

Liquefaction Analysis Results

ABC Engineering Inc.
Geotechnical Consulting Inc

Job Title : ABC Residential Building
Job No. : 109-5252
Client : HTP Investment Ltd
Address : 1725 Marine Drive, West Vancouver, BC, Canada
Calculated By : UH Reviewed By : AA

Borehole : BH-1
Coordinates:
X = 125452.5
Y = 35285.25
Z = 9.39

| Input Assumption | Setting |
|------------------------------------|---------------------------------|
| Field Test Type : | Standard Penetration Test (SPT) |
| Apply All Corrections to SPT? | True |
| Groundwater Level (m) = | 1.45 |
| Earthquake Magnitude M = | 7.2 |
| Magnitude Scaling Factor (MSF) : | Idriss, 1997 (NCEER) |
| Fines Content Correction : | (according to user settings) |
| Depth Reduction Factor (Rd) : | Idriss & Boulanger, 2007 |
| Relative Density (Dr) Estimation : | Gibbs & Holtz, 1957 |
| Site Topography : | Gently Sloped : 0.5 % |
| Ground Improvement Feature : | None |
| Peak Ground Acceleration PGA (g) = | 0.35 |

| CRR Formula | Selected? |
|------------------------------|-----------|
| NCEER Workshop (1997) | True |
| Boulanger & Idriss (2004) | True |
| Vancouver Task Force (2007) | False |
| Cetin et al. (2004) | False |
| Chinese Code | False |
| Seed et al. (1983) | False |
| Japanese Highway Bridge Code | False |
| Tokimatsu & Yoshimi (1983) | False |
| Shibata (1981) | False |
| Kokusho et al. (1983) | False |

| Depth (m) | SPT Blow Counts (N) |
|-----------|---------------------|
| 0.3 | 19 |
| 0.61 | 19 |
| 0.91 | 11 |
| 1.22 | 8 |
| 1.52 | 7 |
| 1.83 | 8 |
| 2.13 | 7 |
| 2.44 | 19 |
| 2.74 | 13 |
| 3.05 | 25 |
| 3.35 | 28 |
| 3.66 | 26 |
| 3.96 | 32 |
| 4.27 | 37 |
| 4.57 | 38 |
| 4.88 | 30 |
| 5.18 | 25 |
| 5.49 | 19 |
| 5.79 | 16 |
| 6.1 | 14 |
| 6.4 | 11 |
| 6.71 | 10 |
| 7.01 | 14 |
| 7.32 | 12 |
| 7.62 | 9 |
| 7.92 | 7 |
| 8.23 | 8 |
| 8.53 | 7 |
| 8.84 | 6 |
| 9.14 | 7 |
| 9.45 | 11 |
| 9.75 | 19 |
| 10.06 | 31 |
| 10.36 | 32 |
| 10.67 | 29 |
| 10.97 | 25 |
| 11.28 | 22 |
| 11.58 | 26 |
| 11.89 | 19 |
| 12.19 | 15 |
| 12.5 | 22 |
| 12.8 | 30 |
| 13.11 | 37 |
| 13.41 | 28 |
| 13.72 | 35 |
| 14.02 | 38 |

| Layer Thickness (m) | Soil Type | Unit Weight (kN/m3) | Fines Content (%) | D50 (mm) | Prone to Liquefaction? |
|---------------------|-----------|---------------------|-------------------|----------|------------------------|
| 5.5 | Clay | 16.5 | 5 | 0.1 | True |
| 4 | Sand | 18.7 | 10 | 0.2 | True |
| 3 | Silt | 19.5 | 11 | 0.05 | True |
| 4.5 | Sand | 16.5 | 8 | 0.1 | True |
| 10 | Gravel | 17 | 16 | 4 | True |

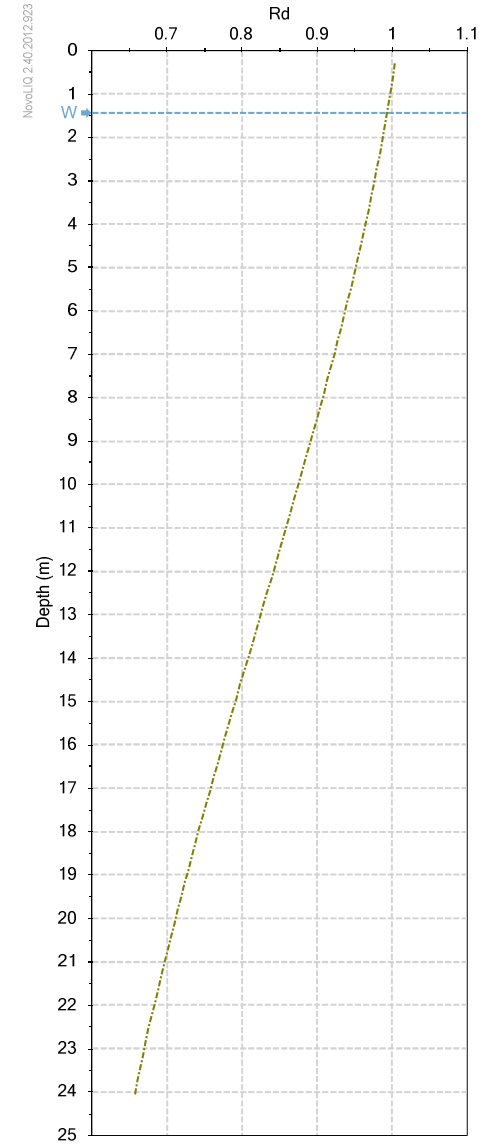
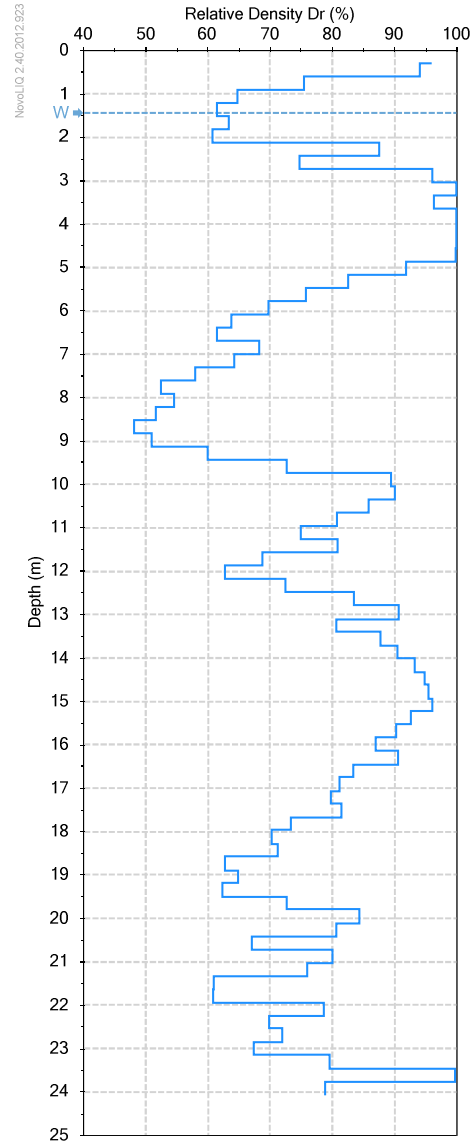
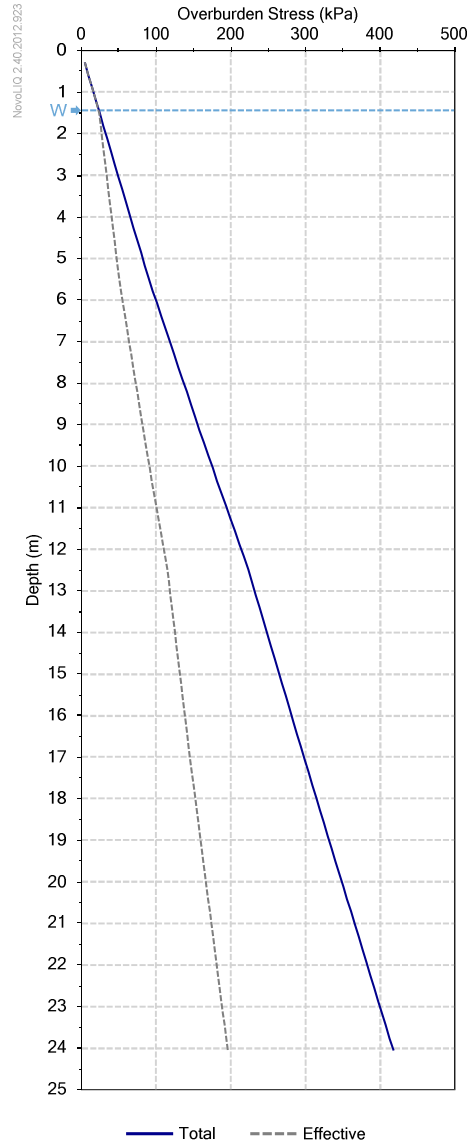
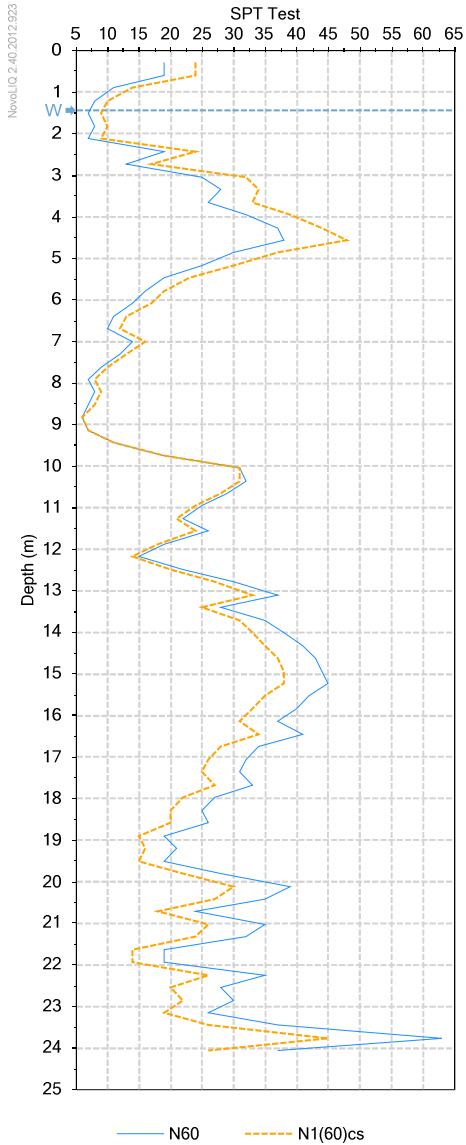
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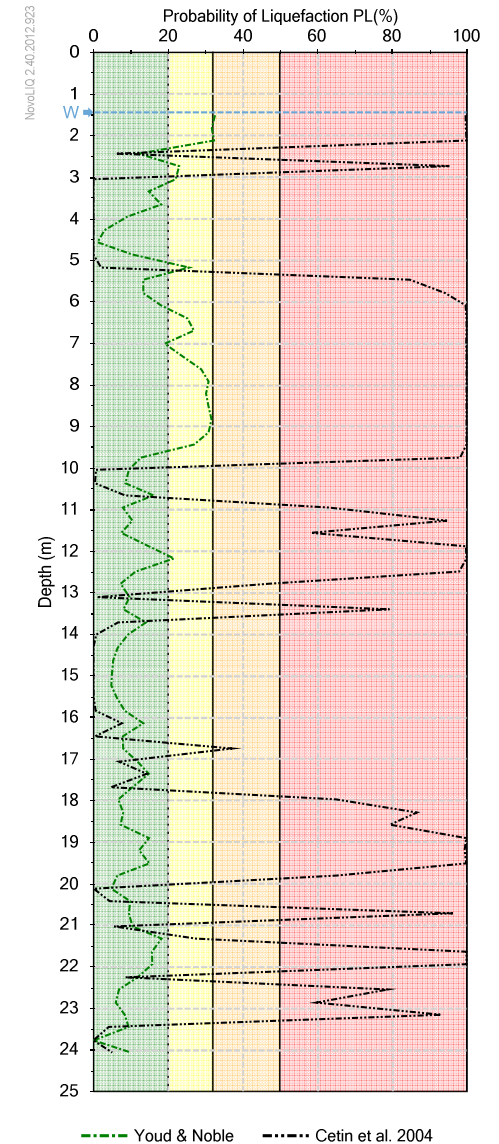
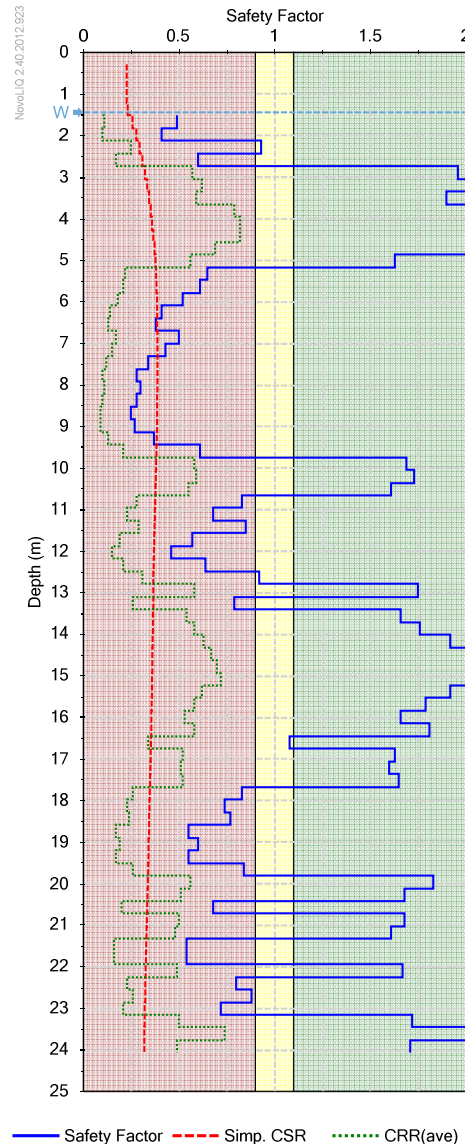
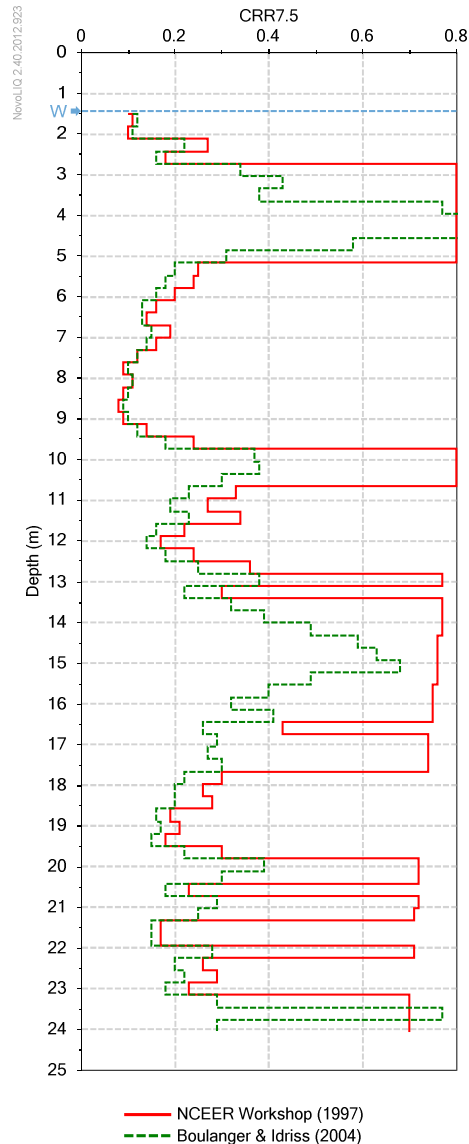
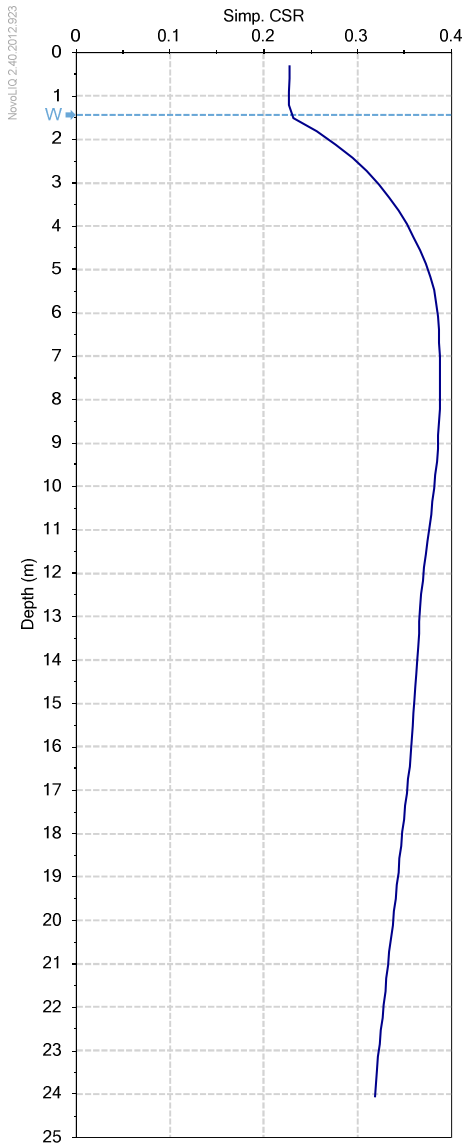


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