

BENCH RECORDING AND CALCULATION SHEET

Example Calculation

Date: 11/18/08

Part A: Eluant Recording

| Sample ID | Sand: Wet Weight (g) | Shake Vol PBS (ml) | Shake (min) | Settling (s) | Rinse Vol PBS (ml) | Volume (ml) | Counts (CFU) | Result (CFU/100mL) | | | | | | | | |
|------------------|----------------------|--------------------|-------------|--------------|--------------------|-------------|--------------|--------------------|----|-------|----|----|----|-------|----|-----|
| <i>San Diego</i> | 10.217 | 60 | 2 | 30 | 40 | 50 ml | 29 | 58 | | | | | | | | |
| | | | | | | 10 ml | 14 | | | | | | | | | |
| | | | | | | 1 ml | 1 | | | | | | | | | |
| | 10.306 | | | | | 60 | 2 | 30 | 40 | 50 ml | 37 | 74 | | | | |
| | | | | | | | | | | 10 ml | 16 | | | | | |
| | | | | | | | | | | 1 ml | 1 | | | | | |
| | 10.805 | | | | | | | | | 60 | 2 | 30 | 40 | 50 ml | 49 | 115 |
| | | | | | | | | | | | | | | 10 ml | 20 | |
| | | | | | | | | | | | | | | 1 ml | 2 | |

Part B: Wet Weight to Dry Weight Conversion

| Weigh Boat (g) | Weigh Boat and Wet Sand (g) | Wet Sand Weight (g) [Weigh Boat and Wet Sand – Weigh Boat] | Weigh Boat and Dry Sand (g) | Dry Sand Weight (g) [Weigh Boat and Dry Sand – Weigh Boat] | Moisture Ratio [Dry Sand/Wet Sand] |
|----------------|-----------------------------|---|-----------------------------|---|---------------------------------------|
| 1.104 | 14.928 | 13.824 | 11.31 | 10.206 | 0.7383 |

Part C: Result Conversion to CFU/dry g

| Result (CFU/100mL) [From Part A] | Sand: Wet Weight (g) [From Part A] | Moisture Ratio [From Part B] | Sand: Dry Weight (Sample) (g) [Wet Weight x (Moisture Ratio)] | Result (CFU/dry g) [Result (CFU/100mL) / Dry Weight (g)] |
|-------------------------------------|---------------------------------------|---------------------------------|--|---|
| 58 | 10.217 | 0.7383 | 7.543 | 7.7 |
| 74 | 10.306 | | 7.609 | 9.7 |
| 115 | 10.805 | | 7.977 | 14.4 |

Average Result: (CFU/dry g): 10.6