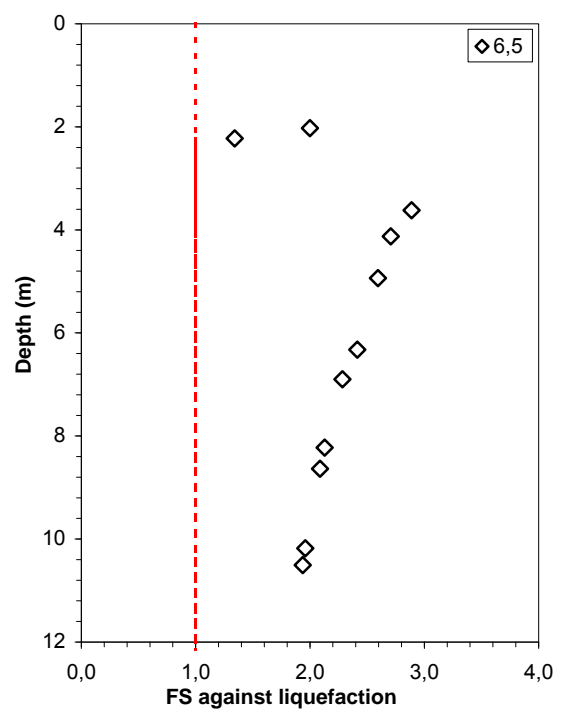
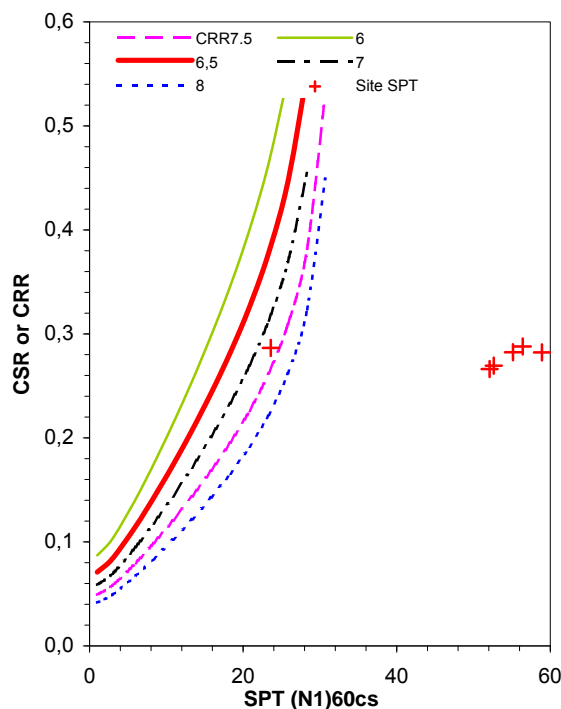


Liquefaction Resistance Evaluation, 1996NCEER, 1998NCEER/NSF, Youd et al 2001

| | | | | | |
|---------------------------------|-----|--|-----------------|------|---------------------|
| γ (kN/m ³) | 21 | | Magnitude | 6,5 | |
| γ_w (kN/m ³) | 10 | | α (NEAK) | 0,24 | α_{max} 0,28 |
| z_w (m) | 0,5 | | coeff | 0,85 | |

| a/a | z (m) | FC (%) | N _{SPT} | γ (kN/m ³) | σ_v (kPa) | u (kPa) | σ'_v (kPa) | C _N |
|-----|--------|--------|------------------|-------------------------------|------------------|---------|-------------------|----------------|
| Г1 | 2,025 | 65 | 40 | 21 | 42,525 | 15,25 | 27,275 | 1,497 |
| Г1 | 3,62 | 65 | 50 | 21 | 76,02 | 31,2 | 44,82 | 1,340 |
| Г1 | 4,935 | 78 | 50 | 21 | 103,635 | 44,35 | 59,285 | 1,232 |
| Г1 | 6,9 | 78 | 50 | 21 | 144,9 | 64 | 80,9 | 1,101 |
| Г1 | 8,635 | 84 | 50 | 21 | 181,335 | 81,35 | 99,985 | 1,006 |
| Г1 | 10,505 | 84 | 50 | 21 | 220,605 | 100,05 | 120,555 | 0,921 |
| Г1 | 12,74 | 91 | 50 | 21 | 267,54 | 122,4 | 145,14 | 0,836 |
| Г1 | 14,305 | 91 | 50 | 21 | 300,405 | 138,05 | 162,355 | 0,785 |
| Г2 | 2,225 | 100 | 14 | 21 | 46,725 | 17,25 | 29,475 | 1,476 |
| Г2 | 4,125 | 100 | 49 | 21 | 86,625 | 36,25 | 50,375 | 1,296 |
| Г2 | 6,325 | 99 | 51 | 21 | 132,825 | 58,25 | 74,575 | 1,136 |
| Г2 | 8,225 | 78 | 50 | 21 | 172,725 | 77,25 | 95,475 | 1,027 |
| Г2 | 10,18 | 70 | 50 | 21 | 213,78 | 96,8 | 116,98 | 0,934 |
| Г2 | 12,14 | 70 | 50 | 21 | 254,94 | 116,4 | 138,54 | 0,857 |
| Г2 | 14,01 | 70 | 50 | 21 | 294,21 | 135,1 | 159,11 | 0,794 |

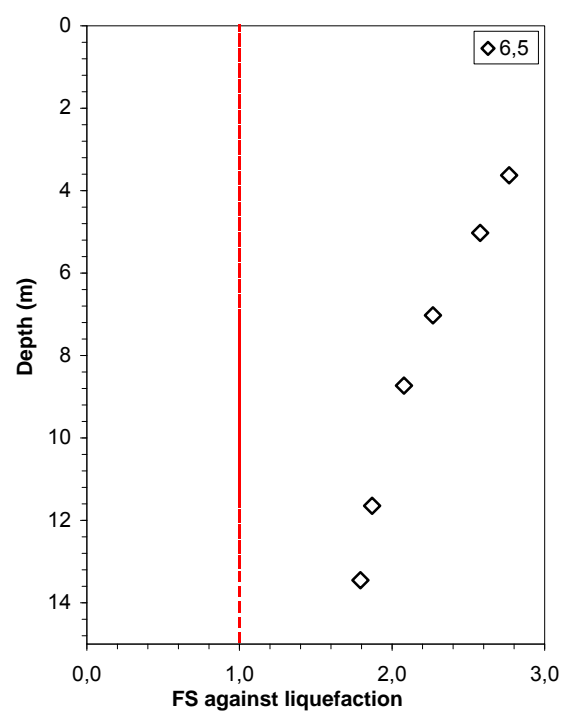
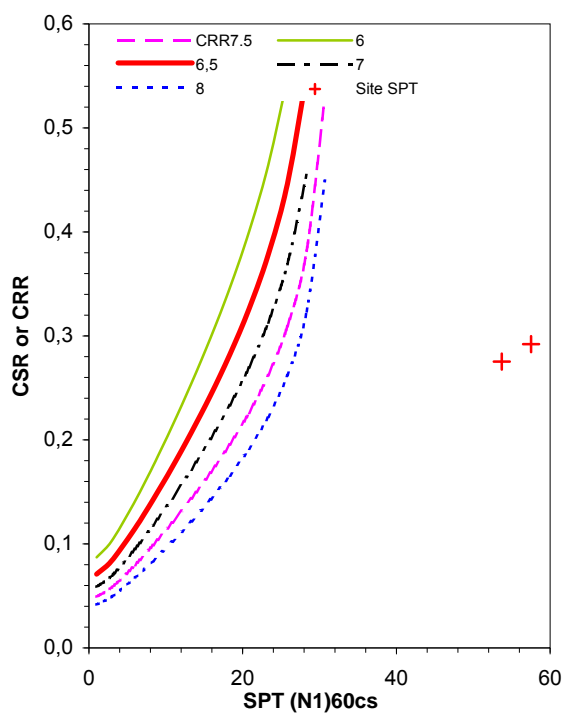
| | | | | | | | FS | FS |
|-----|---------------------------------|-----------------------------------|----------------|--------|--------------------|-------------------|------|------|
| a/a | (N ₁) ₆₀ | (N ₁) _{60cs} | r _d | CSR | CRR _{7,5} | FS _{7,5} | 6,5 | 6 |
| Г1 | 45 | 59 | 0,986 | 0,2823 | 0,3913 | 1,39 | 2,00 | 2,45 |
| Г1 | 67 | 85 | 0,975 | 0,3036 | 0,6080 | 2,00 | 2,89 | 3,54 |
| Г1 | 62 | 79 | 0,966 | 0,3099 | 0,5576 | 1,80 | 2,59 | 3,18 |
| Г1 | 55 | 71 | 0,950 | 0,3121 | 0,4944 | 1,58 | 2,28 | 2,80 |
| Г1 | 50 | 65 | 0,929 | 0,3091 | 0,4474 | 1,45 | 2,09 | 2,56 |
| Г1 | 46 | 60 | 0,894 | 0,3003 | 0,4032 | 1,34 | 1,94 | 2,38 |
| Г1 | 42 | 55 | 0,835 | 0,2824 | 0,3563 | 1,26 | 1,82 | 2,23 |
| Г1 | 39 | 52 | 0,784 | 0,2663 | 0,3259 | 1,22 | 1,76 | 2,17 |
| Г2 | 15 | 24 | 0,985 | 0,2866 | 0,2665 | 0,93 | 1,34 | 1,65 |
| Г2 | 64 | 81 | 0,972 | 0,3067 | 0,5755 | 1,88 | 2,71 | 3,32 |
| Г2 | 58 | 75 | 0,955 | 0,3121 | 0,5226 | 1,67 | 2,41 | 2,96 |
| Г2 | 51 | 67 | 0,934 | 0,3102 | 0,4579 | 1,48 | 2,13 | 2,61 |
| Г2 | 47 | 61 | 0,901 | 0,3023 | 0,4105 | 1,36 | 1,96 | 2,40 |
| Г2 | 43 | 56 | 0,853 | 0,2879 | 0,3684 | 1,28 | 1,85 | 2,26 |
| Г2 | 40 | 53 | 0,794 | 0,2694 | 0,3315 | 1,23 | 1,77 | 2,18 |



From **15** SPT data the **0** are Liquefaction Susceptible for 6.5 magnitude

Liquefaction Resistance Evaluation, 1996NCEER, 1998NCEER/NSF, Youd et al 2001

| | | | | | | | | |
|---------------------------------|------|-------|-----------------|------|--|--|-----------------|------|
| γ (kN/m ³) | 21 | | Magnitude | 6,5 | | <table><tr><td>α_{\max}</td><td>0,28</td></tr></table> | α_{\max} | 0,28 |
| α_{\max} | 0,28 | | | | | | | |
| γ_w (kN/m ³) | 10 | | α (NEAK) | 0,24 | | | | |
| z_w (m) | 0,5 | coeff | 0,85 | | | | | |

[illegible][illegible]

From **6** SPT data the **0** are Liquefaction Susceptible for 6.5 magnitude