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820 WILLOW STREET
MANKATO MN 56001-3356
USA

Analysis No.	TS-S&T01485
Report Date	23 March 2016
Quarry/Fabricator	Same
Date Sampled	08 March 2016
Where Sampled	Mankato, MN USA
Sample Received	10 March 2016
Sampled By	Client

This is to attest that we have examined Natural Stone identified: Cobalt Black Granite

When examined to the applicable requirements of:

ASTM C 97-15	"Standard Test Method for Absorption and Bulk Specific Gravity of Dimensional Stone"
ASTM C 99-15	"Standard Test Method for Modulus of Rupture of Dimensional Stone"
ASTM C 170-15	"Standard Test Method for Compressive Strength of Dimensional Stone"
ASTM C241-15	"Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic"
ASTM C 880-15	"Standard Test Method for Flexural Strength of Dimension Stone"

The material has the following average properties:

Average % Absorption	0.14
Average Bulk Specific Gravity	178.1 lbs/ft ³ 2 855 kg/m ³

Modulus of Rupture Perpendicular	Dry	2 700 psi
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Compressive Strength Perpendicular	Dry	26 800 psi
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Abrasion Resistance	28.7 Ha
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¹NOTE: For Igneous Samples we run ASTM C 241 for Sedimentary and Metamorphic Samples we run ASTM C 1353

Flexural Strength Perpendicular	Dry	2 400 psi
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END OF ANALYSIS

The attached Report of Test is an integral portion of this Summation Certificate.

Merrill Gee P.E. – Engineer in Charge