

REPORT NO TCSL 16/074

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REPORT ON PETROGRAPHIC EXAMINATION OF AGGREGATE

Client: Cullimores Mix Limited
Netherhills
Whitminster
Gloucestershire
GL2 7PD

Source of Material	Aston Keynes
Material Description	0/4 mm Aggregate
Date Received	26th January 2016
Requirements	To carry out a petrographic examination of an aggregate sample.
Date Test Started	3rd February 2016
Test Method	BS EN 923-3 : 1997
Results	See following pages

Signed:



Date of Issue: 19th February 2016

on behalf of Testing & Consultancy Services Ltd.

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Summary of Findings

Aggregate Property	Observations		
Advised Grading	N/A		
Aggregate Type	Limestone Sand		
Constituents	Major	Minor	Trace
	Limestone		Quartz Ironstone Chert fossil shell Quartzite

Simplified Petrographic Description of Aggregate - BS EN 932-3:1997 Visual Observations

Discrete Constituent	Particle Shape	Surface Texture	Coatings/ Encrustations	Grade
Limestone	Angular to Well Rounded	Rough to Smooth	Sporadic iron oxide staining	1
Ironstone	Sub angular to Well Rounded	Moderately Rough to Smooth	None	1
Fossil Shell	Rounded, Flaky	Smooth	None	1
Quartz	Angular to Rounded	Rough to Smooth	Rare Iron Oxide Staining	1
Quartzite	Angular	Rough	None	1
Chert	Angular to Subangular	Rough to Moderately Rough	None	1

Comments:

Based on UK experience, the above aggregate combination could be classified as having potentially normal alkali-silica reactivity in accordance with BRE Digest 330. However, we would recommend a full high-power microscopical examination of a representative portion of the sample to clarify the alkali-silica potential of the sample.

Notes:

Major > 10%, Minor 2<10%, Trace <2%

Grade 1 (fresh): unchanged from original state: Grade 11 (slightly weathered): slight discoloration, slight weakening:
Grade 111 (moderately weathered): considerably weakened, penetrative discoloration, large pieces cannot be broken by hand: Grade 1V (highly weathered): large pieces can be broken by hand, does not readily disaggregate (slake) when dry sample immersed in water: Grade V (completely weathered): considerably weakened, slakes, original texture apparent: Grade V1 (residual soil): soil derived by in situ weathering but retaining none of the original texture of fabric.