

Date: 24th June 2024
Reference: 11-778 V28

GARDEN VALIDATION – ROYLE ROAD

Project Name:	Royle Road
Project Number:	11-778
Client:	Countryside Partnerships
Date:	20-06-2024
Project Manager & Qualifications:	A. Garrity
E3P Engineer & Qualifications:	G. Calvert
Plots:	20 and 176

OVERVIEW

An E3P engineer attended the above site to validate the thickness of the cover system placed within the rear garden of plots 20 and 176 at the site Royle Road, Rochdale.

Two hand excavated trial pits were advanced, with the resulting strata detailed at the rear of this letter.

All trial pits were completed to highlight the required cover system of 600mm (150mm topsoil and 450mm subsoil).

E3P can confirm that our independent validation demonstrates that all gardens have been installed with 150mm of certified topsoil and at least 450mm subsoil under the NHBC requirements for a site of this nature.

A list of plots requiring validation and their associated validation letters is presented in Table 1 for reference.





TOPSOIL

E3P attended the site on between February 2023 and May 2024 to obtain 39 samples of the stockpiled topsoil deposits which were analysed in accordance the E3P Remediation Strategy.

Chemical analysis confirmed that these topsoil deposits were chemically suitable for use within the proposed garden areas.

The topsoil has been imported from Summerhill Farm, Maghull, Roundhill Gardens, Congleton and Lower Road, Halewood, all greenfield sites.

Analysis for topsoil undertaken by I2 Analytical Laboratory and Eurofins Chemtest Laboratory using UKAS accredited methods where applicable.

The chemical analysis suite comprises heavy metals, sulphates, phenols, speciated Polycyclic Aromatic Hydrocarbons (PAHs), speciated and total Petroleum Hydrocarbons (TPH) and asbestos. Sampling frequency following the agreed Remediation Strategy. Laboratory analysis certificates are attached to this validation certificate.

All chemical analysis results are attached to this letter.

SUBSOIL

E3P attended the site between December 2022 and May 2024 to obtain 27 samples of the stockpiled subsoil deposits which were analysed in accordance with the E3P Remediation Strategy. Chemical analysis confirmed that these subsoil deposits were chemically suitable for use within the proposed garden areas.

The subsoil has been imported from Marchington Stone Quarry, Glossop a greenfield site.

Site won naturally occurring sands have also been utilised as subsoil.

Analysis for subsoil undertaken by I2 Analytical Laboratory and Eurofin Chemtest Laboratory using UKAS accredited methods where applicable.

The chemical analysis suite comprises heavy metals, sulphates, phenols, speciated Polycyclic Aromatic Hydrocarbons (PAHs), speciated and total Petroleum Hydrocarbons (TPH) and asbestos. Sampling frequency following the agreed Remediation Strategy. Laboratory analysis certificates are attached to this validation certificate.

All chemical analysis results are attached to this letter.



CHEMICAL ANALYSIS

The cover system validation photographs are enclosed within this letter. For information, Table 1 provides a summary of all chemical analysis undertaken for the topsoil and subsoil.

TOPSOIL/SUBSOIL	SOURCE	LAB REFERENCE	SAMPLE REFERENCE	PASS/FAIL
Topsoil	off-site	23-18183	TS101 – TS103	Pass
Subsoil	off-site	23-18179	SS101 – SS103	Pass
Topsoil	off-site	23-30437	TS104 – TS106	Pass
Subsoil	on site	22-13385	SS101 – SS103	Pass
Topsoil	off-site	23-34765	TS107 – TS109	Pass
Topsoil	off-site	23-35593	TS110 – TS112	Pass
Topsoil	off-site	23-41042	TS113 – TS115	Pass
Topsoil	off-site	23-44707	TS116 – TS118	Pass
Subsoil	off-site	23-56111	SS107–SS112	Pass
Topsoil	off-site	23-54569	TS101–TS103	Pass
Subsoil	off-site	23-50111	SS104 – SS106	Pass
Topsoil	off-site	23-50111	TS119 – TS121	Pass
Topsoil	off-site	23-73361	TS101 – TS103	Pass
Subsoil	off-site	24-008247	SS101 – SS103	Pass
Topsoil	off-site	24-78757	TS101-TS103	Pass
Subsoil	off-site	24-79200	SS101 - SS103	Pass
Topsoil	off-site	24-008246	TS101 – TS103	Pass
Topsoil	off-site	24-11934	TS101 – TS103	Pass
Subsoil	off-site	24-13743	SS201 – SS203	Pass
Topsoil	off-site	24-14804	TS101 – TS103	Pass
Subsoil	off-site	24-14782	SS101 – SS103	Pass



Garden Cover System Validation

Complete

Score	20 / 24 (83.33%)
Site Name	Royle barn road
Location	1 Royle Road Rochdale England OL11 3ET United Kingdom (53.60167183720014, - 2.173308721536145)
Project Number	11778
Developer	Vistry
Project Manager	Andy Garrity
Conducted By	Georgia Calvert
Date of visit	20 Jun 2024 10:33 AM BST



Subsoil/Topsoil Material Source (If the site manager can't supply you with detail of where the soil is sourced STOP THE INSPECTION and call the PM)

Where has the Subsoil been sourced

Marchington Stone Quarry

Where has the Topsoil been sourced

Halewood



Plot Validation	20 / 24 (83.33%)
Plot Validation	20 / 24 (83.33%)
Plot Validation 1	6 / 6 (100%)
Plot Number	20
Is Plot Ready	Yes
Installation Standard	Pass
Depth of Cover System Materials (record the depth and support with Photo down the hole)	600
 Photo 1	
Depth of Topsoil (mm)	150
Depth of Subsoil (mm)	450
Depth of Cover System at Ground Level (Photo)	
 Photo 2	
Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)	
 Photo 3	
Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos.	Yes
Geotextile membrane present	N/A



Plot Validation 4		6 / 6 (100%)
Plot Number		176
Is Plot Ready	Yes	
Installation Standard	Pass	
Depth of Cover System Materials (record the depth and support with Photo down the hole)		600
  Photo 15 Photo 16		
Depth of Topsoil (mm)		150
Depth of Subsoil (mm)		450
Depth of Cover System at Ground Level (Photo)		✕
 Photo 17		
Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)		✕
  Photo 18 Photo 19		
Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos.		Yes
Geotextile membrane present		N/A
Site Manager or Representative		
Name		Mark
Signature		



A handwritten signature in black ink, consisting of the letters 'M' and 'B' joined together in a stylized, cursive-like font.

20 Jun 2024 11:23 AM BST



Media summary



Photo 1



Photo 2



Photo 3



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19