

NO: SAMM 254

(Issue 3, 24 March 2011 replacement of SAMM 254 dated 6 October 2010)

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LABORATORY LOCATION:

GEOLAB (M) SDN BHD 380-380A, JALAN SIMBANG

TAMAN PERLING, 81200 JOHOR BAHRU

JOHOR, MALAYSIA

The standard used for assessment of this laboratory is MS ISO/IEC 17025:2005

FIELD OF TESTING: CHEMICAL

SCOPE OF ACCREDITATION:

Materials/Products <u>Tested</u>	Type of test/ Properties measured/ Range of measurement	Standard Test Methods/Equipment/Techniques
Groundwater and surface water	Dissolved oxygen	BS 6068: Section 2.3: 1984 ISO 5813 –1983
	Ammonium nitrogen	BS 6068: Section 2.7: 1984

3	ISO 5664 - 1984
Chemical oxygen demand	BS 6068: Section 2.34: 1989
Suspended solids	BS 2690: Part 120: 1981
Dissolved solids	BS 2690: Part 121: 1981

Bicarbonate and carbonate ions ASTM D 523 - 82 ASTM D513-82

Oil and grease ASTM D 4281 - 83 ASTM D4281-89

Chloride BS 6068: Section 2.37: 1990 ISO 9297: 1989

Sulphate BS 1377: Part 3: 1990: 5

Total Chlorine BS 6068: Section 2.27: 1990 ISO 7393-3: 1990

pH Value BS 1377: Part 3: 1990: 9



— SKIM AKREDITASI MAKMAL MALAYSIA (SAMM) — LABORATORY ACCREDITATION SCHEME OF MALAYSIA



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FIELD OF TESTING: CHEMICAL

SCOPE OF ACCREDITATION:

Materials/Products	Ty
Tested	Pr
	Ra

Type of test/
Properties measured/
Range of measurement

Standard Test

Methods/Equipment/Techniques

Soil Sulphate BS 1377: Part 3: 1990: 5

Organic matter BS 1377: Part 3: 1990: 3

Chloride BS 1377: Part 3: 1990: 7
pH Value BS 1377: Part 3: 1990: 9

Aggregates Sulphate BS 812: Part 118: 1988

Chloride BS 812: Part 117: 1988

pH value BS 1377: Part 3: 1990: 9

Signatory:

Ahmad Zamani bin Ab. Halim IKM No. A/2539/5222/2007





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FIELD OF TESTING:

SCOPE OF ACCREDITATION: MECHANICAL

Materials/Products <u>Tested</u>	Type of test/ Properties measured/ Range of measurement	Standard Test Methods/Equipment/Techniques
Aggregates	Clay, silt and dust	BS 812: Part 1: Clause 7.2: 4: 1975
	Relative densities and water absorption	BS 812: Part 2: Clause 5 1975
	Soundness of aggregates	ASTM C88-90
	Flakiness Index	BS 812: Section 105.1: 1989
	Elongation Index	BS 812: Section 105.2: 1990
	Aggregate crushing value	BS 812: Part 110: 1990
	Ten percent fines value	BS 812: Part 111: 1990
	Particle size distribution	BS 812: Part 103: 1985
	Aggregate impact value	BS 812: Part 112: 1990
Soil	Maximum dry density / Moisture content relationship	BS 1377: Part 4: 1990
Bitumen	Thickness or height of compacted bituminous paving mixtures specimen	ASTM: D 3549 - 83





Schedule

Issue date: 24 March 2011 Valid until: 10 September 2011

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FIELD OF TESTING:

SCOPE OF ACCREDITATION: MECHANICAL

Materials/Products Type of test/
Properties measured/
Range of measurement

Concrete

Standard Test Methods/Equipment/Techniques

Initial Surface Absorption

rete ASTM C1202-92

Electrical Indication of Concrete Ability to Resist Chloride Ion

Penetration

BS 1881:Part 114:1983

BS 1881:Part 208:1999

Specific Gravity, Absorption and Voids in Hardened Concrete

Water Absorption of Concrete

ASTM C 642-97

Compressive Strength of Test

Specimens

BS EN 12390-3:2009

Density of Hardened Concrete

BS EN 12390-7:2009

Signatories:

1. Ir Koo Kean Siang I/C No.: 611213-07-5683

2. Lim Kean Hong I/C No.: 771011-02-5613

3. Katit binti Dalik I/C No.: 800201-01-5408

4. Mohd. Sulaiman bin Omar I/C No.: 850928-01-5391





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FIELD OF TESTING:

SCOPE OF ACCREDITATION: MECHANICAL

Materials/Products <u>Tested</u> Geotechnical	Type of test/ Properties measured/ Range of measurement	Standard Test Methods/Equipment/Techniques
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Soil	Moisture content	BS 1377: Part 2: 1990: Clause 3
	Liquid limit : One Point Cone Penetrometer Method	BS 1377: Part 2: 1990: Clause 4.4
	Plastic limit and Plasticity Index	BS 1377: Part 2: 1990: Clause 5
	Particle density : Small Pyknometer Method	BS 1377: Part 2: 1990: Clause 8.3
	Particle size distribution : Wet sieving, dry sieving and sedimentation by Hydrometer Method	BS 1377: Part 2: 1990: Clause 9.2, Clause 9.3 & Clause 9.4

Signatories:

1. Ir. Koo Kean Siang I/C No.: 611213-07-5683

2. Lim Kean Hong I/C No.: 771011-02-5613

3. Siti Zalipah binti Jumary I/C No.: 790908-10-5910

