

An aerial photograph of Gatwick Airport's northern runway and taxiway. The runway is a long, straight concrete strip with white markings, including the number '26' and the letter 'L'. Several aircraft are visible on the taxiway and runway. In the foreground, a large white Airbus A380 is taxiing. To its left, a smaller white aircraft is also taxiing. Further up the runway, a red and white EasyJet aircraft is visible. The surrounding area includes green grass, taxiway lights, and airport infrastructure like buildings and a control tower in the distance.

YOUR LONDON AIRPORT
Gatwick

Our northern runway: making best use of Gatwick

Preliminary Environmental Information Report
Appendix 18.6.2: Soil Survey Results
September 2021

Table of Contents

1	Introduction	1
2	Soil Survey Results	1
3	Glossary	2

1 Introduction

1.1 General

1.1.1 This document forms Appendix 18.6.2 of the Preliminary Environmental Information Report (PEIR) prepared on behalf of Gatwick Airport Limited (GAL). The PEIR presents the preliminary findings of the Environmental Impact Assessment (EIA) process for the proposal to make best use of Gatwick Airport's existing runways (referred to within this report as 'the Project'). The Project proposes alterations to the existing northern runway which, together with the lifting of the current restrictions on its use, would enable dual runway operations. The Project includes the development of a range of infrastructure and facilities which, with the alterations to the northern runway, would enable the airport passenger and aircraft operations to increase. Further details regarding the components of the Project can be found in the Chapter 5: Project Description.

1.1.2 This document provides the soil survey results for the Project.

2 Soil Survey Results

2.1 Colours

- dgb Dark grey brown
- gb grey brown
- yb yellowish brown

2.2 Others

- c clay
- hcl heavy clay loam
- fdom few distinct ochreous mottles
- cdom common distinct ochreous mottles
- mn manganese concretions
- SPL slowly permeable layer

Table 2.2.1: Auger Boring Descriptions

	Depth	Colour	Texture	Description	Wetness Class	Grade
1						
	0 - 22	dgb	c	cdom	IV	3b

	Depth	Colour	Texture	Description	Wetness Class	Grade
	22- 30	gb	c	cdom, mn		
	30 - 70+	gb	c	cdom, SPL		
2						
	0 - 24	dgb	c	cdom	IV	3b
	24 - 35	gb	c	cdom, mn		
	35 - 70+	gb	c	cdom, SPL		
3						
	0 - 23	dgb	c	cdom	IV	3b
	23 - 37	gb	c	cdom, mn (lots)		
	37 - 70+	gb	c	cdom, SPL		
4						
	0 - 23	dgb	c	cdom	IV	3b
	23 - 34	gb	c	cdom, mn (lots)		
	34 - 70+	gb	c	cdom, SPL		
5						
	0 - 24	dgb	c	cdom	IV	3b
	23 - 35	gb	c	cdom, mn (lots)		
	35 - 70+	gb	c	cdom, SPL		
6						
	0 - 22	dgb	c	cdom	IV	3b
	22 - 30	gb	c	cdom mm		
	30 - 60+	gb	c	thick cdom		
7						
	0 - 24	dgb	c	cdom	IV	3b
	23 - 35	gb	c	cdom, mn (lots)		

	Depth	Colour	Texture	Description	Wetness Class	Grade
	35 - 70+	gb	c	cdom, SPL		
8						
	0 - 23	dgb	c	cdom	IV	3b
	23 - 35	gb	c	cdom, mn (lots)		
	35 - 70+	gb	c	cdom, SPL		
9						
	0 - 24	dgb	c	cdom	IV	3b
	23 - 36	gb	c	cdom, mn (lots)		
	36 - 70+	gb	c	cdom, SPL		
10						
	0 - 24	dgb	hcl			
	24-30	yb	hcl	cdom		
	30- 60+	gb	c	cdom SPL	IV	3b
11						
	0 - 24	dgb	hcl			
	24-30	yb	hcl	cdom		
	30- 60+	gb	c	cdom, SPL	IV	3b
12						
	0 - 25	dgb	hcl			
	25-34	yb	hcl	cdom		
	34- 60+	gb	c	cdom, few mn, SPL	IV	3b
13						
	0 - 25	dgb	hcl	fdom		
	25-32	yb	hcl	cdom		
	32- 60+	gb	c	cdom, SPL	IV	3b
14						

	Depth	Colour	Texture	Description	Wetness Class	Grade
	0 - 25	dgb	hcl	fdom		
	25-32	yb	hcl	cdom		
	32-60+	gb	c	cdom SPL	IV	3b
15						
	0 - 24	dgb	hcl			
	24-33	yb	hcl	cdom		
	33-60+	gb	c	cdom, few mn, SPL	IV	3b
16						
	0 - 25	dgb	hcl			
	25-32	yb	hcl	cdom		
	32-60+	gb	c	cdom, few mn, SPL	IV	3b
17						
	0 - 24	dgb	hcl			
	24-30	yb	hcl	cdom		
	30-60+	gb	c	cdom, SPL	IV	3b
18						
	0 - 24	dgb	hcl			
	24-33	yb	hcl	cdom		
	33-60+	gb	c	cdom, few mn, SPL	IV	3b

Term	Description
fdom	Few distinct ochreous mottles
GAL	Gatwick Airport Limited
gb	Grey brown
hcl	Heavy clay loam
mn	Manganese concretions
PEIR	Preliminary Environmental Information Report
SPL	Slowly permeable layer
yb	Yellowish brown

3 Glossary

3.1 Glossary of Terms

Table 3.1.1: Glossary of Terms

Term	Description
c	Clay
cdom	Common distinct ochreous mottles
dgb	Dark grey brown
EIA	Environmental Impact Assessment