

Appendix B – SI Results

Document Submittal Form

Mace Project:
Project Number:

ECMWF
39958

Document Ref: ECMWF-CGL-XX-WS-RP-L-000002

Revision: P01

Status: S2

Company Name: Card Geotechnics Limited - CGL

Title: Geotechnical Factual & Interpretive Report - Additional infiltration and site testing
(March 2024)

Classification: *(Select applicable classification)*

Revision History:

REV.	DATE	DESCRIPTION
P01	12/03/24	CGL Report

Template number:
Rev:





**GEOTECHNICAL &
GEOENVIRONMENTAL CONSULTANCY**

A PHENNA GROUP COMPANY

ECMWF-CGL-XX-WS-RP-L-000002 P01 S2

Official

Mace Construct Limited

ECMWF – New Headquarters, Reading

*Geotechnical Factual and
Interpretive Report*

Additional infiltration and site testing

Revision P01

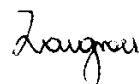
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000002*

March, 2024

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Reference	CGL/10078A	Revision 0	Issue Date 12/03/2024

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APPENDICES

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1. INTRODUCTION

Mace Construct Limited (“the Client”) has commissioned Card Geotechnics Limited (CGL) to undertake a geotechnical ground investigation at the European Centre for Medium Range Weather Forecasts (ECMWF), and to produce a Geotechnical Factual & Interpretative Report (GFIR) to provide recommendations for the proposed site redevelopment.

The following previous reports are completed for the site, copies of which have been made available to CGL:

- A Preliminary Sources Study Report, completed by Atkins in September 2019¹;
- A Ground Investigation Factual Report completed by Geotechnics Limited in February 2023², on behalf of Atkins; and,
- An interpretative Ground Investigation Report completed by Atkins in May 2023³.

Based on the above, CGL produced a Geotechnical and Geoenvironmental Factual and Interpretive Report⁴ for MACE dated September 2023.

The purpose of this report is to provide factual information and interpretation from the supplementary ground investigation undertaken to assess the permeability of the underlying geology and the feasibility of permeable paving and soakaways. The objectives of this report are to:

- Review the ground information based on the previous investigations;
- Present and review factual information from supplementary ground investigation undertaken in February 2024, including soakaway testing and California Bearing Ratio (CBR) testing results;
- Provide recommendation regarding in-situ testing CBR, pavement design and infiltration / permeability soil rates.

This report may be used to support a planning application and / or discharge of relevant conditions and inform detailed design aspects of the proposed development as required.

¹ Atkins (September 2019). ECMWF - New Headquarters Building; Preliminary Sources Study Report – Government Property Agency; Job Number: 5190142

² Geotechnics (February 2023). ECMWF New Headquarters Building – Factual Report. Ref. PC228496.

³ Atkins (May 2023). ECMWF - New Headquarters Building; Ground Investigation Report – Government Property Agency; ECW-ATK-XX-XX-RP-GE-81001

⁴ CGL (September 2023), ECMWF New Headquarters, Reading, GGFIR, Report reference: CGL/10078