

## SPECIFIC-GRAVITY TESTS

|  |   |  |  |                                      |  |
|--|---|--|--|--------------------------------------|--|
| 1. PROJECT   |   |  | 2. DATE                                    |                                      |  |
| 3. BORING NUMBER   |   | 4. JOB NUMBER                                |  | 5. EXCAVATION NUMBER                 |  |
| <b>6. SPECIFIC GRAVITY OF SOLIDS (<math>G_s</math>)</b>                            |   |  |  |                                      |  |
| FLASK CALIBRATION DATA   | a. FLASK NUMBER   | b. CLEAN, DRY WEIGHT, $W_b$<br>Grams         | c. FLASK + WATER WEIGHT, $W_{bw}$<br>Grams | d. OBSERVED TEMPERATURE, $T_i$<br>°C |  |
| e. SAMPLE OR DETERMINATION NUMBER  |   |  |  |                                      |  |
| <b>D<br/>E<br/>T<br/>E<br/>R<br/>M<br/>I<br/>N<br/>A<br/>T<br/>I<br/>O<br/>N</b>   | f. DISH NUMBER  |  |  |                                      |  |
|  | g. WEIGHT OF DISH + DRY SOIL                              |  | Grams                                      |                                      |  |
|  | h. WEIGHT OF DISH   |  | Grams                                      |                                      |  |
|  | i. WEIGHT OF DRY SOIL, $W_s$                              |  | Grams                                      |                                      |  |
|  | j. WEIGHT OF FLASK + WATER + IMMERSSED SOIL, $W_{bws}$    |  | Grams                                      |                                      |  |
|  | k. TEMPERATURE OF WATER, $T_x$                            |  | °C   |                                      |  |
|  | l. CALCULATED WEIGHT OF FLASK + WATER AT $T_x$ , $W_{bw}$ |  | Grams                                      |                                      |  |
|  | m. CORRECTION FACTOR FOR $T_x$ , $K$                      |  |  |                                      |  |
| n. SPECIFIC GRAVITY OF SOLIDS  |   | $G_s = \frac{W_s K}{W_s + W_{bw} - W_{bws}}$ |  |                                      |  |
| <b>7. APPARENT (<math>G_a</math>) AND BULK (<math>G_m</math>) SPECIFIC GRAVITY</b> |   |  |  |                                      |  |
| a. SAMPLE OR SPECIMEN NUMBER   |   |  |  |                                      |  |
| b. TEMPERATURE OF WATER AND SOIL (°C) (must be within 23 ±1.7°C)                   |   |  |  |                                      |  |
| c. TARE + SATURATED SURFACE - DRY SOIL   |   |  |  |                                      |  |
| <b>D<br/>E<br/>T<br/>E<br/>R<br/>M<br/>I<br/>N<br/>A<br/>T<br/>I<br/>O<br/>N</b>   | d. TARE   |  |  |                                      |  |
|  | e. SATURATED SURFACE - DRY SOIL, (B)                      |  |  |                                      |  |
|  | f. (WIRE BASKET + SOIL) IN WATER                          |  |  |                                      |  |
|  | g. WIRE BASKET IN WATER                                   |  |  |                                      |  |
|  | h. SATURATED SOIL IN WATER, (C)                           |  |  |                                      |  |
|  | i. TARE AND DRY SOIL                                      |  |  |                                      |  |
|  | j. TARE   |  |  |                                      |  |
| k. DRY SOIL, (A)   |   |  |  |                                      |  |
| l. APPARENT SPECIFIC GRAVITY   |   | $G_a = (A) / (A - C)$                        |  |                                      |  |
| m. BULK SPECIFIC GRAVITY   |   | $G_m = (A) / (B - C)$                        |  |                                      |  |
| n. BULK SPECIFIC GRAVITY, SATURATED SURFACE DRY (SSD)                              |   | $G_m = (B) / (B - C)$                        |  |                                      |  |
| 8. REMARKS   |   |  |  |                                      |  |
| 9. TECHNICIAN (Signature)  |   | 10. COMPUTED BY (Signature)                  |  | 11. CHECKED BY (Signature)           |  |