Project No: EAL.454.24.MRA
Date: 21st July 2025

Mr Wes Bugg
Surfacing Standards Ltd.
Office 2
Empingham House
Ayston Road
Uppingham
Rutland
LE15 9NY

Dear Wes,

Re: Wythenshawe Sport Ground Football Hub, Manchester – Mineral Resource Assessment

Background

This Mineral Resource Assessment has been produce for Surfacing Standards Ltd., hereafter referred to as 'the client', to assist with the planning application for the site known as *Wythenshawe Sport Ground Football Hub, Manchester.* It is understood that the redevelopment proposal for the site is for the construction of four artificial sports pitches. Site location and proposed development plans are included in **Appendix A**, for reference.

It is understood that the site has been identified as potentially falling within a Mineral Safeguarding Area and further assessment has been requested in order to confirm that the proposed development complies with the Local Authority policy.

Project Brief

The brief for the Mineral Resource Assessment incorporates the following;

- A review of the site setting, proposed development and layout.
- A review of the Greater Manchester Joint Minerals Plan and associated mapping along with the wider planning context.
- Geological Assessment of anticipated ground conditions by review of online geological mapping and borehole records from a previous ground investigation for the proposed development undertaken by Erda Associates Ltd.

The following sources of information have been reviewed when compiling this assessment.

- Indicative proposed development provided by the client and included in **Appendix A** for reference.
- Greater Manchester Joint Minerals Plan – Development Plan Document, dated April 2013.
- Greater Manchester Joint Minerals Plan – Map Appendices (Map 1, Map 12 and Map 22), included in **Appendix B.**
- Planning Policy Guidance 17: Planning for open space, sport and recreation.
- BGS Online Geological Map Viewer.
- Previous Erda Associates Borehole records; included in **Appendix C**, for reference.

Site Location and Description

The site is located in the Wythenshawe district of Manchester. The site currently comprises a number of turfed playing fields. Access to the site is via a private driveway access off Willenhall Road via an existing residential housing estate.

The immediate surrounding land use comprises further turf playing fields to the north, east and west. Wythenshawe Sports Hub and associated car parking is situated immediately to the south with the M60 beyond this. The River Mersey is situated some 500m to the north of the site.

The proposed redevelopment comprises the construction of four artificial sports pitches. Although it is not considered that this constitutes a significant change in use, the developments semi-permanent nature may temporarily sterilise mineral reserves beneath it. However, please note that artificial pitches are usually subject to refurbishment works circa every 10 years. As such, there would be opportunities to reassess the need for prior extraction in these areas every 10 years if required. Site location and indicative proposed development plans are included in **Appendix A**, for reference.

Notable Planning Context

The Local Authority playing pitch strategy for Wythenshawe Sports Ground notes that the existing turf pitches are overplayed with no real spare capacity. As such there is a desire in the pitch strategy to develop a programme of technical recommendations to support the improvement of pitch quality thereby increasing the carrying capacity and reduce overplay.

It is considered that the proposed development would meet the requirements set out in the playing pitch strategy.

Greater Manchester Joint Minerals Plan Review

It is understood that sand and gravel reserves situated within Manchester are considered to be relatively low quality. The majority of high quality sand and gravel is imported to Manchester from quarries in North Wales, Derbyshire, Lancashire, Cumbria, Staffordshire and Cheshire. The majority of imports are transported by road with some minimal importation by rail.

It is noted that low quality aggregates will typically be utilised for low specification end uses such as bulk fill. Recycled aggregates can be used as a more sustainable replacement for low quality sand and gravel reserves.

The plan seeks to ensure that mineral resources are not needlessly sterilised by non-mineral development. However, it is noted no suitable specific site allocations have come forward from landowners and developers during production of the Mineral Plan. A total of four calls for sites were made as part of the preparation of the Minerals Plan. This may be indicative of a lack of any real demand for extraction sites within Manchester in favour of higher quality deposits further afield. There is currently a shortfall with regard to future sand and gravel extraction sites that benefit from any formalised proposals. It is also noted that there are no existing sand and gravel extraction sites within 10km of the site.

In the absence of any applications from land owners, the Greater Manchester Mineral Plan allocated sites that it considered may contain suitable reserves for future extraction (Mineral Safeguarding Areas) that it wishes to protect. It is noted that the site falls within the extents of a larger Mineral Safeguarding Area for sand and gravel. In selecting sites for mineral safeguarding, the plan indicates that playing fields attached to schools or colleges were exempt from Mineral Safeguarding along with other open spaces that may be of public value in line with the typology set out in PPG17 Annex: Definitions.

It is noted that the strategy aims to direct mineral development to avoid places with a sensitive natural or built environment or that are close to existing communities. It shall also bear consideration the potential of existing infrastructure/road networks to accommodate minerals related traffic and notes that new infrastructure for smaller scale reserves would be uneconomically viable.

The minerals plan sets a precedent that development sites within a mineral safeguarding area should extract any viable mineral resources present in advance of construction. Proposals for non-mineral development within the Mineral Safeguarding Areas that do not allow for the prior extraction of minerals will only be permitted where:

- The need for the development outweighs the need to extract the mineral;
- It can be clearly demonstrated that it is not environmentally acceptable or economically viable to extract the mineral prior to non-mineral development taking place;
- It can be clearly demonstrated that the mineral is either not present or of no economic value or too deep to extract in relation to the proposed development
- The development is limited or temporary and would not prevent minerals extraction taking place in the future.

The plan also takes into consideration that the prior extraction of mineral could delay essential development within the urban area.

Ground Conditions

The previous intrusive borehole investigation has identified that the site is predominantly underlain by topsoil over natural granular deposits. Copies of the borehole logs are included in **Appendix C.**

Topsoil was encountered across the site and comprised dark brown slightly gravelly sand that extended to a maximum depth of 0.40mbgl.

The topsoil was generally immediately underlain by medium dense to dense brown slightly gravelly sand/ light greyish brown gravelly sand. The base of the sand and gravels was not encountered in any of the boreholes due to shallow SPT refusals. However, reference to the BGS online map viewer has identified that these deposits likely extend to depths of between 2.50m and 5.50mbgl based on borehole records adjacent to the southern part of the site.

A suspected localised clay pocket was identified in WS07 from 1.40mbgl which comprised light brown slightly gravelly sandy clay.

Groundwater was encountered in some boreholes at depths of between 1.00m and 2.00mbgl. This is considered to be representative of a shallow groundwater table beneath the site. Please note that the investigation techniques used were rapid and may have masked groundwater seepages in other boreholes where groundwater was not readily observed.

Conclusions

Review of all of the above information has highlighted that the site is not suitable for sand and gravel extraction for a number of reasons.

It is not clear why the site has been earmarked as a mineral safeguarding area when it has an established use as a public open space/recreation area. This would appear to be in contradiction to the mineral plan which states that these areas should be exempt as set out in PPG17 guidance. In addition the development proposal is seeking to enhance and improve on the existing facilities at the site. Local Authority playing pitch strategy has indicated that there is a need for the proposed enhancement. Artificial pitches usually require refurbishment circa every 10 years. As such, the proposed development would only temporarily sterilise sand and gravel reserves beneath it. There would always be opportunity to reassess the potential need for prior extraction beneath the site at 10 yearly intervals if required.

The mineral plan has stated that sand and gravel reserves in Greater Manchester are typically of poor quality. This has been partially evidenced by limited borehole investigation at the site which also noted the shallow deposits to sometimes be variable in nature. Consultation during the preparation of the mineral plan returned no interest with new proposals for sand and gravel extraction within the Greater Manchester area or indeed, the site itself. Despite there being a shortfall in reserves, the sand and gravel deposits are not considered to be of any significant economic importance and unlikely to be extracted. It is considered that much more sustainable alternatives are available for the area such as the use of recycled aggregates instead of extracting poor quality depsoits.

The Mineral Safeguarding area that encompasses the site is relatively small scale when compared with other sand and gravel reserves in the Greater Manchester area. It is likely that an extractor would opt for a site with larger reserves if going to the effort of setting up a new extraction area. It is more likely (and more sustainable) for extractors to extend existing sand and gravel extraction areas rather than set up new extractions. The site is only accessible via an existing residential estate. It is not considered that it would be desirable or acceptable to allow transport vehicles through the residential estate due to the impact to local amenity. There is currently no direct access from the site to the M60 immediately to the south. As such a new access would need to be constructed which is considered to be economically unviable, especially give the relative small scale of the reserves available.

In light of the above it is considered that the site does not pose a significant risk of sterilisation of a potential sand and gravel resource within a mineral resource area and planning permission for the proposed development should be approved in this regard.

A copy of this report should be provided to the Local Authority for review, comment and approval.

We trust the above is sufficient for your purposes. Should you have any queries, or require any further information, please do not hesitate to contact us.

Yours Sincerely

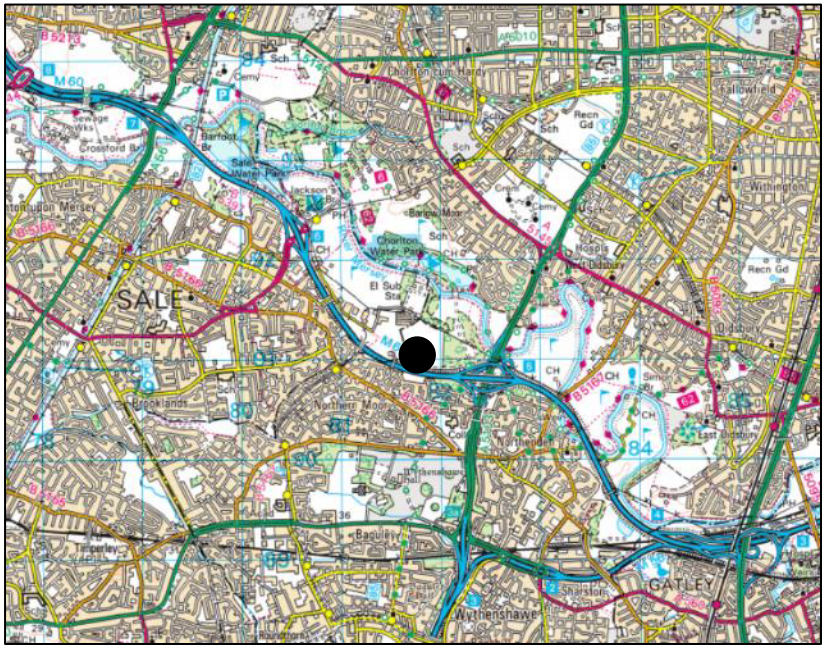


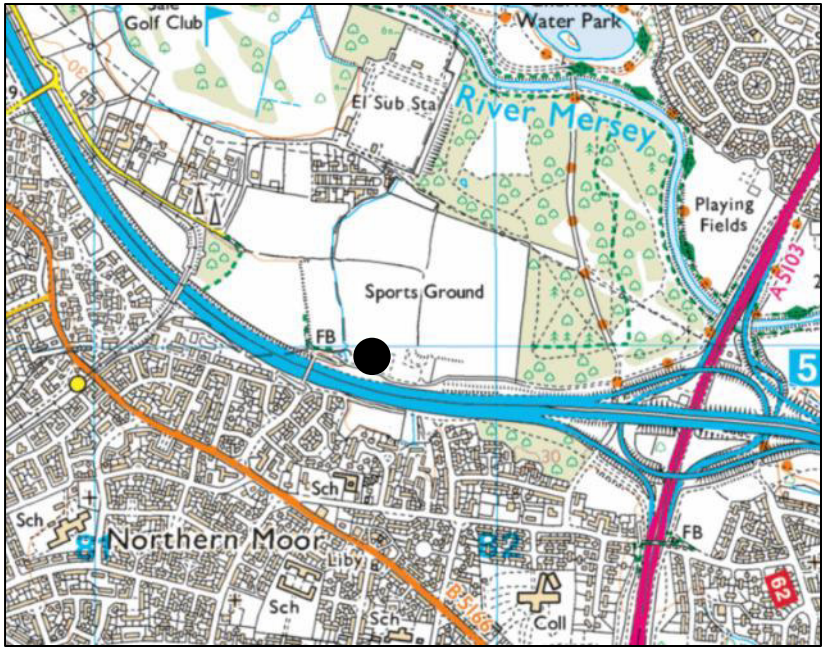
Phil Devitt, BSc MSc MRICS
Director

Encl.
Appendix A – Site Plans
Appendix B – Greater Manchester Joint Minerals Plan – (Map 1, Map 12 and Map 22)
Appendix C – Erda Associates Ltd. Previous Borehole Records & Plan

Appendix A







KEY:

● Approximate Site Location

DO NOT SCALE

Erda Associates ltd

TITLE:

Site Location Plan

PROJECT:

Wythenshawe Sport Ground

PROJECT No:	DATE:
EAL.454.24	05/2025

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 1



KEY:

Site Boundary

DO NOT SCALE

Erda Associates ltd

TITLE:

Site Layout

PROJECT:

Wythenshawe Sport Ground

PROJECT No:	DATE:
EAL.454.24	05/2025

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 2



KEY:

Proposed Artificial Pitch

DO NOT SCALE

erda Associates ltd

TITLE:
Indicative Development Plan

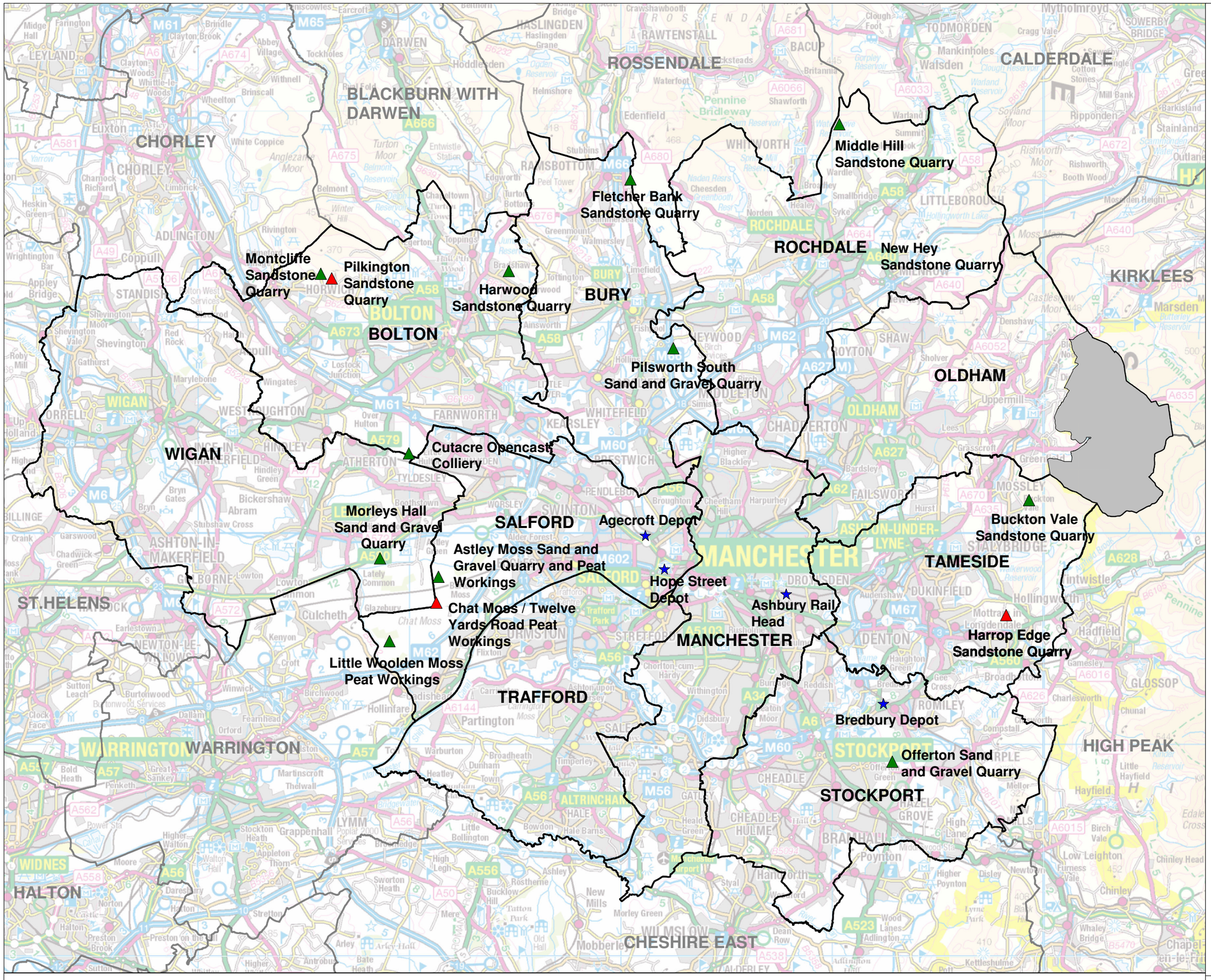
PROJECT:
Wythenshawe Sport Ground

PROJECT No:	DATE:
EAL.454.24	05/2025

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 3

Appendix B





Greater Manchester Districts

Neighbouring District Boundaries

Peak District National Park - although located within Oldham it is not part of the Minerals Plan area

Inactive Mineral Extraction Sites

Active Mineral Extraction Sites

Rail Depots

Inactive sites are those which have not been worked at any point within the previous year. In this case January - December 2010.

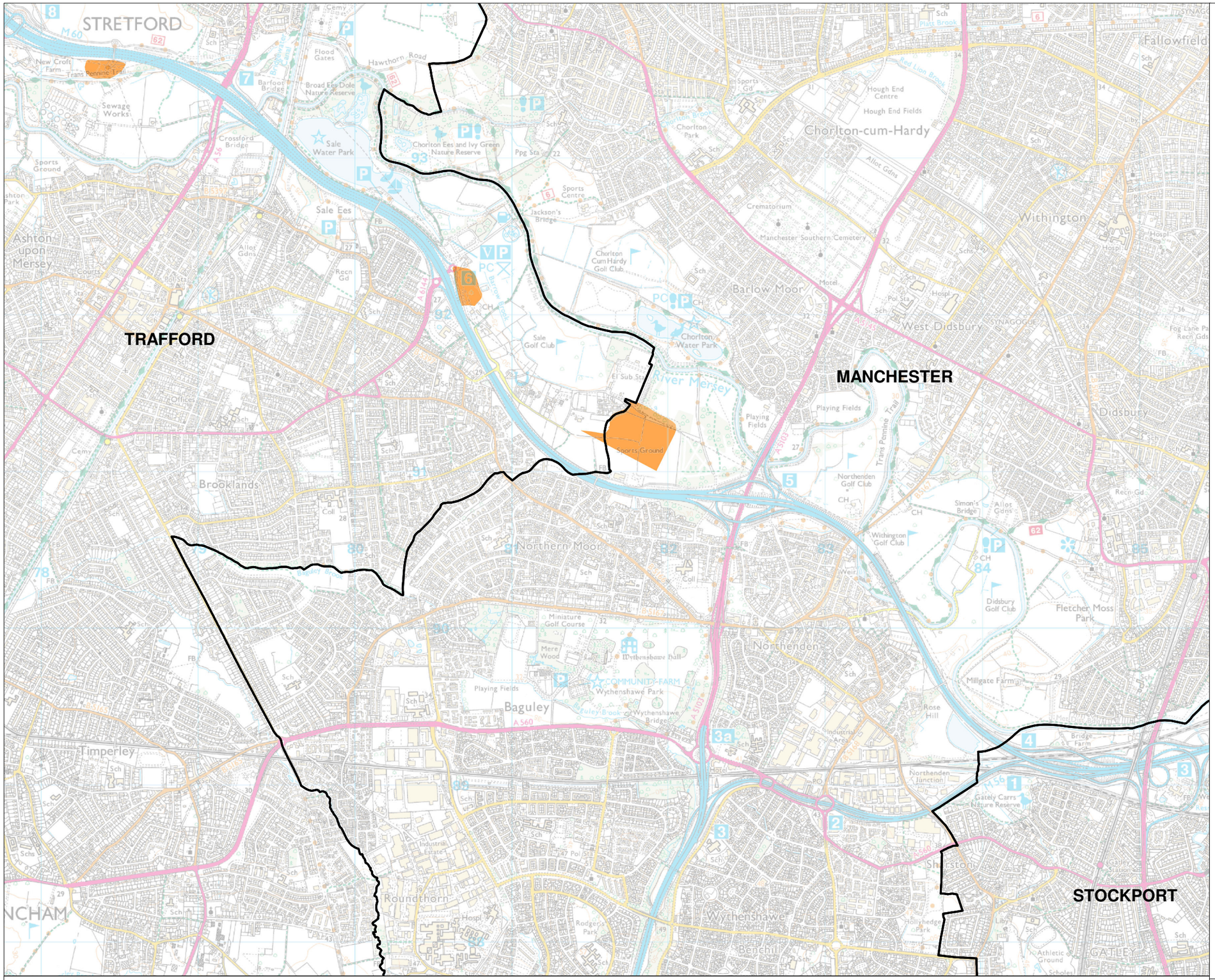
The following quarries have been identified by the English Heritage BGS Strategic Stone Study (SSS) as being important for maintaining and repairing historic buildings:

Buckton Vale
Harwood Quarry
Fletcher Bank Quarry
Middle Hill Quarry
Montcliffe Quarry

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Scale @ A3
1cm = 1.85km

Map 1 - Existing Quarries with planning permission and Rail Depots used for minerals transportation within Greater Manchester



Neighbouring District Boundaries

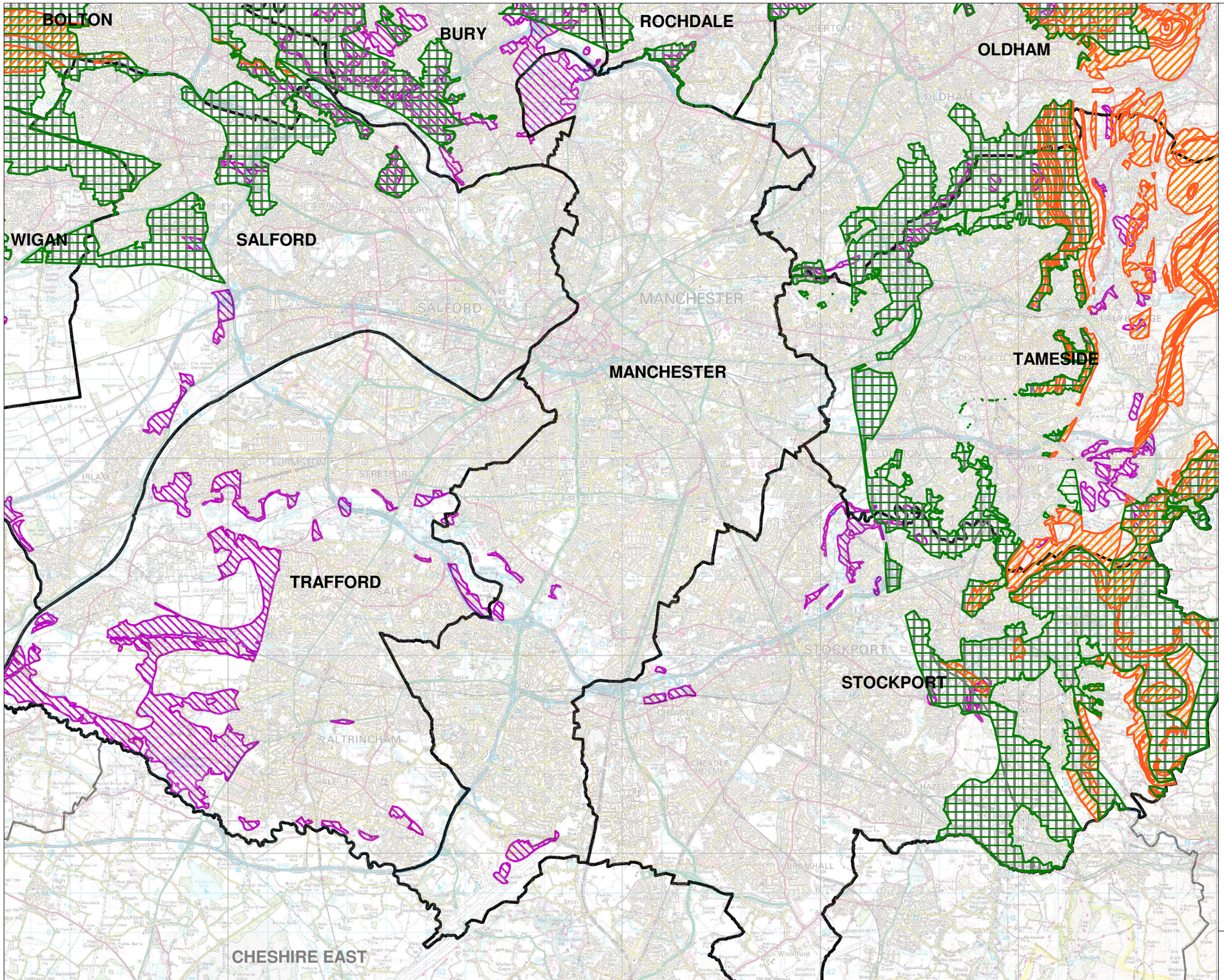
Greater Manchester District Boundaries

Area of Search for Gravel

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Scale @ A3
1cm = 0.25km

Map 12 Areas of Search for Aggregates in Manchester



Greater Manchester Disctricts

Neighbouring District Boundaries

Mineral Safeguarding Area for Coal

Mineral Safeguarding Area for Sand and Gravel

Mineral Safeguarding Area for Brick Clay

Mineral Safeguarding Area for Sandstone

MAP 22 MANCHESTER

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Scale @ A3
1cm = 1km

All Mineral Safeguarding Areas in Manchester

Appendix C





KEY:

WS Borehole

DO NOT SCALE

Erda Associates ltd

TITLE:

Exploratory Hole Location Plan

PROJECT:

Wythenshawe Sport Ground

PROJECT No:	DATE:
EAL.454.24	05/2025

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 4

Dynamic (Windowless) Sampler

WS01
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.20	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		0.70	D			(0.90)		Dense brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.00	SPT(C)	N=35 (5,7/7,8,10,10)		1.20		
		1.80	SPT(C)	N=50 for 265mm (9,11/12,14,14,10 for 40mm)		(0.60) 1.80		Dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.80	D					*End of Borehole at 1.80m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.80m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS02
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		1.00 1.10	SPT(C) D	N=41 (5,9/9,10,10,12)		(1.20)		Dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.50	SPT(C)	N=50 for 265mm (7,10/11,14,16,9 for 40mm)		1.50		*End of Borehole at 1.50m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.50m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS03
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.30	ES			(0.40) 0.40		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		0.90 1.00	D SPT(C)	N=43 (4,10/10,10,11,12)		(1.20)		Dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.70	D			1.60 (0.40)		Dense light greyish brown gravelly SAND. Gravel is fine to coarse rounded to sub-rounded quartzite.
		2.00	SPT(C)	N=50 for 265mm (5,10/12,14,16,8 for 40mm)		2.00		*Groundwater encountered from 1.60mbgl. (1.60m)* *End of Borehole at 2.00m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 2.00m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Dynamic (Windowless) Sampler

WS04
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.20) 0.20		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		0.30	ES					Medium dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		0.80	D					
		1.00	SPT(C)	N=23 (2,3/4,4,6,9)		(1.80)		
		1.50	D					*Wet strata noted from 1.50mbgl. (1.50m)*
		2.00	SPT(C)	N=50 for 295mm (5,7/10,11,14,15 for 70mm)		2.00		*. . . becoming dense from 2.00mbgl.*
								End of Borehole at 2.00m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 2.00m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS05
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.20	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		1.00	SPT(C)	N=41 (4,5/9,10,11,11)		(1.30)		Dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.30	D					
		1.60	SPT(C)	N=50 (2,7/10,13,13,14)		1.60		*Groundwater encountered at 1.60mbgl.*
								End of Borehole at 1.60m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.60m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS06
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.10	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		0.70	D					Dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.00	SPT(C)	N=31 (3,4/7,7,8,9)		(1.50)		
		1.80	SPT(C)	N=50 for 265mm (5,7/11,14,16,9 for 40mm)		1.80		*End of Borehole at 1.80m*
		1.90	D					

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.80m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Dynamic (Windowless) Sampler

WS07
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	12.05.25	12.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.20	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		1.00	SPT(C)	N=24 (5,6/6,6,7,5)		(1.10)		Medium dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.70	D			1.40 (0.40)		Firm light brown slightly gravelly sandy CLAY. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.80	SPT(C)	N=50 for 175mm (5,10/15,17,18 for 25mm)		1.80		*End of Borehole at 1.80m*

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.80m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS08
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	13.05.25	13.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.20) 0.20		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
						(0.80)		Dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.00 1.00	SPT(C) D	N=50 for 40mm (10,15/50 for 40mm)		1.00		*End of Borehole at 1.00m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.00m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS09
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	13.05.25	13.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.20	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		0.80	D			(0.80)		Medium dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.00	SPT(C)	N=25 (4,5/5,5,6,9)		1.10		
		2.00	SPT(C)	N=50 for 265mm (8,9/11,14,16,9 for 40mm)		(0.90) 2.00		Medium dense yellowish brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone. *Groundwater encountered from 1.26mbgl. (1.26m)* *. . . becoming dense from 2.00mbgl.* *End of Borehole at 2.00m*
		2.00	D					

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 2.00m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

Created using Pebble Geo

Dynamic (Windowless) Sampler

WS10
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	13.05.25	13.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.20	ES			(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		1.00	SPT(C)	N=18 (1,3/4,4,5,5)		(1.40)		Medium dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		1.00	D					*Groundwater encountered from 1.08mbgl. (1.08m)*
		1.50	D					
		1.70	SPT(C)	N=50 for 235mm (9,11/14,14,16,6 for 10mm)		1.70		*. . . becoming dense from 1.70mbgl.*
								End of Borehole at 1.70m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.70m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

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Dynamic (Windowless) Sampler

WS11
Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
WLS				1:50

Project Name	Project No.	Start Date	End Date
Wythenshawe Sport Ground Football Hub	EAL.454.24	13.05.25	13.05.25

Client
Surfacing Standards Ltd.

Consultant
P. Devitt

Contractor
Erda Associates Ltd.

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.30) 0.30		Dark brown slightly gravelly sandy TOPSOIL. Gravel is fine to coarse rounded to sub-rounded quartzite.
		0.40	ES			(0.70)		Medium dense brown slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular quartzite and sandstone.
		0.90 1.00	D SPT(C)	N=50 for 190mm (7,11/14,16,20 for 40mm)		1.00		*. . . becoming dense from 1.00mbgl.* *Groundwater encountered at 1.00mbgl.* *End of Borehole at 1.00m*

Remarks
Terminated due to SPT refusal.

Method, Plant, Stability, Dimensions
0.00 - 1.00m WLS Premier 110
Stable

Logger
P Devitt

Checked By: PD **Approved By:** PD **Status:** FINAL

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