

## WEST VIRGINIA DIVISION OF HIGHWAYS

### WORKSHEET FOR CALCULATING EFFECTIVE SPECIFIC GRAVITY OF RECYCLED AGGREGATE ( $G_{serap}$ ) WHEN USING RECLAIMED MATERIAL (RAP)

*NOTE 1: This worksheet applicable only for mixtures containing reclaimed material (RAP)*

$$G_{se} = \frac{P_{mm} - P_b}{\frac{P_{mm}}{G_{mm}} - \frac{P_b}{G_b}}$$

( $P_{mm}$ ) Total Loose Mixture, Percent by Total Weight of Mixture = 100 Percent

( $P_b$ ) Asphalt Content of RAP, Percent by Total Weight of Mixture

= \_\_\_\_\_

( $G_{mm}$ ) Maximum Specific Gravity of RAP (No Air Voids) AASHTO T-209

= \_\_\_\_\_

( $G_b$ ) Specific Gravity of Asphalt

= \_\_\_\_\_

( $G_{serap}$ ) Effective Specific Gravity of Recycled Aggregate Using  $P_{mm} = 100$  Becomes:

$$G_{se} = \frac{100 - P_b}{\frac{100}{G_{mm}} - \frac{P_b}{G_b}}$$

= \*

\* Report this value when calculating  $G_{sb}$  (Attachment 6-A)

*Note 2: Report the following values to the nearest thousandth (0.001):  
 $G_{mm}$ ,  $G_b$  and  $G_{serap}$*