



Contaminated Land Phase One Desk Study for proposed residential development on land at Bamford Road, Rochdale, OL10 4TF.

Prepared for

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Summary

This report consists of a phase one contaminated land desk study produced in support of planning application for a residential development at Lancashire Dog Training, Bamford Rd Rochdale OL10 4TF.

Following the site walkover and review of the available information it has been concluded that there is no contamination existing on or off site that presents a significant risk of significant harm to the identified receptors and the site is safe and suitable for the intended use.

The report further recommends that a watching brief is maintained throughout the construction of the new dwellings and any signs of potential contamination found are fully investigated, with appropriate remedial action taken as necessary.



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Introduction

Martin Environmental Solutions has been commissioned, to carry out a phase one contaminated land desk study report in relation to a proposed residential development at Lancashire Dog Training, Bamford Rd Rochdale OL10 4TF.

Aims and Objectives of the report

The aims and objectives of this report are as follows:

- Assess the likelihood of contamination affecting the site,
- Identify any likely receptors to be affected by the potential contamination,
- Identify the pathways by which the receptors will be exposed to any potential contamination,
- Identify any areas where further investigation will be required.

Scope of works

This report has been written in line with the 'BS 10175: 2011+A2: 2017 Investigation of potentially contaminated sites – Code of Practice' and Land Contamination Risk Management (LCRM).

The scope of this report covers the phase one desk study only. It will look at relevant information on: -

- the history of the site and surrounding area,
- the current use of the site and surrounding area,
- the geology and hydrogeology of the area,

A site walk-over survey has been undertaken in addition to consultations with the existing site owner, to identify any potential contamination issues.

Evaluation of the above information will be used to construct an initial conceptual model as appropriate, with the identification of any additional investigations that may be required.



The Site:

Site Address: Lancashire Dog Training, Bamford Rd Rochdale OL10 4TF.

Grid reference: 385522; 411155

An aerial photograph of the site is included in Figure 1.

Current Site use:

The site currently consists of a detached single storey building being used as a dog training and daycare centre. Concrete runs are located to the north and south of the site with a small grassed area to the front east and access to the site. Bamford Road runs to the east in the north-south direction beyond which are playing fields. A children's nursery to the north and residential property to the south and west.

Research

Details of Research

This report has been based on information gathered from a number of reputable sources, covering details:

- on the historic and current use of the site,
- any known waste disposal activities in the area,
- any regulated industrial activities within the vicinity of the site including recorded industrial accidents,
- on the geology, hydrogeology, hydrology of the area,
- identification of any environmentally sensitive sites,
- any natural hazards.

Principle sources of this information have been:

- environmental data from Groundsure Limited
- the Local Planning Authority,
- historic maps (Groundsure Ltd),
- site walk-over survey and discussion with the current owners.

Site History

Information on the historic uses of the site has been obtained from historic mapping information (Appendix 2), and environmental data from Groundsure Limited.

Mapping Year	Changes on Site	Changes off Site
1851	The site forms part of a large field.	The area is predominantly agricultural. The nearest property lies 75m to the south at Moss Cottage. Heywood Hall is situated 450m northeast. A gas works is located 500m north adjacent to the River. Heywood lies to the south stretching along the A58. A cotton mill is located 400m southeast and a brickworks 500m southeast. A coal pit is shown at Barley Hall 800m east of the site.
1890-91	No Change	The town has expanded and moved closer to the site. A football field is shown to the north with housing off Starkey Street to the south. A saw mill is shown 110m southeast with two timber yards beyond one south and the other southeast on the far side of Langton Street 124m/174m way. Cotton mills are present 300m to the southeast and 148-350m southwest. Reservoirs are present to the north of the mills the nearest being 148m southwest.
1908-10	No change	More housing in the area to the north, east and south. A school has been built to the southwest before the mill complex. The timber yard to the south is now housing.
1928-30	No Change	Allotments are shown to the northwest on the far side of Bamford Road and behind a new terrace of properties. The timber yard to the southeast is now partially housing and industrial units.

1937-38	The building has been constructed on site.	No significant changes
1956-57	No Change	More housing in the wider area. Allotments are shown to the east 100m away. The timber yard is now a garage, and builders merchants, while the saw mill is housing. The reservoirs to the southwest are no longer present.
1968-69	No Change	No significant changes
1975-79	No change	The army cadet's site has been built to the immediate north with the air training corp. beyond. A community sports centre and playing fields /pitch is shown to the west on the far side of the road
1984-87	No change, the building is identified as St Johns Ambulance.	A club has been built to the north of the air training corp. buildings.
1990-92	No Change	No significant changes, more housing shown.
2001-03	The site has been cleared	The first property on Shanter Close has been built to the southwest.
2010	No Change	The club to the north has been demolished.
2024	No Change	No significant changes
Aerial photos	No changes shown	No significant changes shown.



Regulatory Information

Relevant information obtained from the Groundsure report (Appendix 1) is summarised below.

Two permitted activities have been identified within 500m of the site as defined in the Environmental Permitting (England and Wales) Regulations 2016 or previous legislation. The first is a petrol service station located 165 southwest and the second a historic coating process located 282m north.

11 of which only one had a significant impact and this was on the water environment located 425m north in June 2017. The other incidents had a minor impact on either air or land. The nearest incident was 254m south linked to smoke. The nearest incident affecting land was located 472m southeast in January 2002 and invoked construction waste and asbestos.

Five discharge consents are reported. The nearest being 323m southeast of the site, accounting for three of the sites, then 336m southeast and 442m north. All of the consents are linked to sewer stormwater overflows.

The above identified sites are unlikely to impact on the development site given the age and locations.

No active landfill site records have been found in the area. Two historic landfill site records have been identified the first 384m north at Queens Park last recorded activity was 1976, and the second 411m north at Hooley Bridge. Historic mapping has identified a refuse tip 294m southeast in 1967. In addition, four historic scrap yard records have been identified three at 341m southeast in 1999 and one at 402m north in 1989. Along with a waste transfer station at Hooley Bridge 398m north.

Five waste sites are identified all refer to James Hartley Scrap Yard located 418-423m north.

Ten waste exemptions have been identified. The nearest at Garden Street 386m southwest of the site for the storage of waste in a secure container. Then 418m north at Hooley Bridge Works for the use of waste in construction and the storage of waste. Millhouse 425m north for the use of waste in construction and 4860m west at Cedar Gardens for the use of waste in construction and screening waste and finally 486m north at Hooley Bridge Mill for the storage of waste and preparatory treatment of waste.



Given the distances and nature and age of the both sites it is unlikely that the above sites will pose any risk to the development.

Current potentially contaminative site identified in the area include:

The former Arm Cadets site adjacent to the north and now a nursery

A petrol station 150m southwest at Morrisons, along with a car wash

Vehicle repair centre 194m southeast ay Langton Street

Electricity substations located 217m northeast and 228m south.

These is unlikely to impact on the site.

Historical potentially contaminative land uses have been identified within 250m of the site from the purchased information; most of these have been identified from the historical mapping and include:

Cotton Mill 92

Ground workings to the 28m to the east

Tram sidings 54m northeast in 1892

Railway sidings 61m southwest

Railway buildings 63m southwest,

Cotton mill 83m northwest 1819-1950

Mill 114m nortwest

Tunnel 156m northeast

Brickworks 212m south

Sandstone quarries 209m southwest

Above ground tank is also identified 71m southwest.



Geology and Hydrogeology

Information from the British Geology Survey 1:50,000 mapping identifies the bedrock in the area as Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone, overlaid by Glaciofluvial Deposits, of Devensian - Sand And Gravel.

The information obtained on the hydrogeology of the area identifies the site as having a Secondary A aquifer in both the bedrock capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

20 groundwater abstraction licenses have been identified, most are historic with the nearest being 799m southeast, a borehole at Roeacre Tannery. Of those still active the nearest is 1264m north at James Swallow Ltd, a borehole at Butterworth Fold Farm, and at Oak Brewing Company Ltd Green Lane 1423m southeast.

12 surface water abstraction licenses are identified, all historic with the nearest being 1057m northeast at Roe Acre dyeing & Felting Co Ltd.

The site is not located within a Source Protection Zone.

The Groundwater vulnerability is described as high within all geological layers.

Hydrology

The nearest watercourse runs to the north of the site 438m away.

The site is not within a floodplain, and the risk of flooding is classified as low.

Environmental Sensitivity

The only environmental sensitive sites identified are 11 ancient woodlands, the nearest being 872m northwest of the site and the Merseyside and Greater Manchester Green Belt located 360m north of the site.

The property is in an area identified as having less than 1% of properties above the action level of 200 Becquerel's per cubic metre, based on specific property search. Radon protection measures are not required in line with BR211.

No additional natural hazards have been identified & the site has very low/negligible risk of shrink swell, running sand, and compressible ground.



No coal mining activities have been identified 4in the vicinity of the site but the site is located within a coal mining area as identified by the Coal Authority.



Site Walkover

A site walkover was undertaken on the 18th September 2024 and confirmed much of what had already been identified from the information obtained on the site. The photographs in Appendix 3 provide some indication of the current layout and condition of the site.

The site is accessed from Bamford Road and consists of a single storey prefabricated building with brick foundation as and wooden clad walls. To either side are narrow concreted areas used as dog runs, with small grassed areas to the front on the entrance. Internally the site is wooden panelled.

No signs of contamination, discoloration or olfactory evidence, dead or dying vegetation were seen during the walkover.

The current owners are unaware of any issues on site which could have led to contamination.



Conclusions

Potential Contaminants

Following a review of the information gathered on the history of the site and the surrounding area and following the site walkover, no contamination has been identified on or off site that is likely to pose a significant possibility of significant harm to the identified receptors.

Reservoirs to the southwest disappeared from the historical mapping in 1956. The fact that the sites were reservoirs and held water suggests that the sides were not very porous, however even if material capable of producing ground gas were deposited as part of the infill operation given the 70 years that has elapsed the likelihood of any gas being produced is considered unlikely¹.

Receptors and Pathways

Potential receptors which may be affected by any unknown contamination on site will include:

- Construction workers who are likely to be affected by any potential contamination as they will initially be working in the ground and are likely to be the ones who unearth any potential contaminants.
- Future users of the site, including residents, staff and visitors to the site. For the purpose of evaluating any effects from any contamination found during any intrusive investigation future users/visitors to the site should be regarded as the 0-6-year-old female child.
- Any building on site e.g., foundations which may be affected by any contaminants in the ground or services.
- The underlying groundwater which may be contaminated by migrating pollutants present on the site. There is also the potential for further pollution of the groundwater or the watercourse from disturbing any potential contaminants on site.

1

<https://www.atsdr.cdc.gov/hac/landfill/html/ch2.html#:~:text=Landfills%20usually%20produce%20appreciable%20amounts,for%2050%20or%20more%20years.>



The pathways by which these receptors may be exposed to any unforeseen potential contamination will include:

Construction workers

- Inhalation, of gases or vapours released during ground work or fine particles.
- Ingestion of the contaminants, principally from cross contamination with contaminated soil and inadequate hand washing before smoking and eating.
- Absorption through the skin following contact with contaminated soil.

Future users and visitors

- Inhalations of gas/vapours or fibres, particularly if these are allowed to enter the new structures through the ground and build up in an enclosed area.
- Ingestion of contaminants, through the ingestion of contaminated soil from the garden area via direct contact, e.g., playing in the garden.
- Absorption of contaminants from dermal contact with contaminated soil.

Buildings

Contaminants on site have the potential to affect the foundations to the new building or the services supplying it.

Watercourses

As discussed above, if they exist on site, there is a potential for any contaminants to migrate through the ground into the groundwater and aquifer or via run-off into the watercourse.

Neighbouring sites

If present on site contaminants have the potential to migrate to neighbouring sites through ground water or air blown transfer.



Conceptual Model

The table represents a basic conceptual model. It highlights the potential sources of pollutants identified from the gathered information, and potential pathways in which any contaminants could reach the identified receptors.

Pathway	Description	Identified sources	Receptor at risk	Probability	Consequence	Risk
1	Run off and seepage into groundwater from any spillages	-	Watercourse/ Environment	Low likelihood	Mild	Low
2	Migration of gases into the building.	Infilled / made ground	Future users	Unlikely	Medium	Low
3	Inhalation of gases/ vapours outside	-	Construction workers/future users	Unlikely	Mild	Low
4	Inhalation of fine particles	-	Construction workers/future users	Low likelihood	Mild	Low
5	Direct ingestion of contaminated soil	-	Construction workers	Low likelihood	Mild	Low
6	In-direct ingestion of contaminated soil	-	Future users	Low likelihood	Mild	Low
7	Absorption via direct dermal contact with contaminated soil	-	Construction workers/future users	Low likelihood	Mild	Low



		CONSEQUENCE			
		Severe	Medium	Mild	Minor
PROBABILITY	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very low Risk	Very low Risk

Recommendations

As a result of the investigation into the historical use of the site and surrounding area no sources of contamination have been identified on or off site which present a significant possibility of significant harm to the any of the identified receptors, the site is therefore considered to be suitable for the intended use.

It is further recommended that a watching brief is maintained throughout the construction of the new building and any signs of potential contamination found are fully investigated, with appropriate remedial action taken as necessary and the local planning authority informed of the findings.

Figure 1 – Aerial Photograph





Appendix 1 – Groundsure Data



Appendix 2 – Historical Mapping

Appendix 3 – Site Walkover Photographs

Eastern boundary looking north then south





Southern boundary looking west then east





Northern boundary looking west then east



Inside







Appendix 4 – Conceptual Model Risk Assessment

A Preliminary Risk Assessment is usually undertaken as part of a desk study, outlines potential risks posed by potential contamination to all receptors by defining plausible “pollution linkages” and developing a preliminary conceptual model (PCM).

The purpose of this model is to define all possible complete pollution linkages, where the requisite source – pathway – target elements are present, and these elements being defined as:

- a contaminant (source) is a hazardous substance or agent, present at levels that have the potential to cause harm or damage a receptor
- a pathway is the means by or through which a contaminant comes into contact with, or otherwise affects, the receptor
- a receptor (target) is an entity (human being, aquatic environment, flora and fauna etc) that is vulnerable to the adverse effects of the contaminant

This relationship is termed a “pollution linkage”. It should be recognised that for a health or environmental risk to exist, all three elements of the relationship or linkage must be present, i.e.

- if there is no contaminant, or contaminant present at levels below those considered to be harmful or damaging to a receptor, then there can be no adverse effect on a receptor
- if there is no receptor present that can be adversely affected by a contaminant, no harm or damage can arise
- even where both a contaminant and a receptor are present, no harm or damage will occur if there is no pathway by or through which a linkage between the two can be established

The absence of one or more of each component (source, pathway, receptor) would prevent a pollutant linkage being established and there would be no significant environmental risk.



Consequence of Risk

CLASSIFICATION	DEFINITION	EXAMPLES
Severe	Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs. Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce. Short term risk of pollution of sensitive (H1/H2) water resource. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population. A short term risk to a particular ecosystem, or organism forming part of such ecosystem. Catastrophic damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from site. Highly elevated concentrations of List I and II substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).
Medium	Elevated concentrations which could result in "significant harm" or "significant possibility of significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs. Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Pollution of a highly sensitive (H1/H2) water resource. Significant damage/change to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.
Mild	Exposure to human health unlikely to lead to "significant harm". Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce. Pollution of moderately sensitive (M1/M2) water resources. Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.	Exposure could lead to slight short-term effects (e.g. mild skin rash). Surface spalling of concrete.



	Significant damage to crops, buildings, structures and services ("significant harm" as defined in Circular 1/2006).	
Minor	No measurable effect on humans. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services. Pollution of low sensitive (L1/L2) water resource. Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.



Probability of Risk Occurring

CLASSIFICATION	DEFINITION	EXAMPLES
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.	a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden. b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space. b) Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	a) Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space. b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	a) Elevated concentrations of toxic contaminants are present below hardstanding. b) Light industrial unit <10 yrs old containing a doubleskinned UST with annual integrity testing results available.

Calculation of Risk

		CONSEQUENCE			
		Severe	Medium	Mild	Minor
PROBABILITY	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very low Risk	Very low Risk



Appendix 5 Report limitations and exclusions

Basis of Risk Assessment

The methods used follow a risk-based approach with the potential risk assessed using the 'Source – pathway – receptor pollution linkage concept.

Limitations and Exceptions of this Report

This report was undertaken for at the request of James Campbell Associates and as such should not be entrusted to any third party without written permission of **Martin Environmental Solutions**. No other third parties may rely upon or reproduce the contents of this report without the written permission of **Martin Environmental Solutions**. If any unauthorised third party comes into possession of this report, they rely on it at their own risk and the authors do not owe them any duty of care or skill.

This report has been compiled from a number of sources, within the time constraints of the programme, which **Martin Environmental Solutions** believes to be trustworthy. However, **Martin Environmental Solutions** is unable to guarantee the accuracy of information provided by third parties.

The findings and opinions provided in this document are made in good faith and are based on data provided by third parties (Groundsure, Environment Agency, The Coal Authority, and Regulatory Bodies) and the report should be read in conjunction with the limitations on the document control form. The accuracy of map extracts cannot be guaranteed and it should be recognised that different conditions on /adjacent to the site may have existed between and subsequent to the various map surveys.

This report is prepared and written in the context of the purposes stated above and should not be used in a different context. Furthermore, new information, improved practices and legislation may necessitate an alteration to this report in whole or in part after its submission.

The conclusions and recommendations of this report are based on the development described, for any other development the report may require revision.

All of the comments and opinions contained in this report, including any conclusions, are based on the information obtained by **Martin Environmental Solutions**. The conclusions



drawn by **Martin Environmental Solutions** could therefore differ if the information obtained is found to be misrepresentative, inaccurate, or misleading. **Martin Environmental Solutions** reserves the right to amend their conclusions and recommendations in the light of further information that may become available.

The report should be read in its entirety, including all associated drawings and appendices.

Martin Environmental Solutions cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

This report does not comprise a geotechnical assessment of the strata underlying the site.

Any borehole data from the British Geological Survey sources is included on the following basis: 'The British Geological Survey accept no responsibility for omissions or misinterpretations of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation'.

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Any risks identified in a Phase I Desk Study Report are perceived risks. Actual risks can only be assessed following a physical investigation of the site.

The findings of this report are based on finite information obtained from research and consultations. Martin Environmental Solutions cannot guarantee the reliability of all such information and the searches should not be considered exhaustive. The findings of the report may need to be reviewed as any future exploratory investigations progress and in the event that additional archive information becomes available.

Notwithstanding the findings of this study (and any subsequent investigations), if any indication of contaminated soil (visual or olfactory) is encountered at any stage of the development further investigation may be required.



Arboricultural Survey and advice on arboricultural issues are considered to be outside the scope of this report except for their effect on the foundations to the proposed buildings.

Where identification of any species is made, especially invasive plants such as Japanese Knotweed, Himalayan Balsam or Giant Hogweed, this should only be considered as a preliminary assessment and subject to confirmation by a professional Arboriculturist. Martin Environmental Solutions takes no responsibility for failing to identify, or the incorrect identification of, any tree or plant species on site.

Our investigations exclude surveys to identify the presence or indeed absence of asbestos in buildings/infrastructure on site. If asbestos is suspected to be present, we recommend specialists in the identification and control / disposal of asbestos are appointed prior to commencement of any works on site or, if appropriate, purchase of the site. The presence of asbestos on site may have considerable effects on the cost / timescale in developing the site. There is good guidance in relation to Asbestos available on the Health and Safety Executive (HSE) web site.

Whilst a site walkover has been undertaken as part of this report, the survey does not constitute either an asbestos or structural survey and all areas of the site may not have been visited / inspected.