

SLAKE DURABILITY INDEX (SDI) TEST SUMMARY (ASTM D4644)



Client: Stantec Consulting Services, inc.
Project: GAL- SR 160 - 14.33 Landslide
Location: Vinton County, OH

Date: 7/10/2025
Project Number: N4255088

Boring No.	B-001-0-25
Depth (ft)	43.0
Tare Weight:	843.7
Moist weight (Sample+Tare):	1630.20
Dry weight (Sample+Tare):	1620.52
Natural Moisture Content (%):	1.2

After Cycle No. 1

Temperature (°F)			Dry Weight (Sample+Tare)
Start	End	Average	
73.6	73.9	73.8	1605.7

After Cycle No. 2

Temperature (°F)			Dry Weight (Sample+Tare)
Start	End	Average	
72.3	74.7	73.5	1588.0

SLAKE DURABILITY INDEX: 95.8

Fragments Retained - Type: I



Before Test



After Test

Material Description: SHALE

Notes/Comments:

Boring No.	B-004-1-25
Depth (ft)	30.0
Tare Weight:	840.4
Moist weight (Sample+Tare):	1505.8
Dry weight (Sample+Tare):	1488.9
Natural Moisture Content (%):	2.6

After Cycle No. 1

Temperature (°F)			Dry Weight (Sample+Tare)
Start	End	Average	
73.6	73.8	73.8	1479.1

After Cycle No. 2

Temperature (°F)			Dry Weight (Sample+Tare)
Start	End	Average	
72.3	74.1	74.1	1474.7

SLAKE DURABILITY INDEX: 97.8

Fragments Retained - Type: I



Before Test



After Test

Material Description: SANDSTONE

Notes/Comments: