

BOWSER-MORNER, INC. - CONSTRUCTION MATERIALS LABORATORY

2007a Laboratory Testing Fees - Mineral Aggregates

AASHTO/ISO 17025 ACCREDITED

Miscellaneous Fees

Sampling - Time	\$58.00/Hour
Sampling - Mileage	\$0.50/Mile
Consultation, Senior Geologist/Engineer	\$120.00/Hour

Concrete & Asphalt Aggregates

1. Necessary Sample Preparation	
a. Ledge Rock, etc.	\$58.00/Hour
b. Rock Core	\$3.80/ft.
c. Geologist Log	\$3.80/ft.
2. Sieve Analysis; Gradation (C 136)*	
a. Coarse Aggregate (6 Sieves)	\$68.00
b. Fine Aggregate (6 Sieves)	\$68.00
c. Long-graded Aggregate, ie base, subbase, etc. Includes decant (3/4" x #200)	\$135.00
3. Material Passing No. 200 Sieve/Decantation (C 117)*	\$58.00
4. Crush Count; Percent Fractured (D 5821)*	
a. One-Face	\$70.00
b. Two-Face	\$90.00
5. Unit Weight (C 29)*	\$62.00
6. Five Cycle Soundness (C 88)*	
a. Sodium Sulfate (5 Size Fractions Max.)	\$320.00
b. Magnesium Sulfate (5 Size Fractions Max.)	\$330.00
c. Long-graded Aggr, Sodium or Magnesium (10 Size Fractions Max.)	\$510.00
d. IDOT Method (AASHTO T 104, Modified)	\$330.00
7. Aggregate Durability Factor Rapid Freeze-Thaw (C 666 A & B, CRD-C C114)	
a. Procedure A, USACE, 300 cycles, Dur. Factor	\$2,300.00
b. Procedure B, DOT, 350 cycles, Expansion & DF	\$2,300.00
c. each additional beam over 3 per set above	\$500.00
8. 50 Cycle Freeze-Thaw (AASHTO T 103)	\$430.00
9. 25 Cycle Freeze-Thaw (INDOT 209-94)	\$430.00
10. Los Angeles Abrasion (C 131, C 535)*	\$134.00
11. Micro-Deval Abrasion (ASTM D 6928)	\$240.00
12. Aggregate Durability Index (D 3744)	\$215.00
13. Specific Gravity and Absorption (C 127, C 128)*	
a. Short-graded	\$86.00
b. Long-graded	\$134.00
14. Lightweight Particles (C 123); coal & lignite, chert*	\$224.00
15. Visual Deleterious; a) soft pcs, shale, F&E, etc.*	\$224.00
b. IDOT Delet., incl's soft/unsound/lt. wt. chert	\$330.00
c. USCOE Table 5 Deleterious Airfield Parameters	\$2,000.00
16. Clay Lumps & Friable Particles (C 142)*	\$76.00
17. Flat & Elongated Particles (D 4791)*	\$76.00
18. Angularity Index (C 1252) incl. Spec. grav. (C128)	\$154.00
19. Organic Impurities (C 40)*	\$58.00
20. Effect of Organics (C 87)	\$1,800.00
21. Sand Equivalency (D 2419)	\$92.00
22. Insoluble Residue; Acid Solubility (D 3042)	\$130.00
23. Moh's Hardness	
a. Plus No. 4 Material	\$64.00
b. Minus No. 4 Material, include prep	\$150.00

Concrete & Asphalt Aggregates

24. Pore Index (KM 64-623)	\$165.00
25. Stain Test (C 641)	\$240.00
26. Complete Quality Analysis (C 33) - Includes all above tests marked with an asterisk (*)	
a. Coarse Aggregate (20% Discount)	\$1,050.00
b. Fine Aggregate (20% Discount)	\$760.00
c. Long-graded Aggregate (20% Discount)	\$1,050.00
d. DOT Parameters, Additional	\$125.00
27. Alkali Silica Reactivity (ASR)	
a. 6 Month Mortar Bar Method (C 227)	\$890.00
b. Chemical Method (C 289)	\$760.00
c. 14 Day Mortar Bar Method (C 1260)	\$680.00
d. Remediation Trials with Fly Ash, Slag (C 1567)	\$800.00
e. FFA Potassium Acetate Method (De-Icer) (C 1260)	\$900.00
f. 12 Month(+) Prism Method (C 1293)	\$1,800.00
g. 13 Week ICAR Modified (C 1293)	\$680.00
28. Alkali Carbonate Reactivity (ACR)	
a. Rock-Cylinder Method (C 586)	\$1,000.00
b. Prism Method (C 1105)	\$1,800.00
29. Petrographic Examination (C 295)	\$1,600.00

Rock Mechanics

30. Compressive Strength (D 2938)	\$80.00
31. Splitting Tensile Strength (D 3967)	\$120.00
32. Indirect Diametrical Strength (Brazilian)	\$120.00
33. Cut/Prep Core Specimen (D 4543)	\$60.00

Rock Weathering (Riprap/Armor Stone)

34. Slake Durability (D 4644)	\$86.00
35. Jar Slake Durability (KM 64-514)	\$50.00
36. Freeze Thaw (D 5312, CRD-C 144)	\$800.00
37. Wet Dry (D 5313, CRD-C 169)	\$800.00
38. Soundness-Slab Method (D 5240)	\$800.00
39. Petrographic Examination (C 295)	\$1,000.00
40. Specific Gravity/Absorption (C 127)	\$120.00
41. Adsorption/Absorption Ratio	\$120.00

Chemistry

42. Basic Elemental Analysis (C 25) incl.: Al ₂ O ₃ , Fe ₂ O ₃ , Ca, CaO CaCO ₃ , Mg, MgO, MgCO ₃ , SiO ₂	\$125.00
Additional Element Charge	\$25.00
43. Loss on Ignition - LOI (C 25)	\$25.00
44. Calcium Carbonate Equivalent-CCE (C 25) (Total Neutralizing Power - TNP)	\$55.00
45. Water Soluble Chloride Ion (D 1411 or C 1524)	\$180.00
46. Prep Bulk Sample, Crush and or Pulverize	\$60.00
47. Prep for Fine Aggregate	\$18.00
48. Prep for Coarse Aggregate	\$60.00

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