

14092/RJH

15 September 2023

Lovell Partnerships Ltd
Greenmeadow Business Park
Unit 5
Cae Gwyrdd
Cardiff
CF15 7AB

For the attention of Mr Neil Thomas

Dear Sirs,

Former Whiteheads Steelworks, Mendalgief Road, Newport, NP20 2HY
NHBC Outstanding Land Quality Conditions, Ref: 216335 LQ conditions LQ5 & LQ6.
Planning Permission Number RM1-18/1039, RM2-18/1142 and RM3-21/0464
Validation of Imported Clean Cover Plots 82 to 84.

Intégral Géotechnique were appointed by the Lovell Partnerships Limited to carry out the clean cover validation inspections to soft landscaped and garden areas within the above development as the site build program progresses. We can report the clean cover soil validation works within the above development site as follows.

This report (including all appendices to it and any subsequent addendums or correspondence) has been prepared for the sole benefit, use and information of the Lovell Partnerships Limited and no third party is entitled to rely on it. This report may not be used, reproduced or circulated (in whole or part) for any purpose without the written consent of Intégral Géotechnique (Wales) Limited. Intégral Géotechnique (Wales) Limited shall not be liable to any third party who does not have such written permission to rely on the report for any losses they may suffer.

This information is submitted in support of the discharge of conditions of the following consents and/or warranties.

Regulator	Reference
Local Authority Planning Permission Number	RM1-18/1039, RM2-18/1142 and RM3-21/0464
NHBC outstanding Land Quality Conditions Ref	216335 LQ conditions LQ5 & LQ6

The required remedial measures regarding the requirement to mitigate land contamination risks at the above site comprise the placement of a clean 600mm capping layer to be incorporated within the soft landscaped and garden areas of the new development. This capping layer is to be underlain by a Hi-Visibility Geotextile Membrane.

Remedial Strategy Requirements (Clean Capping Layer)

1. The upper 600 mm of fill used in the clean capping layer in all garden and soft finished areas are to be chemically tested and UKAS accredited laboratory analysis certificates supplied. The capping system is to comprise of imported clean inert materials conforming to the Requirements for the Chemical Testing of Imported Materials for Various End Uses and Validation of Cover Systems prepared by Welsh Land Contamination Working Group and to satisfy appropriate soil guideline values for residential developments with gardens. Samples of the topsoil and subsoil will be taken for laboratory analysis, at a frequency of 1 in every 4 gardens.
2. Topsoil brought to the site will require a laboratory analysis certificate confirming its suitability for use and sampling prior to placement to confirm its chemical suitability (minimum of three samples per source).
3. Subsoil will require a laboratory analysis certificate confirming its suitability for use and sampling prior to placement to confirm its chemical suitability (minimum of three samples per source).
4. Following placement of the imported topsoil and subsoil within garden areas, a validation trial pit excavation depth check will be undertaken at a frequency of 1 in 4 plots, so as to confirm the sufficient depth of the clean capping layer, along with observation of a Hi-Visibility Geotextile Membrane placed at the base of the capping soils.

An additional sample of topsoil and subsoil will also be taken from each trial pit excavated to further confirm the chemical quality of the topsoil and subsoil on an ongoing basis.

Validation of Clean Capping Layer to Plots 82 to 84

An engineer from Intégral Géotechnique attended site on 13th September 2023 and observed a preinstalled inspection tube for validation purposes within the above garden areas of plots 83 and 84. Measurements undertaken indicated sufficient space for an infill of topsoil to bring the capping layer up to at least 600mm finished required depth. The inspection tube placed within plots 83 and 84 also revealed the Hi-Visibility Geotextile Membrane placed at the base of the capping soils.

Plot 82 rear garden was found to be dressed with subsoil and sufficient topsoil to required finished levels. The topsoil resembled a cohesive silty clay strata and was underlain by a subsoil material found to be a granular material comprising a medium dense becoming dense orangish brown and brown very sandy clayey gravel with medium cobble content.

Various photographs of capping depths and infilled constructed gardens are shown in Figures.

Representative samples of the 'as placed' topsoil and subsoil soil materials in the above garden areas inspected have been further, sampled and sent to the accredited laboratories of i2 Analytical for chemical analysis.

The soil analysis reports are unavailable at this time and will follow in further correspondence when available.

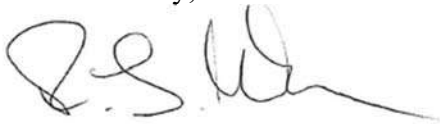
Conclusion

This report based on the above information, therefore confirms that the final remediation works regarding the 600mm capping layer required for plots 82 to 84 is complete.

Provision of clean cover to the remaining plots at site and at the required inspection frequency will be provided in due course.

We trust that the above is to your satisfaction. However, if you have any queries or require any further information, please do not hesitate to contact us.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. J. Hawkins', with a long horizontal flourish extending to the right.

Roger J Hawkins
For
Intégral Géotechnique (Wales) Limited

Figures.

FIGURES



Plot 83 and 84 Capping Depth Check



Plot 83 and 84 Membrane Placement

14092: Remedial Capping Works to Gardens and Landscape Areas

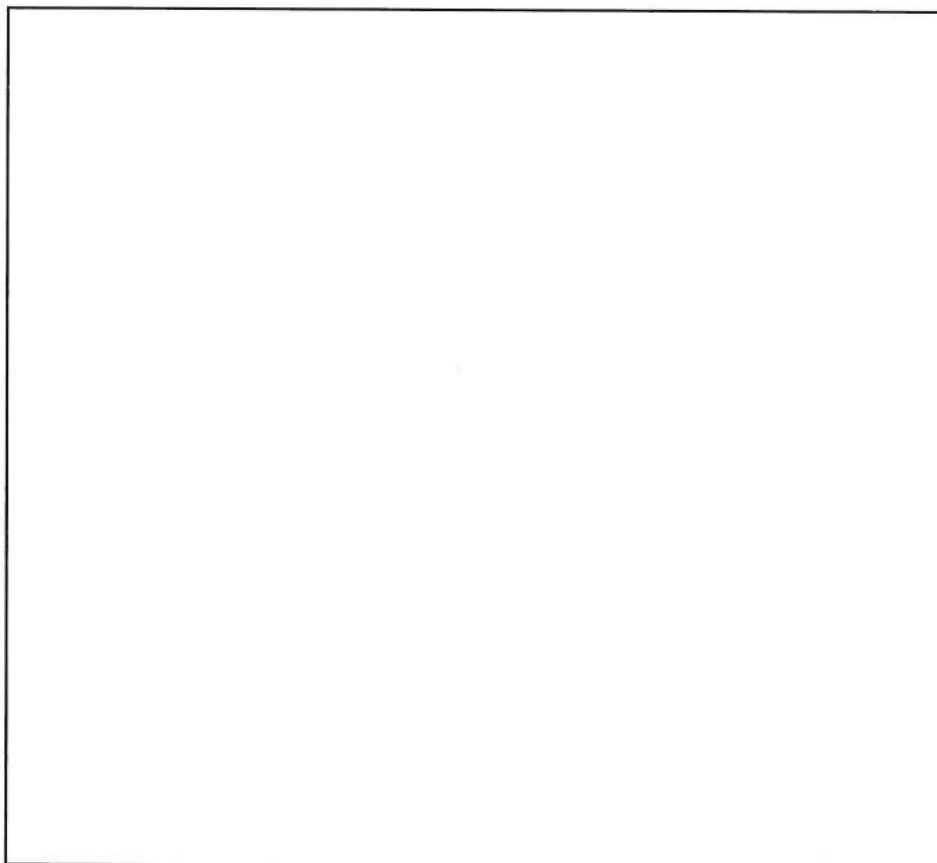
Former Whiteheads Steelworks, Mendalgief Road, Newport.

Intégral
Géotechnique

Integral House
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 20807991
Fax: 029 20862176



Plot 82 Infilled Rear Garden



Left Blank

**14092: Remedial Capping Works to Gardens and
Landscape Areas**

**Former Whiteheads Steelworks, Mendalgief Road,
Newport.**

Intégral
Géotechnique

Integral House
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 20807991
Fax: 029 20862176