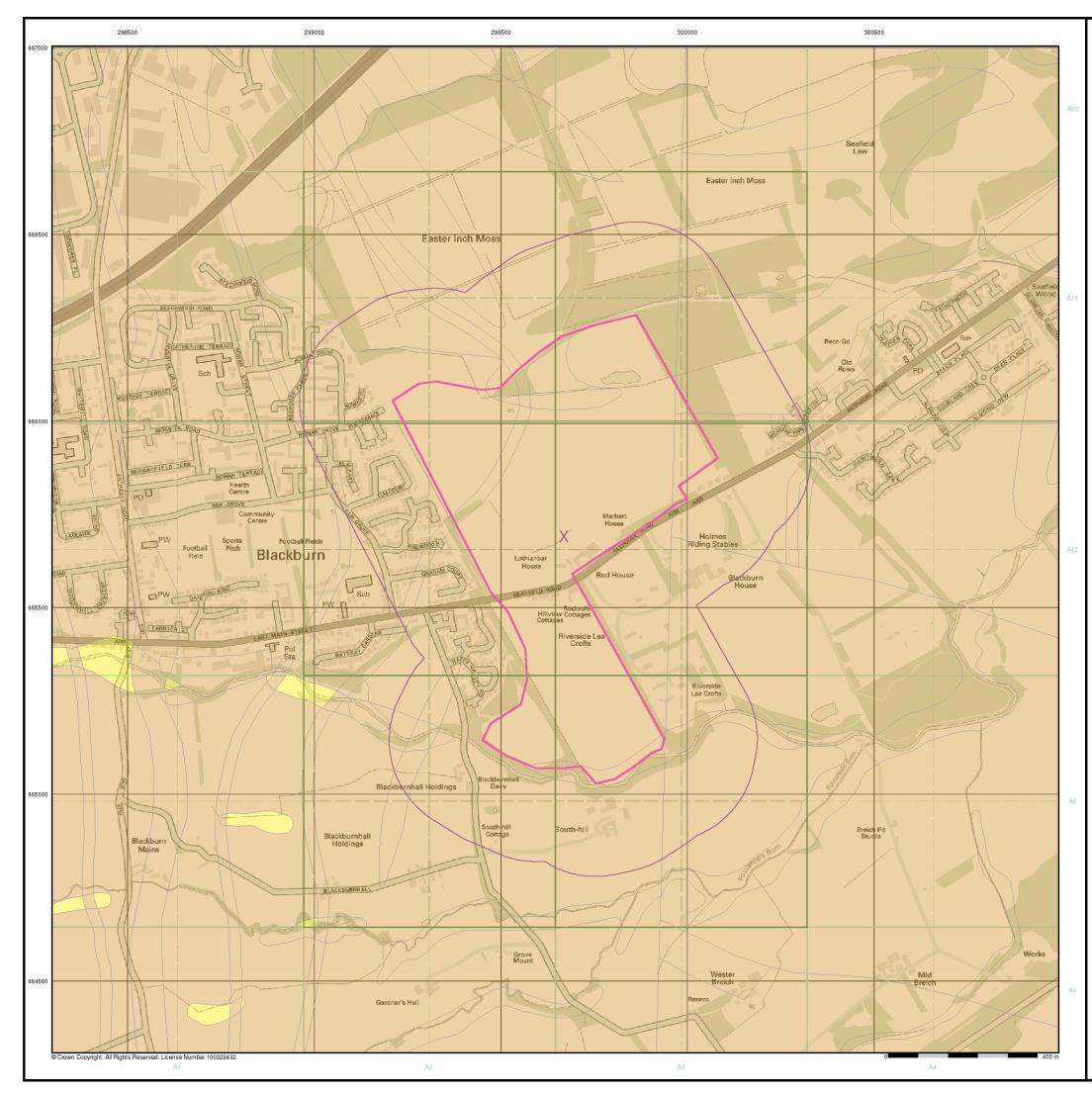
A selection of organisations who provide data within this report

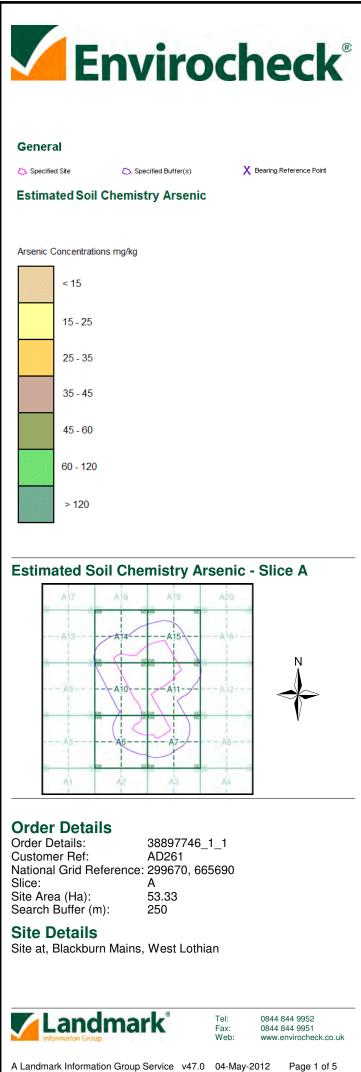
Data Supplier	Data Supplier Logo
Ordnance Survey	Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEP Section Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	
Health Protection Agency	Heith
Ove Arup	ARUP
Peter Brett Associates	peterbrett

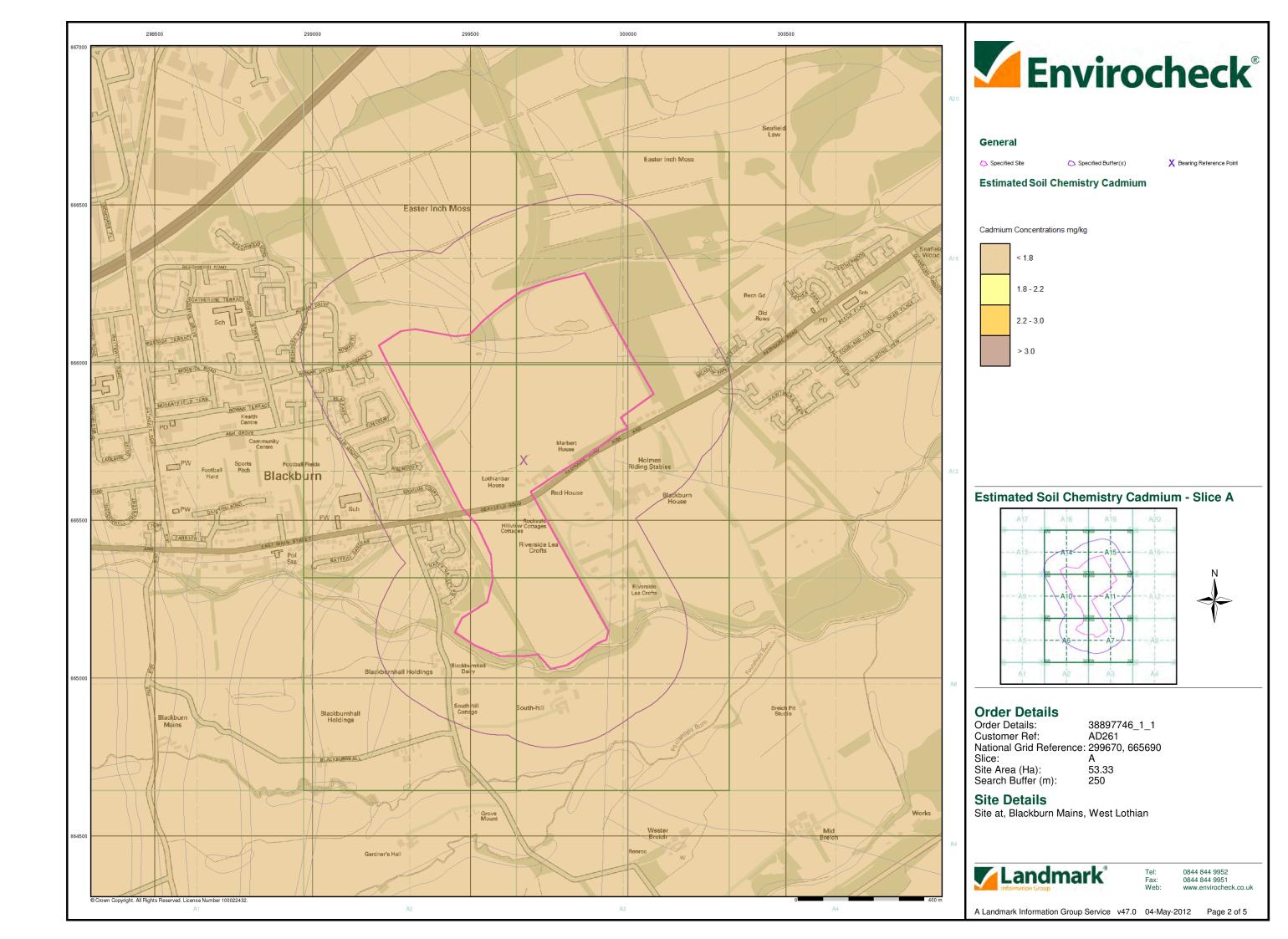
Useful Contacts

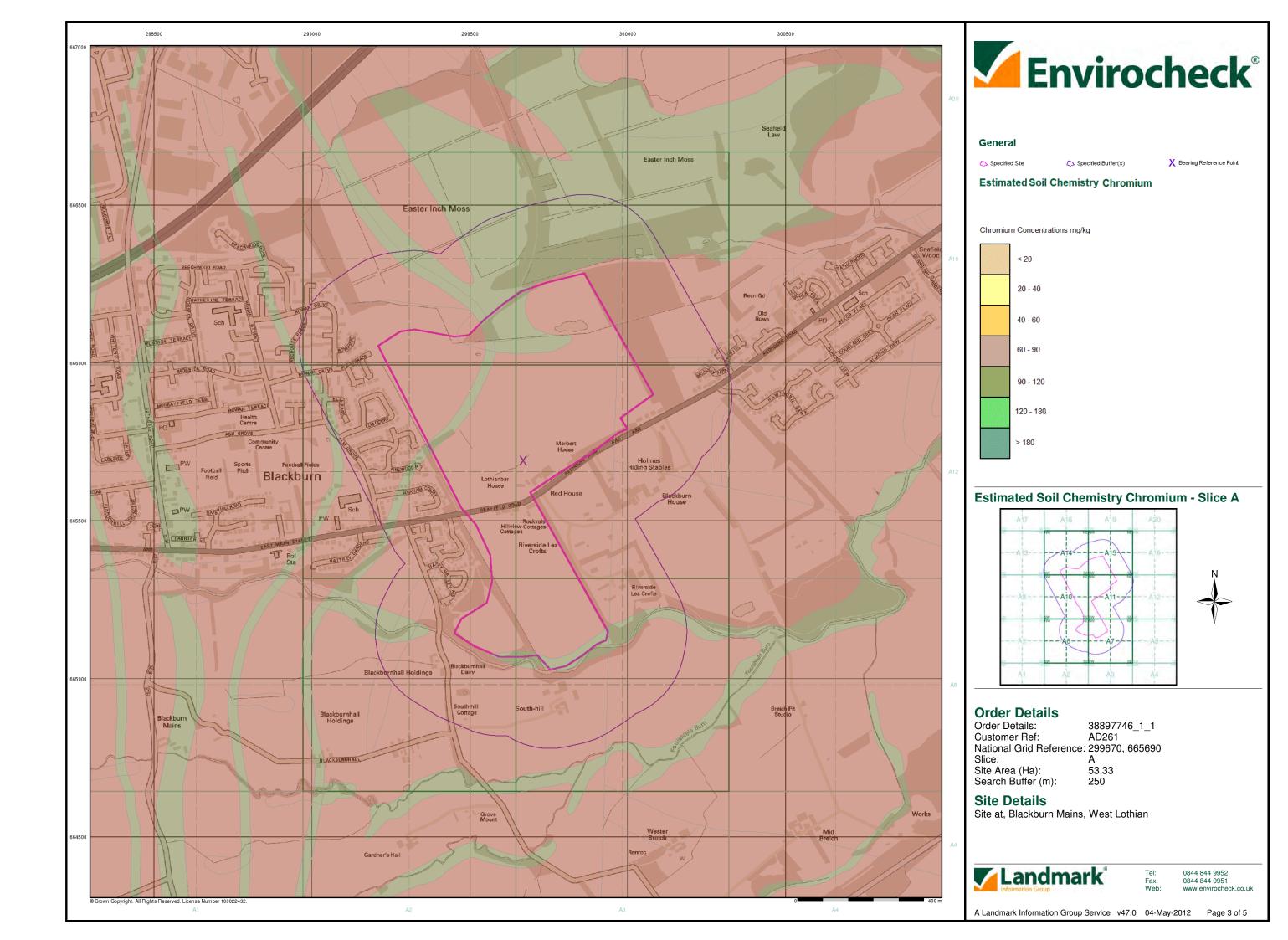
Contact	Name and Address	Contact Details
1	Scottish Environment Protection Agency - East Region Clearwater House, Heriot Watt Research Park, Avenue North, Riccarton, Edinburgh, Midlothian, EH14 4AP	Telephone: 0131 449 7296 Fax: 0131 449 7277
2	Scottish Environment Protection Agency - Head Office Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
3	Centre for Ecology and Hydrology Maclean Building, Crowmarsh Gifford, WALLINGFORD, Oxfordshire, OX10 8BB	Telephone: 01491 838800 Fax: 01491 692424
4	West Lothian Council - Environmental Health Department Old County Buildings, High Street, Linlithgow, West Lothian, EH49 7EZ	Telephone: 01506 775332 Website: www.westlothian.gov.uk
5	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
6	Landmark Information Group Limited 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
7	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
9	West Lothian Council West Lothian House, Almondvale North, Livingston, Lothian, EH54 6QG	Telephone: 01506 777000 Fax: 01506 777102 Website: www.westlothian.gov.uk
10	Scottish Natural Heritage 12 Hope Terrace, Edinburgh, Midlothian, EH9 2AS	Telephone: 0131 447 4784 Fax: 0131 446 2279
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

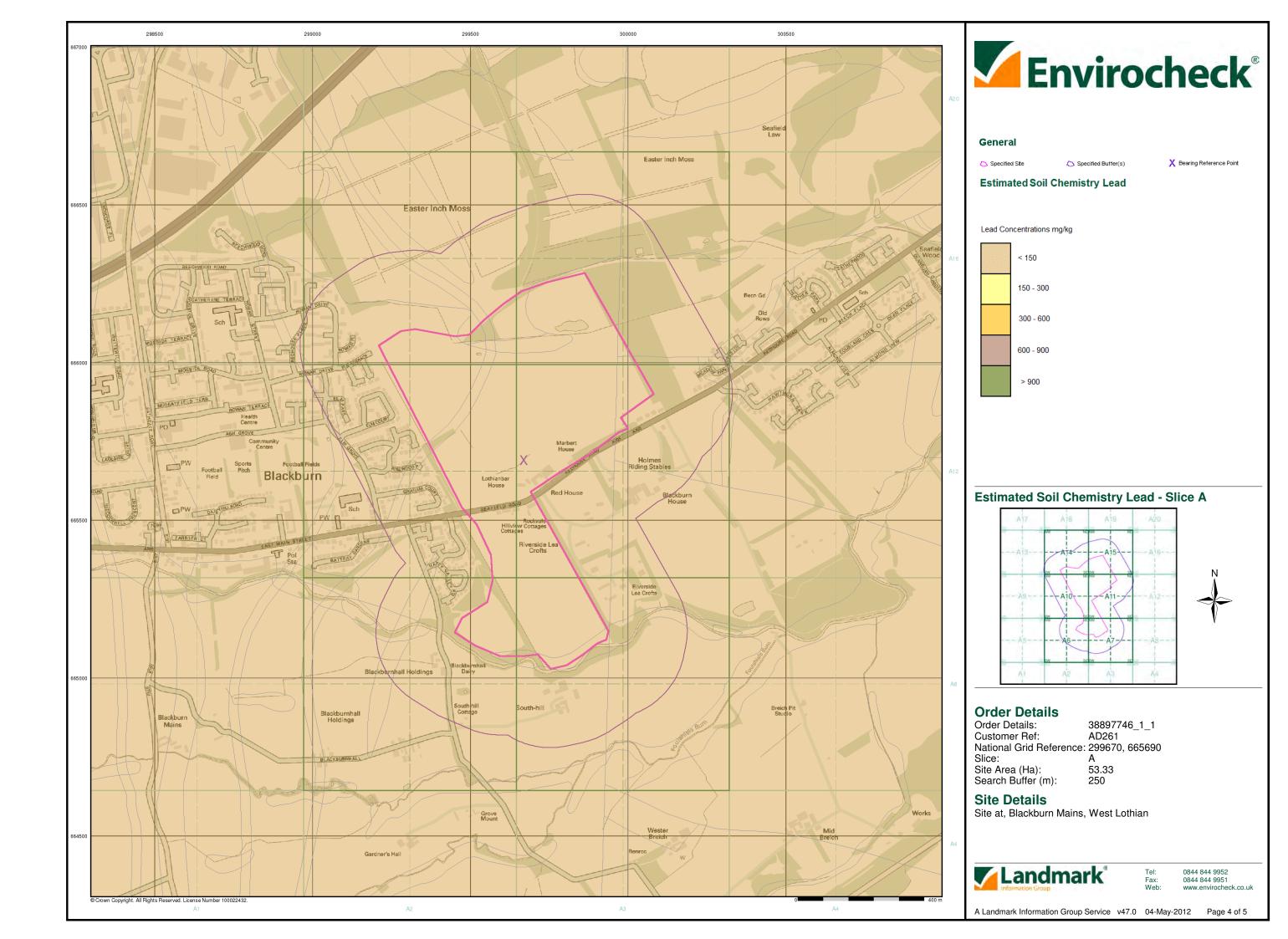
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.

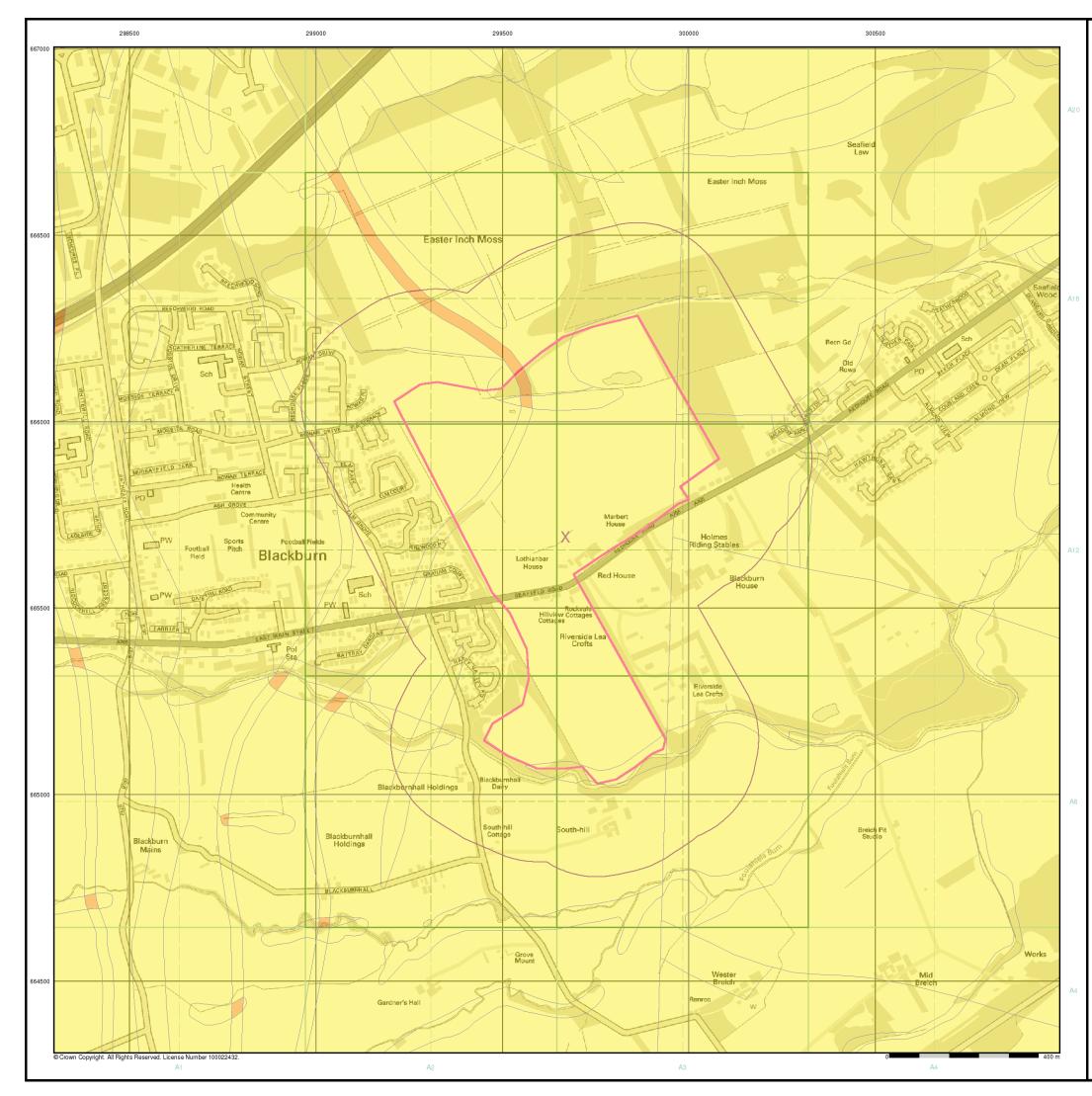


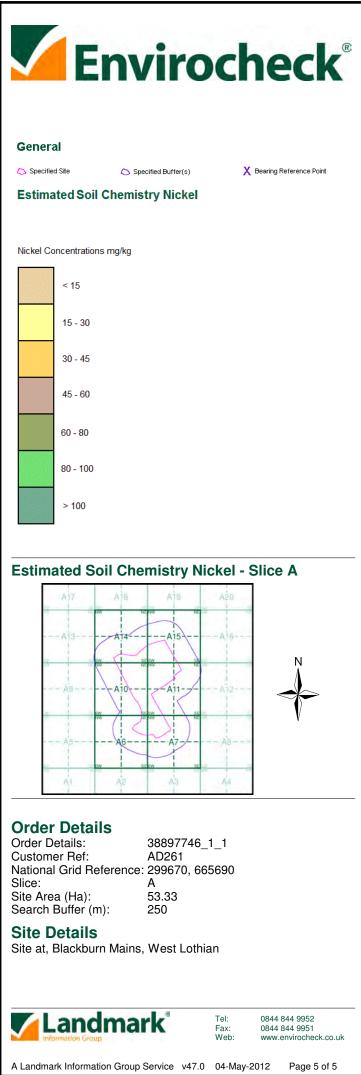


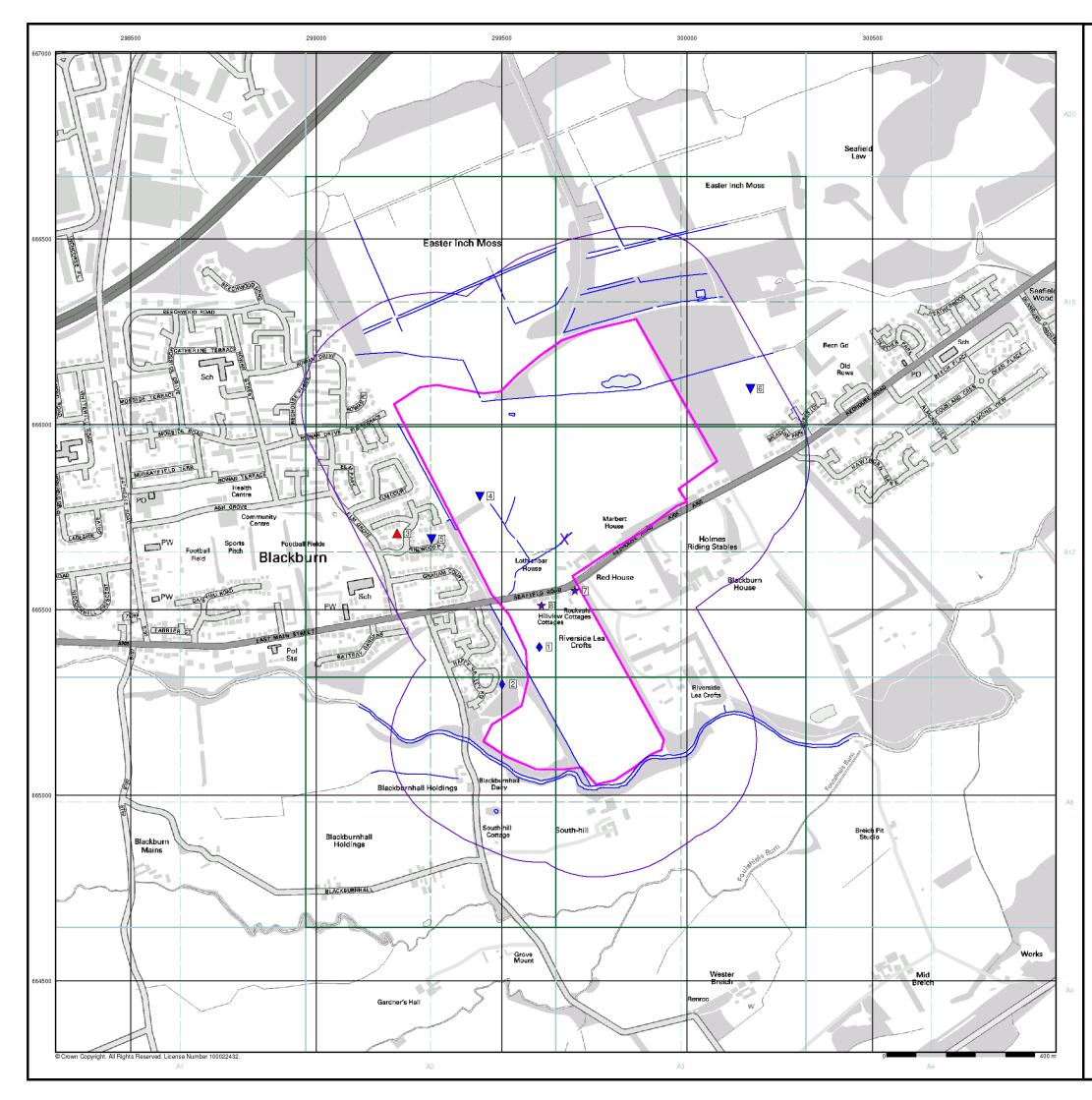












General

General	
🔼 Specified Site 🛛 💍 Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice (Location)	▼
Notice Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	\triangle
L Enforcement or Prohibition Notice	
▲ Integrated Pollution Control	Ш
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	►
A Local Authority Pollution Prevention and Control	
Control Enforcement	
Pollution Incident to Controlled Waters	٢
V Prosecution Relating to Authorised Processes	
Prosecution Relating to Controlled Waters	\bigcirc
🔺 Registered Radioactive Substance	
🥆 River Network or Water Feature	H
🔶 Substantiated Pollution Incident Register	⊮
🔷 Water Abstraction	×
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
★ Contemporary Trade Directory Entry	
🗙 Fuel Station Entry	

Bearing Reference Point 🛛 😣 Map ID

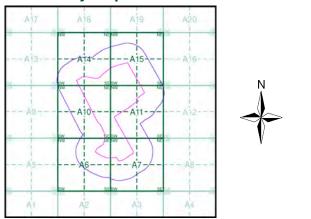
Naste

- BGS Recorded Landfill Site (Location)
- 🔀 BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

lazardous Substances

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

Site Sensitivity Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha): Search Buffer (m):

38897746_1_1 AD261 Α 53.33 250

Site Details

Site at, Blackburn Mains, West Lothian

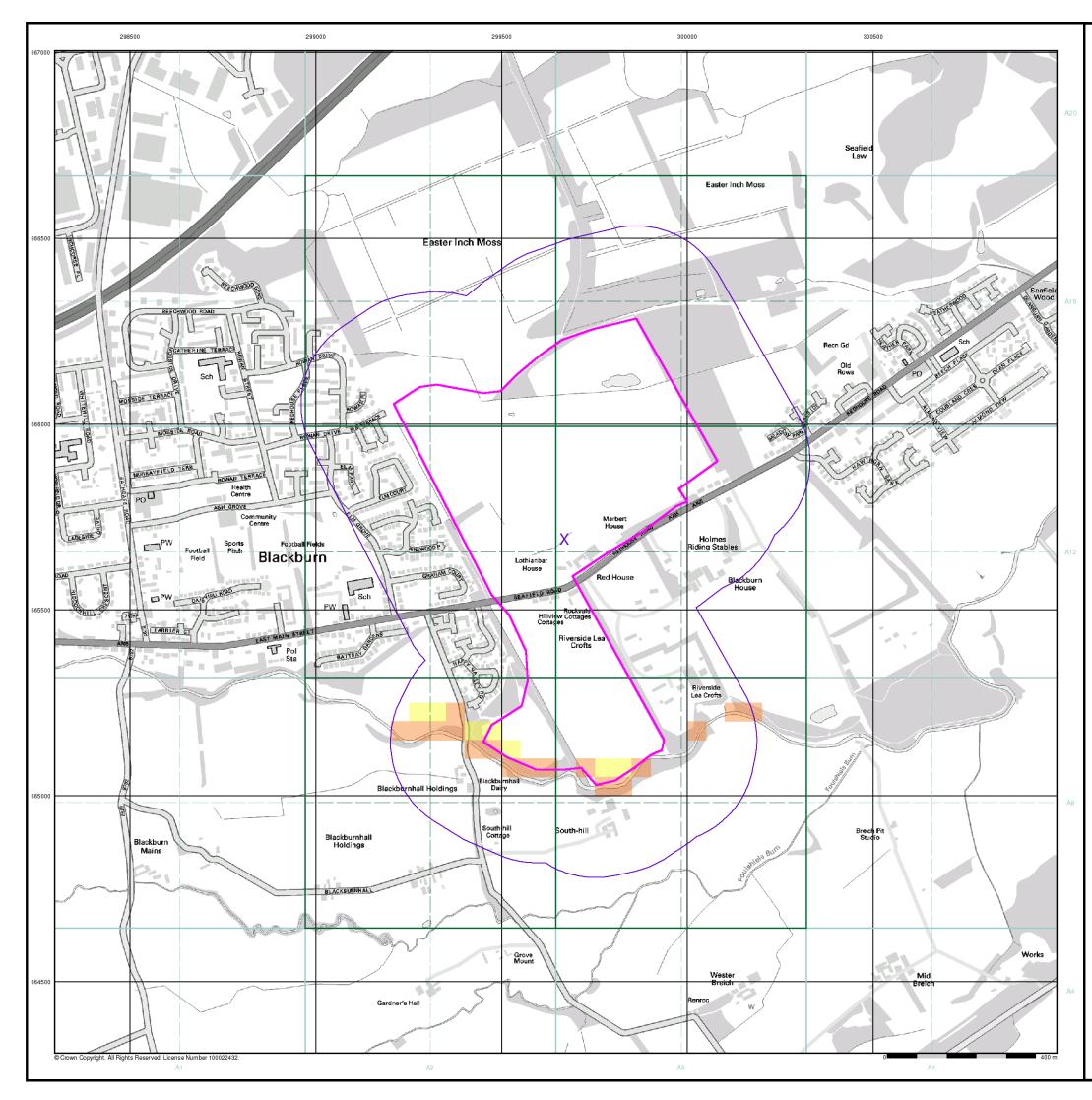


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A Landmark Information Group Service v47.0 04-May-2012 Page 1 of 3

Tel: Fax:

Web:





General

Specified Site

Specified Buffer(s)

X Bearing Reference Point

Agency and Hydrological (Flood)

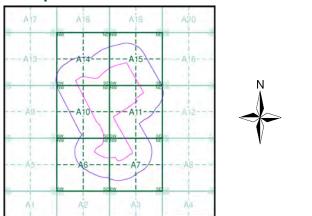
0 - 1m estimated 100yr flood depth

1 - 2m estimated 100yr flood depth

Over 2m estimated 100yr flood depth

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

Flood Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha): Search Buffer (m):

38897746_1_1 AD261 Α 53.33 250

Site Details

Site at, Blackburn Mains, West Lothian

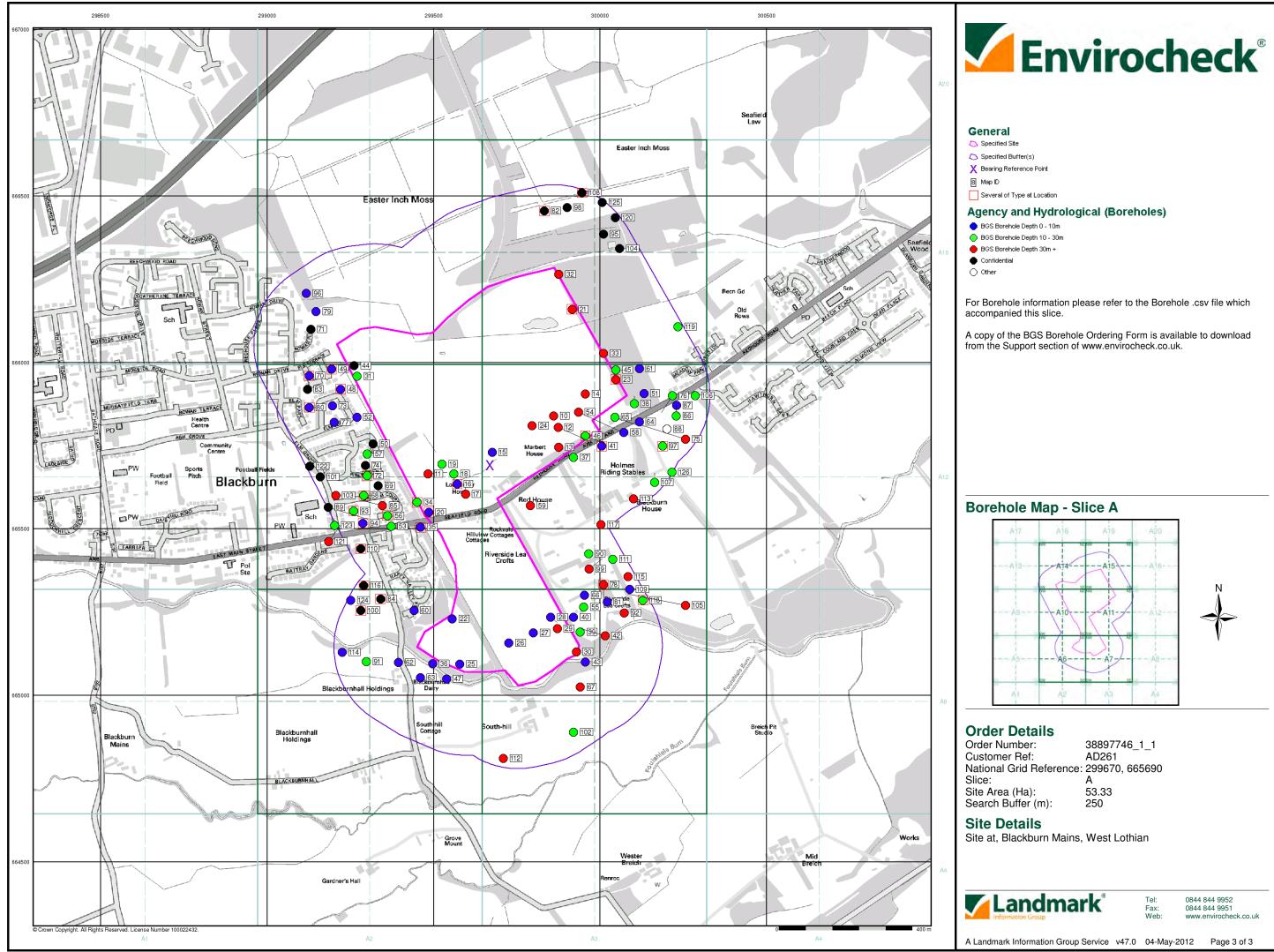


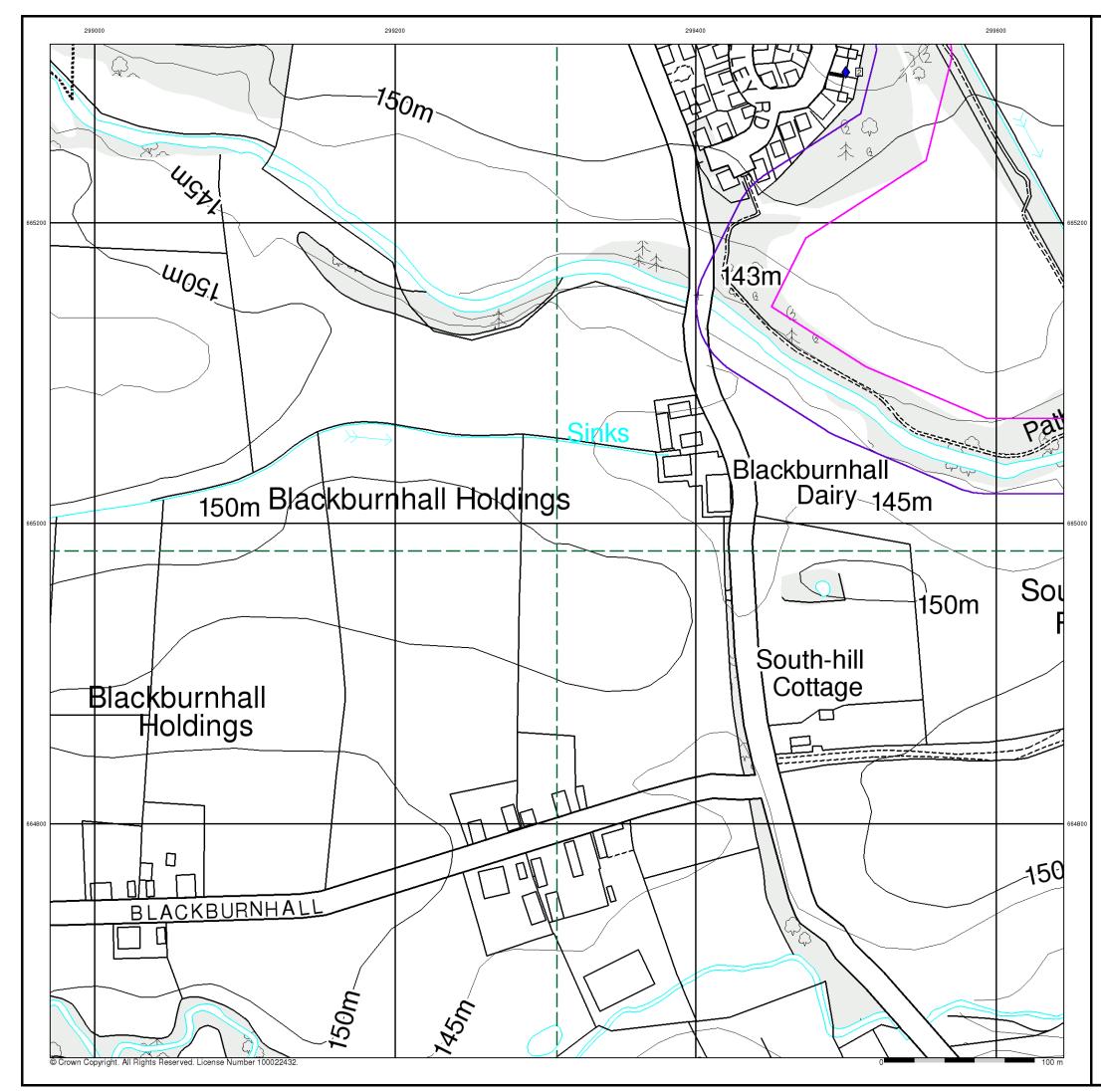
0844 844 9952

Tel: Fax:

Web:

0844 844 9951 www.envirocheck.co.uk





General

General	
🔼 Specified Site 🛛 💍 Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice	▼
Notice Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	\land
L Enforcement or Prohibition Notice	
▲ Integrated Pollution Control	
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	►
🛆 Local Authority Pollution Prevention and Control	
Control Enforcement	
Pollution Incident to Controlled Waters	
Prosecution Relating to Authorised Processes	
Prosecution Relating to Controlled Waters	\bigcirc
A Registered Radioactive Substance	
🥆 River Network or Water Feature	Ha
🔶 Substantiated Pollution Incident Register	×
🔷 Water Abstraction	M
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
★ Contemporary Trade Directory Entry	
🗙 Fuel Station Entry	

Bearing Reference Point 8 Map ID

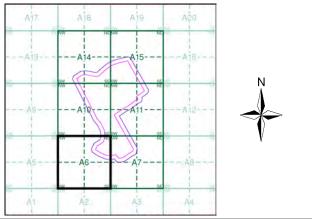
Naste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

lazardous Substances

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

Site Sensitivity Map - Segment A6



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha):

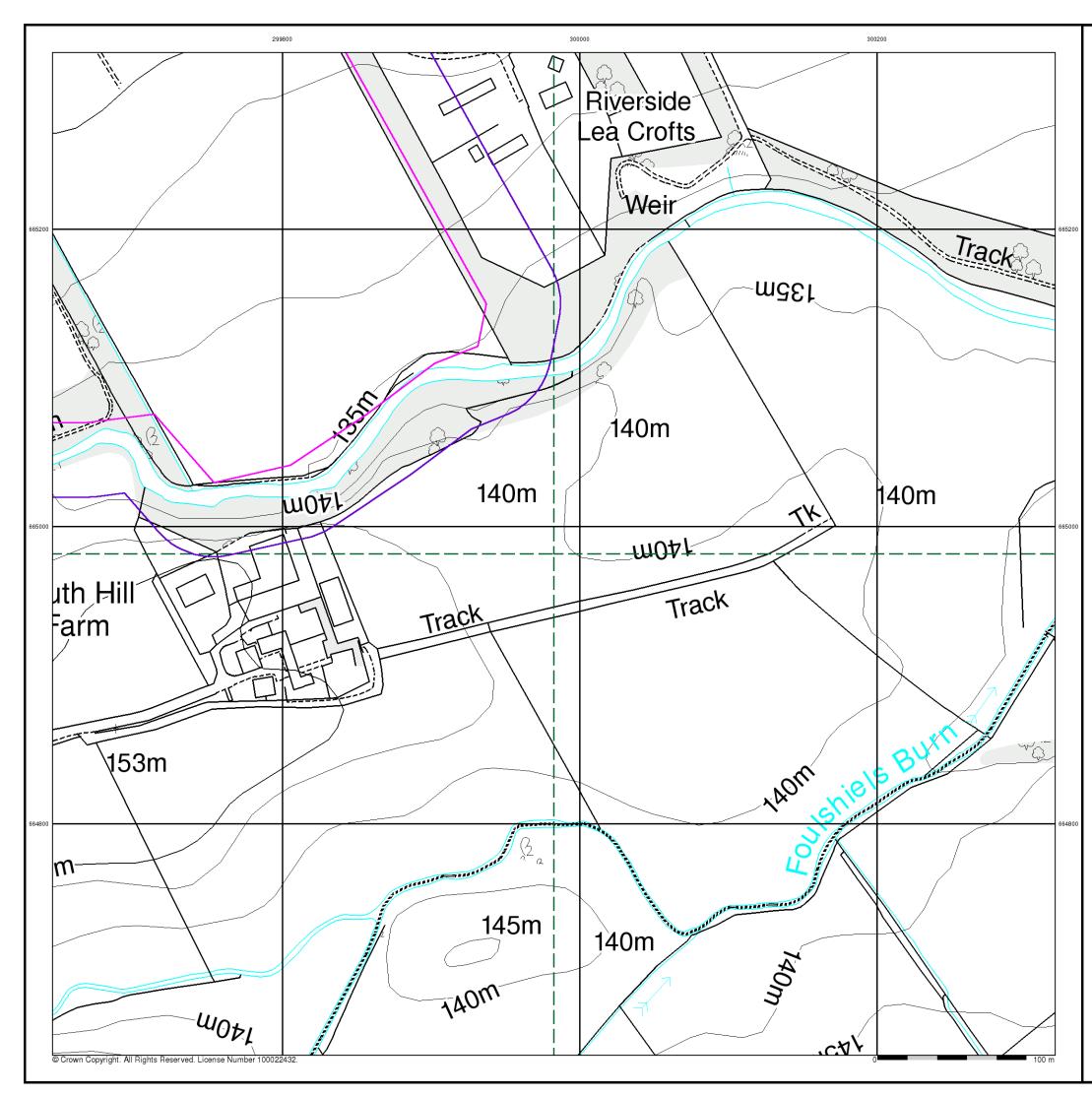
38897746_1_1 AD261 А 53.33

Site Details

Site at, Blackburn Mains, West Lothian



Tel: Fax: Web



General

General	
Specified Site Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice (Location)	V
Notice Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	\triangle
L Enforcement or Prohibition Notice	
▲ Integrated Pollution Control	Ш
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	►
🛆 Local Authority Pollution Prevention and Control	
Control Enforcement	
Pollution Incident to Controlled Waters	٢
Prosecution Relating to Authorised Processes	
Prosecution Relating to Controlled Waters	\bigcirc
🔺 Registered Radioactive Substance	
🥆 River Network or Water Feature	H
🔶 Substantiated Pollution Incident Register	⊮
🔷 Water Abstraction	×
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
★ Contemporary Trade Directory Entry	
★ Fuel Station Entry	

Bearing Reference Point 8 Map ID

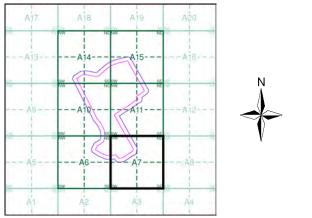
Naste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

lazardous Substances

- 🛛 COMAH Site
- 🕻 Explosive Site
- 🔄 NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha):

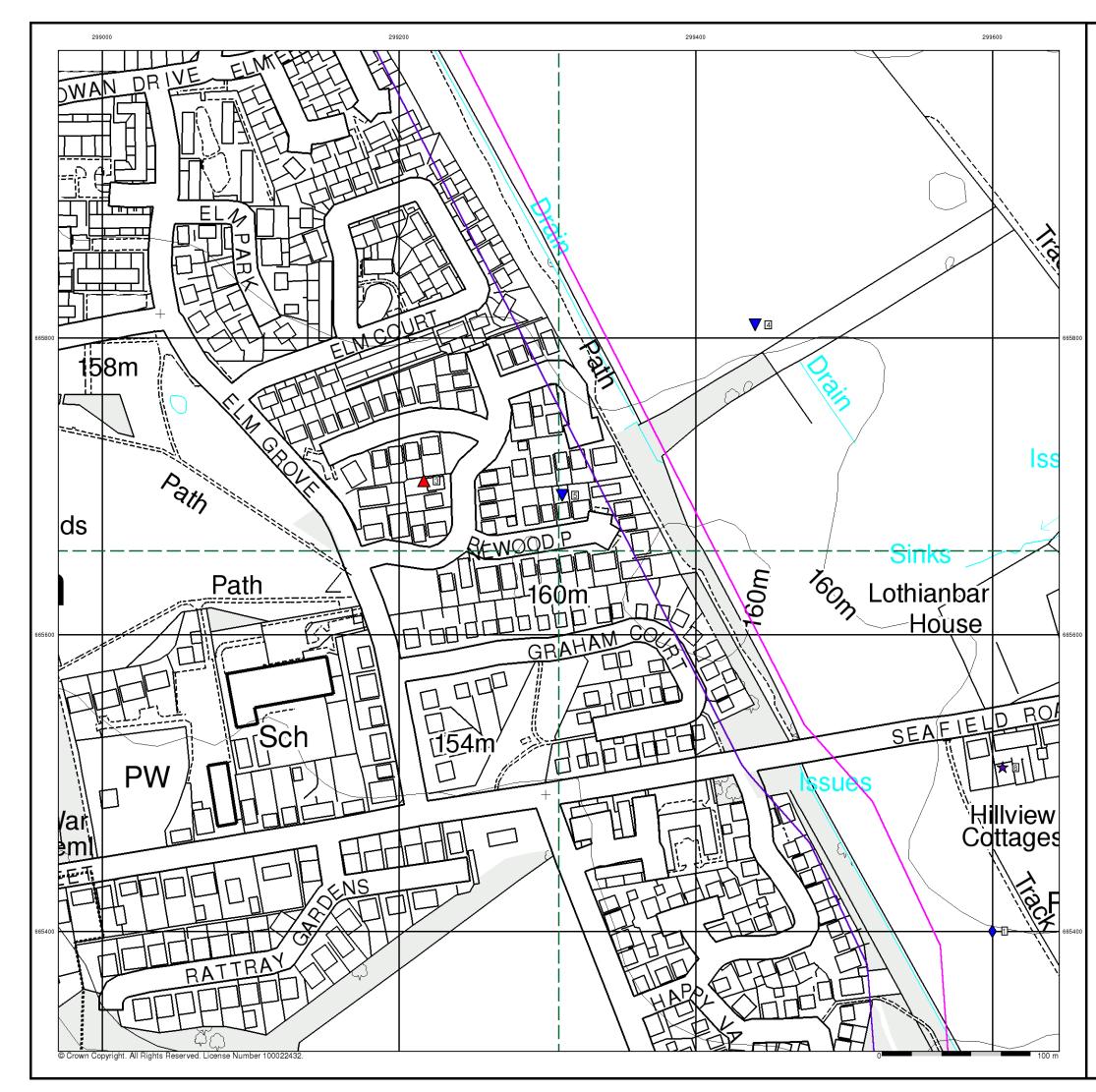
38897746_1_1 AD261 Α 53.33

Site Details

Site at, Blackburn Mains, West Lothian



Tel: Fax: Web



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General

General	
🔼 Specified Site 🛛 💍 Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice (Location)	▼
Notice Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	\triangle
L Enforcement or Prohibition Notice	
▲ Integrated Pollution Control	Ш
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	►
🛆 Local Authority Pollution Prevention and Control	
Control Enforcement	
Pollution Incident to Controlled Waters	٢
V Prosecution Relating to Authorised Processes	
Prosecution Relating to Controlled Waters	\bigcirc
🔺 Registered Radioactive Substance	
🥆 River Network or Water Feature	H
🔶 Substantiated Pollution Incident Register	⊮
🔷 Water Abstraction	×
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
★ Contemporary Trade Directory Entry	
🗙 Fuel Station Entry	

Bearing Reference Point 🛛 😣 Map ID

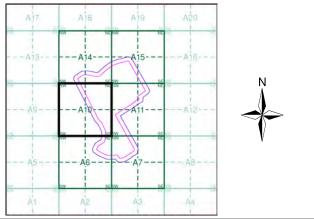
Naste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

lazardous Substances

- 🔄 COMAH Site
- 🕻 Explosive Site
- 성 NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A10



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha):

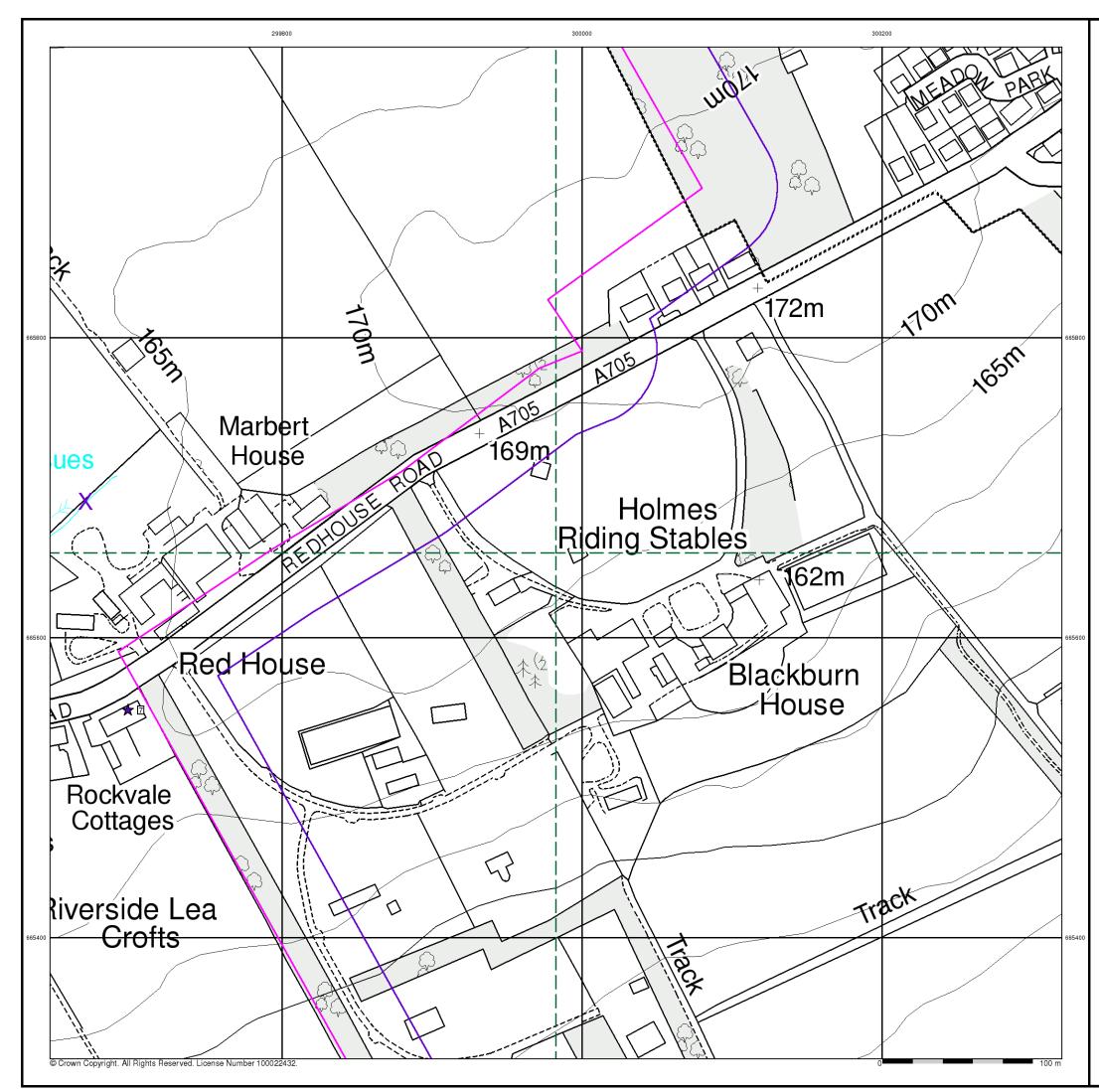
38897746_1_1 AD261 Α 53.33

Site Details

Site at, Blackburn Mains, West Lothian



Tel: Fax: Web:



Envirocheck[®]

General

General	
Specified Site Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice (Location)	V
📉 Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	\triangle
L Enforcement or Prohibition Notice	
▲ Integrated Pollution Control	Ш
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	►
🛆 Local Authority Pollution Prevention and Control	
Control Enforcement	
Pollution Incident to Controlled Waters	٢
Prosecution Relating to Authorised Processes	
Prosecution Relating to Controlled Waters	\bigcirc
🔺 Registered Radioactive Substance	
🥆 River Network or Water Feature	H
🔶 Substantiated Pollution Incident Register	⊮
🔷 Water Abstraction	×
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
★ Contemporary Trade Directory Entry	
★ Fuel Station Entry	

Bearing Reference Point 8 Map ID

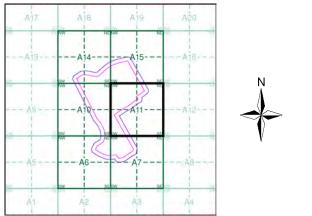
Naste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

lazardous Substances

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

Site Sensitivity Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha):

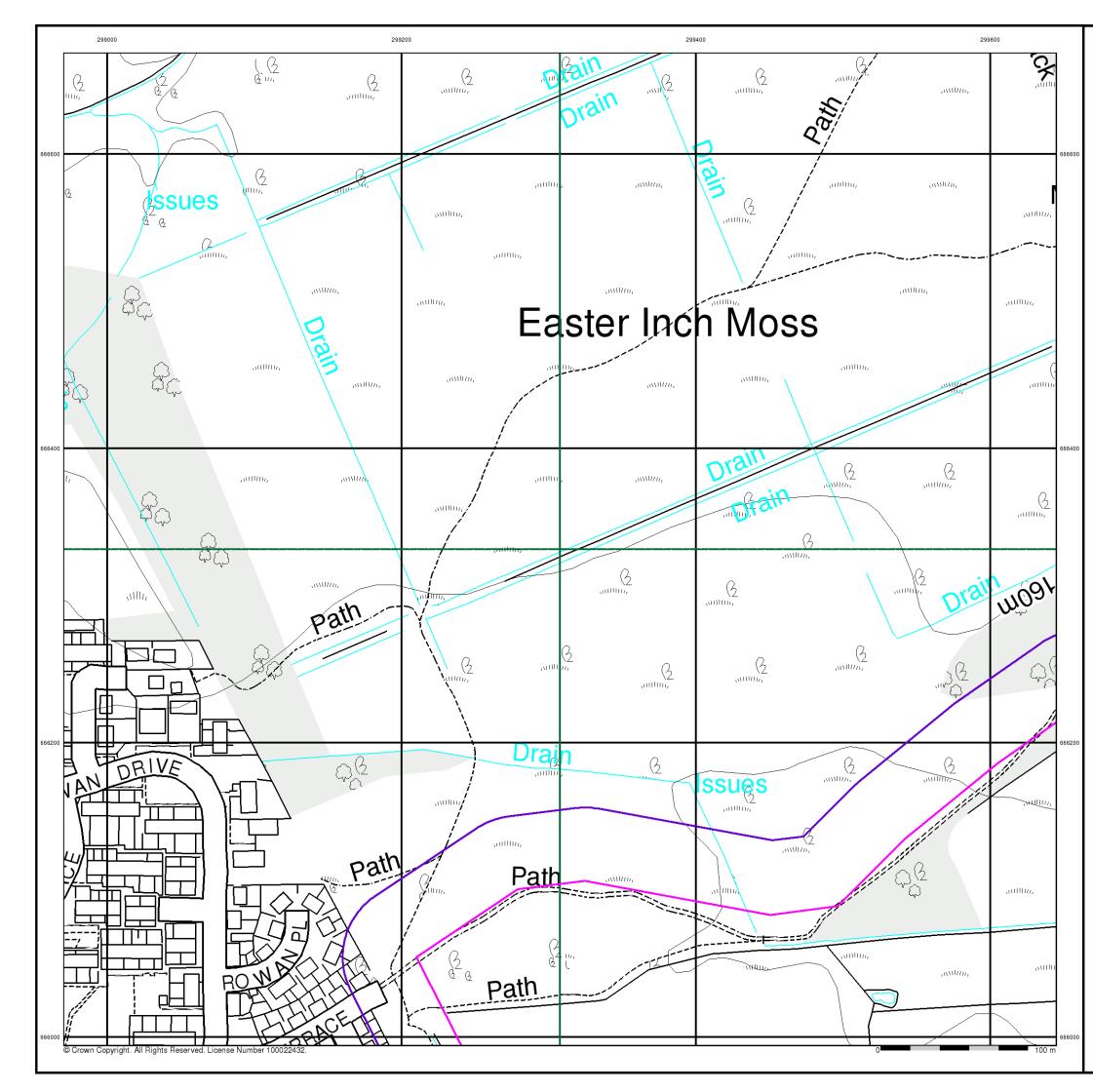
38897746_1_1 AD261 Α 53.33

Site Details

Site at, Blackburn Mains, West Lothian



Tel: Fax: Web



General

General	
Specified Site Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice	V
Notice Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	\triangle
L Enforcement or Prohibition Notice	
▲ Integrated Pollution Control	Ш
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	►
🛆 Local Authority Pollution Prevention and Control	
Control Enforcement	
Pollution Incident to Controlled Waters	
Prosecution Relating to Authorised Processes	Ш
Prosecution Relating to Controlled Waters	\bigcirc
🔺 Registered Radioactive Substance	
🥆 River Network or Water Feature	H
🔶 Substantiated Pollution Incident Register	⊮
🔷 Water Abstraction	×
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
★ Contemporary Trade Directory Entry	
★ Fuel Station Entry	

Bearing Reference Point 🛛 😣 Map ID

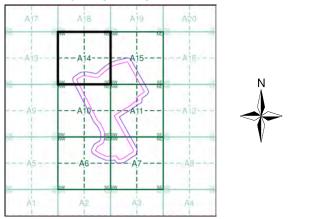
Naste

- BGS Recorded Landfill Site (Location)
- 🔀 BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

lazardous Substances

- 🛿 COMAH Site
- 🕻 Explosive Site
- 🔄 NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A14



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha):

38897746_1_1 AD261 Α 53.33

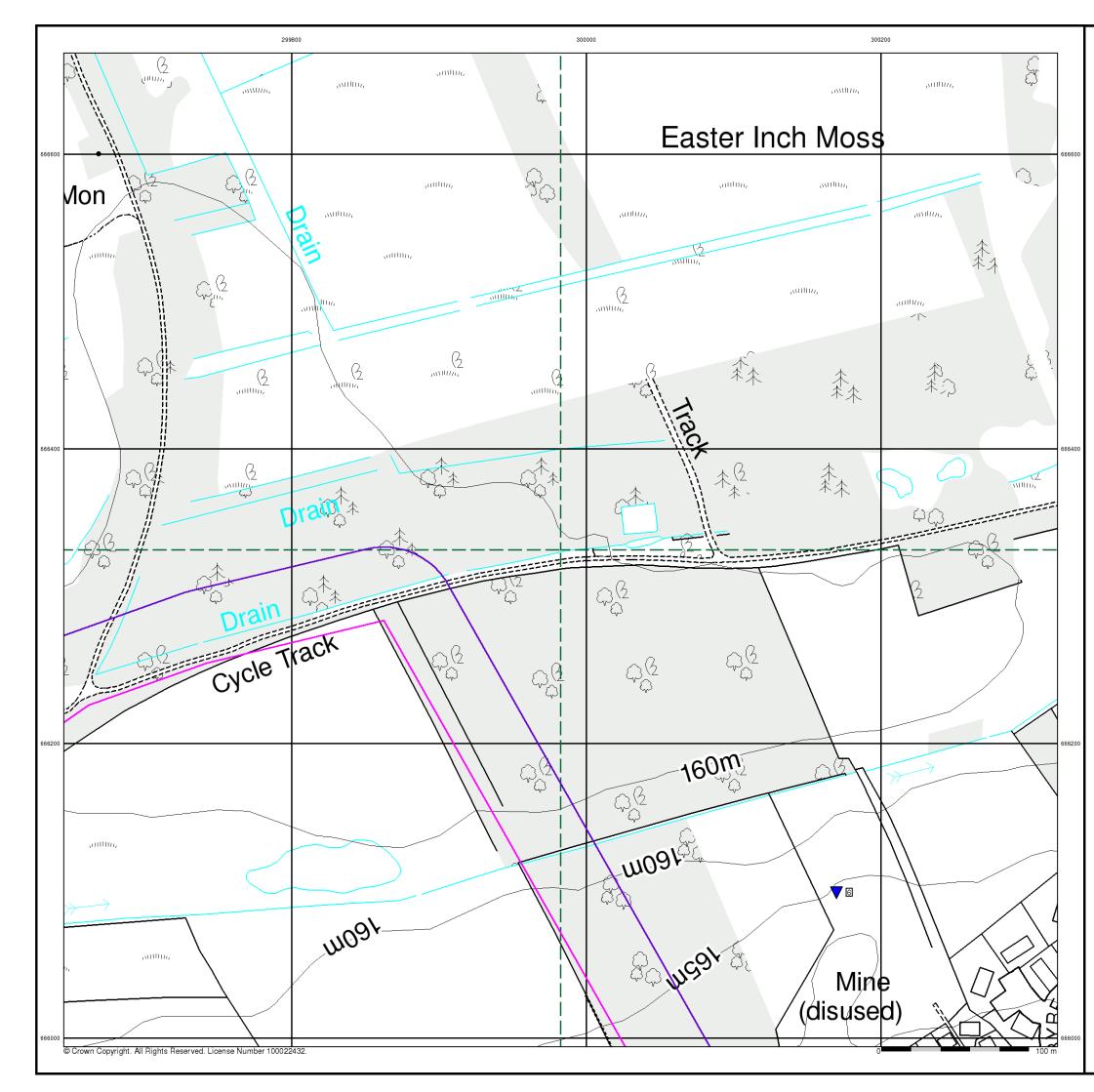
Site Details

Site at, Blackburn Mains, West Lothian



Tel: Fax:

Web



General

General	
🔼 Specified Site 🛛 💍 Specified Buffer(s)	Х
Several of Type at Location	
Agency and Hydrological	W
Contaminated Land Register Entry or Notice	▼
N Contaminated Land Register Entry or Notice	\mathbb{Z}
🔶 Discharge Consent	
L Enforcement or Prohibition Notice	
A Integrated Pollution Control	Ш
Integrated Pollution Prevention Control	
Local Authority Integrated Pollution Prevention and Control	
🛆 Local Authority Pollution Prevention and Contro	1 📃
Control Enforcement	
Pollution Incident to Controlled Waters	
igvee Prosecution Relating to Authorised Processes	Ш
Prosecution Relating to Controlled Waters	\odot
A Registered Radioactive Substance	
🥆 River Network or Water Feature	H
🔷 Substantiated Pollution Incident Register	⊮
🔷 Water Abstraction	*
🔶 Water Industry Act Referral	×
Geological	*
BGS Recorded Mineral Site	*
Industrial Land Use	
🗙 Contemporary Trade Directory Entry	
🚖 Fuel Station Entry	

Bearing Reference Point 🛛 😣 Map ID

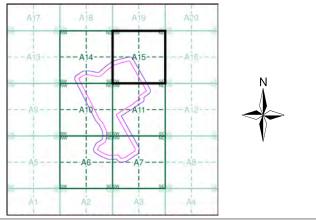
Naste

- BGS Recorded Landfill Site (Location)
- 🔀 BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

lazardous Substances

- 🛿 COMAH Site
- 🕻 Explosive Site
- 🔄 NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha):

38897746_1_1 AD261 Α 53.33

Site Details

Site at, Blackburn Mains, West Lothian



Tel: Fax: Web

Historical Mapping Legends

				r		•			
Ordnance Survey County Series 1:10,560			Ordnance Survey Plan 1:10,000			1:10,000 Raster Mapping			
Grav Pit	vel Sand Pit	Other Pits	 ∽ Chalk Pit, Clay Pit ✓ or Quarry 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	se Gravel Pit		Gravel Pit		Refuse tip or slag heap
C Quar	ry Shingle	Orchard	Sand Pit		 Disused Pit or Quarry 	 	Rock	£ { {	Rock (scattered)
រ ^{ុក រ} ំតំដុំ រុក រត្តតុតុត វត្ត រត្តតុតុត រក្ត រត្តរក្តត រក រក រក	rs	Marsh	Refuse or J Slag Heap		Lake, Loch or Pond		Boulders	00 00	Boulders (scattered)
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	117	Dunes	°°°°	Boulders		Shingle	Mud	Mud
Mixed Wood	And a state of the second		Coniferous	AAC	Non-Coniferous	Sand	Sand		Sand Pit
(~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					********	Slopes		Top of cliff
		·····································			\Y _n v Coppice		General detail		Underground detail
Fir	Furze Rough Pa		Bracken MUU	Heath	Grassland		O∨erhead detail	+++++++++++++++++++++++++++++++++++++++	Narrow gauge railway
	row denotes <u>a</u> Trigonome w of water Station	etrical <u></u>	- Marsh 🗤 V///	Reeds	<u>کئ</u> ے۔ Saltings		Multi-track railway		Single track railway
	te of Antiquities • Bench Mai	rk	Direc	tion of Flow of		_• _•	County boundary (England only)	•••••	Ci∨il, parish or community boundary
• Si	ımp, Guide Post, Well, Sprir gnal Post Boundary urface Level	ng,	Glasshouse		Sand		District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
Sketched	Instrumental, Contour		Sloping Masonry	Pylon — — 🗆 — Pole	 Electricity Transmission Line 	۵ ^۵ **	5	۵۵ ۵۵	Non-coniferous trees
Main Roads	Minor Roads	enced		·-	_	C) C)	Non-coniferous trees (scattered)	** **	
	Un-Fenced Un-	Fenced Cutting	***************	ent 	Multiple Track	ネ ネ	Coniferous trees (scattered)	Ģ	Positioned tree
	is mailtaine	d Road				4 4 4 4	Orchard	K K	Coppice or Osiers
	Railway				or Mineral Line	ុជារីក ការីក	Rough Grassland		Heath
A CONTRACTOR OF	Railway over Level	Crossing	Geographical Co	unty		00_ 00_	Scrub	ג <u>™</u> ר א <u>א</u> ר	Marsh, Salt Marsh or Reeds
	Road over Road River or Canal Stream		Administrative Co or County of City Municipal Boroug	/	-	5	Water feature	← ←	Flow arrows
	Road over Stream		Burgh or District	Council or County Cor	istituency	MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs)
	County Boundary (Geographical)		Civil Parish Shown alternately w	vhen coincidence	of boundaries occurs		Telephone line (where shown)	-••	Electricity transmission line (with poles)
<u>-</u>	County & Civil Parish Boundary Administrative County & Civil Parish Bo	undary BP, BS	Boundary Post or Stone	Pol Sta	Police Station	← BM 123.45 m	Bench mark		Triangulation
	County Borough Boundary (England)	СН	Church Club House	PO PC	Post Office Public Convenience		(where shown) Point feature		station Pylon, flare stack
Co. Boro. Bdy.	County Burgh Boundary (Scotland)	F E Sta FB	Fire Engine Station Foot Bridge Fountaın	PH SB Spr	Public House Signal Box Spring	•	(e.g. Guide Post or Mile Stone)		or lighting tower
Co. Burgh Bdy. yv. RD. Bdy.	Rural District Boundary	Fn GP MP	Fountain Guide Post Mile Post	Spr TCB TCP	Spring Telephone Call Box Telephone Call Post	•	Site of (antiquity)		Glasshouse
к.D. Вау.	Civil Parish Boundary	MS	Mile Stone	W	Well		General Building		Important Building

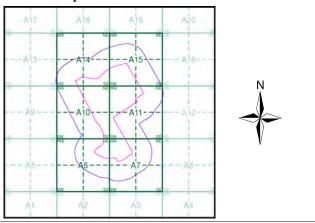
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Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Edinburghshire	1:10,560	1853	2
Linlithgowshire	1:10,560	1856	3
Lanarkshire	1:10,560	1864	4
Edinburghshire	1:10,560	1895	5
Linlithgowshire	1:10,560	1898	6
Edinburghshire	1:10,560	1909	7
Linlithgowshire	1:10,560	1922	8
Linlithgowshire	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1957 - 1958	10
Ordnance Survey Plan	1:10,000	1957	11
Ordnance Survey Plan	1:10,000	1966 - 1967	12
Ordnance Survey Plan	1:10,000	1973	13
Ordnance Survey Plan	1:10,000	1980 - 1986	14
Ordnance Survey Plan	1:10,000	1990 - 1994	15
10K Raster Mapping	1:10,000	2006	16
10K Raster Mapping	1:10,000	2011	17

Historical Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 299670, 665690 Slice: Site Area (Ha): Search Buffer (m):

38897746_1_1 AD261 Α 53.33 250

Site Details

Site at, Blackburn Mains, West Lothian

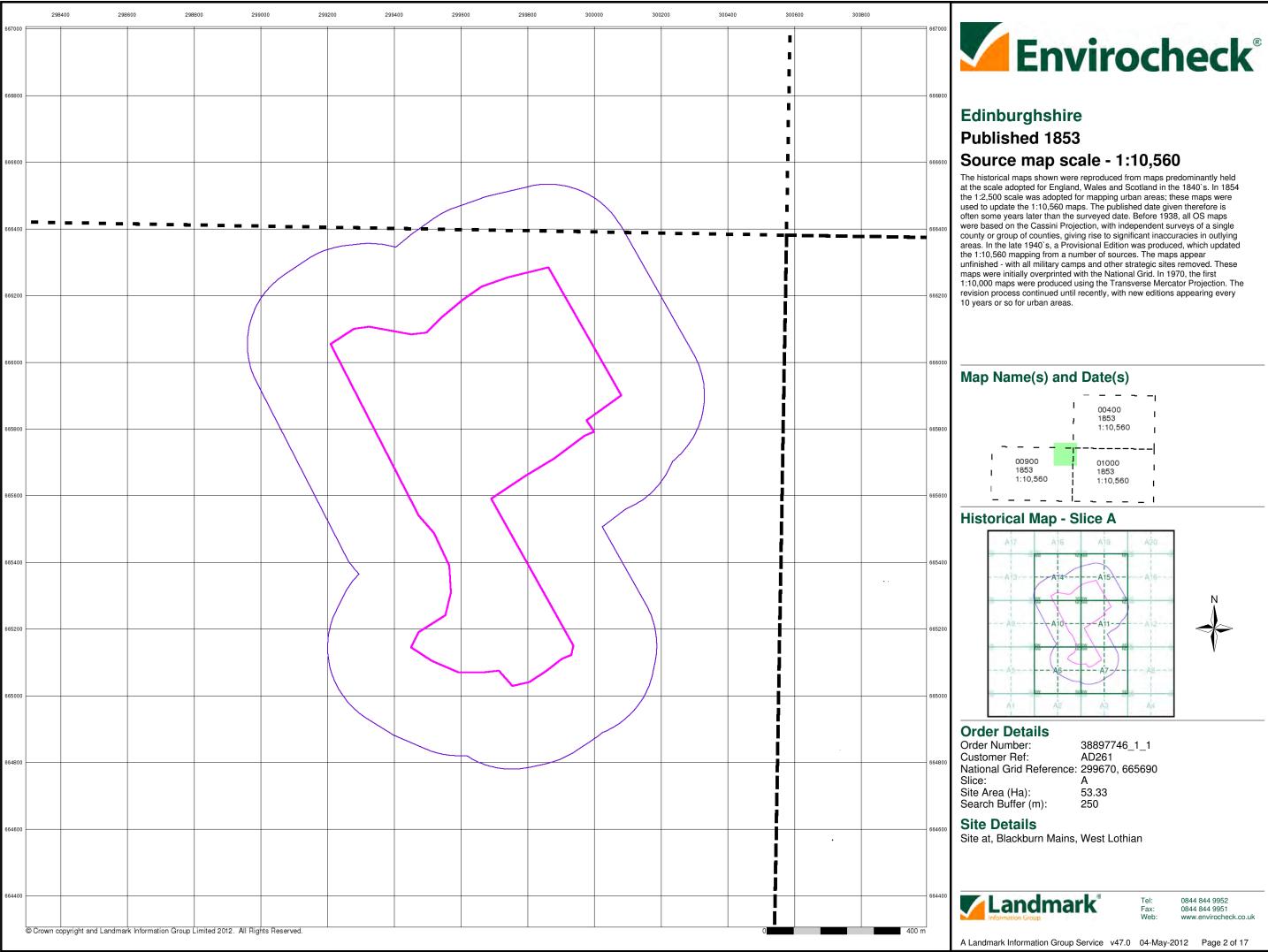


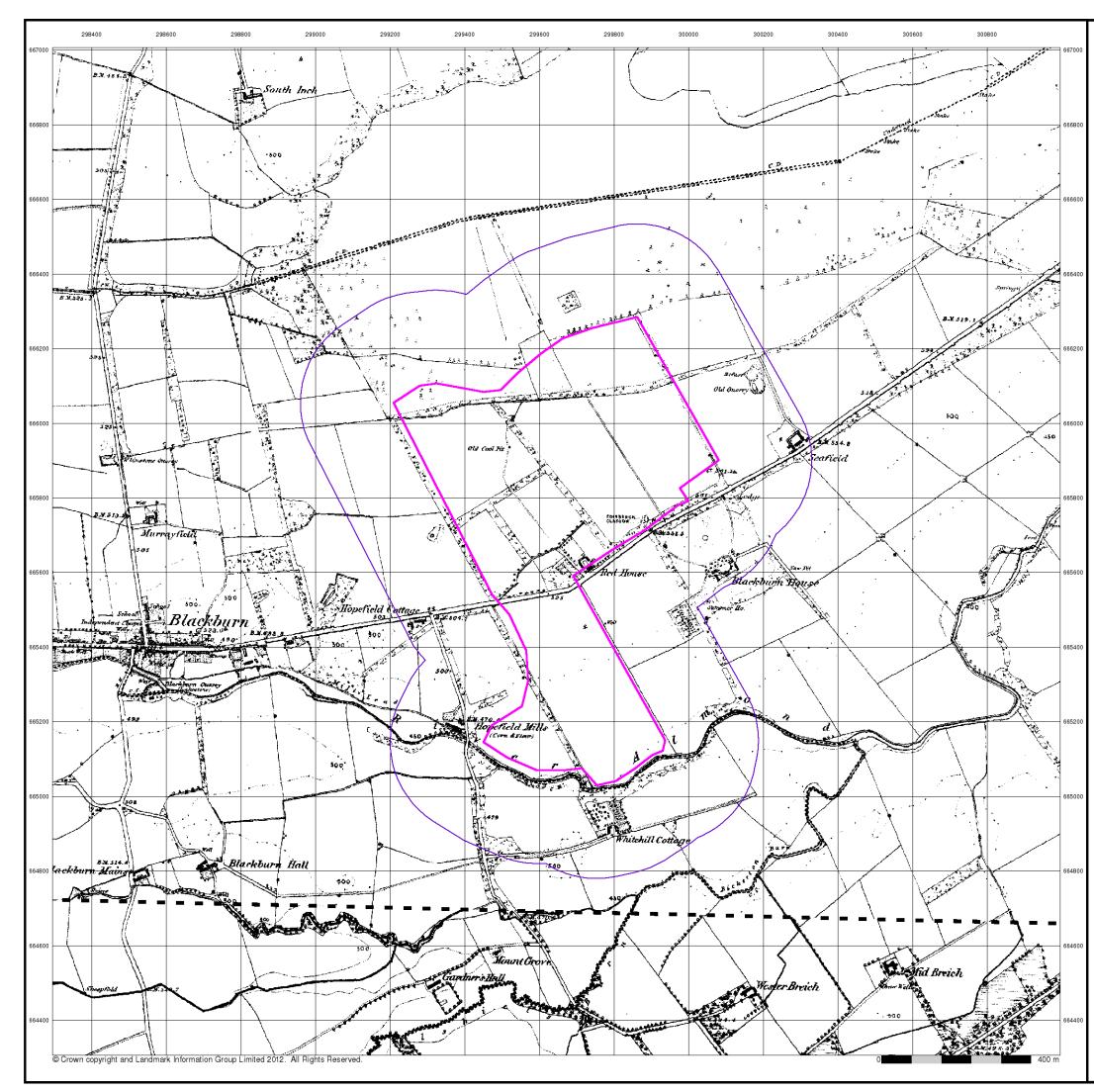
0844 844 9952 0844 844 9951 www.envirocheck.co.uk

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Tel: Fax:

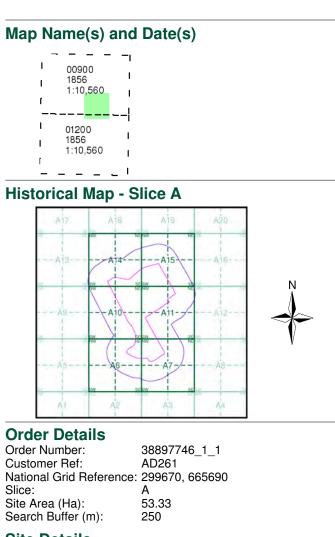
Web:





Linlithgowshire Published 1856 Source map scale - 1:10,560

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



Site Details Site at, Blackburn Mains, West Lothian



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Tel: Fax:

Web: