

**Malvern Soil Analysis**
**Result Between User Sizes (Sizes in um)**

| Sample Name             | Result Between User Sizes (Sizes in um) |       |      |       |        |         |         |          |           |           |
|-------------------------|---|-------|------|-------|--------|---------|---------|----------|-----------|-----------|
|                         | 0.01-2.5                                | 2.5-5 | 5-10 | 10-50 | 50-100 | 100-250 | 250-500 | 500-1000 | 1000-1500 | 1500-2000 |
| 10 Commandments 1       | 0                                       | 0     | 0    | 0     | 0      | 0.46    | 42.52   | 56.11    | 0.91      | 0         |
| 10 Commandments 3       | 0                                       | 0     | 0    | 0     | 0      | 9.8     | 46      | 41.18    | 3.02      | 0         |
| 10 Commandments 5 rep1  | 0                                       | 0     | 0    | 0     | 0      | 0.57    | 23.98   | 57.55    | 15.58     | 2.32      |
| 10 Commandments 5 rep2  | 0                                       | 0     | 0    | 0     | 0      | 0.42    | 25.87   | 57.07    | 14.73     | 1.91      |
| CDF 1.210 km            | 0                                       | 0     | 0    | 0     | 0      | 36.39   | 57.43   | 6.18     | 0         | 0         |
| CDF 1.800 km            | 0                                       | 0     | 0    | 0.25  | 1.14   | 18.33   | 48.78   | 31.18    | 0.32      | 0         |
| CDF 2.800 km            | 0                                       | 0     | 0    | 0     | 0.05   | 41.14   | 51.94   | 6.87     | 0         | 0         |
| CDF 3.500 km rep1       | 0                                       | 0     | 0    | 0     | 0.13   | 33.82   | 50.92   | 15.14    | 0         | 0         |
| CDF 3.500 km rep2       | 0                                       | 0     | 0    | 0     | 0.08   | 32.11   | 50.92   | 16.88    | 0         | 0         |
| CDF 4.380 km            | 0                                       | 0     | 0    | 0     | 0.01   | 30.99   | 47.38   | 20.59    | 1.03      | 0         |
| Conoco upwind 400m      | 0                                       | 0     | 0    | 2.94  | 3.89   | 72.5    | 20.68   | 0.01     | 0         | 0         |
| Conoco upwind 0m        | 0                                       | 0.1   | 0.65 | 4.85  | 4.65   | 52.2    | 35.19   | 2.37     | 0         | 0         |
| Conoco upwind 200m      | 0                                       | 0     | 0    | 3.34  | 3.08   | 49.66   | 40.42   | 3.5      | 0         | 0         |
| Conoco upwind 585m      | 0                                       | 0     | 0    | 0     | 0.02   | 58.71   | 41.1    | 0.16     | 0         | 0         |
| Grover Beach 125m       | 0                                       | 0     | 0    | 3.06  | 2.22   | 75.16   | 19.56   | 0        | 0         | 0         |
| Grover Beach 300m       | 0                                       | 0     | 0    | 0     | 0.78   | 84.21   | 15.01   | 0        | 0         | 0         |
| Grover Beach 593m       | 0                                       | 0     | 0    | 0     | 0.39   | 80.35   | 19.25   | 0        | 0         | 0         |
| Mesa 1.20 km            | 0                                       | 0     | 0    | 0.95  | 0.69   | 28.86   | 51.33   | 18.17    | 0         | 0         |
| Mesa 2.00 km            | 0                                       | 0.1   | 0.71 | 3.56  | 2.09   | 42.82   | 44.44   | 6.29     | 0         | 0         |
| Mesa 2.36 km            | 0                                       | 0.01  | 0.2  | 1.67  | 1.39   | 46      | 43.05   | 7.67     | 0         | 0         |
| Mesa A 1.6 km           | 0                                       | 0     | 0    | 0.56  | 0.65   | 38.15   | 48.96   | 11.68    | 0         | 0         |
| Mesa A 2.26 km          | 0                                       | 0.45  | 0.94 | 3.06  | 3.06   | 29.77   | 42.06   | 19.93    | 0.73      | 0         |
| Mesa B 0 m              | 0                                       | 0.32  | 1.07 | 6.5   | 4.96   | 26.98   | 42.76   | 17.35    | 0.07      | 0         |
| Mesa B 2.26 km          | 0                                       | 0.33  | 1.09 | 5.11  | 4.22   | 28.81   | 43.76   | 16.69    | 0         | 0         |
| Mesa B 200m             | 0                                       | 0.32  | 1.06 | 5.43  | 3.76   | 22.84   | 40.16   | 24.85    | 1.58      | 0         |
| Mesa B 400 m            | 0                                       | 0.06  | 0.72 | 3.01  | 1.53   | 33.56   | 46.12   | 14.9     | 0.06      | 0         |
| Mesa B 800 m            | 0                                       | 0.02  | 0.41 | 2.67  | 2.97   | 21.04   | 44.27   | 27.82    | 0.8       | 0         |
| Oso Flaco 10A 1200 m    | 0                                       | 0     | 0    | 0.33  | 0.64   | 26.97   | 54.62   | 17.43    | 0         | 0         |
| Oso Flaco 12A 1800 m    | 0                                       | 0     | 0    | 0     | 0      | 23.48   | 47.2    | 26.5     | 2.82      | 0         |
| Oso Flaco 15A 2400m     | 0                                       | 0     | 0    | 0     | 0      | 15.23   | 69.76   | 15.01    | 0         | 0         |
| Oso Flaco 1B 10m        | 0                                       | 0     | 0    | 0     | 0      | 27.15   | 56.88   | 15.97    | 0         | 0         |
| Oso Flaco 2C 30m        | 0                                       | 0     | 0    | 2     | 0.71   | 35.35   | 51.5    | 10.45    | 0         | 0         |
| Oso Flaco 3B 100m       | 0                                       | 0     | 0    | 1.69  | 2.95   | 26.77   | 48.34   | 19.94    | 0.31      | 0         |
| Oso Flaco 5B 300m       | 0                                       | 0     | 0    | 1.93  | 1.99   | 28.84   | 51.49   | 15.75    | 0         | 0         |
| Oso Flaco 7B 575m       | 0                                       | 0.01  | 0.31 | 2.96  | 5.29   | 38.24   | 42.51   | 10.68    | 0         | 0         |
| Oso Flaco 8A 800m       | 0                                       | 0     | 0    | 0.92  | 3.55   | 25.19   | 43.76   | 25.96    | 0.67      | 0         |
| Oso Flaco parking lot   | 0.08                                    | 1.65  | 3.02 | 13.03 | 14.06  | 27.54   | 30.86   | 9.77     | 0.01      | 0         |
| Oso Flaco road of Hwy 1 | 0.14                                    | 1.38  | 2.71 | 16.11 | 13.79  | 29.05   | 23.46   | 11.71    | 1.53      | 0.11      |
| Pier Ave 67m            | 0                                       | 0     | 0    | 0     | 0.99   | 78      | 21      | 0        | 0         | 0         |
| Pier Ave 190m           | 0                                       | 0     | 0    | 0     | 1.03   | 78.85   | 20.12   | 0        | 0         | 0         |
| Pier Ave B 350m         | 0                                       | 0     | 0    | 0     | 0.61   | 83.32   | 16.07   | 0        | 0         | 0         |
| Bluff 1A 245 m          | 0                                       | 0.53  | 1.29 | 7.37  | 6.89   | 44.91   | 30.09   | 7.16     | 1.42      | 0.34      |
| Bluff 2A rep1           | 0                                       | 0.43  | 1.12 | 5.71  | 6.82   | 27.86   | 29.1    | 23.24    | 4.93      | 0.8       |
| Bluff 2A rep2           | 0                                       | 0.44  | 1.14 | 5.62  | 7.17   | 25.69   | 28.41   | 26.02    | 5.12      | 0.4       |
| Bluff 2A 740m           | 0                                       | 0.31  | 1.15 | 7.03  | 15.42  | 38.33   | 28.48   | 9.19     | 0.1       | 0         |
| Bluff 1.65km            | 0                                       | 0.46  | 1.11 | 6.09  | 11.29  | 44.96   | 29.32   | 6.69     | 0.08      | 0         |
| Bluff 4A 2.83km         | 0.23                                    | 1.36  | 2.23 | 15.15 | 20.77  | 39.04   | 12.84   | 6.43     | 1.68      | 0.26      |

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|---|---|-------|------|-------|--------|---------|---------|----------|-----------|-----------|
|   | 0.01-2.5                                | 2.5-5 | 5-10 | 10-50 | 50-100 | 100-250 | 250-500 | 500-1000 | 1000-1500 | 1500-2000 |
| Silver Spur 10 m                                  | 0                                       | 0     | 0    | 2.9   | 2.28   | 60.4    | 33.43   | 0.99     | 0         | 0         |
| Silver Spur B 600 m                               | 0                                       | 0     | 0    | 0     | 0.82   | 78.17   | 21      | 0        | 0         | 0         |
| Silver Spur 1.18 km                               | 0                                       | 0     | 0    | 0     | 0.415  | 76.45   | 23.1    | 0        | 0         | 0         |
| BSNE2 - 200 m NW - 1g in 20 ml calgon - Average   | 0                                       | 0     | 0    | 0     | 0      | 29.11   | 59.18   | 11.7     | 0         | 0         |
| BSNE2 - 200 m NW - 3 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0.011  | 31.27   | 57.77   | 10.95    | 0         | 0         |
| BSNE2 - 200 m NW - 5 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0      | 29.11   | 59.23   | 11.66    | 0         | 0         |
| BSNE2 - 400 m NW - 1 g in 20 ml calgon - Average  | 0                                       | 0     | 0    | 0.153 | 0.597  | 18.2    | 49.32   | 31.45    | 0.281     | 0         |
| BSNE2 - 400 m NW - 3 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0.76   | 21.9    | 48.24   | 28.7     | 0.404     | 0         |
| BSNE2 - 400 m NW - 5 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0.204 | 0.58   | 19.16   | 49.17   | 30.38    | 0.504     | 0         |
| BSNE2 - 600 m NW - 1 g in 20 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0.188  | 15.89   | 35.24   | 39.67    | 8.071     | 0.945     |
| BSNE2 - 600 m NW - 3 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0.252  | 4.007   | 34.22   | 53.96    | 7.559     | 0         |
| BSNE2 - 600 m NW - 5 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0.226  | 4.555   | 32.93   | 51.35    | 10.09     | 0.841     |
| BSNE2 - 800 m NW - 1 g in 20 ml calgon - Average  | 0                                       | 0     | 0    | 0     | 0      | 6.915   | 46.09   | 44.67    | 2.325     | 0         |
| BSNE2 - 800 m NW - 3 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0.331 | 0.809  | 18.18   | 48.46   | 31.82    | 0.394     | 0         |
| BSNE2 - 800 m NW - 5 g in 40 ml calgon - Average  | 0                                       | 0     | 0    | 0.262 | 0.715  | 15.01   | 46.75   | 35.87    | 1.395     | 0         |
| BSNE2 - 1000 m NW - 1 g in 20 ml calgon - Average | 0                                       | 0     | 0    | 0     | 0.011  | 34.95   | 54.07   | 10.97    | 0         | 0         |
| BSNE2 - 1000 m NW - 3 g in 40 ml calgon - Average | 0                                       | 0     | 0    | 0     | 0      | 33.05   | 54.71   | 12.23    | 0         | 0         |
| BSNE2 - 1000 m NW - 5 g in 40 ml calgon - Average | 0                                       | 0     | 0    | 0     | 0.02   | 35.58   | 53.45   | 10.95    | 0         | 0         |
| BSNE2 - 200 m NW - rep 1 - Average                | 0                                       | 0     | 0    | 0     | 0      | 29.31   | 59.17   | 11.52    | 0         | 0         |
| BSNE2 - 200 m NW - rep 2 - Average                | 0                                       | 0     | 0    | 0     | 0      | 30.91   | 58.26   | 10.83    | 0         | 0         |
| BSNE2 - 600 m NW - rep 1 - Average                | 0                                       | 0     | 0    | 0     | 0      | 5.22    | 32.07   | 48.69    | 12.01     | 2.018     |
| BSNE2 - 600 m NW - rep 2 - Average                | 0                                       | 0     | 0    | 0     | 0.287  | 4.174   | 32.59   | 53.85    | 8.976     | 0.122     |
| BSNE2 - 1000 m NW - rep 1 - Average               | 0                                       | 0     | 0    | 0     | 0.014  | 35.58   | 54.4    | 10       | 0         | 0         |
| BSNE2 - 1000 m NW - rep 2 - Average               | 0                                       | 0     | 0    | 0     | 0      | 33.16   | 55      | 11.84    | 0         | 0         |
| BSNE2 - 1400 m NW - rep 1 - Average               | 0                                       | 0     | 0    | 0.88  | 2.469  | 23.53   | 39.22   | 32.14    | 1.76      | 0         |

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|                                      | 0.01-2.5                                | 2.5-5 | 5-10 | 10-50 | 50-100 | 100-250 | 250-500 | 500-1000 | 1000-1500 | 1500-2000 |
| BSNE2 - 1400 m NW - rep 2 - Average  | 0                                       | 0     | 0    | 0.459 | 1.08   | 19.75   | 38.81   | 35.69    | 4.201     | 0         |
| Mesa 200 m SE - Average              | 0                                       | 0     | 0    | 0     | 0.506  | 30.52   | 52.12   | 16.85    | 0         | 0         |
| Mesa 200 m SE - sample 2 - Average   | 0                                       | 0     | 0    | 0     | 0.322  | 26.03   | 52.36   | 21.29    | 0         | 0         |
| Mesa 600 m SE - Average              | 0                                       | 0     | 0    | 0.463 | 2.112  | 17.03   | 46.43   | 33.42    | 0.544     | 0         |
| Mesa 600 m SE - sample 2 - Average   | 0                                       | 0     | 0    | 0.335 | 1.462  | 14.62   | 47.25   | 35.68    | 0.656     | 0         |
| Mesa 800 m SE - sample 1 - Average   | 0                                       | 0     | 0    | 0     | 0.013  | 51.3    | 47.86   | 0.823    | 0         | 0         |
| Mesa 800 m SE - sample 2 - Average   | 0                                       | 0     | 0    | 0     | 0.038  | 52.58   | 46.25   | 1.138    | 0         | 0         |
| Mesa 1200 m SE - sample 1 - Average  | 0                                       | 0     | 0    | 0.589 | 1.15   | 22.51   | 52.14   | 23.61    | 0         | 0         |
| Mesa 1200 m SE - sample 2 - Average  | 0                                       | 0     | 0    | 0.443 | 0.909  | 21.73   | 55.69   | 21.23    | 0         | 0         |
| Mesa 200 m NW - sample 1 - Average   | 0                                       | 0     | 0    | 0     | 0.635  | 37.43   | 47.59   | 14.35    | 0         | 0         |
| Mesa 200 m NW - sample 2 - Average   | 0                                       | 0     | 0    | 0     | 0.409  | 29.09   | 47.36   | 22.79    | 0.355     | 0         |
| Mesa 400 m NW - sample 1 - Average   | 0                                       | 0     | 0    | 0     | 0.176  | 16.9    | 37.5    | 40.19    | 5.222     | 0         |
| Mesa 400 m NW - sample 2 - Average   | 0                                       | 0     | 0    | 0     | 0.246  | 19.25   | 37.63   | 38.05    | 4.83      | 0         |
| Mesa 600 m NW - sample 1 - Average   | 0                                       | 0     | 0    | 0.239 | 0.947  | 11.96   | 32.03   | 43.22    | 10.3      | 1.301     |
| Mesa 600 m NW - sample 2 - Average   | 0                                       | 0     | 0    | 0.22  | 0.942  | 12.12   | 36.75   | 44.98    | 4.982     | 0         |
| BSNE2 200 m NW - sample 1 - Average  | 0                                       | 0     | 0    | 0     | 0      | 35.96   | 55.86   | 8.179    | 0         | 0         |
| BSNE2 200 m NW - sample 2 - Average  | 0                                       | 0     | 0    | 0     | 0.011  | 32.63   | 56.88   | 10.49    | 0         | 0         |
| BSNE2 600 m NW - sample 1 - Average  | 0                                       | 0     | 0    | 0     | 0.63   | 6.138   | 34.52   | 53.05    | 5.657     | 0         |
| BSNE2 600 m NW - sample 2 - Average  | 0                                       | 0     | 0    | 0     | 0.475  | 6.105   | 35.02   | 52.56    | 5.846     | 0         |
| BSNE2 1000 m NW - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.017  | 36.66   | 52.67   | 10.65    | 0         | 0         |
| BSNE2 1000 m NW - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0.024  | 40.74   | 51.45   | 7.782    | 0         | 0         |
| BSNE2 1400 m NW - sample 1 - Average | 0                                       | 0     | 0    | 1.015 | 2.651  | 19.24   | 33.92   | 36.34    | 6.439     | 0.383     |
| BSNE2 1400 m NW - sample 2 - Average | 0                                       | 0     | 0    | 0.773 | 2.492  | 19.7    | 35.53   | 37.31    | 4.192     | 0         |
| BSNE2 1800 m NW - sample 1 - Average | 0                                       | 0     | 0    | 0     | 2.17   | 47.56   | 42.49   | 7.779    | 0         | 0         |

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|                                       | 0.01-2.5                                | 2.5-5 | 5-10 | 10-50 | 50-100 | 100-250 | 250-500 | 500-1000 | 1000-1500 | 1500-2000 |
| BSNE2 1800 m NW - sample 2 - Average  | 0                                       | 0     | 0    | 0     | 2.164  | 47.86   | 42.41   | 7.568    | 0         | 0         |
| BSNE2 2200 m NW - sample 1 - Average  | 0                                       | 0     | 0    | 0     | 0.672  | 53.29   | 42.94   | 3.095    | 0         | 0         |
| BSNE2 2200 m NW - sample 2 - Average  | 0                                       | 0     | 0    | 0     | 0.68   | 54.27   | 42.1    | 2.951    | 0         | 0         |
| BSNE2 2600 m NW - sample 1 - Average  | 0                                       | 0     | 0    | 0     | 0.018  | 51.03   | 47.57   | 1.389    | 0         | 0         |
| BSNE2 2600 m NW - sample 2 - Average  | 0                                       | 0     | 0    | 0     | 0      | 47.26   | 50.76   | 1.974    | 0         | 0         |
| BSNE2 0 m A SE - sample 1 - Average   | 0                                       | 0     | 0    | 0.268 | 0.673  | 21.76   | 53.28   | 24.02    | 0         | 0         |
| BSNE2 0 m A SE - sample 2 - Average   | 0                                       | 0     | 0    | 0.526 | 0.752  | 21.46   | 53.01   | 24.25    | 0         | 0         |
| BSNE2 150 m A SE - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.01   | 47.84   | 50.11   | 2.036    | 0         | 0         |
| BSNE2 150 m A SE - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0      | 48.39   | 49.9    | 1.716    | 0         | 0         |
| BSNE2 150 m B SE - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.237  | 65.47   | 34.03   | 0.257    | 0         | 0         |
| BSNE2 150 m B SE - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0.166  | 62.45   | 37.08   | 0.308    | 0         | 0         |
| BSNE2 150 m C SE - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.026  | 33.25   | 48.1    | 17.15    | 1.477     | 0         |
| BSNE2 150 m C SE - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0.034  | 39.13   | 49.96   | 10.71    | 0.161     | 0         |
| BSNE2 150 m C SE - sample 3 - Average | 0                                       | 0     | 0    | 0     | 0.026  | 35.53   | 49.68   | 13.71    | 1.014     | 0.041     |
| BSNE2 200 m A SE - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.02   | 36.18   | 52.43   | 11.37    | 0         | 0         |
| BSNE2 200 m A SE - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0.033  | 39.31   | 51.01   | 9.644    | 0         | 0         |
| BSNE2 400 m A SE - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.699  | 51.68   | 38.27   | 6.843    | 2.105     | 0.397     |
| BSNE2 400 m A SE - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0.545  | 51.22   | 38.47   | 5.718    | 3.06      | 0.986     |
| BSNE2 564 m A SE - sample 1 - Average | 0                                       | 0     | 0    | 0     | 0.505  | 39.04   | 51.02   | 9.428    | 0         | 0         |
| BSNE2 564 m A SE - sample 2 - Average | 0                                       | 0     | 0    | 0     | 0.918  | 40.77   | 48.94   | 9.37     | 0         | 0         |