# ProShake Report

Data File: C:\PROFILES\I-80\5KM~1\I80AUP.DAT

**Soil Profile**

Profile Name: I-80 from 5 km convolution analysis - Deep Profile I - Upper Bound Vs
Water Table: Not Applicable
Number of Layers: 272

| Layer Number | Material Name | Thickness (m) | Unit Weight (kN/m^3) | Gmax (MPa) | Vs (m/sec) | Modulus Curve | Damping Curve | Mod. Parameter | Damp. Parameter |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Silty sand - Alluvium | 1.52 | 19.64 | 66.97 | 182.96 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 7.50 | 7.50 |
| 2 | Clayey silt - Alluvium | 2.44 | 19.16 | 76.47 | 197.89 | Vucetic - Dobry | Vucetic - Dobry | 15.00 | 15.00 |
| 3 | Soft to medium stiff silty clay -B. Clay | 4.11 | 17.75 | 70.83 | 197.89 | Vucetic - Dobry | Vucetic - Dobry | 25.00 | 25.00 |
| 4 | Soft to medium stiff silty clay - B. Clay | 4.11 | 17.75 | 73.52 | 201.63 | Vucetic - Dobry | Vucetic - Dobry | 30.00 | 30.00 |
| 5 | Soft to medium stiff silty clay - B. Clay | 4.11 | 17.75 | 79.07 | 209.09 | Vucetic - Dobry | Vucetic - Dobry | 30.00 | 30.00 |
| 6 | m. stiff to stiff silty clay and m. dense sand | 4.85 | 19.64 | 144.59 | 268.83 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 20.00 |
| 7 | Sandy clay | 4.88 | 18.07 | 198.72 | 328.57 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 20.00 |
| 8 | Silty clay | 6.40 | 18.07 | 196.47 | 326.71 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 22.00 |
| 9 | Silty clay | 4.88 | 18.07 | 194.23 | 324.84 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 22.00 |
| 10 | Silty clay | 3.96 | 18.85 | 202.67 | 324.84 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 22.00 |
| 11 | Very dense sand and clayey silt | 3.66 | 20.11 | 182.79 | 298.70 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 12 | Dense clayey silt | 4.88 | 20.42 | 245.53 | 343.51 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 13 | Dense clayey silt with fine sand | 5.18 | 20.11 | 231.35 | 336.04 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 14 | Very stiff clay | 5.79 | 18.07 | 203.26 | 332.31 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 15 | Sand | 8.17 | 20.42 | 383.63 | 429.39 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 587.00 | 587.00 |
| 16 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 676.50 | 676.50 |
| 17 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 768.80 | 768.80 |
| 18 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 861.00 | 861.00 |
| 19 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 953.30 | 953.30 |
| 20 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 21 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 22 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 23 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 24 | Sediments | 12.19 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 25 | Sediments | 12.19 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 26 | Sediments | 12.19 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 27 | Sediments | 16.25 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 28 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 29 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 30 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 31 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 32 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 33 | Sediments | 18.53 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 34 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 35 | Sediments | 17.68 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 36 | Sediments | 9.45 | 20.42 | 1,812.99 | 933.45 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 37 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 38 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 39 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 40 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 41 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 42 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 43 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 44 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 45 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 46 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 47 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 48 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 49 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 50 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 51 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 52 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 53 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 54 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 55 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 56 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 57 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 58 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 59 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 60 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 61 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 62 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 63 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 64 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 65 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 66 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 67 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |
| 68 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 0.98 |

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|---|---|---|---|---|---|---|---|---|
| 69 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 70 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 71 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 72 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 73 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 74 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 75 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 76 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 77 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 78 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 79 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 80 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 81 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 82 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 83 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 84 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 85 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 86 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 87 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 88 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 89 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 90 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 91 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 92 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 93 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 94 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 95 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 96 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 97 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 98 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 99 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 100 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 101 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 102 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 103 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 104 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 105 | Linear Rock | 4.33 | 21.52 | 3,763.17 | 1,310.03 | Linear | Linear | 0.98 |
| 106 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 107 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |

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|---|---|---|---|---|---|---|---|---|
| 108 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 109 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 110 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 111 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 112 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 113 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 114 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 115 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 116 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 117 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 118 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 119 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 120 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 121 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 122 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 123 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 124 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 125 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 126 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 127 | Linear Rock | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.44 |
| 128 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 129 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 130 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 131 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 132 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 133 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 134 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 135 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 136 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 137 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 138 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 139 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 140 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 141 | Rock below 1.5 km | 21.88 | 23.56 | 20,053.57 | 2,890.11 | Linear | Linear | 0.08 |
| 142 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 143 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 144 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 145 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 146 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |

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|---|---|---|---|---|---|---|---|---|
| 147 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 148 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 149 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 150 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 151 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 152 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 153 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 154 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 155 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 156 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 157 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 158 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 159 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 160 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 161 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 162 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 163 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 164 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 165 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 166 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 167 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 168 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 169 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 170 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 171 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 172 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 173 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 174 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 175 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 176 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 177 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 178 | Rock below 1.5 km | 21.88 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 179 | Rock below 1.5 km | 2.41 | 25.92 | 22,058.93 | 2,890.11 | Linear | Linear | 0.08 |
| 180 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 181 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 182 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 183 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 184 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 185 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |

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|---|---|---|---|---|---|---|---|---|
| 186 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 187 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 188 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 189 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 190 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 191 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 192 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 193 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 194 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 195 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 196 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 197 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 198 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 199 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 200 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 201 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 202 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 203 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 204 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 205 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 206 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 207 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 208 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 209 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 210 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 211 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 212 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 213 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 214 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 215 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 216 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 217 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 218 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 219 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 220 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 221 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 222 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 223 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 224 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 225 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 226 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 227 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 228 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 229 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 230 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 231 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 232 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 233 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 234 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 235 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 236 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 237 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 238 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 239 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 240 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 241 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 242 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 243 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 244 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 245 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 246 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 247 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 248 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 249 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 250 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 251 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 252 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 253 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 254 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 255 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 256 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 257 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 258 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 259 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 260 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 261 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 262 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 263 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 264 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 265 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 266 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 267 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 268 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 269 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 270 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 271 | Rock below 1.5 km | 26.20 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |
| 272 | Infinite Half-Space | 0.00 | 27.02 | 32,958.98 | 3,460.09 | Linear | Linear | 0.08 |

**Input Motion**

Number of Motions: 5
Numeber of Iterations: 10
Strain Ratio: 0.60
Tolerance: 5.00%

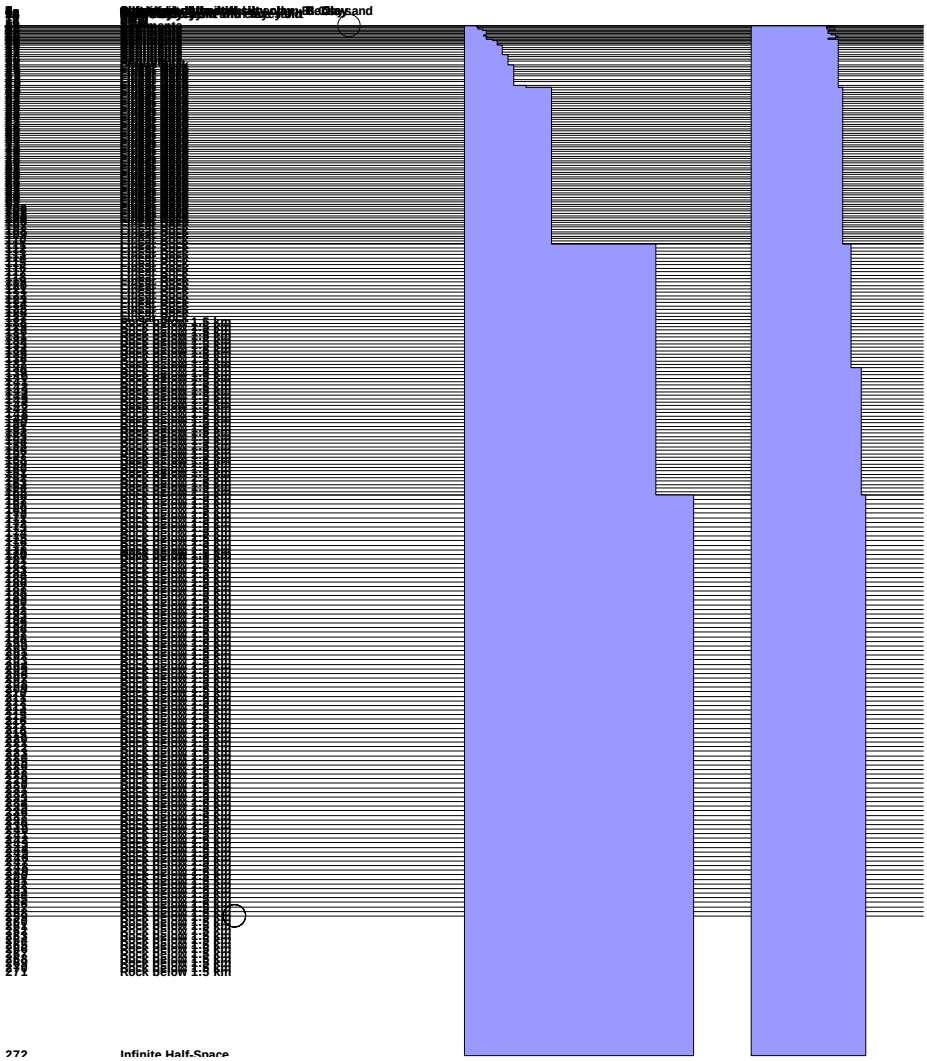
| File Name | No of Acc. Values | Max. Acc. (g) | Time Step (sec) | Cuttoff Freq. (Hz) | No of Fourier Terms | Layer | Outcrop |
|---|---|---|---|---|---|---|---|
| C:\DECONV~1\CAP80XF.EQ | 4096 | 0.415 | 0.010 | 25.00 | 8192 | 272 | Yes |
| C:\DECONV~1\ERZ80XF.EQ | 8192 | 0.385 | 0.005 | 25.00 | 16384 | 272 | Yes |
| C:\DECONV~1\IMP80XF.EQ | 8192 | 0.565 | 0.005 | 25.00 | 16384 | 272 | Yes |
| C:\DECONV~1\SUP80XF.EQ | 4096 | 0.431 | 0.010 | 25.00 | 8192 | 272 | Yes |
| C:\DECONV~1\UCL80XF.EQ | 8192 | 0.445 | 0.010 | 25.00 | 16384 | 272 | Yes |

**Output Locations**

| Layer No | Depth (m) | Outcrop |
|---|---|---|
| 1 | 0.00 | Yes |

**I-80 from 5 km convolution analysis - Deep Profile I - Upper Bound Vs**

| Number | Description | Motion | Output | Shear Wave Velocity | Unit Weight |
|---|---|---|---|---|---|
| 271 | Rock below 1.5 km | | | | |
| 272 | Infinite Half-Space | | | | |



# ProShake Report

Data File: C:\PROFILES\I-80\5KM~1\I80BUP.DAT

**Soil Profile**

Profile Name: I-80 from 5 km convolution analysis - Deep Profile II - Upper Bound Vs
Water Table: Not Applicable
Number of Layers: 272

| Layer Number | Material Name | Thickness (m) | Unit Weight (kN/m^3) | Gmax (MPa) | Vs (m/sec) | Modulus Curve | Damping Curve | Mod. Parameter | Damp. Parameter |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Silty sand - Alluvium | 1.52 | 19.64 | 66.97 | 182.96 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 7.50 | 7.50 |
| 2 | Clayey silt - Alluvium | 2.44 | 19.16 | 76.47 | 197.89 | Vucetic - Dobry | Vucetic - Dobry | 15.00 | 15.00 |
| 3 | Soft to medium stiff silty clay -B. Clay | 4.11 | 17.75 | 70.83 | 197.89 | Vucetic - Dobry | Vucetic - Dobry | 25.00 | 25.00 |
| 4 | Soft to medium stiff silty clay - B. Clay | 4.11 | 17.75 | 73.52 | 201.63 | Vucetic - Dobry | Vucetic - Dobry | 30.00 | 30.00 |
| 5 | Soft to medium stiff silty clay - B. Clay | 4.11 | 17.75 | 79.07 | 209.09 | Vucetic - Dobry | Vucetic - Dobry | 30.00 | 30.00 |
| 6 | m. stiff to stiff silty clay and m. dense sand | 4.85 | 19.64 | 144.59 | 268.83 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 20.00 |
| 7 | Sandy clay | 4.88 | 18.07 | 198.72 | 328.57 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 20.00 |
| 8 | Silty clay | 6.40 | 18.07 | 196.47 | 326.71 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 22.00 |
| 9 | Silty clay | 4.88 | 18.07 | 194.23 | 324.84 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 22.00 |
| 10 | Silty clay | 3.96 | 18.85 | 202.67 | 324.84 | Vucetic - Dobry | Vucetic - Dobry | 20.00 | 22.00 |
| 11 | Very dense sand and clayey silt | 3.66 | 20.11 | 182.79 | 298.70 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 12 | Dense clayey silt | 4.88 | 20.42 | 245.53 | 343.51 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 13 | Dense clayey silt with fine sand | 5.18 | 20.11 | 231.35 | 336.04 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 14 | Very stiff clay | 5.79 | 18.07 | 203.26 | 332.31 | Clay (Seed and Sun 1989) | Clay - Average (Sun et al.) | | |
| 15 | Sand | 8.17 | 20.42 | 383.63 | 429.39 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 587.00 | 587.00 |
| 16 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 676.50 | 676.50 |
| 17 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 768.80 | 768.80 |
| 18 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 861.00 | 861.00 |
| 19 | Sand | 8.69 | 20.42 | 528.67 | 504.06 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 953.30 | 953.30 |
| 20 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 21 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 22 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 23 | Sediments | 10.36 | 20.42 | 696.92 | 578.74 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 24 | Sediments | 12.19 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 25 | Sediments | 12.19 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 26 | Sediments | 12.19 | 20.42 | 888.37 | 653.41 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 27 | Sediments | 16.25 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 28 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 29 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | (EPRI) Saturated Sand | 957.60 | 957.60 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 30 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 31 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 32 | Sediments | 13.90 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 33 | Sediments | 18.53 | 20.42 | 1,160.32 | 746.76 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 34 | Sediments | 13.90 | 20.42 | 1,812.99 | 933.45 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 35 | Sediments | 17.68 | 20.42 | 1,812.99 | 933.45 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 36 | Sediments | 9.45 | 20.42 | 1,812.99 | 933.45 | (EPRI) Saturated Sand | | (EPRI) Saturated Sand | 957.60 | 957.60 |
| 37 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 38 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 39 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 40 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 41 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 42 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 43 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 44 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 45 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 46 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 47 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 48 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 49 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 50 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 51 | Linear Rock | 9.94 | 21.52 | 3,763.17 | 1,310.03 | Linear | | Linear | | 1.05 |
| 52 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 53 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 54 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 55 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 56 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 57 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 58 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 59 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 60 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 61 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 62 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 63 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 64 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 65 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 66 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 67 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |
| 68 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | | Linear | | 0.70 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 69 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 70 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 71 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 72 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 73 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 74 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 75 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 76 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 77 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 78 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 79 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 80 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 81 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 82 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 83 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 84 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 85 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 86 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 87 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 88 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 89 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 90 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 91 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 92 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 93 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 94 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 95 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 96 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 97 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 98 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 99 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 100 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 101 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 102 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 103 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 104 | Linear Rock | 9.94 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 105 | Linear Rock | 4.33 | 21.52 | 8,344.13 | 1,950.72 | Linear | Linear | 0.70 |
| 106 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 107 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 108 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 109 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 110 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 111 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 112 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 113 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 114 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 115 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 116 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 117 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 118 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 119 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 120 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 121 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 122 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 123 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 124 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 125 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 126 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 127 | Linear Rock | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.70 |
| 128 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 129 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 130 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 131 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 132 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 133 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 134 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 135 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 136 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 137 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 138 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 139 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 140 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 141 | Rock below 1.5 km | 21.88 | 23.56 | 9,135.91 | 1,950.72 | Linear | Linear | 0.08 |
| 142 | Rock below 1.5 km | 21.88 | 25.92 | 10,049.50 | 1,950.72 | Linear | Linear | 0.08 |
| 143 | Rock below 1.5 km | 21.88 | 25.92 | 10,049.50 | 1,950.72 | Linear | Linear | 0.08 |
| 144 | Rock below 1.5 km | 21.88 | 25.92 | 10,049.50 | 1,950.72 | Linear | Linear | 0.08 |
| 145 | Rock below 1.5 km | 21.88 | 25.92 | 10,049.50 | 1,950.72 | Linear | Linear | 0.08 |
| 146 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 147 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 148 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 149 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 150 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 151 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 152 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 153 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 154 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 155 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 156 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 157 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 158 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 159 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 160 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 161 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 162 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 163 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 164 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 165 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 166 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 167 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 168 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 169 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 170 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 171 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 172 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 173 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 174 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 175 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 176 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 177 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 178 | Rock below 1.5 km | 21.88 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 179 | Rock below 1.5 km | 2.41 | 25.92 | 30,338.50 | 3,389.38 | Linear | Linear | 0.08 |
| 180 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 181 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 182 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 183 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 184 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 185 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 186 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 187 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 188 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 189 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 190 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 191 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 192 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 193 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 194 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 195 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 196 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 197 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 198 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 199 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 200 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 201 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 202 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 203 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 204 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 205 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 206 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 207 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 208 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 209 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 210 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 211 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 212 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 213 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 214 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 215 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 216 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 217 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 218 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 219 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 220 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 221 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 222 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 223 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 224 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 225 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 226 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 227 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 228 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 229 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 230 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 231 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 232 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 233 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 234 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 235 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 236 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 237 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 238 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 239 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 240 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 241 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 242 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 243 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 244 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 245 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 246 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 247 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 248 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 249 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 250 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 251 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 252 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 253 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 254 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 255 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 256 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 257 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 258 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 259 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 260 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 261 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 262 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 263 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 264 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 265 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 266 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 267 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 268 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 269 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 270 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 271 | Rock below 1.5 km | 26.20 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |
| 272 | Infinite Half-Space | 0.00 | 27.02 | 31,625.59 | 3,389.38 | Linear | Linear | 0.08 |

## Input Motion

Number of Motions: 5
Numeber of Iterations: 10
Strain Ratio: 0.60
Tolerance: 5.00%

| File Name | No of Acc. Values | Max. Acc. (g) | Time Step (sec) | Cuttoff Freq. (Hz) | No of Fourier Terms | Layer | Outcrop |
|---|---|---|---|---|---|---|---|
| C:\RECORDS\DECONV~1\CAP80XF.EQ | 4096 | 0.415 | 0.010 | 25.00 | 8192 | 272 | Yes |
| C:\RECORDS\DECONV~1\ERZ80XF.EQ | 8192 | 0.385 | 0.005 | 25.00 | 16384 | 272 | Yes |
| C:\RECORDS\DECONV~1\IMP80XF.EQ | 8192 | 0.565 | 0.005 | 25.00 | 16384 | 272 | Yes |
| C:\RECORDS\DECONV~1\SUP80XF.EQ | 4096 | 0.431 | 0.010 | 25.00 | 8192 | 272 | Yes |
| C:\RECORDS\DECONV~1\UCL80XF.EQ | 8192 | 0.445 | 0.010 | 25.00 | 16384 | 272 | Yes |

## Output Locations

| Layer No | Depth (m) | Outcrop |
|---|---|---|
| 1 | 0.00 | Yes |

I-80 from 5 km convolution analysis - Deep Profile II - Upper Bound Vs