

GEO-ENVIRONMENTAL AUDIT

PHASE 2 Site Investigation & Risk Assessment

PHASE 3 Remediation Statement

Proposed Residential Development

Former Sladen Mill

Littleborough

Rochdale

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Client: Mere group
Reference: rep-tjba-mere grp-sladen mill-Phs 2+3
Env-250322.docx

Revision	Date	Reason
0	April 2022	Original.
1	June 2022	Format, remediation statement & Phase 2 descriptions edit. Ex soil analysis edits.
2	Oct 2022	Updated with detailed site history, conceptual model & risk assessment, demolition records.
3	Nov 2022	Minor amendments.

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CONTENTS:

1.	Phase 2 - Site Investigation & Risk Assessment	3
1.1.	Introduction.	3
1.2.	Proposed Development.	3
1.3.	Detailed Site History.	4
1.4.	Brownfield Solutions Phase 1 Recommendations.	5
1.5.	TJBA Site Reconnaissance – May 2021.	6
1.6.	Identification of Source-Pathway-Receptor.	7
1.7.	Preliminary Conceptual Model.	9
1.8.	Site Investigations.	11
1.9.	Environmental Site Risk Summary/Conclusions.	13
1.10.	Final Conceptual Model.	14
2.	Phase 3 – Remediation Statement	15
2.1.	Basic Site Details.	15
2.2.	Site & Remedial Objectives	15
2.3.	Conceptual Model (Final) & Relevant Pollution Linkages	15
2.4.	Recommended Remediation:	15
2.5.	Verification (Phase 4 requirements)	16
2.6.	Additional Notes	16
3.	References.	17
4.	Appendix A: Plans, Figures, Assessments & Certification.	18
4.1.	Location Plan.	18
4.2.	Proposed Development.	19
4.3.	Site Investigation Plan.	19
4.4.	Borehole Logs.	20
4.5.	Trial Hole Logs.	21
4.6.	Soil Sampling Analysis.	25
4.7.	Eurofins Chemtest – Soil Testing Certificates.	26
5.	Appendix B: Site Investigation Photos.	35
6.	Appendix C: Historic Maps & Supporting Documentation.	40
6.1.	February 2014, Building Notice, ref: 14/00179/DEM, 'Prior notification of proposed demolition of mill' & supporting documentation.	50
6.2.	2017 Building Notice, ref: DEM/17/0122, 'Demolition of Site Buildings' & supporting documentation.	58

1. PHASE 2 - SITE INVESTIGATION & RISK ASSESSMENT

1.1. Introduction.

T. J. Booth Associates have been appointed by Mere Group to undertake a Phase 2 & 3 Geo-environmental Audit & associated Site investigations to the former Sladen Mill Site, to support a Town & Country Planning permission for a residential end use.

The Site was previously occupied by Alderburgh Ltd, manufacturers of uPVC products for civil engineering applications. Historical records indicate the Site has been used for industrial purposes prior to 1850, with multiple phases of redevelopment being undertaken between then and the present day.

The current pre-development Site comprised predominantly masonry buildings and steel frame/clad warehouses & storage buildings.

Planning approval for the Site was granted in October 2015, Outline planning application, ref: 18/01235/OUT, for the: 'Outline planning permission for residential development (including access) and demolition of the existing buildings on site'.

A Phase I Preliminary Risk Assessment (PRA) was undertaken by Brownfield Solutions Ltd (BSL) in April 2015 to accompany the application (refer to separate report ref: *JMC/C2740/5117*).

The planning application permission notice was granted in June 2018. Condition No.5 on the approval related to land contamination, and is detailed below:

- 5 No development shall take place until an investigation and risk assessment, in addition to any assessment provided with the planning application, has been submitted to and approved in writing by the Local Planning Authority. The assessment shall investigate the nature and extent of any contamination on the site (whether or not it originates on the site). The assessment shall be undertaken by competent persons and a written report of the findings submitted to and approved in writing by the Local Planning Authority before any development takes place. The submitted report shall include:
- i) a survey of the extent, scale and nature of contamination
 - ii) an assessment of the potential risks to:
 - o human health,
 - o property (existing or proposed) including buildings, crops, livestock, pets, woodland, and service lines and pipes,
 - o adjoining land,
 - o groundwaters
 - o water courses to include Greenvale Brook and the canal drain which runs parallel with the eastern boundary of the site
 - o ecological systems,
 - o archaeological sites and ancient monuments;
 - iii) where unacceptable risks are identified, an appraisal of remedial options and proposal of the preferred option(s) to form a remediation strategy for the site. The development shall thereafter be carried out in full accordance with the duly approved remediation strategy and a verification report submitted to and approved in writing by the Local Planning Authority before any of the dwellings hereby approved are first occupied.

Many of the Site buildings were subsequently demolished as part of the planning approval by the previous Site owners.

In June 2021, A reserved matters application, ref: 21/00950/REM was submitted to the LPA. This Phase 2 Report is to be used to accompany the application and address Condition 5 above from the earlier application.

This report provides a desk-based study & intrusive ground investigation based on current UK guidance for environmental investigation within the construction industry. Principal to the assessment is the potential for contamination pollutant linkages via the CLR-11 source-pathway-receptor methodology. Assessment of potential pollution linkages is primarily undertaken in strict accordance with BS5930:2015 BS 10175:2011+A2:2017 CIRIA C665 and BS 8485:2015+A1:2019 et al.

1.2. Proposed Development.

The proposed development has been revised in the reserved matters application to comprise 25No. residential dwellings. Rochdale MBC in particular have specified changes in the layout as well as insisting on the pond to the north side of the development.

The Site is split into upper and lower parts: The upper part is accessed via an existing lane, and will have 8No. terraced dwellings with associated communal parking area and private gardens. The lower section of the Site will have 17No. detached residential dwellings with private parking/drives & garden areas. This part of the Site will be accessed via a new access road.

Refer to Proposed Site Plan in the Appendix.

1.3. Detailed Site History.

For corresponding mapping, information & supporting documentation, refer to Appendix C under 'Historic Maps & Supporting Documentation' which is in the order of this timeline.

1848. Historic records & photographs show that there was a mill on the Site at this time, albeit smaller than ones that were to be built later in the Site history. The mill structures were nominally central to the lower western part of the Site. There were also additional structures to the north-eastern elevated part of the Site which appear to be separate buildings, perhaps residential cottages, or a farmhouse & outbuildings.

1854. The 1850s map shows the 'original' Sladen Mill (noted in the 1948 maps) to have been demolished & replaced by a substantially larger woollen mill. The new mill was typical of 19th century mills of the area, and comprised the main weaving/spinning mill central to the lower western part of the Site, with an associated raised bund mill pond and chimney to the south side of the building. In addition, an office block adjacent to the access road is noted, as well as small holding ponds to the north side of this are shown. The former residential farmhouse to the north of the Site is now demolished and replaced by two blocks of what appear to be residential back to back cottages named Sladen Mill Fold.

1905. The mill retained this layout until it was destroyed by fire c1905. The damage was severe with only the external walls surviving, and all internal floors, machinery, and roofs lost.

c1910. By 1910 maps show a new mill erected on the northwest part of the Site, essentially butted up to the old mill structure. All building structures in the wider area are hatched in this map, with the old mill outlined unhatched suggesting it was left as a ruin. Some filter beds were also built to the north part of the Site, outside of what is now the development boundary. Sladen Mill Fold remains although the southern cottage block appears to have been incorporated into the Sladen Mill complex.

1930. Upper mill ponds on what is the access road are now removed from Site.

1950. Maps from this period show the mill works to be concentrated to the north part of the Site. The former mill building central to the Site is now shown to be demolished, with a dotted road between the former mill building outline and a small 'refuse tip' to the southeast Site corner. It is assumed that the refuse tip is formed from the demolition material from the former mill structure, and map features indicate this material is stockpiled on the ground surface beside the access road for removal.

1985. Site remains as above.

1989. The two mill structures to the north side of the lower Site were retained in this period. However, all former buildings to the lower central and south areas were demolished including the remaining parts former mill and chimney. Two new steel-clad warehouses to the south side of the Site are now shown as well as the current substation building central to the Site, adjacent the watercourse. There is also a new warehouse shown to the northeast elevated part of the Site.

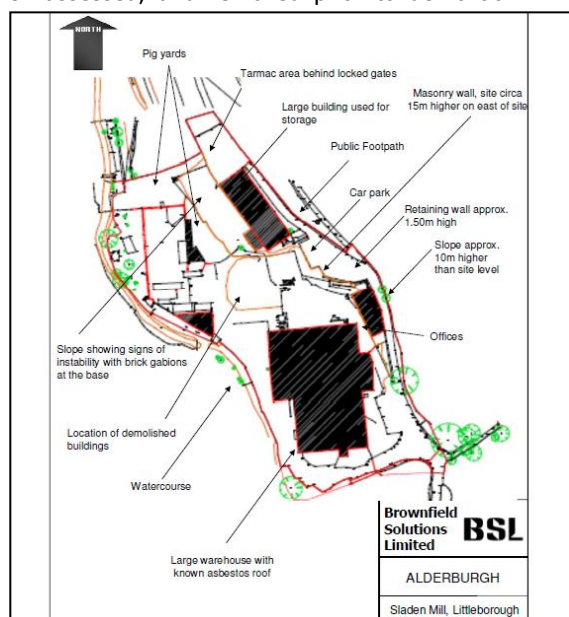
2014. The Site remained as above until 2014 when the former boiler house central to the Site was proposed for demolition under a building notice, ref: 14/00179/DEM, 'Prior notification of proposed demolition of mill'. The former boiler house was known at the time to contain asbestos. Documentation for the demolition is included in the Appendix: Section 80 LABC Building Notice; the C Smith & Sons (Contractor) Method Statement excerpts; and the Dunelm Asbestos Survey Report excerpt. These documents indicate that the asbestos had been surveyed, managed, risk assessed, and removed prior to demolition. The building was subsequently demolished.

2015. An outline planning application for the demolition of all Site buildings, and construction of a residential housing development was submitted in 2015, ref: 18/01235/OUT, for the: 'Outline planning permission for residential development (including access) and demolition of the existing buildings on site'.

As part of the application pack for development, and prior to any further demolition, the Brownfield Solutions Ltd PRA report and associated Site walkover was undertaken. The report detailed the layout and risks to the Site on the BSL Pertinent Site Features & Potential Constraints Plan (see inset image). At the time of the walkover, the site layout and remaining structures were as follows:

The warehouses to the south side included an older asbestos cement wall & roof clad storage shed, with a connected and more recent plastisol clad steel shed. These were the buildings that were erected in the late 1980s.

To the east side was a masonry office block adjacent the access road, which was the original office block built in the 1850s.



To the northeast (on the elevated part of the Site) was a masonry storage warehouse with asbestos cement sheet panel roof (erected late 1980s).

To the centre west side of the Site adjacent the watercourse was a masonry building understood to have been used as a control/utility building for Site electrics etc, and is adjacent to the masonry substation to the south side. It was formerly part of the larger masonry mill building erected to the northwest side of the Site in the aftermath of the 1905 fire. At the time of the BSL PRA, the majority of this structure had previously had its roof removed and part of the walls to the southeast corner. The remaining walls and ground slab were left intact, essentially turning it into a walled storage yard.

In addition to the above, the Site access roads, yards and loading bay remained. No 'natural' ground surfaces remained on-site.

2017. The remaining Site buildings except for the substation & utility part of the former mill to the north side were proposed for demolition under a building notice, ref: DEM/17/0122, 'Demolition of Existing Buildings'. The buildings were numbered as per the inset image.

Documentation for the demolition is included in the Appendix: Section 80 LABC Building Notice; the C Smith & Sons (Contractor) Method Statement & risk assessment excerpts; as well as the EA hazardous consignment note. An asbestos survey was carried out and referred to in the documentation (ref: S.J.01410).

Building 1 was noted to have an asbestos cement roof, and building 2 to comprise cladded asbestos cement sheet walls & roof. Building 3 was also noted to contain asbestos cement sheeting. Documentation indicates that asbestos had been surveyed, managed, risk assessed, and removed prior to demolition. Buildings 1, 2, 3 & 4 were subsequently demolished. All materials were separated for recycling and salvage where possible.

Remaining demolition material was crushed on-site and stockpiled close to the Site entrance to the south corner of the Site for later removal (supported by photographic evidence in the Appendix C).

2021. The Site was subsequently sold for development to the current owner. The stockpiled demolition crush had been previously removed from Site. A reserved matters application, ref: 21/00950/REM, was submitted to the LPA.



1.4. Brownfield Solutions Phase 1 Recommendations.

The BSL conceptual model identified the following potential pollutant linkages with regards to general ground contamination:

Potential Source	Potential Pathway	Potential Receptor	Likelihood	Severity	Level of Risk
ON-SITE					
Mill chimney including	Ingestion, direct contact, inhalation of dusts.	End-users	Likely	Medium to Severe	High
Made ground	Ingestion, direct contact, inhalation of dusts.	End-users	Likely	Medium to Severe	High
Made ground from landfill and filter tanks Ground Gas	Migration of gas into confined spaces.	End-users	Likely	Severe	High
Filter tanks	Ingestion, direct contact, inhalation of vapours	End Users	Likely	Medium	Moderate/High
Tanks	Ingestion, direct contact, inhalation of dusts/vapours	End-users	Likely	Medium	Moderate
Substation	Ingestion, direct contact, inhalation of dusts/vapours	End-users	Unlikely	Mild	Very Low

The Brownfield Solutions conceptual model identified the following potential pollutant linkages with regards to controlled waters:

Mill chimney	including Leaching, migration through groundwater or granular soils	Controlled waters	Likely	Severe	High
Made ground	Leaching, migration through groundwater or granular soils	Controlled waters	Likely	Severe	High
Tanks	Leaching, migration through groundwater or granular soils	Controlled waters	Likely	Medium	Moderate
Substation	Leaching, migration through groundwater or granular soils	Controlled waters	Unlikely	Mild	Very Low

The current Site owner and T J Booth Associates only became involved with the Site in 2021, when most of the buildings included in the PRA had been demolished & many of the associated risks were from historic structures (such as the tanks/chimney/old mills) which no longer exist. Due to this, many of the contaminant sources in the conceptual model will either have been removed from Site, or may lie as residual risk in the existing Site made ground.

Note: it is pertinent to note that the current demolition processes were undertaken removing all demolition material & rubble from Site. The made ground that exists on the Site is from historic phases of infilling, demolition & rebuilding.

1.5. TJBA Site Reconnaissance – May 2021.

Details of Existing Structures:	Upper part of Site (northeast corner): The concrete ground slabs to the former buildings were still in place and comprised almost the entire footprint of this area. The only places that weren't covered in former building slabs were the macadam access roads & former yards. A retaining wall supported this part of the Site and access road from the lower Site, and was made up of a mix of concrete & masonry walls, gabions, and rough steep inclined earth banks. Lower part of the Site (northwest & south): At the time of Site reconnaissance, all buildings apart from the electricity substation, and associated former mill utility building to the north side had been demolished. All slabs and other structures had been removed, apart from the former mill walls which act as retaining walls to the adjacent lane (east side). The macadam access road around the south and west of the Site boundary, immediately adjacent the neighbouring watercourse remained.
Adjacent Properties:	The Site is in a steep sided river valley. The only buildings in the local area are either farmhouses or storage buildings. Stockpiles of granular material (assumed to be from the Site demolition) were temporarily stored just off-site and comprised separate stockpile of brick, stone & demolition crush for removal.
Water Levels, Directions of Flow and Rates in Rivers:	An unnamed river flows north past the Site.
Areas of Discoloured Soil, Polluted Water, Vegetation, and Significant Odours:	All structures and surfaces except those noted above, had been demolished and removed back to the existing made ground. This had been locally reprofiled local to where retaining walls/warehouse walls separating areas of differing ground elevation had been removed.

1.6. Identification of Source-Pathway-Receptor.

1.6.1. Summary & Discussion.

Risks in the PRA were built around sources in the former & historic Site buildings/structures/storage tanks, many of which have been removed from Site.

With regard to the recent demolition processes, many of the inert materials have been recycled such as usable brick, stone, slate, steel & timbers etc. Specific sources of hazardous materials such as asbestos etc, were removed prior to demolition. Remaining building materials that are not classified as hazardous, but that may have low level contaminants including plasters/mortars/hardstanding planings/ash, as well as other materials that couldn't be reclaimed directly such as broken brick/stone, concrete, glass & slate; were all crushed into usable materials and transported off Site.

The BSL PRA report considered specific historic parts of the Site and the associated risk into a conceptual model. However, since T J Booth Associates have undertaken a detailed history of the Site, some of these risks are considered to have been removed, mitigated, or contained now within other present 'sources' such as the existing & historic made ground profile. The discussion of the BSL conceptual model sources is indicated below:

Chimney & Mill – The chimney to the mill was demolished c1985 when the south side of the Site was redeveloped. Any contaminative material, (most likely PAH & metals from demolition material and ash), will now only be found as residual elements in the existing made ground. Much of the historic mill structure demolished before this date, could have been used to raise levels historically, and if so, are likely to contribute low level contamination to on-site made ground. Asbestos materials from the 1980s built mill buildings prior to demolition was removed from Site. However, there may be some residual dust from all activities in the upper made ground.

Made ground – There is a risk from existing Site made ground and this should be assessed.

External landfill Sites - There are 3 landfill Sites noted within the Brownfield Solutions data search: Sladen Bridge 115m west, inert fill; Greenvale 185m northwest, inert fill; and Wellfield Mill 325m northeast, inert & industrial fill. Of the two Sites that are within 250m of the development, Sladen & Greenvale are at much higher level than the Application Site and therefore the pathway does not exist.

Made ground from refuse & filter tanks – The original report indicates a 'landfill' on-site. However, historic records indicate the 'refuse tip' between the 1950s & 1980s mapping was in fact the demolition material from the former 1850s woollen mill, which was demolished and stored near the Site entrance above the existing ground profile as evidenced by map contours/features. Not only would this material have been inert, but the stockpiled position above the ground surface mitigates the risk.

Filter tanks – The tanks were specified in the BSL PRA as being on-site but are actually off-site, out of the planning & ownership boundary, and beyond the reach of direct remediation. The tanks were relatively small and are likely to comprise ash or similar material as a filter medium. Where ash does contain contaminants of concern, ash itself is relatively stable and contaminants generally immobile. The filter tanks have not been used for c40 years.

Tanks – Tanks were noted on historic plans nominally to the centre northwest. The fact that the tanks were noted on maps suggests these were above ground features which were historically removed from Site prior to 1930. No other tanks are noted on Site after this date, and none were noted in the BSL PRA Site walkover. Any residual risk from former tanks will only be found in the made ground profile.

Substation – The Site substation was built in the late 1980s and is unlikely to contain hazardous PCBs etc, banned prior to construction.

Due to the above reasoning, the existing on-site historic made ground will have to be assessed in accordance with the risks identified, and with the associated contaminants of concern.

1.6.2. Potential Contaminants.

CURRENT SOURCE/S	ORIGINAL ASSOCIATED SOURCE	CONTAMINANT/S
Existing historic made ground – exists across the Site from multiple phases of historic demolition & construction.	Mill & chimney demolition materials, mortars & plasters, cladding, heat resistant fixings/fittings/insulation, other material such as hardcore & planings etc.	Metals, PAHs, sulphates, asbestos.
	Landfill (refuse heap) & filter tanks.	Metals, PAHs, CH ₄ , CO ₂ .

	Former tanks – most notably to the north of the current substation from old maps.	Hydrocarbons.
	Substation.	PCBs.
	Former reservoirs – potential for infill.	Metals, PAHs, CH ₄ , CO ₂ .
Site geology.	Existing Namurian formations.	Radon (Rn)
	Coal seams	CH ₄ , CO ₂ .

1.6.3. Potential Pathways.

The potential pathways to/from the Development Site include (not an exhaustive list but a summary of the main points):

PATHWAY	MEDIA
Soil and dust ingestion	Soil and indoor dust
Consumption of home-grown fruit and vegetables	Produce
Skin contact (indoors)	Indoor dust
Skin contact (outdoors)	Soil
Inhalation of dust (indoors)	Air
Inhalation of dust (outdoors)	Air
Vapours (indoors)	Air
Vapours (outdoors)	Air

1.6.4. Potential Receptors.

Receptors mainly comprise workers in the construction phase, and workforce for the proposed end use.

Controlled waters, river, groundwater.

1.7. Preliminary Conceptual Model.

CURRENT SOURCE/S	ORIGINAL ASSOCIATED USAGE / LOCATION	CONTAMINANT TYPE	PATHWAY	RECEPTOR	POLLUTION LINKAGE	CONSEQUENCE	PROBABILITY	RISK
CHEMICAL (SOLID)	Existing made ground - surface/sub-soil.	Mill & chimney demolition materials, mortars & plasters, cladding, heat resistant fixings/fittings/insulation, other material such as hardcore & planings etc.	Direct ingestion, aerial ingestion, dermal contact, drinking water.	Site construction operatives & future occupants. Site buildings.	Multiple phases of historical demolition, fires, and placement of historical made ground, as well as potential for degradation of asbestos cladding sheet etc while in situ externally, could now be in place in the upper made ground profile.	Medium.	High likelihood.	High risk.
	Former tanks – most notably to the north of the current substation from old maps.	Hydrocarbons.			Historical records noted tanks, which due to noting on maps must have been above ground. No records since in records or the Site walkover. However, any historical spills may be evident in the Site made ground in localised areas.	Medium.	High likelihood.	High risk.
	Former mill ponds – potential for infill.	Metals, PAHs, sulphates, asbestos.			Photographic evidence suggests the mill ponds were primarily above ground storage structures & small in area. However, concerning dry chemical contamination, the areas most likely comprise the same contamination as the rest of the Site.	Medium.	High likelihood.	High risk.
	Refuse heap.	Metals, PAHs, sulphates, asbestos.			Refuse heap identified as comprising the demolition rubble from the former 1850s woollen mill. Although inert from a gas risk view, likely to comprise chemical contamination & potential to have been spread over the Site/parts of it.	Medium.	High likelihood.	High risk.
GROUND GAS RISK (VAPOURS)	Geological ground gas.	Coal seams from Coal Measures.	Diffusion through soil, substructure s, aerial inhalation.	Future occupants. Explosion, suffocation.	Potential coal seams beneath the Site, according to BGS maps. A separate coal mining risk assessment has concluded the seam doesn't exist beneath the Site & therefore risks are mitigated, which was approved by the Coal Authority.	Medium.	Unlikely.	Low risk.
		Radon sources in Namurian deposits.			The Site is within a Class 2 radon area. No protective measures are required.	Medium.	Unlikely.	Low risk.
	Anthropogenic ground gas sources.	Refuse heap.			Refuse heap identified as comprising the demolition rubble from the former 1850s woollen mill. Waste stockpiled, inert, & stored above ground mitigating any risks.	Mild.	Unlikely.	Very low risk.
		Filter tanks			Filter tanks are off-site, small in area, and open structures which generally comprise ash as a filter medium. The tanks have been disused for approximately 40years due to a pump house being incorporated into the Site.	Mild.	Unlikely.	Very low risk.

		Former mill ponds.				Unlikely to contribute to ground gas generation. Mill ponds were small, and photographic evidence indicates these structures were bunded/above ground.	Mild.	Unlikely.	Very low risk.
CHEMICAL (LIQUID)	Existing made ground - surface/sub-soil.	Former tanks – most notably to the north of the current substation from old maps.	Hydrocarbons.	Permeation through soil into ground water, local watercourse s, or aquatic habitats.	Contaminated ground / surface water. Controlled Waters such as watercourses, canal, aquatic habitats & associated wildlife.	There is a risk that spills could have occurred from historic tanks, and the type of contaminants stored are mobile in the ground & aquatic environment.	Mild.	Likely.	Moderate to low risk.
		Mill & chimney demolition materials, mortars & plasters, other material such as hardcore & planings etc.	Metals, PAHs.			Unlikely to pose a significant. Metal & PAH contamination is expected to be minor, and these contaminants of concern are not as mobile as others.	Mild.	Low likelihood.	Low risk.

1.8. Site Investigations.

1.8.1. Summary.

All TJBA Soil analysis will use the LQM/CIEH S4ULs, and the DEFRA C4ULs. The LQM/CIEH S4UL data is the most current and comprehensive list of contaminant exposure level based on proposed end use, however, contaminant levels within S4ULs are considered 'low risk' and exceedance of S4ULs may warrant further analysis to ensure suitability for the specified end use.

The C4SL data relates to updated DEFRA Statutory Guidance under Part 2A of the Environmental Protection Act 1990 (Part 2A). The guidance introduces a 4 category system in which Category 4 is of the least concern and levels falling within this risk category are considered as 'acceptably low'.

As the S4ULs are considered more conservative than C4SLs, any contaminant levels exceeding a S4UL although not considered 'low risk' can still be considered 'acceptably low' for use within the planning regime as long as it is still within the C4SL risk category. Thus, soil sampling results are firstly held to C4SLs where available and then to S4ULs thereafter to define suitability with respect to specified proposed end uses within the planning regime.

1.8.2. Site Investigations (Coal Borehole) 03.06.2021.

Site investigations were undertaken on the 03.06.2021 to identify the stratigraphy of the underlying coal measures & confirm the absence of coal seams. The investigation comprised a single borehole (BH1), and was located in the central area of the Site to the E side of a fault line passing NNW – SSE through the area.

Due to the predicted absence of coal seams/workings and the remote location, the use of air flushed open hole drilling was selected for speed and economy.

The surface arisings and drill progress rate were used to establish the rock type and hardness. The driller and boreholes logs are given in the Appendix.

The borehole identified no coal measures beneath the Site, and the results have been included in a separate Coal Mining Risk Assessment and passed by the Coal Authority.

No risk to the Site is understood to remain due to coal mining legacy.

1.8.3. Site Investigations (Trial Holes) 23.03.2022.

Site Investigations were undertaken by T J Booth Associates on the 23.03.2022. The investigations comprised 10No. machine excavated trial holes (THs 1-10), undertaken with a 13t back acting excavator.

Trial holes were located around the Site to gain an understanding of the geology for foundation design, and also located around particular features noted in historic data searches such as former tanks, mill ponds, and refuse heaps.

Regarding these features in particular; TH1 was located in the old refuse heap, TH3 in the location of the historic mill pond, and trial holes TH6, TH7 & TH8 in and around the location which the former tanks were situated.

LOWER SITE: Site investigations have shown that the lower part of the site is underlain by approximately 1-2.5m of made ground to the south side, generally directly on top of weathered bedrock. This increases to approximately 3m depth in the north section. Below the made ground in the north section is approximately 1m of coarse river gravel deposits on top of weathered bedrock. The investigations have also delineated the bedrock types, generally comprising an orange/brown sandstone lithology to the east, becoming overlain by dark grey/black shale/mudstone closer to the river on the west side.

UPPER SITE: The upper level of the Site was generally underlain by approximately 1m of made ground, a thin band of silt to approximately 1.4m, and sand & gravels to 2.5m with weathered bedrock below.

Made ground across the Site comprises a historic fill made up of coarse brick/stone/concrete fill in a finer clayey/silty and occasionally sand & gravel matrix. It is assumed this fill was either historically imported to Site to build up levels, or used to infill as successive phases of the mill & associated buildings were demolished throughout its evolution.

At the location of the historic reservoir, trial hole TH3 revealed no exceptional fill type or depth varying from the general Site make-up. Exceptions to the general site-wide made ground were:

- TH1 (around the old refuse tip) where the made ground was made up predominantly of gravel & sand sized brick, stone, glass & ash.
- TH4 around the location of the historic part of the mill where depths in excess of 4m of brick & stone rubble fill was noted without reaching bedrock noted everywhere else across the Site. The depth is assumed to be due to basements

within the historic mill dating back to & built in the 1850s.

- TH7 to the north corner of the Site (lower section) noted hydrocarbon contamination at depth which appeared to be local only. No contamination was noted in either TH6 or TH8, both close by. The location is of TH7 was local to the former tanks.

10No. soil samples (S1-10) were also taken in the made ground horizons to assess the potential ground contamination both in specific location identified above, and also to get general background contamination levels across the Site.

Refer to table below illustrating a summary of the trial hole findings, associated stratigraphic, and sample depths, (note: the depths shown do not consider variation in ground level at each trial hole, refer to site investigation logs in the appendix for full consideration of levels & descriptions of soils):

DEPTH	TH1	TH2	TH3	TH4	TH5	TH6	TH7	TH8	TH9	TH10
0.0m										
0.5m	S1 upper 0.5m Very gravelly clay MADE GROUND		S3 upper 0.5m Slightly sandy very gravelly clay MADE GROUND	S4 upper 0.5m Slightly sandy very gravelly clay MADE GROUND	S5 upper 0.5m Gravelly sand MADE GROUND	S6 upper 0.5m Very gravelly clay MADE GROUND	S7 upper 0.5m Sandy gravelly clay MADE GROUND		S9 upper 0.5m slightly silty, slightly gravelly sand MADE GROUND	S10 upper 0.5m Slightly gravelly sand MADE GROUND
1.0m					Loose to med dense SAND & GRAVEL					
1.5m		S2 1.2m							Very fine sandy SILT	Very fine sandy SILT
2.0m									Med dense coarse SAND & GRAVEL	Med dense coarse SAND & GRAVEL
2.5m	Sandstn B'ROCK	Shale B'ROCK			Sandstn B'ROCK	Soft/firm slightly sandy CLAY	S8 2.5m			
3.0m			Shale B'ROCK	Very loose & coarse cobble sized brick/stone MADE GROUND					Sandstn B'ROCK	Sandstn B'ROCK
3.5m						Shale B'ROCK		Loose to med dense coarse GRAVEL		
4.0m										
4.5m								Sandstn B'ROCK		

Soil samples were sealed in 1kg white plastic snap top containers & amber jars & vials and sent to Eurofins Chemtest Ltd to be tested for a range of common contaminants.

Samples were tested for metals, speciated PAH, inorganics & sulphates, SOM, & asbestos screening in accordance with the conceptual model. Further hydrocarbon TPH(CWG) & BTEX testing was undertaken in TH7 around the local of the former tanks, and in locations where hydrocarbons were suspected.

On return the samples were assessed by TJ Booth Associates to common threshold comparison data, specifically the Defra Category 4 Screening Levels (C4SLs), then to LQM/CIH (S4ULs).

Testing of made ground revealed contaminant levels above residential threshold values with elevated levels of the following contaminants of concern, (refer to testing certificates, and full analysis spreadsheets in the Appendix):

Trial Hole/Soil Sample	Upper 0.5m	1.2m	2.5m
TH1/S1	arsenic	n/a	n/a
TH2/S2	n/a	no trigger	n/a
TH3/S3	dibenz[ah]anthracene	n/a	n/a
TH4/S4	benzo[a]pyrene, benzo[b]fluoranthene, dibenz[ah]anthracene	n/a	n/a
TH5/S5	lead	n/a	n/a
TH6/S6	lead, dibenz[ah]anthracene	n/a	n/a
TH7/S7 & S8	benzo[a]pyrene, benzo[b]fluoranthene, dibenz[ah]anthracene	n/a	aromatic EC 16-21 aromatic EC 21-35
TH8	n/a	n/a	n/a
TH9/S9	chrysotile fibres/clumps, dibenz[ah]anthracene	n/a	n/a
TH10/S10	dibenz[ah]anthracene	n/a	n/a

1.9. Environmental Site Risk Summary/Conclusions.

Following on from Site investigations, the made ground profile, superficial & bedrock depths have been identified. Generally, the Site is covered with between 1-3m of historic made ground generally comprising inert fill made up of a clayey/silty (occasionally sand & gravel) matrix with coarse brick/stone inclusions generally, and to a lesser extent, glass, slate, ash & concrete.

General made ground across the Site has proven to be mildly contaminated with metals & PAHs, and asbestos which could be a risk to human health. In the location of TH7 at the far northwest corner of the Site, there is also some localised hydrocarbon contamination nominally 2.7m deep which could be a risk to controlled waters. No such material was noted in both trial holes closest (TH6 & TH8), so the contamination is considered to be localised, and most likely associated with former tanks noted on historic maps in this area

Considering the above, the main risks are:

- Human health - General contamination across the Site above threshold levels for residential end uses.
- Controlled waters - Potential for hydrocarbon contamination and mobility.

The trial holes/borehole have identified and pinpointed the change in stratigraphic succession over the Site, with the Site underlain by sandstone geology primarily, with mudstones starting to overly sandstone in the east – dipping east. There are no coal seams beneath the Site, and the local area is within a class 2 radon protection area. No protective measures are required due to coal seams or radon.

There are local historic landfill sites: Sladen Bridge 115m west; Greenvale 185m northwest; and Wellfield Mill 325m northeast; but these are all filled with inert waste and generally at higher level than the Application Site – so little risk of ground gas is attributed to these sources & any pathways are considered mitigated.

There were some potentially infilled areas within the Site noted in the Phase 1 PRA, but Site investigations have revealed that these areas are filled with inert materials:

- The refuse area to the southeast corner of the Site is relatively thin (approx 2m) & comprises ash, brick, stone & glass fill. Historic maps show the refuse tip built up above the ground profile which has been predominantly removed leaving the depth found. The investigations appear to corroborate the assumption that the made ground in this location was formed from tipping of boiler ash & demolition of the remaining parts of the historic mill building destroyed by fire.
- The former reservoir central to the Site was of raised bund design, above the general level of the Site ground level at that time (retaining head for hydraulic power & washing). This is evident on historic maps, historic photographs; and is again corroborated by the trial hole investigations which found the same depth & type of made ground in this area to the rest of the Site.
- There was a deeper section of fill associated with the historic mill basement, but the type of fill was inert coarse building rubble - generally brick & stone.

No putrescible material was found in the above areas, and there is little risk of ground gas from these areas/sources.

1.10. Final Conceptual Model.

CURRENT SOURCE/S	ORIGINAL ASSOCIATED USAGE / LOCATION	CONTAMINANT TYPE	PATHWAY	RECEPTOR	POLLUTION LINKAGE	CONSEQUENCE	PROBABILITY	RISK	MITIGATION
CHEMICAL (SOLID)	Existing made ground - surface/sub-soil.	Mill & chimney demolition materials, mortars & plasters, cladding, heat resistant fixings/fittings/insulation, other material such as hardcore & planings etc.	Direct ingestion, aerial ingestion, dermal contact, drinking water.	Site construction operatives & future occupants. Site buildings.	Metals, PAH, asbestos have been identified in the made ground profile at shallow depth which can pose a risk to human receptors in a residential end use.	Medium.	High likelihood.	High risk.	REQUIRES REMEDIATION
		Former tanks – most notably to the north of the current substation from old maps.			Hydrocarbon contamination is nominally 2.7m below Site ground level and at this depth doesn't pose a significant or chronic risk to Site receptors.	Medium.	Unlikely.	Low risk.	NO ACTION
		Former mill ponds – potential for infill.			Some minor PAH contaminants have been identified in the made ground profile at shallow depth which can pose a risk to human receptors in a residential end use.	Medium.	High likelihood.	High risk.	REQUIRES REMEDIATION
		Refuse heap.			Some minor metal contaminants have been identified in the made ground profile at shallow depth which can pose a risk to human receptors in a residential end use.	Medium.	High likelihood.	High risk.	REQUIRES REMEDIATION
CHEMICAL (LIQUID)	Existing made ground - surface/sub-soil.	Former tanks – most notably to the north of the current substation from old maps.	Permeation through soil into ground water, local watercourses, or aquatic habitats.	Contaminated ground / surface water. Controlled Waters such as watercourses, canal, aquatic habitats & associated wildlife.	Hydrocarbon contamination has been confirmed nominally 2.7m below Site ground level. This could pose a risk to controlled waters and should be remediated.	Mild.	Likely.	Moderate to low risk.	REQUIRES REMEDIATION

2. PHASE 3 – REMEDIATION STATEMENT

2.1. Basic Site Details

Full details included in the Phase 2 Site Investigation Introduction & subsequent sections.

2.2. Site & Remedial Objectives

Site investigations undertaken as part of the Phase 2, comprised trial holes, borehole & soil sampling methods, with historic made ground recorded over the Site to a max depth of between 1500-3200mm.

There are currently two remedial objectives for the Site:

- General soil remediation.

Soils should be free from elevated contaminants above residential threshold levels to ensure the safety of the end user.

- Removal of hydrocarbon contaminated soil around TH7.

Needs to be undertaken to ensure controlled waters are not negatively impacted.

There was no ground gas risk noted to the development.

2.3. Conceptual Model (Final) & Relevant Pollution Linkages

Refer to Phase 2 Site Investigation and Assessment section of the report for Final Conceptual Model.

A pollutant linkage was identified regarding the minor contamination of upper Site soil with metals, PAH & asbestos noted.

To break the pollution linkage, either the source must be removed or the pathways mitigated. It is not appropriate in this case to modify behaviour of or remove receptors.

A pollutant linkage was also identified regarding minor contamination of soil with heavier fraction aromatic hydrocarbons, EC Nos. 16-21 & EC 21-35. The source should be excavated and removed from the ground profile to mitigate the risk to controlled waters.

2.4. Recommended Remediation:

General Made ground:

While made ground may remain on site beneath permanent hardstandings such as buildings, roads, pavements & pathways etc; to mitigate the risk to receptors, it is advised that a cover layer of clean inert soil is imported for garden and soft landscaping areas ONLY.

Dependent on the final finished levels, existing made ground within proposed soft landscaping areas, should either be covered with 600mm of imported soil, or excavated to 600mm from finish levels (or to clean virgin material if shallower than this) and replaced with imported soil to suit finishes. The 600mm cover system is adopted for the following reasons:

Root systems for shrubs are typically up to 600 mm;

Excavations are unlikely to be deeper than 600 mm in typical gardening activities;

Bio-turbation is typically limited to the top 600 mm of the soil profile;

Excavations by children or pets are unlikely to exceed 600 mm.

The cover level can be further reduced to 450mm in common or public open space areas.

Imported soil should be clean/inert and free from deleterious materials, and should be suitable for use in a residential end use setting. It should be able to pass testing of metals, speciated PAH, inorganics & sulphates, SOM, and asbestos screening to current Defra Category 4 Screening Levels (C4SLs) where available, and then to the LQM/CIEH (S4ULs), for use in a residential end use setting.

Localised Hydrocarbon Contamination:

With regard to the risk posed from hydrocarbon contamination around TH7, it is proposed to excavate and locate any former sources of hydrocarbon contamination such as tanks. Once located, the sources of contamination & any associated

hydrocarbon saturated soils should be sampled, tested & then removed from Site to a suitably licenced landfill.

2.5. Verification (Phase 4 requirements)

Verification of the imported soil may be required for Planning or Building Control/Building Regulations submission. Should this be required, it will need to be undertaken by suitably qualified consultants and comprise the following:

- Import source material.
- Characterisation & suitability of material.
- Soil sampling should be undertaken as per YALPAG Guidelines as per the following ratios:

Virgin quarried materials, 1-2 samples to confirm inert nature.

Crushed hardcore, stone, brick, min 1 sample per 500cum.

Greenfield/manufactured, generally 1 sample per 250cum (min 3 samples).

Brownfield, generally 1 sample per 50cum (min 6 samples).

Samples should be tested for the following contamination suites: metals, inorganics, PAH USEPA16 speciated, and asbestos screening. Results will be analysed against Defra Category 4 Screening Levels (C4SLs) where available, and then to the LQM/CIEH (S4ULs), for use in a residential end use setting.

- Verification Depth.
- Reporting (including photographic evidence).

2.6. Additional Notes

Before any further work is undertaken, this report should be submitted to and agreed by the Local Planning Authority Contaminated Land Department/Building Control Department as necessary.

We trust that the above clear, but should you require further advice please contact the undersigned.

Signed.....



D.S. Slattery BSc (Hons).

T J Booth Associates.

Authorised...



T J Booth BSc (Hons), C. Eng. C. Env. MICE.

T J Booth Associates.

3. REFERENCES.

BS 8485:2015+A1:2019. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.

BS 10175:2011+A2:2017. Investigation of potentially contaminated sites. Code of practice.

BS5930:2015. Code of practice for site investigations.

CL:AIRE. 2012. Research Bulletin-RB17-A Pragmatic Approach to Ground Gas Risk Assessment.

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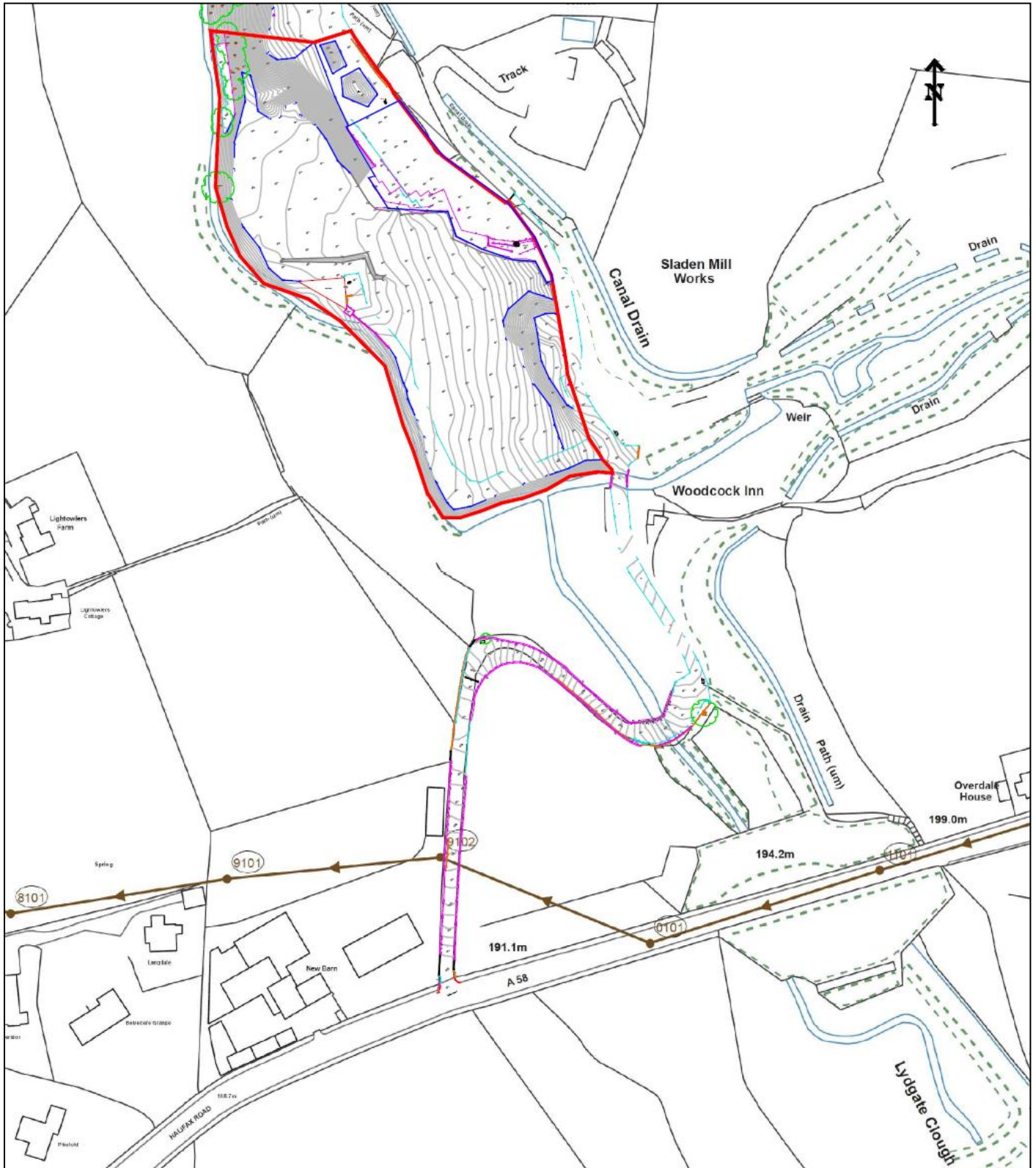
Environment Agency. 2005. Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination. R&D Technical Report P5-066/TR.

ICE Manual of Geotechnical Engineering Volume I. 2012.

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4. APPENDIX A: PLANS, FIGURES, ASSESSMENTS & CERTIFICATION.

4.1. Location Plan.



4.2. Proposed Development.



4.4. Borehole Logs.

Borehole reference BH1				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	168.75			
	167.45	X X X X X X X X	(1.30) 1.30	Loose heterogeneous MADE GROUND
	164.75	X X X X X X X X X X X X X X X	(2.70) 4.00	Weathered grey MUDSTONE
	160.25	X X X X X X X X X X X X X X X X X X	(4.50) 8.50	Yellow SANDSTONE
	159.75	X X X	9.00	Grey SANDSTONE
	158.55	X X X X X X X X	(1.20) 10.20	Yellow SANDSTONE
	155.75	X X X X X X X X X X X X X X X	(2.80) 13.00	Grey SANDSTONE
	148.75	X X	(7.00) 20.00	Grey & yellow SANDSTONE
		X X X X X X X X X X X X X X X		Grey SANDSTONE

		X X	(10.00)	
	138.75	X X	30.00	
				Borehole ends
Not shown to scale				
Additional notes: coal measures exploration, no coal seams or voids encountered				

4.5. Trial Hole Logs.

Trial pit reference TH1				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	171.50			
	171.20	X X X X X	(0.30) 0.30	Light brown very gravelly, clayey MADE GROUND (topsoil). Gravel sized brick, stone, glass & ash.
	169.50	X X X X X X X X X X	(1.70) 2.00	Compact dark brown/black sand sized ash MADE GROUND occasional cobble size brick & stone. (S1)
	169.45	X X X	2.05	Light brown SANDSTONE BEDROCK
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH2				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	170.00			
	169.60	X X X X X	(0.40) 0.40	Brown slightly sandy very gravelly clay MADE GROUND, gravel sized brick, concrete, stone, occasional timber.
	168.00	X X X X X X X X X X	(1.60) 2.00	Dark brown/black very gravelly clay MADE GROUND, gravel sized brick, stone, concrete, occasional timber, with abundant cobble sized brick, stone, and concrete. Hydrocarbon odour (S2).
	167.80	X X X	2.20	Black SHALE BEDROCK
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH3				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	168.80			
	166.20	X X X X X X X X X X X X X X X	(2.60) 2.60	Light brown slightly sandy very gravelly clay MADE GROUND. Coarse gravel sized brick, stone, mortar, occasional shale & coal. Large cobbles of brick & stone - very loose to bottom 600mm. (S3)
	165.90	X X X	2.90	Black SHALE BEDROCK
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH4				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	170.50			
	168.20	X X X X X X X X X X X X X	(2.30) 2.30	Brown very sandy very gravelly silty MADE GROUND. Occasional clay. Gravel sized brick, stone, concrete, rare coal, ash & vitrified clay. (S4)
	167.90	X X X	2.60	Orange/brown very clayey sand MADE GROUND.
<u>v</u>	167.30 166.50	X X X X X X X X	(1.40) 4.00	Very loose very coarse cobble sized brick & stone (demolition rubble fill) MADE GROUND.
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH5				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	169.30			
	168.95	X X X X X	(0.35) 0.35	Dark brown gravelly sandy MADE GROUND. Gravel sized stone, brick, shale & coal. Cobble sized brick & stone. (S5)
	167.30	: o : o : o : o : o : o : o : o : o : o	(1.65) 2.00	Loose to medium dense orange/brown silty SAND AND GRAVEL
	166.95	X X X	2.35	Light brown SANDSTONE BEDROCK (weathered)
	166.90	X X X	2.40	Light brown SANDSTONE BEDROCK
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH6				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	167.80			
	166.10	X X X X X X X X X X	(1.70) 1.70	(firm) brown gravelly clay MADE GROUND. Occasional cobbles. Gravel & cobble sized stone, brick, slate, plastic. (S6)
	164.90	- : - : - : : - : - : - - : - : - :	(1.20) 2.90	Soft to firm orange/brown slightly sandy CLAY becoming soft & damp towards the bottom with occasional sandstone boulders.
	164.50	X X X	3.30	Black SHALE BEDROCK (weathered)
	164.10	X X X	3.70	Black SHALE BEDROCK
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH7				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	167.50			
	164.50	X X X X X X X X X X X X X X X	(3.00) 3.00	Black sandy, gravelly clay MADE GROUND with abundant cobbles. Gravel & cobbles of stone, brick & concrete. Rare cable, fabric (plastic) & timber. (S7). Hydrocarbon odour noted at 2500mm. (S7)
<u>v</u>	163.80	o o o	(1.50)	Loose orange/brown GRAVEL with occasional large boulders & very coarse to bottom. Very wet & hydrocarbon sheen to groundwater.
	163.00	o o o	4.50	
				Trial pit ends
Not shown to scale				
Additional notes:				

Trial pit reference TH8				Sheet 1 of 1
Water	Reduced Level (m)	Legend	Depth (m)	Description
	167.80			
	166.80	X X X X X	(1.00) 1.00	Orange/brown clayey sand & gravel MADE GROUND
	164.80	X X X X X X X X X X	(2.00) 3.00	Dark grey/black clayey sand & gravel MADE GROUND with abundant cobble sized brick. Rare vitrified clay pipe, fabric (plastic) & timber.
	163.70	o o o o o o o o	(1.10) 4.10	Loose orange/brown coarse GRAVEL with abundant cobbles & occasional large boulders.
	163.65	X X X	4.15	Orange/brown BEDROCK (weathered).
				Trial pit ends

Not shown to scale

Additional notes:

Trial pit reference TH9 Sheet 1 of 1

Water	Reduced Level (m)	Legend	Depth (m)	Description
	177.00			
	176.15	X X X X X	(0.85) 0.85	Dark brown/black very slightly silty slightly gravelly MADE GROUND. Gravel & cobble sized brick. Occasional cobble sized stone. (S9).
	175.65	x x x	1.35	Orange/brown very fine sandy SILT
	174.40	: o : o : o : o : o : o : o :	(1.25) 2.60	Light brown SAND AND GRAVEL with abundant sandstone cobbles.
	173.40	X X X X X	(1.00) 3.60	Light brown SANDSTONE BEDROCK (highly weathered)
	173.35	X X X	3.65	Light brown SANDSTONE BEDROCK
				Trial pit ends

Not shown to scale

Additional notes:

Trial pit reference TH10 Sheet 1 of 1

Water	Reduced Level (m)	Legend	Depth (m)	Description
	176.85			
	175.70	X X X X X X X X	(1.15) 1.15	Black very sandy slightly gravelly MADE GROUND with gravel & cobble size brick, & occasional cobble sized stone. (S10). Macadam & MOT to upper 200mm.
	175.45	x : x : x	1.40	Orange/brown sandy SILT
	174.45	: o : o : o : o : o	(1.00) 2.40	Light brown SAND AND GRAVEL with abundant cobbles.
	173.70	X X X X X	(0.75) 3.15	Light brown SANDSTONE BEDROCK (highly weathered)
	173.65	X X X	3.20	Light brown SANDSTONE BEDROCK
				Trial pit ends

Not shown to scale

Additional notes:

4.6. Soil Sampling Analysis.

Client / Site:		Luxure Developments - Sladen Mill						
Sample Type:		Soil Samples						
Sampling Date:		26.11.2020						
Contaminant		No	Max	Mean	t 95	RESIDENTIAL (with or without plant uptake)		
							Pass/Fail	Comment
METALS	Arsenic as As, dry weight	9	66	19.07	48.00	37	FAIL	S1
	Boron as B, hot water sol dw	9	1.7	1.07	1.62	290	PASS	
	Cadmium as Cd, dry weight	9	0.81	0.42	0.77	22	PASS	
	chromium as Cr(III) dry weight	9	29	17.89	28.60	910	PASS	
	Chromium as Cr(VI), dry weight	9	0.5	0.50	0.50	21	PASS	
	Copper, as Dry Weight	9	95	50.33	85.40	2400	PASS	
	Lead, as Dry Weight	9	3900	530.22	2428.00	200	FAIL	S5, S6
	Mercury as Hg, dry weight	9	0.38	0.20	0.36	1.2	PASS	
	Nickel as Ni, dry weight	9	56	30.78	53.20	130	PASS	
	Selenium as Se, dry weight	9	1.5	0.45	1.10	250	PASS	
	Zinc as Zn, dry weight	9	140	103.78	132.00	3700	PASS	
INORGANIC	Cyanide (Total)	9	1.2	0.69	1.16	2.5	PASS	
	Sulphate (Total) as SO4	9	0.22	0.15	0.22	0.24	PASS	
	Sulphide	9	29	12.80	26.60	250	PASS	
	pH	9	9	8.73	8.96	6 to 8	ALKALINE	
	Sulphur (Elemental)	9	140	37.53	114.80	100	comment	
	Asbestos Identification	9	1	0.11	0.60	0	FAIL	chrysotile fibres S9
ORGANIC	SOM	10	6	6.00	6.00			
	PAH acenaphthene	9	1.7	0.51	1.66	1100	PASS	
	PAH acenaphthylene	9	0.28	0.15	0.28	920	PASS	
	PAH anthracene	9	2.8	1.03	2.52	11000	PASS	
	PAH benzo[a]anthracene	9	7.8	2.62	6.64	13	PASS	
	PAH benzo[a]pyrene	9	8.4	2.78	8.36	5	FAIL	S4, S7
	PAH benzo[b]fluoranthene	9	9.4	3.11	8.84	3.7	FAIL	S4, S7
	PAH benzo[g,h,i]perylene	9	4.5	1.98	4.50	350	PASS	
	PAH benzo[k]fluoranthene	9	3.7	1.20	3.58	100	PASS	
	PAH chrysene	9	9	3.04	7.72	27	PASS	
	PAH dibenz[ah]anthracene	9	1.3	0.53	1.22	0.3	FAIL	S3, S4, S6, S7, S9, S10
	PAH fluoranthene	9	16	4.82	13.32	890	PASS	
	PAH fluorene	9	1.4	0.45	1.36	860	PASS	
	PAH indeno[123-cd]pyrene	9	4.9	1.76	4.78	41	PASS	
	PAH naphthalene	9	1.4	0.35	1.12	13	PASS	
	PAH phenanthrene	9	8.7	2.81	8.66	440	PASS	
	PAH pyrene	9	19	5.49	15.40	2000	PASS	
	PAH PAH (Total - SUM EPA16)	9	100	32.53	86.80	1	comment	
	FUEL aliphatic EC 5-6	2	1	1.00	1.00	160	PASS	
	FUEL aliphatic EC 6-8	2	5.2	3.10	4.99	530	PASS	
	FUEL aliphatic EC 8-10	2	110	55.50	104.55	150	PASS	
	FUEL aliphatic EC 10-12	2	160	86.50	152.65	760	PASS	
	FUEL aliphatic EC 12-16	2	1100	557.00	1045.70	4300	PASS	
	FUEL aliphatic EC 16-35	2	27400	14805.00	26140.50	110000	PASS	
	FUEL aliphatic EC 35-44	2	46	23.50	43.75	110000	PASS	
	FUEL aromatic EC 5-7,Benzene	2	1	1.00	1.00	300	PASS	
	FUEL aromatic EC 7-8,Toluene	2	1	1.00	1.00	660	PASS	
	FUEL aromatic EC 8-10	2	30	15.50	28.55	190	PASS	
	FUEL aromatic EC 10-12	2	16	8.50	15.25	380	PASS	
	FUEL aromatic EC 12-16	2	200	146.00	194.60	660	PASS	
	FUEL aromatic EC 16-21	2	2800	1500.00	2670.00	930	FAIL	S8
	FUEL aromatic EC 21-35	2	6100	3300.00	5820.00	1700	FAIL	S8
	FUEL aromatic EC 35-44	2	330	165.50	313.55	1700	PASS	
VOC/BTEX	benzene	2	0.001	0.00	0.00	0.87	PASS	
	toluene	2	0.001	0.00	0.00	660	PASS	
	ethylbenzene	2	0.001	0.00	0.00	260	PASS	
	m-xylene	2	0.001	0.00	0.00	320	PASS	
	p-xylene	2	0.001	0.00	0.00	310	PASS	
	o-xylene	2	0.001	0.00	0.00	330	PASS	
SVOC phenol		9	0.1	0.10	0.10	380	PASS	

4.7. Eurofins Chemtest – Soil Testing Certificates.



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	22-11596-2	Date of Re-Issue:	01-Apr-2022
Initial Date of Issue:	01-Apr-2022		
Client	TJ Booth Associates		
Client Address:	20a Eastgate Street Rochdale Lancs OL16 1DH		
Contact(s):	Daniel Slattery		
Project	Mainly - Sladen Mill		
Quotation No.:	Q22-27132	Date Received:	28-Mar-2022
Order No.:		Date Instructed:	28-Mar-2022
No. of Samples:	9		
Turnaround (Wkdays):	5	Results Due:	01-Apr-2022
Date Approved:	01-Apr-2022		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Soil

Project: Mainly - Sladen Mill

Client: TJ Booth Associates

Quotation No.: Q22-27132

Client: TJ Booth Associates Quotation No.: Q22-27132	Chemtest Job No.:		Chemtest Job No.: 1399858																Chemtest Job No.: 1399859																Chemtest Job No.: 1399860																Chemtest Job No.: 1399861																Chemtest Job No.: 1399862																Chemtest Job No.: 1399863																Chemtest Job No.: 1399864																Chemtest Job No.: 1399865																Chemtest Job No.: 1399866																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	Chemtest Sample ID.:		Client Sample ID.:		Sample Location:		Top Depth (m):		Date Sampled:		Asbestos Lab:		Determination		Accred.		SOP		Units		LOD		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos 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Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos 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Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No	

Results - Soil

[illegible]

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easily liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 800' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 800' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44Aromatics: >C5-C7, >C7-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report InformationKey

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Chemtest

Eurofins Chemtest Ltd

Depot Road

Newmarket

CB8 0AL

Tel: 01638 606070

Email: info@chemtest.com

Final Report

Report No.: 22-12266-1

Initial Date of Issue: 05-Apr-2022

Client: TJ Booth Associates

Client Address: 20a Eastgate Street
Rochdale
Lancs
OL16 1DH

Contact(s): Daniel Slattery

Project: Mainly - Sladen Mill

Quotation No.: Q22-27132

Date Received: 31-Mar-2022

Order No.:

Date Instructed: 31-Mar-2022

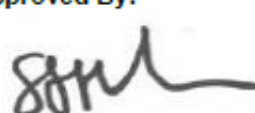
No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 06-Apr-2022

Date Approved: 05-Apr-2022

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: Mainly - Sladen Mill

Client: TJ Booth Associates		Chemtest Job No.:		22-12266
Quotation No.: Q22-27132		Chemtest Sample ID.:	1403086	
		Client Sample ID.:	S8	
		Sample Location:	TH7	
		Sample Type:	SOIL	
		Top Depth (m):	2.50	
		Date Sampled:	24-Mar-2022	
Determinand	Accred.	SOP	Units	LOD
Moisture	N	2030	%	0.020
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0
Benzene	U	2760	µg/kg	1.0
Toluene	U	2760	µg/kg	1.0
Ethylbenzene	U	2760	µg/kg	1.0
m & p-Xylene	U	2760	µg/kg	1.0
o-Xylene	U	2760	µg/kg	1.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44Aromatics: >C5-C7, >C7-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

Report InformationKey

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
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LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

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The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

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Sample Deviation Codes

-
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 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
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 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

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Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

5. APPENDIX B: SITE INVESTIGATION PHOTOS.



Trial Hole 1.



Trial Hole 2.



Trial Hole 3.



Trial Hole 4.



Trial Hole 5.



Trial Hole 6.



Trial Hole 7.



Trial Hole 8.



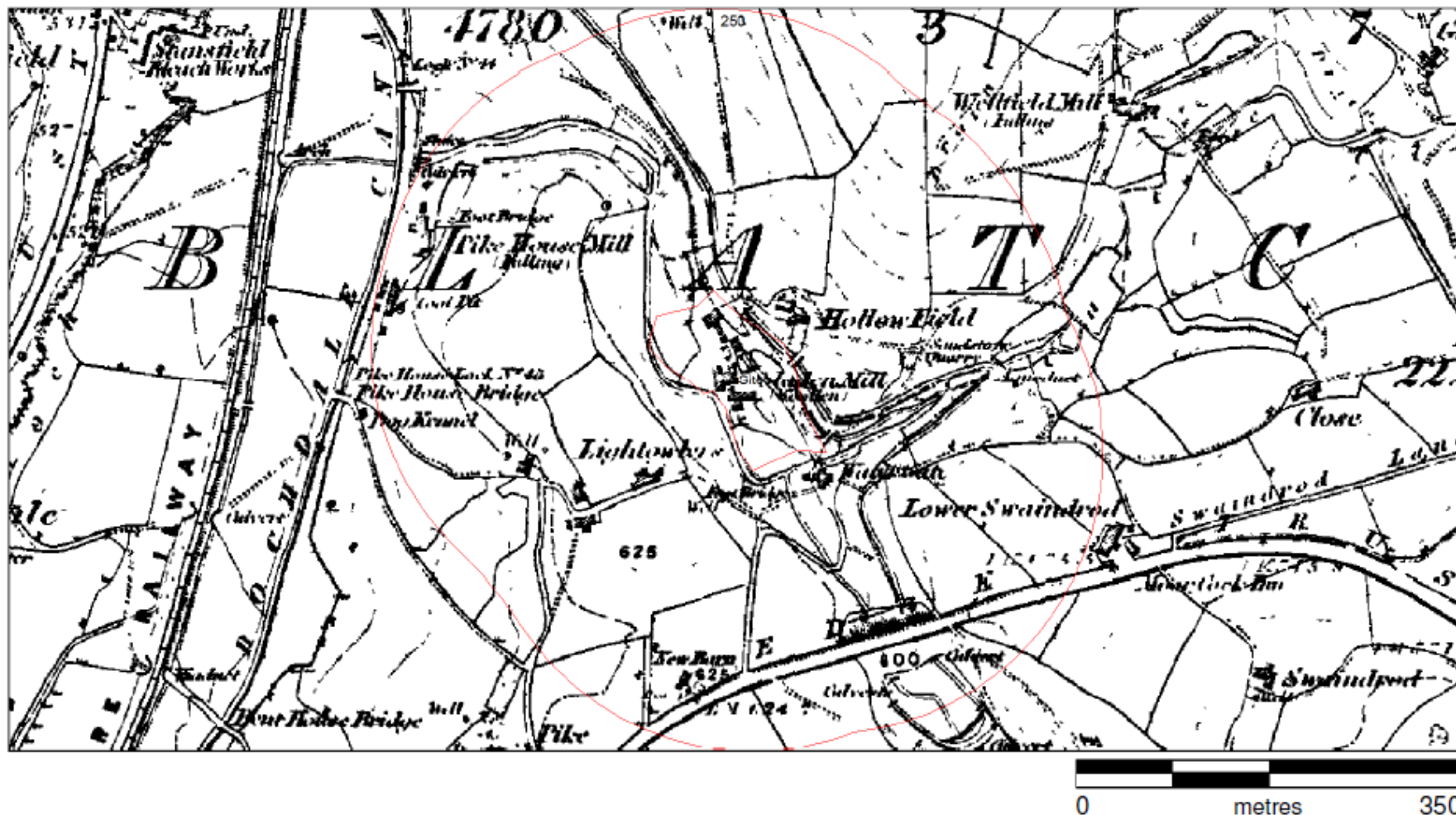
Trial Hole 9.



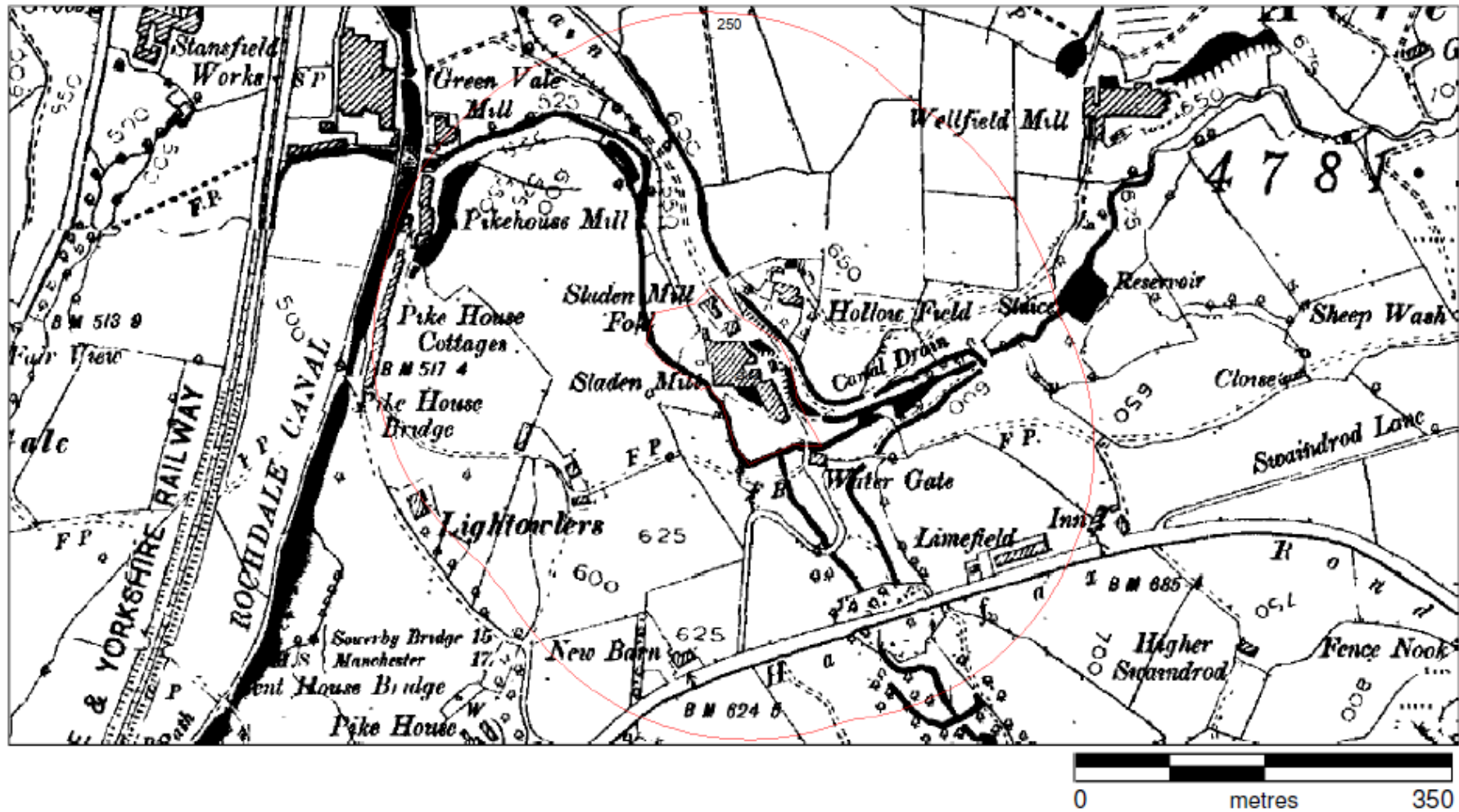
Trial Hole 10.

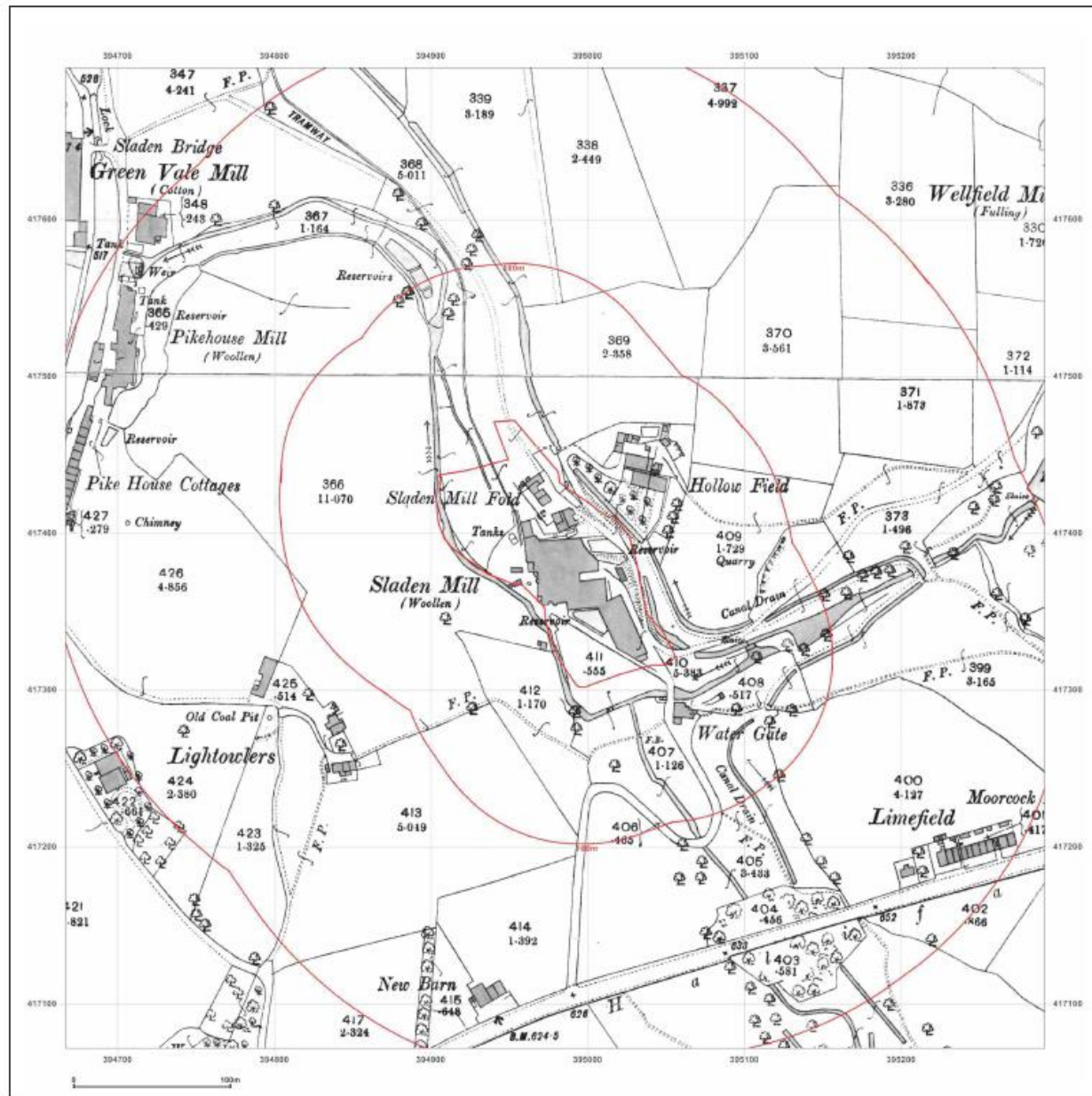
6. APPENDIX C: HISTORIC MAPS & SUPPORTING DOCUMENTATION.

5. Layer Name: 1848 map



6. Layer Name: 1854 map





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Site Details:

Sladen Mill

Client Ref: EMS_290434_393098

Report Ref: EMS-290434_393098

Grid Ref: 394979, 417384

Map Name: County Series

Map date: 1891

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
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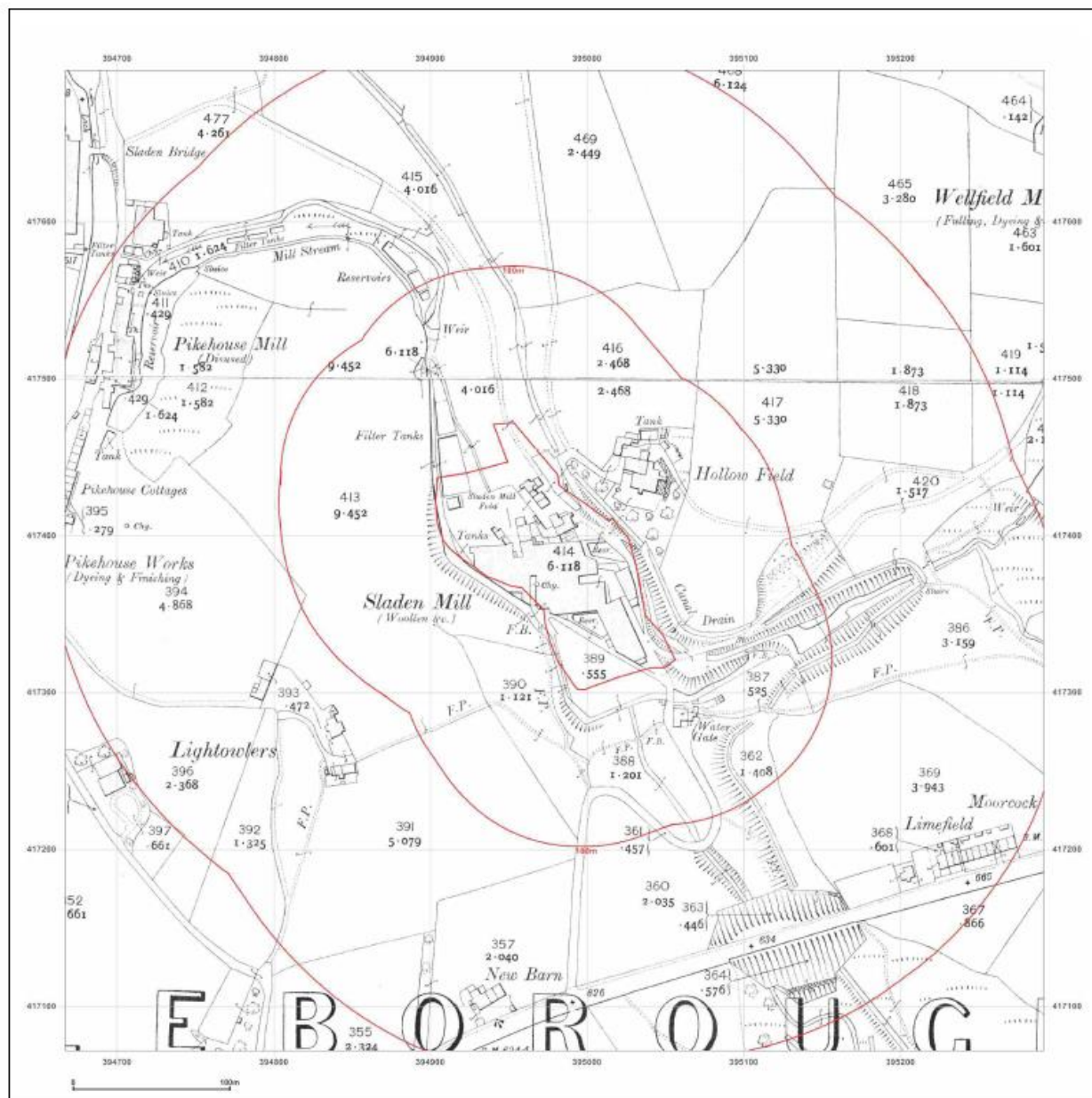
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Site Details:

Sladen Mill

Client Ref: EMS_290434_393098

Report Ref: EMS-290434_393098

Grid Ref: 394979, 417384

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A



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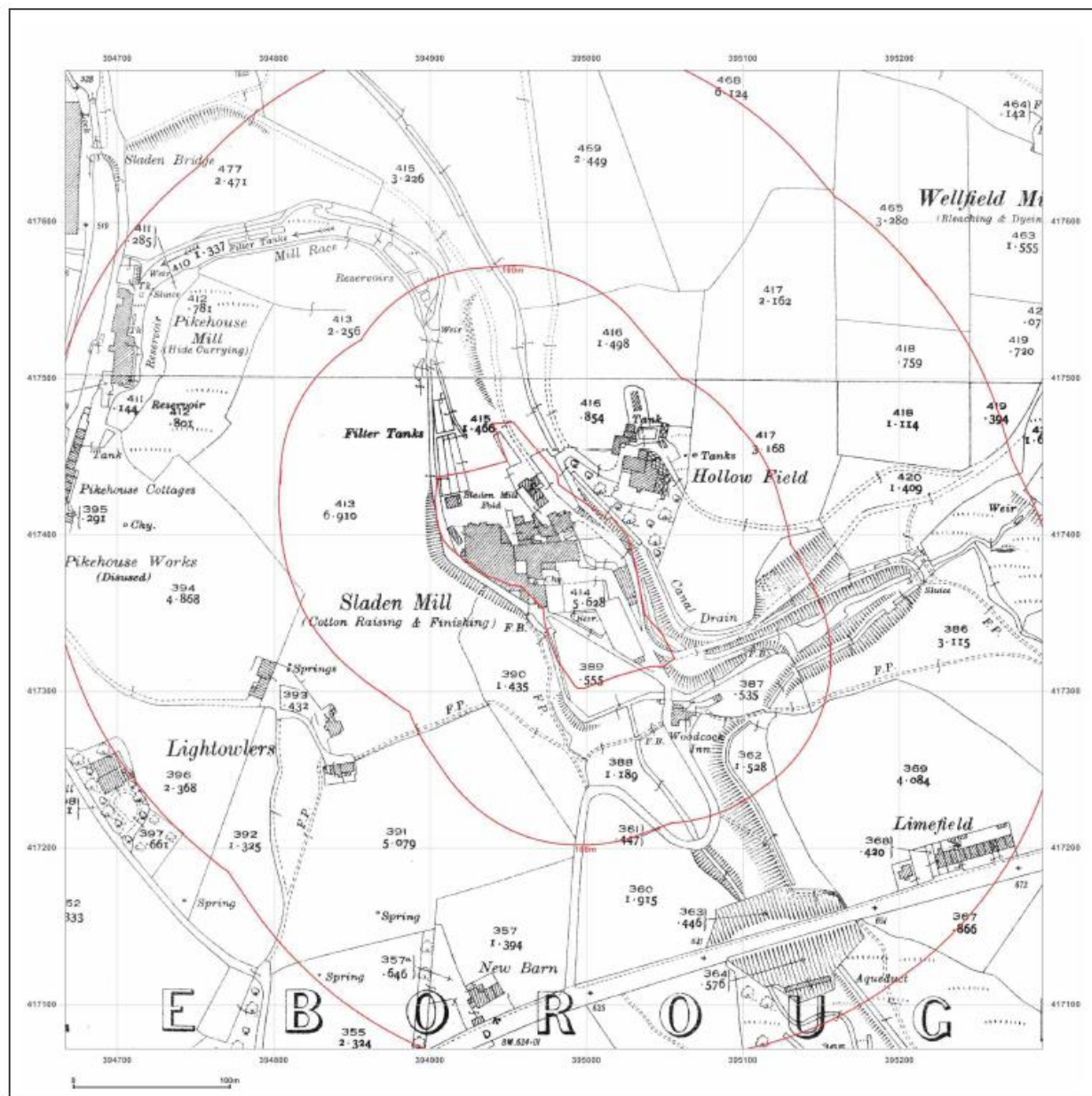


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Site Details:

Sladen Mill

Client Ref: EMS_290434_393098

Report Ref: EMS-290434_393098

Grid Ref: 394979, 417384

Map Name: County Series

Map date: 1928-1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1928
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A



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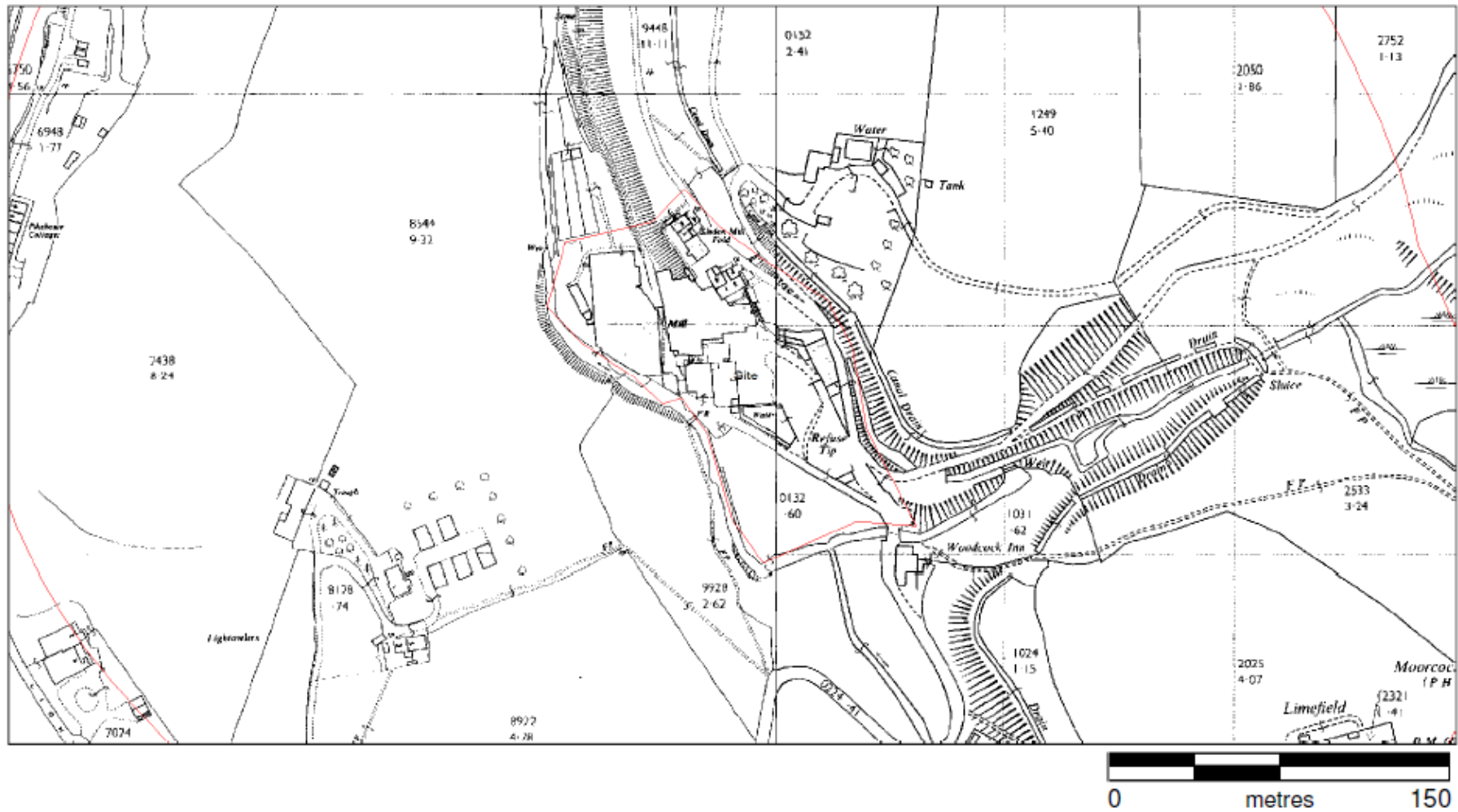
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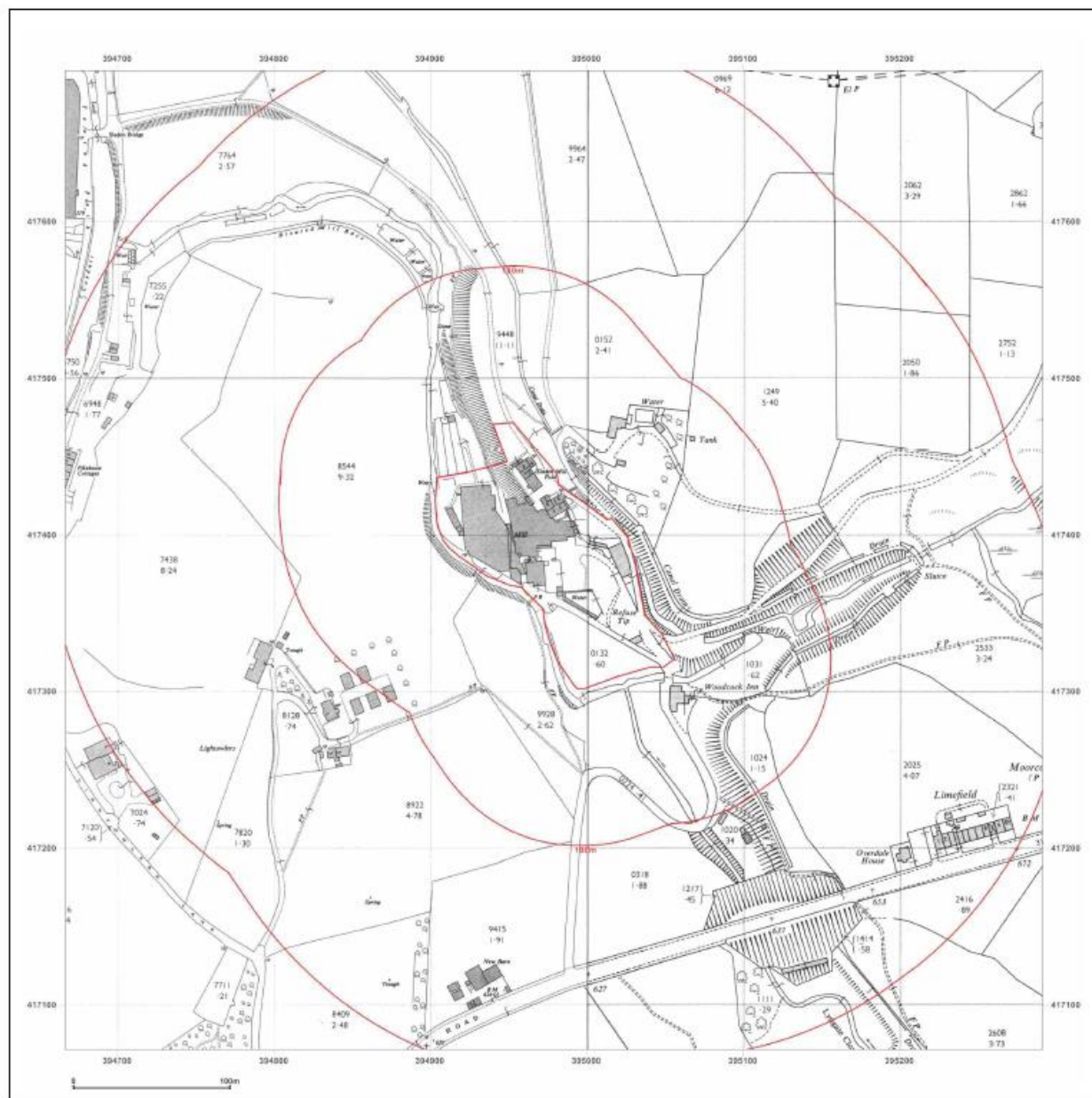
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Production date: 26 February 2015

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18. Layer Name: 1950's map





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Site Details:

Sladen Mill

Client Ref: EMS_290434_393098

Report Ref: EMS-290434_393098

Grid Ref: 394979, 417384

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1962



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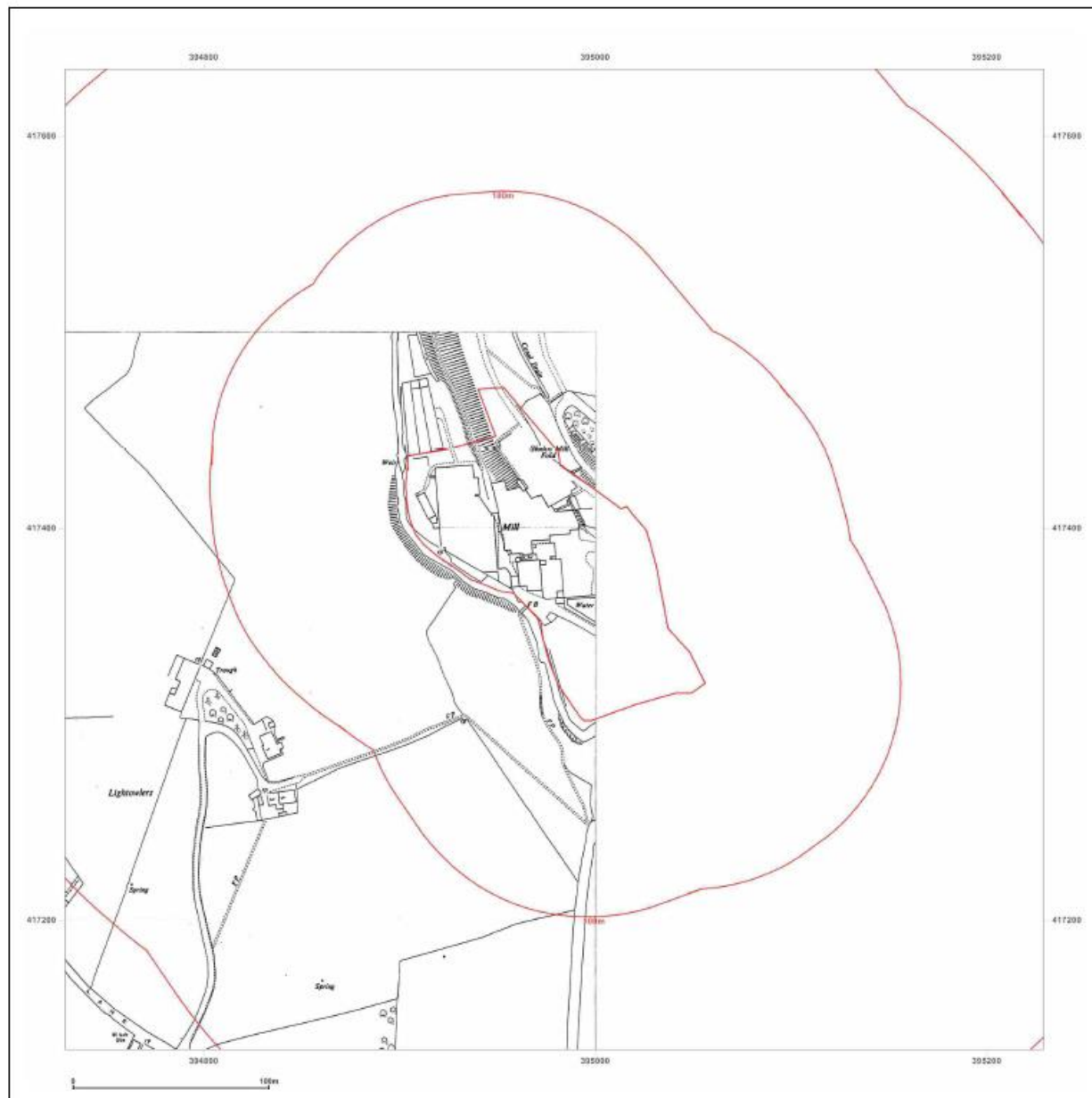


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Site Details:

Sladen Mill

Client Ref: EMS_290434_393098

Report Ref: EMS-290434_393098

Grid Ref: 394979, 417384

Map Name: National Grid

Map date: 1985

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1967
Revised 1985
Edition N/A
Copyright 1985
Levelled 1967



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Site Details:

Sladen Mill

Client Ref: EMS_290434_393098

Report Ref: EMS-290434_393098

Grid Ref: 394979, 417384

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A



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Production date: 26 February 2015

To view map legend click here [Legend](#)

- 6.1. February 2014, Building Notice, ref: 14/00179/DEM, 'Prior notification of proposed demolition of mill' & supporting documentation.



Town and Country Planning Act 1990 as amended by Section 13 Planning and Compensation Act 1991
The Town and Country Planning (General Permitted Development) Order 1995 (as amended)

PRIOR APPROVAL REQUIRED

Name and address for correspondence:	Applicant name:
C Smith And Sons (Rochdale Ltd) Mr Michael Smith Sladen Fold Farm Todmorden Road Littleborough OL15 0LP	C Smith And Sons (Rochdale Ltd)

Part 1 - Particulars of Application

Date of Application: 17 February 2014

Application No: 14/00179/DEM

Proposal:	Prior notification of proposed demolition of mill
Location:	Sladen Mill, Halifax Road, Littleborough, OL15 0LB,

Part II - Particulars of decision

The Rochdale Metropolitan Borough Council hereby give notice in pursuance of the provisions of the Town and Country Planning Act 1990 that prior approval **IS REQUIRED** for the development referred to in Part 1 hereof.

Date of Decision 5 March 2014

Signed on behalf of the Council



ROCHDALE
BOROUGH COUNCIL

Town and Country Planning Act 1990 as amended by Section 13 Planning and Compensation Act 1991
The Town and Country Planning (General Permitted Development) Order 1995 (as amended)

DETERMINATION ON PROPOSAL TO DEMOLISH

Name and address for correspondence:

C Smith And Sons (Rochdale Ltd)
Sladen Fold Farm
Todmorden Road
Littleborough
OL15 0LP

Applicant name:

C Smith And Sons (Rochdale Ltd)

Part 1 - Particulars of Application

Date of Application: 17 February 2014

Application No: 14/00179/DEM

Proposal: Prior notification of proposed demolition of mill
Location: Sladen Mill, Halifax Road, Littleborough, OL15 0LB,

Part II - Particulars of decision

The Rochdale Metropolitan Borough Council hereby give notice in pursuance of the provisions of the Town and Country Planning Act 1990 that permission has been **Granted** for the carrying out of the works relating to the demolition and subsequent restoration of the site referred to in Part 1 hereof in accordance with the application and plans submitted.

Reason for Decision:

Date of Decision 5 March 2014

Signed on behalf of the Council

IMPORTANT

PLEASE ENSURE THAT YOU HAVE READ AND FULLY UNDERSTOOD THE CONTENTS OF THIS DECISION NOTICE.

YOUR ATTENTION IS DRAWN TO THE ATTACHED NOTES.

Rochdale MBC
Economy & Environment
Building Control Services
Number One Riverside
Smith Street
Rochdale
OL16 1XU

Tel: 01706 924327

Email: building.control@rochdale.gov.uk



ROCHDALE
METROPOLITAN BOROUGH
COUNCIL



SECTION 80 – BUILDING ACT, 1984 NOTICE OF INTENDED DEMOLITION

I, the person whose signature, name and address appear below, HEREBY GIVE NOTICE of proposed works of demolition as follows:

Premises: SLADEN MILL, HALIFAX RD, LITTLEBOROUGH OL15 0LH

Description: PART DEMOLITION OF SITE.

Owner: ANDERBURY.

Owner's Address: SLADEN MILL, HALIFAX RD, LITTLEBOROUGH, OL15 0LH

Does any part of the building contain asbestos containing materials? YES / NO

TYPE 3 ASBESTOS SURVEY DONE.
Please note that if the proposed building to be demolished does contain asbestos containing materials (ACMs), then the contractor must comply with the Control of Asbestos Regulations 2012 and an Asbestos Demolition Survey Report, completed in accordance with HSG 264, should be submitted to the HSE.

If an application has been submitted for Building Regulations or Planning or is pending please give details.

Description: _____

Application Number: _____

Is it a Listed Building? YES NO

Is it in a Conservation Area? YES NO

I CONFIRM THAT a Copy of This Notice Has Been Given to the Following, as Required by Law:

1. Electricity Supplier: SERVICES ISOLATED BY OUR CLIENT

2. Gas Supplier: _____

3. Occupiers of the properties adjacent to the building to be demolished:

Name: _____ Name: _____

Address: _____ Address: _____

Name: _____ Name: _____

Address: _____ Address: _____

I understand that I will receive in return a notice specifying certain steps that must be undertaken during the course of the demolition and that copies of that notice will have also been given to the HSE, adjacent occupiers and Gas and Electricity Connection Companies.

I also understand that I may not commence demolition work until I have received notice of the Council's requirement(s) under Section 81 or a period of not less than six weeks has expired from the date I give this Notice.

Start Date: ASAP (If known, but in accordance with the above paragraph)
(ONCE APPROVED)

Contract Duration (Approx): 12 WEEKS

Name and address of person or company undertaking the demolition: P J HATH & SONS (ROCHDALE) LTD
SLADEN FOLD FARM
SUMMIT, LITTLEBOROUGH
OL15 0LP

Name and address of Agent (if any): N/A

Signature: [Signature] Date: 7-1-2014
 Name (print): PAULA DOUGLAS
 Address: SLADEN FOLD FARM
SUMMIT, LITTLEBOROUGH 01706 378558-
OL15 0LP

Please return to the address below with the fee of £155.00 made payable to Rochdale MBC

Return to: Rochdale MBC, Economy & Environment, Building Control Services, Number One Riverside, Smith Street, Rochdale, OL16 1XU.

Revised June 13 dco

Registered Office

Sladen Fold Farm, Summit, Littleborough, Lancashire, OL15 0LP
Tel : 01706 378558 / 07831 462692 - Fax : 01706 378616
Email : csmithandsons@aol.com

C SMITH & SONS (ROCHDALE) Ltd

**Proposed Health and Safety Pack covering
Demolition Works
at
Sladen Mill, Halifax Road, Littleborough, Lancs, OL15 0LB**



on behalf of



Registered Office:

Sladen Fold Farm, Summit, Littleborough, Lancashire, OL15 0LP
Tel : 01706 378558 / 07831 462692 - Fax : 01706 378616 – Email : csmithandsons@aol.com

C SMITH & SONS (ROCHDALE) Ltd

Outline Method Statement

Reference Number :	MS/SM/001	Site Location:	Sladen Mill, Halifax Road, Littleborough, Lancs, OL15 0LB
Author(s):	Tony Hardman (07808 292636)		
Activity Under Consideration :	Demolition of Identified Dilapidated Structures		

Step	Description	Activities Required	Remarks
	Introduction and Site Safety	C Smith & Sons (Rochdale Ltd), hereinafter referred to as CSS, have been appointed by our Client (Alderburgh Limited) as the contractor responsible for demolition of a range of buildings and structures at the above site. We understand that since a fire (approx 20 years ago) the various structures have been lying unused and have gradually fallen into a state of dilapidation and disrepair. The structures are now to be demolished, removing the risk of potential collapse and allowing the created space to be used for site based storage/parking etc. This method statement sets out the proposed safe system of work which will be employed by ourselves during the initial clean up and subsequent demolition (down to slab level) of the identified structures. A Refurbishment and Demolition Asbestos Survey (ref S.J.01174, dated 21 December, 2013) has been prepared. The report identifies various asbestos containing materials which shall be removed by our trained and competent operatives prior to commencement of the demolition activities. The method statement assumes that any equipment required by the Client has been previously removed from all areas identified for demolition.	Our Demolition Manager for this project shall be Michael Smith (07831 462692) with day-to-day Supervision by Carl Jones (07970 900109). Carl shall take charge of the works and be responsible for the day-to-day management and co-ordination of all related Health and Safety matters within the workplace. He shall liaise with the Client Mr Peter Davidson, Tel 07976 720650, to determine any current or forthcoming site activities which may affect the safe completion of our work. Any minor and reasonable changes to the sequence or methodology of work shall be agreed on site and this method statement shall be hand amended to reflect the change. Where such changes are deemed to be significant a new method statement shall be produced.

MS/SM/001

Page 1 of 16

Issue 01 - 8 February, 2014

Registered Office:

Sladen Fold Farm, Summit, Littleborough, Lancashire, OL15 0LP
Tel : 01706 378558 / 07831 462692 - Fax : 01706 378616 – Email : csmithandsons@aol.com

C SMITH & SONS (ROCHDALE) Ltd

Site Photo's



Asbestos Cement Sheets to be removed prior to Boiler House Demolition

MS/SM/001

Page 14 of 16

Issue 01 - 8 February, 2014

Dunelm Environmental Consultancy (UK)

ASBESTOS SURVEY REPORT**SURVEY REFERENCE NO:** S.J.01174**CLIENT:** C Smith & Son**SITE ADDRESS:** Sladen Mill Littleborough**CONTACT:** Michael Smith**SURVEY TYPE:** Refurbishment/Demolition Survey**SURVEY DATE:** 21st December 2013**SURVEY LEADER:** Martin Dennett**SURVEYOR(S):** Martin Dennett**REPORT ISSUE DATE:** 21st December 2013**REPORT PREPARED BY:** M Dennett**REPORT REVIEWED BY:** M Dennett

THE LEAD SURVEYOR M. Dennett is the holder of a P402 Certificate: Buildings Surveys and Bulk Sampling for Asbestos (including Risk Assessment and Risk Management Strategies) Certificate in Asbestos Inspection procedures and Asbestos Inspector Assessment. & P406 Supervisory Management Certificate

Report No S.J.01174

Dunelm Environmental Consultancy (UK)

SECTION 1: EXECUTIVE SUMMARY

For further details please see section 7

Requires a competent contractor with trained staff under non Licensed Notifiable removal regulations to remove as follows:

Floor	Sample No.	Material Type	Asbestos Type	Comments	Photo
Boiler Room	Visual	Fuse Box Flash Pads	Chrysotile	Remove prior to Demolition	
Boiler room	Visual	Asbestos Cement wall panels	Chrysotile	Remove prior to Demolition	
Store	Visual	Asbestos Cement wall panels	Chrysotile	Remove prior to Demolition	
Stenyer room	Visual	Asbestos Cement Roof	Chrysotile	Remove prior to Demolition	No Photo

Report No S.J.01174

6.2. 2017 Building Notice, ref: DEM/17/0122, 'Demolition of Site Buildings' & supporting documentation.

 ROCHDALE BOROUGH COUNCIL	ECONOMY SERVICE John Searle Director of Economy BUILDING CONTROL SERVICE Dave Oakes BSc (Hons) MSc C.Build.E MCABE FRACS Building Control Manager Number One Riverside Smith Street Rochdale OL16 1XU
Colin Smith & Sons Sladen Fold Farm Summit Littleborough OL15 0LP	Fax: 01706 924628 Our ref: DEM/17/0122 Enquiries to: ADMIN Direct Line: 01706 924327 Date: 8 November 2017

Dear Sirs

THE BUILDING ACT 1984 SECTION 81 + 82 :	REFERENCE: DEM/17/0122
NOTICE OF INTENDED DEMOLITION	

Location:	Alderburgh Ltd, Sladen Mill, Halifax Road, Littleborough, OL15 0LB,
Proposal:	DEMOLITION OF EXISTING BUILDINGS

BUILDING ACT 1984: SECTION 81
NOTICE TO PERSONS UNDERTAKING DEMOLITION WORKS

To: Colin Smith & Sons, Sladen Fold Farm, Summit, Littleborough, OL15 0LP

Further to the receipt of the Section 80 Notice, dated 16th October 2017, which specifies certain works of demolition intended to be carried out in respect of the building(s) at the following address:

Sladen Mill, Halifax Road, Littleborough, OL15 0LB

Rochdale Borough Council (referred to as 'the Council' hereafter) pursuant to Sections 81 & 82 of the Building Act 1984, requires you to complete the work of demolition in accordance with the attached Schedule, no later than 8 weeks from the date of commencement.

NOTE 1: You have a right of appeal to a Magistrates' Court against this Notice and your attention is drawn to the notes attached hereto which set out the relevant statutory provisions regarding appeals against, and the enforcement of, this Notice. Any appeal must be made within 21 days from the date when this Notice is served upon you.

NOTE 2: The Contractor should contact Building Control on Telephone No 01706 924325 between the hours of 9.00am and 4.30pm to arrange any site meetings deemed necessary before any works of demolition.

NOTE 3: Your attention is drawn to the provisions contained in Sections 82, 83, 99, 102 and 103 of the Building Act 1984. Any appeal in pursuance of these provisions should be made to a Magistrates' Court and must be brought within 21 days of the service of this notice.

Signed: Mr David Oakes
 Date: 8 November 2017
 .cc: HSE, Electricity North West, National Grid, United Utilities, Adjacent Owners.



Rochdale MBC
Economy & Environment
Building Control Services
Number One Riverside
Smith Street
Rochdale
OL16 1XU

Tel: 01706 924327
Email: building.control@rochdale.gov.uk



SECTION 80 – BUILDING ACT, 1984 NOTICE OF INTENDED DEMOLITION

I, the person whose signature, name and address appear below, HEREBY GIVE NOTICE of proposed works of demolition as follows:

Premises: SLADEN HILL, BLACKSTONE EDGE ROAD, LITTLEBOROUGH
Description: STONE, BRICK & SLATE & PORTAL FRAMED BUILDING
Owner: ANDERBROUGH LTD / PAL S/PP PR DAVIDSON & B DAVIDSON
Owner's Address: _____

Does any part of the building contain asbestos containing materials? YES ☒ NO ☐ See Survey

Please note that if the proposed building to be demolished **does** contain asbestos containing materials (ACMs), then the contractor must comply with the Control of Asbestos Regulations 2012 and an Asbestos Demolition Survey Report, completed in accordance with HSG 264, should be submitted to the HSE.

If an application has been submitted for Building Regulations or Planning or is pending please give details.

Description: RESIDENTIAL DEVELOPMENT
Application Number: 15/01235 / OUT.

Is it a Listed Building? YES ☒ NO ☐ Is it in a Conservation Area? YES ☒ NO ☐

I CONFIRM THAT a Copy of This Notice Has Been Given to the Following, as Required by Law:

- Electricity Supplier: BY CLIENT
- Gas Supplier: BY CLIENT
- Occupiers of the properties adjacent to the building to be demolished:

Name: _____	Name: _____
Address: _____	Address: _____
_____	_____
_____	_____
Name: <u>N/A</u>	Name: <u>N/A</u>
Address: _____	Address: _____
_____	_____
_____	_____

I understand that I will receive in return a notice specifying certain steps that must be undertaken during the course of the demolition and that copies of that notice will have also been given to the HSE, adjacent occupiers and Gas and Electricity Connection Companies.

I also understand that I may not commence demolition work until I have received notice of the Council's requirement(s) under Section 81 or a period of not less than six weeks has expired from the date I give this Notice.

Start Date: NOV 2017

(If known, but in accordance with the above paragraph)

Contract Duration (Approx)

6 - 8 WEEKS

Name and address of person or company undertaking the demolition:

COLIN SMITH & SONS
SLADEN FOLD FARM
SUMMIT
LITTLEBOROUGH OL15 0LP

Name and address of Agent (if any):

Signature:

[Signature]

Date:

16 OCTOBER 2017

Name (print)

MICHAEL SMITH

Address

SLADEN FOLD FARM
LITTLEBOROUGH
OL15 0LP

Please return to the address below with the fee of £164.00 made payable to Rochdale MBC

Return to: Rochdale MBC, Economy & Environment, Building Control Services, Number One Riverside, Smith Street, Rochdale, OL16 1XU.

Revised March 2014 AT



Outline Method Statement

Reference Number :	MS/SM/002	Site Location:	Sladen Mill, Blackstone Edge Road, Littleborough, OL15 0LB
Author(s):	Tony Hardman (07808 292636)		
Activity Under Consideration :	Demolition of Site Buildings		

Step	Description	Activities Required	Remarks
	Introduction and Site Safety	Colin Smith & Sons, hereinafter referred to as CSS, have been appointed by our Client (PAL Trustees Ltd, PR Davidson & B Davidson) as the contractor responsible for the demolition of a number of buildings at the above site (see attached Site Plan). This method statement sets out the proposed safe system of work which will be employed by ourselves during the initial soft stripping and subsequent demolition (down to slab level) of the identified structures. A Refurbishment and Demolition Asbestos Survey (ref S.J.01410, issued 12 December, 2017) has been prepared. The report identifies various asbestos containing materials (Chrysotile cement sheets in Buildings 1, 2 and 3) which shall be removed by our trained and competent operatives prior to commencement of the remote demolition activities. The method statement assumes that any equipment required by the Client has been previously removed from the buildings identified for demolition.	Our Demolition Manager for this project shall be Michael Smith (07831 462692) with day-to-day Supervision by Carl Jones (07970 900109). Carl shall take charge of the works and be responsible for the day-to-day management and co-ordination of all related Health and Safety matters within the workplace. He shall liaise with the Client Mr Peter Davidson, Tel 07976 720650, to determine any current or forthcoming site activities which may affect the safe completion of our work. Any minor and reasonable changes to the sequence or methodology of work shall be agreed on site and this method statement shall be hand amended to reflect the change. Where such changes are deemed to be significant a new method statement shall be produced.

MS/SM/002

Page 1 of 13

Issue 01 - 2 May, 2018

Reference Number : MS/SM/002

Step	Description	Activities Required	Remarks
6.0	Removal of Asbestos Containing Materials (Cement Sheets)	With all areas now cleared of any debris identify the asbestos containing materials (and any others which may have appeared following completion of the clean up activities) and establish the access requirements to assist in their removal.	
7.0		Check ground conditions and position the MEWP adjacent to the cement sheets.	
8.0		Rig up gas cutting equipment, bolt croppers etc, climb into the MEWP basket, attach safety harness to installed anchor point and raise the basket to sit adjacent to the first sheet identified for removal.	Cement sheets are installed to the roof and sides of Buildings 1 and 2.
9.0		Using a combination of gas cutting equipment and/or bolt croppers carefully remove the sheet fixing bolts and lower the sheet into the MEWP basket.	
10.0		Remove the remaining cement sheets in that location then lower the basket, remove and wrap/bag the cement sheets and place aside ready for disposal.	Complete a final inspection/clean down of the floor/area.
11.0		Repeat above steps until all remaining cement sheets (and rainwater goods) have been removed then undress from PPE, bag this as asbestos waste and dispose of all asbestos waste via the approved disposal route.	As above. Place consignment notes in the site file.
12.0		With all asbestos containing materials removed, reposition the MEWP clear of the point of work and manoeuvre the demolition plant into position adjacent to the agreed start point.	

MS/SM/002

Page 4 of 13

Issue 01 - 2 May, 2018

Sladen Fold Farm, Lightowlers Lane, Littleborough, Lancashire, OL15 0LP
Tel : 01706 378558 / 07831 462692 - Fax : 01706 378616 – Email : info@csmithandsons.co.uk

COLIN SMITH & SONS

Reference Number : MS/SM/002

Step	Description	Activities Required	Remarks
13.0	Demolition Works (Buildings 1, 2 and 3)	Extend the fencing as appropriate and set up dust suppression equipment (where weather/site conditions dictate).	All fencing is to be positioned to create a suitable Demolition Exclusion Zone. Position a Banksman adjacent to the point of work (a safe distance away from the operating machine).
14.0		Using the excavator with fitted shear cut out and remove the steel portal frame of Building 1.	Banksman is to ensure that no persons enter the area during demolition. If access is required all work must stop until the area has been vacated and it is safe to resume.
15.0		With the building demolished use gas cutting equipment to complete further size reduction of the portal frame steel structure (if required) and load to scrap bulker.	Use the gas cutting equipment to remove any tripping hazards (remaining steel columns flush to the floor slab).
16.0		Repeat above steps to demolish Buildings 2 and 3 down to slab level.	
17.0	<i>Building 4</i>	Where salvageable arrange removal of any roofing slates by specialist roofing contractor	Separate RAMS will refer.
18.0		Use a combination of excavator and Demolition Operatives working from a MEWP (when demolishing the elevation adjacent to the minor road) to reduce the building down to slab/wall level.	Banksman to be positioned along Blackstone Edge Road during demolition of the adjacent elevation.
19.0		Segregate all recovered materials into 'like' types.	
20.0		Load the recovered stone, scrap and timber into the appropriate waste skips and remove from site.	

MS/SM/002

Page 5 of 13

COLIN SMITH & SONS

Sladen Fold Farm, Lightowlers Lane, Littleborough, Lancashire, OL15 0LP
Tel : 01706 378558 / 07831 462692 - Fax : 01706 378616 – Email : info@csmithandsons.co.uk

HAZARD No.	EXISTING CONTROLS	EXISTING INFORMATION Can refer to existing documents	EXISTING TRAINING	BEST PRACTICE	EXISTING CONTROLS OK / Not OK
8 cont	Teamwork to be employed for heavier sections of debris. Dusty areas to be wetted down prior to sweeping up and removal of debris in that area with suitable RPE worn. Skips to be regularly removed leaving a clean and safe site. Open top skips to be covered prior to removal. Consignment notes to be obtained for each removed load.	As above	As above	As above	Okay
9	The site Refurbishment and Demolition Survey Report shows the presence of asbestos containing materials (ACM's) in the form of cement sheets. Particulate respirators (FFP3), disposable coveralls and gloves to be worn when removing and handling the sheets and any other non notifiable materials which may be discovered during the course of the work. Routine environmental clean-ups will be completed as the work progresses. Where additional ACM's detected (or suspected) all work shall cease in that particular area and the area fenced off until independent inspection/analysis has been completed.	Site Safety Rules (posted at the point of entry) Asbestos Awareness Course Refurbishment and Demolition Asbestos Survey ref S.J. 01410.	Asbestos awareness training Persons working under direct supervision of Competent Person.	Control of Asbestos Regulations 2012 COSHH 2002	Okay

RA/SM/002

10 of 15

Issue 01 - 2 May 2018

The Hazardous Waste Regulations 2005:
Consignment Note

CONSIGNEE'S COPY

PART A Notification details

1 Consignment note code: **SLADEN100001**2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): **SLADEN MILL****HAIRFAX ROAD
LITTLEBOROUGH
LANCASHIRE
OL15 0LB**

3 The waste will be taken to (name, address and postcode):

**BRADLEY PARK WASTE MGT
LOWER QUARRY ROAD
HUDDERSFIELD HD2 1FN**

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

PART B Description of the waste

1 The process giving rise to the waste(s) was: **DEMOLITION**2 SIC (2007) for the process giving rise to the waste: **H3.11.1**

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
ASBESTOS CEILING SHEET MIX	170605		CHRISTIANITE	0.1%	SOLID	H7
						DRUM

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170605	2590	DEMOLITION	9	III	DO NOT BE WORN

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

1 Carrier name: **COLIN SMITH & SONS**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**SLADEN FOLD FARM, SUMMIT
LITTLEBOROUGH OL15 0LP**

2 Carrier registration no./reason for exemption:

CRDU 123851

3 Vehicle registration no. (or mode of transport, if not road):

MX17 DZZSignature: **MSmith**Date: **28.10.2019**Time: **1400**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: **YAL TRUSTEES**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**410 JAFFE WAY PISHOP
DUNN'S HOLE
ST PAULS ROAD
SPALSBURY SP2 7BF**Signature: **SEAN BURKE**Date: **28.10.2019**Time: **1400**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170605	11220	✓	D5

1 I received this waste at the address given in A3 on: Date **28.10.19**Time: **1400**

2 Vehicle registration no. (or mode of transport if not road):

3 Where waste is rejected please provide details: **MX17 DZZ**Name: **Koldewig**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

I certify that waste permit/exempt waste operation number:

authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature: **SEAN BURKE**Date: **28.10.19**Time: **1400**

HWCN01v112

Form HWCN01v112

The Hazardous Waste Regulations 2005:
Consignment NoteEnvironment
Agency

CONSIGNEE'S COPY

PART A Notification details

1 Consignment note code: SLADEN1000022 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): SLADEN HILL
HAKING ROAD
LITTLEBOROUGH
LANCASHIRE
OL15 0LB

3 The waste will be taken to (name, address and postcode):

BRADLEY PARK WASTE MGT
LOWDC BRICKY FARM
HUDDESFIELD
HD2 1FN

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

PART B Description of the waste

1 The process giving rise to the waste(s) was: DEMOLITION 2 SIC (2007) for the process giving rise to the waste: A3-11-1

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
<u>ABESTON</u>							
<u>CEMENT SHUT</u>	<u>170605</u>		<u>CRYSTALL</u>	<u>0.1%</u>	<u>SOLID</u>	<u>H7</u>	<u>2000</u>
<u>MX</u>							

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN classes	Packing group(s)	Special handling requirements
<u>170605</u>	<u>2590</u>	<u>DEMOLITION</u>	<u>G</u>	<u>III</u>	<u>RPE PPE TO BE</u>
					<u>WORN</u>

PART C Carrier's certificate

If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here: ☐

I certify that I today collected the consignment and that the details in A2, A3 and B5 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

1 Carrier name: COVIN SMITH & SONSOn behalf of (name, address, postcode, telephone, e-mail, facsimile): SLADEN HILL WASTE MGT, SUMMIT
LITTLEBOROUGH
LANCASHIRE
OL15 0LB2 Carrier registration no./reason for exemption: 01700
3785583 Vehicle registration no. (or mode of transport, if not road): CB01 123851
MX17 D22Signature: WJHDate: 29-10-2019 Time: 0900

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: PAK TRUSTEESOn behalf of (name, address, postcode, telephone, e-mail, facsimile): 10 JAMES HAY PARK
DUNN'S FARM
ST PAULS ROAD
SAKISBURY
SP2 7BNSignature: JOHN BAKERDate: 29-10-2019 Time: 0900

PART E Consignee's certificate

(where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
<u>170605</u>	<u>5500</u>	<u>✓</u>	<u>D</u>

1 I received this waste at the address given in A3 on: Date: 29-10-19 Time: 0900

2 Vehicle registration no. (or mode of transport if not road):

3 Where waste is rejected please provide details: WJHName: WJH

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

I certify that waste permit/exempt waste operation number:

authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature: WJHDate: 29-10-19 Time: 0900

HWCN01v112

Form HWCN01v112

The Hazardous Waste Regulations 2005:
Consignment NoteEnvironment
Agency

CONSIGNEE'S COPY

PART A Notification details

1 Consignment note code: **SLADEN100003**2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): **SLADEN MILL****HALIFAX ROAD
LITTLEBOROUGH
LANCASHIRE
OL15 0LB**

3 The waste will be taken to (name, address and postcode):

**BRADLEY PARK WASTE MGT
LOWER BLAIRY ROAD
HUDDERSFIELD HD2 1FN**

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

PART B Description of the waste

If continuation sheet used, tick here ☐1 The process giving rise to the waste(s) was: **DEMOLITION** 2 SIC (2007) for the process giving rise to the waste: **43.11.1**

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
ASBESTOS CEMENT SHEET MIX	170605		CHRISTIAN	0.1%	SOLID	H7	2000

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170605	2590	DEMOLITION	9	II/IT	RPE PPE TO BE WORN

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here, ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

Round number: **1**1 Carrier name: **COLIN SMITH & SONS**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**SLADEN FOLD FARM
SMITH, LITTLEBOROUGH
LANCASHIRE**

2 Carrier registration no./reason for exemption:

CBDU 123851

3 Vehicle registration no. (or mode of transport, if not road):

Signature: **MONDA**Date: **29.10.2019**Time: **11:10**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: **PAL TRUSTEES**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**CLOJAMES HAY P/SHIP
DUNNS HOTE
ST PAULS ROAD SP2 7BF**Signature: **SEAN BURKE**Date: **29.10.2019**Time: **11:10**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170605	10000	✓	D5

1 I received this waste at the address given in A3 on: Date: **29.10.19**Time: **11:20**

2 Vehicle registration no. (or mode of transport if not road):

Name: **Ks/LOVAL**3 Where waste is rejected please provide details: **MX17 D2 Z**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

I certify that waste permit/exempt waste operation number:

LP3434AA

authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Bradley Park Waste Management

10000 (10000 kg)

10000 (10000 kg)

10000 (10000 kg)

Signature: **[Signature]**Date: **29.10.19**Time: **11:20**



Demolition crush which has now been removed from Site.



Demolition materials separated for removal.