Tabella 2.1. Elenco terremoti storici nell’area in esame.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Anno** | **Area dei maggiori effetti** | **Lat** | **Lon** | **Magnitudo momento**  **Mw** |
| 1234 | FERRARA | 44.836 | 11.618 | 5.14 |
| 1249 | Modena | 44.647 | 10.925 | 4.93 |
| 1285 | FERRARA | 44.836 | 11.618 | 5.14 |
| 1323 | Bologna | 44.572 | 11.133 | 4.30 |
| 1339 | Ferrara | 44.836 | 11.618 | 4.72 |
| 1346 | Ferrara | 44.836 | 11.618 | 4.93 |
| 1409 | Ferrara | 44.836 | 11.618 | 4.72 |
| 1410 | FERRARA | 44.836 | 11.618 | 4.93 |
| 1411 | Ferrara | 44.836 | 11.618 | 5.14 |
| 1425 | FERRARA SUD | 44.833 | 11.667 | 4.72 |
| 1474 | MODENA | 44.647 | 10.925 | 4.30 |
| 1483 | FERRARA | 44.836 | 11.618 | 4.51 |
| 1505 | Bolognese | 44.508 | 11.231 | 5.57 |
| 1508 | FERRARA SUD | 44.833 | 11.667 | 4.72 |
| 1561 | Ferrara | 44.781 | 11.454 | 4.51 |
| 1570 | Ferrara | 44.824 | 11.632 | 5.46 |
| 1574 | FINALE EMILIA | 44.833 | 11.294 | 4.72 |
| 1586 | SPILAMBERTO | 44.583 | 11.000 | 4.72 |
| 1624 | Argenta | 44.642 | 11.848 | 5.47 |
| 1666 | Bolognese | 44.641 | 11.113 | 4.30 |
| 1695 | FERRARA | 44.836 | 11.618 | 4.51 |
| 1743 | FERRARA | 44.836 | 11.618 | 4.93 |
| 1780 | Bolognese | 44.568 | 11.309 | 5.13 |
| 1787 | Ferrara | 44.836 | 11.618 | 4.51 |
| 1796 | Emilia orientale | 44.615 | 11.670 | 5.61 |
| 1850 | Modenese | 44.572 | 11.133 | 4.30 |
| 1895 | COMACCHIO | 44.685 | 11.987 | 4.74 |
| 1895 | Villanova Marchesana | 45.008 | 11.960 | 4.11 |
| 1898 | Romagna settentrionale | 44.645 | 11.771 | 4.79 |
| 1901 | POGGIO RUSCO | 45.000 | 11.100 | 4.72 |
| 1908 | Finale Emilia | 44.835 | 11.329 | 4.27 |
| 1909 | BASSA PADANA | 44.579 | 11.688 | 5.53 |
| 1910 | Bassa modenese | 44.821 | 11.162 | 4.30 |
| 1922 | Ferrarese | 44.821 | 11.408 | 3.87 |
| 1931 | Ferrarese | 44.821 | 11.764 | 4.81 |
| 1931 | Modenese | 44.541 | 11.021 | 4.13 |
| 1956 | ARGENTA | 44.919 | 11.899 | 4.72 |
| 1963 | Finale Emilia | 44.826 | 11.265 | 4.09 |
| 1967 | BASSA PADANA | 44.604 | 11.997 | 5.11 |
| 1970 | Bassa modenese | 44.853 | 11.167 | 4.09 |
| 1978 | Bassa mantovana | 44.845 | 10.990 | 4.52 |
| 1986 | BONDENO | 44.879 | 11.334 | 4.70 |
| 1987 | Bassa modenese | 44.828 | 11.197 | 4.65 |

Tabella 2.2. Sequenza sismica maggio-giugno 2012: eventi di magnitudo superiore a 3.5.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data** | **Lat** | **Lon** | **Profondità** | **Magnitudo**  **momento MW** |
| 19/06/2012 | 44.903 | 11.033 | 6.6 | 3.5 |
| 15/06/2012 | 44.893 | 11.324 | 3.1 | 3.7 |
| 15/06/2012 | 44.874 | 11.271 | 7.5 | 3.6 |
| 14/06/2012 | 44.917 | 11.002 | 6.1 | 3.6 |
| 04/06/2012 | 44.926 | 10.98 | 5 | 3.8 |
| 03/06/2012 | 44.899 | 10.943 | 9.2 | 5.1 |
| 03/06/2012 | 44.896 | 10.981 | 6.9 | 3.8 |
| 01/06/2012 | 44.948 | 10.914 | 2.3 | 3.5 |
| 01/06/2012 | 44.877 | 10.986 | 6.7 | 3.6 |
| 31/05/2012 | 44.891 | 10.98 | 8.7 | 4.2 |
| 31/05/2012 | 44.899 | 10.988 | 2.8 | 3.6 |
| 31/05/2012 | 44.872 | 11.262 | 4.5 | 3.6 |
| 30/05/2012 | 44.931 | 10.937 | 5 | 3.8 |
| 29/05/2012 | 44.921 | 10.947 | 2.7 | 3.9 |
| 29/05/2012 | 44.882 | 11.068 | 20.6 | 3.9 |
| 29/05/2012 | 44.903 | 11.049 | 24.8 | 3.7 |
| 29/05/2012 | 44.692 | 11.32 | 10 | 3.8 |
| 29/05/2012 | 44.876 | 11.076 | 15 | 4 |
| 29/05/2012 | 44.879 | 10.947 | 5.4 | 5.2 |
| 29/05/2012 | 44.873 | 10.95 | 11 | 4.9 |
| 29/05/2012 | 44.888 | 11.008 | 6.8 | 5.3 |
| 29/05/2012 | 44.877 | 11.109 | 8 | 3.6 |
| 29/05/2012 | 44.892 | 11.053 | 1.2 | 4.2 |
| 29/05/2012 | 44.859 | 11.023 | 11 | 3.5 |
| 29/05/2012 | 44.917 | 11.035 | 10 | 3.5 |
| 29/05/2012 | 44.892 | 10.962 | 5.3 | 4.2 |
| 29/05/2012 | 44.892 | 10.978 | 10.5 | 3.6 |
| 29/05/2012 | 44.857 | 11.055 | 10 | 3.7 |
| 29/05/2012 | 44.854 | 11.106 | 10 | 4.7 |
| 29/05/2012 | 44.901 | 10.943 | 3.2 | 4.5 |
| 29/05/2012 | 44.879 | 11.079 | 10.3 | 3.8 |
| 29/05/2012 | 44.88 | 11.131 | 5 | 3.9 |
| 29/05/2012 | 44.888 | 11.12 | 5.9 | 3.7 |
| 29/05/2012 | 44.885 | 11.062 | 5 | 3.6 |
| 29/05/2012 | 44.874 | 10.934 | 11 | 3.6 |
| 29/05/2012 | 44.915 | 11.085 | 8 | 3.6 |
| 29/05/2012 | 44.927 | 11.11 | 10 | 3.6 |
| 29/05/2012 | 44.926 | 11.036 | 10.4 | 4.1 |
| 29/05/2012 | 44.854 | 10.992 | 10 | 4 |
| 29/05/2012 | 44.851 | 11.086 | 10.2 | 5.8 |
| 27/05/2012 | 44.892 | 11.15 | 4.1 | 3.8 |
| 27/05/2012 | 44.882 | 11.158 | 4.7 | 4 |
| 26/05/2012 | 44.838 | 11.166 | 10.4 | 3.8 |
| 25/05/2012 | 44.883 | 11.108 | 10 | 4 |
| 25/05/2012 | 44.861 | 11.258 | 6.1 | 3.9 |
| 23/05/2012 | 44.868 | 11.251 | 4.8 | 4.3 |
| 23/05/2012 | 44.866 | 11.184 | 9.7 | 3.7 |
| 22/05/2012 | 44.85 | 11.265 | 14.9 | 3.8 |
| 22/05/2012 | 44.85 | 11.074 | 6.9 | 3.7 |
| 21/05/2012 | 44.867 | 11.251 | 14.8 | 3.5 |
| 21/05/2012 | 44.847 | 11.259 | 16.7 | 3.6 |
| 21/05/2012 | 44.851 | 11.348 | 10.4 | 4.1 |
| 21/05/2012 | 44.839 | 11.256 | 15 | 3.5 |
| 21/05/2012 | 44.879 | 11.12 | 5 | 3.5 |
| 20/05/2012 | 44.868 | 11.355 | 5 | 3.7 |
| 20/05/2012 | 44.836 | 11.479 | 5 | 3.6 |
| 20/05/2012 | 44.95 | 11.251 | 10 | 3.5 |
| 20/05/2012 | 44.876 | 11.382 | 3.2 | 4.5 |
| 20/05/2012 | 44.879 | 11.329 | 5.3 | 3.7 |
| 20/05/2012 | 44.882 | 11.383 | 2.4 | 4.1 |
| 20/05/2012 | 44.831 | 11.49 | 4.7 | 5.1 |
| 20/05/2012 | 44.866 | 11.366 | 2.2 | 3.9 |
| 20/05/2012 | 44.887 | 11.345 | 1.2 | 3.5 |
| 20/05/2012 | 44.915 | 11.132 | 5.2 | 3.8 |
| 20/05/2012 | 44.879 | 11.241 | 3.1 | 4.2 |
| 20/05/2012 | 44.875 | 11.1 | 6.6 | 3.6 |
| 20/05/2012 | 44.925 | 11.093 | 10 | 3.5 |
| 20/05/2012 | 44.886 | 11.514 | 9.2 | 3.5 |
| 20/05/2012 | 44.859 | 11.295 | 9.2 | 3.7 |
| 20/05/2012 | 44.876 | 11.16 | 3.7 | 3.7 |
| 20/05/2012 | 44.86 | 11.095 | 10 | 4.9 |
| 20/05/2012 | 44.778 | 11.341 | 10 | 3.8 |
| 20/05/2012 | 44.85 | 11.412 | 2.2 | 3.6 |
| 20/05/2012 | 44.894 | 11.261 | 5.2 | 4 |
| 20/05/2012 | 44.856 | 11.191 | 10 | 3.7 |
| 20/05/2012 | 44.876 | 11.548 | 10 | 4 |
| 20/05/2012 | 44.923 | 11.265 | 10 | 3.8 |
| 20/05/2012 | 44.874 | 11.475 | 10 | 3.5 |
| 20/05/2012 | 44.872 | 11.412 | 5 | 3.6 |
| 20/05/2012 | 44.871 | 11.348 | 10 | 4 |
| 20/05/2012 | 44.892 | 11.155 | 5 | 4.1 |
| 20/05/2012 | 44.905 | 11.395 | 10 | 3.8 |
| 20/05/2012 | 44.823 | 11.218 | 20.4 | 4.3 |
| 20/05/2012 | 44.84 | 11.367 | 7.8 | 4.3 |
| 20/05/2012 | 44.863 | 11.37 | 5 | 5.1 |
| 20/05/2012 | 44.886 | 11.189 | 7.7 | 4.8 |
| 20/05/2012 | 44.889 | 11.228 | 6.3 | 5.9 |
| 19/05/2012 | 44.898 | 11.258 | 6.2 | 4.1 |

Tabella 2.3 Principali caratteristiche dei segnali sismici di riferimento.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **codice** | **PGA** | **PGV** | **PGD** | **d90** | **Ia** | **SI** | **SI05** | **SI15** |
| **[g]** | **[m/s]** | **[m]** | **[s]** | **[m/s]** | **[m]** | **[m]** | **[m]** |
| 000046xa\_038008 | 0.132 | 0.060 | 0.006 | 13.480 | 0.197 | 0.168 | 0.048 | 0.094 |
| 000126xa\_038008 | 0.132 | 0.075 | 0.006 | 3.525 | 0.054 | 0.180 | 0.045 | 0.096 |
| 000354xa\_038008 | 0.132 | 0.065 | 0.014 | 15.355 | 0.212 | 0.279 | 0.048 | 0.143 |

Tabella 4.1 Indagini geognostiche pregresse.

|  |  |  |
| --- | --- | --- |
| **ID\_SPU** | **Codice** | **Tipo Prova** |
| 038008P102 | 203030U023 Cispadana CPTU451 | CPTU |
| 038008P101 | 203030U022 Cispadana CPTU452 | CPTU |
| 038008P99 | 203030U020 Cispadana CPTU453 | CPTU |
| 038008P100 | 203030U021 Cispadana CPTU454 | CPTU |
| 038008P96 | 203030U017 Cispadana CPTU455 | CPTU |
| 038008P95 | 203030U016 Cispadana CPTU456 | CPTU |
| 038008P98 | 203030U019 Cispadana CPTU457 | CPTU |
| 038008P97 | 203030U018 Cispadana CPTU458 | CPTU |
| 038008P94 | 203030U015 Cispadana CPTU459 | CPTU |
| 038008P93 | 203030U014 Cispadana CPTU460 | CPTU |
| 038008P92 | 203030U013 Cispadana CPTU461 | CPTU |
| 038008P90 | 203030U011 Cispadana CPTU462 | CPTU |
| 038008P89 | 203030U010 Cispadana CPTU463 | CPTU |
| 038008P88 | 203030U009 Cispadana CPTU464 | CPTU |
| 038008P86 | 203030U007 Cispadana CPTU465 | CPTU |
| 038008P85 | 203030U006 Cispadana CPTU466 | CPTU |
| 038008P87 | 203030U008 Cispadana CPTU467 | CPTU |
| 038008P84 | 203030U005 Cispadana CPTU469 | CPTU |
| 038008P83 | 203030U004 Cispadana CPTU468 | CPTU |
| 038008P82 | 203030U003 Cispadana CPTU470 | CPTU |
| 038008P81 | 203030U002 Cispadana CPTU471 | CPTU |
| 038008P80 | 203030U001 Cispadana CPTU472 | CPTU |
| 038008P91 | 203030U012 Cispadana CPTU661 | CPTU |
| 038008P505 | 203030U051 Cispadana96 CPTU1 | CPTU |
| 038008P506 | 203030U052 Cispadana96 CPTU2 | CPTU |
| 038008P507 | 203030U048 Cispadana96 CPTU3 | CPTU |
| 038008P508 | 203030U049 Cispadana96 CPTU4 | CPTU |
| 038008P601 | Cispadana96 CPTU5 | CPTU |
| 038008P509 | 203030U050 Cispadana96 CPTU6 | CPTU |
| 038008P510 | 203030U053 Cispadana96 CPTU18 | CPTU |
| 038008P511 | 203030U054A Cispadana96 CPTU19 | CPTU |
| 038008P512 | 203030U054B Cispadana96 CPTU20 | CPTU |
| 038008P513 | 203030U055 Cispadana96 CPTU21 | CPTU |
| 038008P514 | 203030U057 Cispadana96 CPTU22 | CPTU |
| 038008P515 | 203030U410 Cispadana96 CPTU23 | CPTU |
| 038008P103 | 185060U517 U168FE | CPTU |
| 038008P104 | 185060U519 U170FE | CPTU |
| 038008P105 | 185060U521 U173FE | CPTU |
| 038008P106 | 185060U523 U177FE | CPTU |
| 107038008P | 185060U525 U179FE | CPTU |
| 038008P108 | 185070U503 U180FE | CPTU |
| 038008P109 | 185070U505 U182FE | CPTU |
| 038008P110 | 185070U506 U183FE | CPTU |
| 038008P111 | 185070U508 U185FE | CPTU |
| 038008P112 | 185070U509 U186FE | CPTU |
| 038008P113 | 185070U511 U188FE | CPTU |
| 038008P114 | 185070U512 U189FE | CPTU |
| 038008P115 | 185070U514 U191FE | CPTU |
| 038008P116 | 185070U516 U194FE | CPTU |
| 038008P117 | 185110U502 U195FE | CPTU |
| 038008P118 | 185070U517 U198FE | CPTU |
| 038008P119 | 185070U519 U200FE | CPTU |
| 038008P120 | 185070U520 U201FE | CPTU |
| 038008P121 | 185070U522 U203FE | CPTU |
| 038008P122 | 185120U502 U204FE | CPTU |
| 038008P123 | 185120U504 U206FE | CPTU |
| 038008P124 | 185120U505 U207FE | CPTU |
| 038008P125 | 185120U507 U209FE | CPTU |
| 038008P126 | 185110U504 U210FE | CPTU |
| 038008P127 | 185150U503 U211FE | CPTU |
| 038008P128 | 185150U504 U212FE | CPTU |
| 038008P129 | 185120U508 U213FE | CPTU |
| 038008P130 | 185120U510 U215FE | CPTU |
| 038008P131 | 185120U511U216FE | CPTU |
| 038008P132 | 185120U513 U218FE | CPTU |
| 038008P133 | 185120U514U219FE | CPTU |
| 038008P134 | 185120U516 U221FE | CPTU |
| 038008P135 | 185120U517 U222FE | CPTU |
| 038008P136 | 185120U519 U224FE | CPTU |
| 137038008P | 185120U520 U225FE | CPTU |
| 038008P138 | 185120U522 U227FE | CPTU |
| 038008P139 | 186090U502 U228FE | CPTU |
| 038008P140 | 186130U504 U229FE | CPTU |
| 038008P141 | 186130U505U230FE | CPTU |
| 038008P142 | 185080U503 U233FE | CPTU |
| 038008P143 | 185080U505 U236FE | CPTU |
| 038008P144 | 186050U502 U237FE | CPTU |
| 038008P145 | 186050U504 U239FE | CPTU |
| 038008P146 | 186050U505 U240FE | CPTU |
| 038008P147 | 186050U507 U242FE | CPTU |
| 038008P148 | 186050U508 U243FE | CPTU |
| 038008P149 | 186050U510 U245FE | CPTU |
| 038008P655 | 186090U503 U246FE | CPTU |
| 038008P656 | 186090U504 U247FE | CPTU |
| 038008P657 | 186050U512 U251FE | CPTU |
| 038008P620 | ADBPO CPTU20 | CPTU |
| 038008P621 | ADBPO CPTU21 | CPTU |
| 038008P615 | 186050U511 CPTU28 | CPTU |
| 038008P1 | ADBPO U248 CO | CPTU |
| 038008P551 | 1ACS08 SCPTU1 | SCPTU |
| 038008P552 | 1ACS08 SCPTU2 | SCPTU |
| 038008P553 | 1ACS23 SCPTU1 | SCPTU |
| 038008P554 | 1ACS23 SCPTU 2 | SCPTU |
| 038008P555 | 2ANS01 SCPTU1 | SCPTU |
| 038008P556 | 2ANS01 SCPTU2 | SCPTU |
| 038008P557 | 4ANS01 SCPTU1 | SCPTU |
| 038008P558 | 4ANS01 SCPTU2 | SCPTU |
| 038008P559 | 4ANS02 SCPTU1 | SCPTU |
| 038008P560 | 4ANS02 SCPTU2 | SCPTU |
| 038008P561 | 4ASPCN01 SCPTU1 | SCPTU |
| 038008P562 | 4ASPCN01 SCPTU2 | SCPTU |
| 038008P563 | 4ASPCN02 SCPTU1 | SCPTU |
| 038008P564 | 4ASPCN02 SCPTU2 | SCPTU |
| 038008P565 | 5ANS01 5ANS03 SCPTU1 | SCPTU |
| 038008P566 | 5ANS01 5ANS03 SCPTU2 | SCPTU |
| 038008P567 | 5ANS02 SCPTU1 | SCPTU |
| 038008P568 | 5ANS02 SCPTU2 | SCPTU |
| 038008P569 | 6ANS 01 SCPTU1 | SCPTU |
| 038008P570 | 6ANS 01 SCPTU2 | SCPTU |
| 038008P571 | 7ANS01 SCPTU1 | SCPTU |
| 038008P572 | 7ANS01 SCPTU2 | SCPTU |
| 038008P573 | 7 ANS02 SCPTU1 | SCPTU |
| 038008P574 | 7 ANS02 SCPTU2 | SCPTU |
| 038008P575 | 7ANS 03 SCPTU1 | SCPTU |
| 038008P576 | 7ANS 03 SCPTU2 | SCPTU |
| 038008P577 | 7ANS04 SCPTU1 | SCPTU |
| 038008P578 | 7ANS04 SCPTU2 | SCPTU |
| 038008P579 | 8ANS01 SCPTU1 | SCPTU |
| 038008P580 | 8ANS01 SCPTU2 | SCPTU |
| 038008P581 | 8ANS02 SCPTU1 | SCPTU |
| 038008P582 | 8ANS02 SCPTU2 | SCPTU |
| 038008P583 | 10ANS 01 SCPTU1 | SCPTU |
| 038008P584 | 10ANS 01 SCPTU2 | SCPTU |
| 038008P585 | 10ANS 02 SCPTU1 | SCPTU |
| 038008P586 | 10ANS 02 SCPTU2 | SCPTU |
| 038008P587 | 12AR 01 SCPTU1 | SCPTU |
| 038008P588 | 12AR 01 SCPTU2 | SCPTU |
| 038008P589 | 14 ANS 01 SCPTU1 | SCPTU |
| 038008P590 | 14 ANS 01 SCPTU2 | SCPTU |
| 038008P591 | 14 ANS 02 SCPTU1 | SCPTU |
| 038008P592 | 14 ANS 02 SCPTU2 | SCPTU |
| 038008P593 | 18 ANS 01 SCPTU1 | SCPTU |
| 038008P594 | 18 ANS 01 SCPTU2 | SCPTU |
| 038008P595 | 18 ANS 02 SCPTU1 | SCPTU |
| 038008P596 | 18 ANS 02 SCPTU2 | SCPTU |
| 038008P597 | 18 ANS 03 SCPTU1 | SCPTU |
| 038008P598 | 18 ANS 03 SCPTU2 | SCPTU |
| 038008P599 | 18ANS 04 18ANS 05 SCPTU1 | SCPTU |
| 038008P600 | 18ANS 04 18ANS 05 SCPTU2 | SCPTU |
| 038008P519 | 19ANS 01 SCPTU1 | CPTU |
| 038008P520 | 19ANS 01 SCPTU2 | CPTU |
| 038008P521 | 21ANS 01 SCPTU1 | CPTU |
| 038008P522 | 21ANS 01 SCPTU2 | SCPTU |
| 038008P523 | 21ANS 02 SCPTU1 | SCPTU |
| 038008P524 | 21ANS 02 SCPTU2 | SCPTU |
| 038008P525 | 25AAP2 01 SCPTU1 | SCPTU |
| 038008P526 | 25AAP2 01 SCPTU2 | SCPTU |
| 038008P527 | 25AVN 01 SCPTU1 | SCPTU |
| 038008P528 | 25AVN 01 SCPTU2 | SCPTU |
| 038008P529 | 6ANS 02 SCPTU2 | SCPTU |
| 038008P530 | 6ANS 02 SCPTU1 | SCPTU |
| 038008P531 | 21ANS 03 SCPTU1 | SCPTU |
| 038008P532 | 21ANS 03 SCPTU2 | SCPTU |
| 038008P533 | 25AVP 01 SCPTU1 | SCPTU |
| 038008P534 | 25AVP 01 SCPTU2 | CPTU |
| 038008P535 | 25AVP 01 SCPTU3 | CPTU |
| 038008P536 | 1ACS26 01 SCPTU1 | CPTU |
| 038008P537 | 1ACS26 01 SCPTU2 | SCPTU |
| 038008P538 | 21 ANS 04\_12 SCPTU1 | SCPTU |
| 038008P539 | 21 ANS 04\_13 SCPTU2 | SCPTU |
| 038008P540 | 21 ANS 04\_12 SCPTU2 | SCPTU |
| 038008P541 | 21 ANS 04\_13 SCPTU1 | SCPTU |
| 038008P542 | 18ANS 06 SCPT1 | SCPTU |
| 038008P543 | 18ANS 06 SCPT2 | SCPTU |
| 038008P544 | 18ANS 06 SCPT3 | SCPTU |
| 038008P545 | 18ANS 06 SCPT4 | CPTU |
| 038008P546 | ex caserma SCPTU1 | SCPTU |
| 038008P547 | ex caserma SCPTU2 | CPTU |
| 038008P548 | SCPTU 01 San Bartolomeo in Bosco | SCPTU |
| 038008P3 | SCPTU 02 Quartesana | CPTU |
| 038008P549 | SCPTU 03 Scuola Materna Guido Rossa | SCPTU |
| 038008P550 | SCPTU 04 via Bellonci via Serao | SCPTU |
| 038008P4 | SCPTU 05 Palazzo delle Palestre | CPTU |
| 038008P150 | SCPTU 06 Mura di Porta Po | CPTU |
| 038008P151 | SCPTU 07 via Bagaro | CPTU |
| 038008P152 | SCPTU 08 Liceo Ariosto | CPTU |
| 038008P153 | SCPTU 09 scuola media Tasso Boario | CPTU |
| 038008P154 | SCPTU 10 Piazzale Giordano Bruno | CPTU |
| 038008P155 | SCPTU 11 viale Costituzione | CPTU |
| 038008P156 | SCPTU 12 C.Govoni | CPTU |
| 038008P157 | SCPTU 13 | CPTU |
| 038008P158 | SCPTU 15 Biblioteca Ariostea | CPTU |
| 038008P159 | SCPTU 17 Istituto Compensivo Cosmè Tura | CPTU |
| 038008P160 | SCPTU 18 Scuola Materna Ponte | CPTU |
| 038008P161 | SCPTU 19 Via Lana | CPTU |
| 038008P162 | SCPTU 20 Via Cattaneo | CPTU |
| 038008P163 | SCPTU 21 Scuola Elementare Manzoni | CPTU |
| 038008P2 | SCPTU 22 Casaglia | CPTU |
| 038008P164 | SCPTU 24 via Renata di Francia | CPTU |
| 038008P165 | SCPTU 25 via dei Cedri | CPTU |
| 038008P166 | SCPTU 26 Monestirolo | CPTU |
| 038008P167 | SCPTU 27 Denore | CPTU |
| 038008P168 | SCPTU 28 Scuola media D. Alighieri | CPTU |
| 038008P169 | SCPTU 29 Cona | CPTU |
| 038008P170 | SCPTU 30 Fiera | CPTU |
| 038008P171 | SCPTU 31 Palaspost comunale | CPTU |
| 038008P172 | SCPTU 32 Ravalle | CPTU |
| 038008P173 | SCPTU 33 via Pacinotti | CPTU |
| 038008P174 | SCPTU 34 Scuola materna Satellite | CPTU |
| 038008P175 | SCPTU 35 Scuola materna Jovine | CPTU |
| 038008P176 | SCPTU 36 Fossanova San Marco | CPTU |
| 038008P177 | SCPTU 37 Scuola d'infanzia La Mongolfiera | CPTU |
| 038008P178 | SCPTU 38 Scuola elementare B. Rossetti | CPTU |
| 038008P179 | SCPTU 39 Gaibanella | CPTU |
| 038008P180 | SCPTU 40 Scuola elementare Guarini | CPTU |
| 038008P181 | SCPTU 41 Scuola elementare Leopardi | CPTU |
| 038008P182 | SCPTU 42 Scuola elementare Francolino | CPTU |
| 038008P183 | SCPTU 43 Malborghrtto di Boara | CPTU |
| 038008P184 | SCPTU 44 Scuola elementare Bombonati | CPTU |
| 038008P185 | SCPTU 45 Villanova di Denore | CPTU |
| 038008P186 | SCPTU 46 Scuola elementare Tumiati | CPTU |
| 038008P187 | SCPTU 47 via Bologna | CPTU |
| 038008P188 | SCPTU 48 I Girasoli | CPTU |
| 038008P189 | SCPTU 49 Nido Cavallari | CPTU |
| 038008P190 | SCPTU 50 Scuola materna l'Aquilone | CPTU |
| 038008P191 | SCPTU 51 Scuola Ugo Costa | CPTU |
| 038008P192 | SCPTU 52 Nido Il Ciliegio | CPTU |
| 038008P193 | SCPTU 53 Scuola materna Benzi | CPTU |
| 038008P194 | Confortino CPTU 05 | CPTU |
| 038008P195 | Confortino CPTU 06 | CPTU |
| 038008P196 | Mizzana CPTU 08 | CPTU |
| 038008P198 | Bardella SCPTU 01 | CPTU |
| 038008P199 | Bardella SCPTU 02 | CPTU |
| 038008P200 | Betto SCPTU 03 | CPTU |
| 038008P197 | Betto SCPTU 04 | CPTU |
| 038008P628 | Mizzana SCPTU 07 | CPTU |
| 038008P622 | FS SCPTU 09 | CPTU |
| 038008P484 | FS SCPTU 10 | CPTU |
| 038008P485 | Area attracco SCPTU 11 | CPTU |
| 038008P486 | Area attracco SCPTU 12 | CPTU |
| 038008P487 | Prog. 1250 SCPTU 13 | CPTU |
| 038008P488 | Resistenza SCPTU 14 | CPTU |
| 038008P489 | Prog. 3800 SCPTU 15 | CPTU |
| 038008P490 | San Giacomo CPTU 17 | CPTU |
| 038008P491 | Pace CPTU 19 | CPTU |
| 038008P654 | San Giorgio CPTU22 | CPTU |
| 038008P493 | San Giacomo SCPTU 16 | CPTU |
| 038008P208 | Pace SCPTU 18 | CPTU |
| 038008P209 | Porta Reno SCPTU 20 | CPTU |
| 038008P210 | San Giorgio SCPTU 21 | CPTU |
| 038008P211 | Caldirolo SCPTU 24 | CPTU |
| 038008P212 | Caldirolo SCPTU 23 | CPTU |
| 038008P213 | Addolorata SCPTU1 | CPTU |
| 038008P214 | Addolorata SCPTU2 | CPTU |
| 038008P215 | Addolorata CPTU3 | CPTU |
| 038008P216 | Fossalta SCPTU1 | CPTU |
| 038008P217 | Fossalta CPTU2 | CPTU |
| 038008P218 | Fossalta SCPTU3 | CPTU |
| 038008P219 | SABB CPTU 01 | CPTU |
| 038008P220 | SABB SCPTU 02 | CPTU |
| 038008P221 | SABB BIS SCPTU 01 | CPTU |
| 038008P222 | SABB BIS CPTU 02 | CPTU |
| 038008P223 | 185060U504 | CPTU |
| 038008P224 | 185070U502 | CPTU |
| 038008P225 | 185110U501 | CPTU |
| 038008P226 | 185120U501 | CPTU |
| 038008P227 | 185150U501 | CPTU |
| 038008P228 | 185150U502 | CPTU |
| 038008P229 | 185160U501 | CPTU |
| 038008P230 | 185160U502 | CPTU |
| 038008P231 | 185160U503 | CPTU |
| 038008P629 | 185160U504 | SCPTU |
| 038008P630 | 186090U501 | SCPTU |
| 038008P631 | 186130U501 | SCPTU |
| 038008P632 | 186130U502 | SCPTU |
| 038008P633 | 186130U503 | SCPTU |
| 038008P634 | 186140U501 | SCPTU |
| 038008P635 | 203030U502 | SCPTU |
| 038008P636 | 203030U507 | SCPTU |
| 038008P637 | 203040U501 | SCPTU |
| 038008P638 | 203040U503 | SCPTU |
| 038008P639 | 203040U502 | SCPTU |
| 038008P640 | 203040U505 | SCPTU |
| 038008P641 | 203040U506 | SCPTU |
| 038008P642 | 203040U507 | SCPTU |
| 038008P643 | 203040U508 | CPTE |
| 038008P644 | 203040U509 | CPTE |
| 038008P645 | 203070U508 | CPTE |
| 038008P646 | 203080U501 | CPTE |
| 038008P232 | 203080U502 | CPT |
| 038008P233 | 203080U503 | CPT |
| 038008P234 | 203080U504 | CPT |
| 038008P237 | 203080U505 | CPT |
| 038008P238 | 203080U506 | CPT |
| 038008P239 | 203080U507 | CPT |
| 038008P240 | 203080U509 | CPT |
| 038008P241 | 203120U509 | CPT |
| 038008P242 | 204010U504 | CPT |
| 038008P243 | 204010U507 | CPT |
| 038008P244 | 204010U508 | CPT |
| 038008P245 | 204010U515 | CPT |
| 038008P246 | 204010U511 | CPT |
| 038008P247 | 204010U512 | CPT |
| 038008P248 | 204020U509 | CPT |
| 038008P249 | 204030U501 | CPT |
| 038008P250 | 204030U502 | CPT |
| 038008P251 | 204050U501 | CPT |
| 038008P252 | 204050U502 | CPT |
| 038008P253 | 204050U504 | CPT |
| 038008P254 | 204050U505 | CPT |
| 038008P255 | 204050U512 | CPT |
| 038008P256 | 186150U503 | CPT |
| 038008P257 | 186140U502 | CPT |
| 038008P258 | 204050U511X | CPT |
| 038008P259 | 203030U504 | CPT |
| 038008P260 | 203070U502 | CPT |
| 038008P261 | 185110U510 Incubatore CPTU1 | CPT |
| 038008P262 | 185110U511 Incubatore CPTU2 | CPT |
| 038008P263 | 185110U512 Incubatore CPTU3 | CPT |
| 038008P264 | 185110U513 Incubatore CPTU4 | CPT |
| 038008P265 | 185110U514 Incubatore CPTU5 | CPT |
| 038008P266 | 185160U505 Ex Riseria CPTU1 | CPT |
| 038008P7 | 185160U506 Ex Riseria CPTU2 | CPT |
| 038008P6 | 185160U507 Ex Riseria CPTU3 | CPT |
| 038008P5 | 185160U508 Ex Riseria CPTU4 | CPT |
| 038008P270 | 185160U509 Ex Riseria CPTU5 | CPT |
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| 038008P272 | SEF2 | CPT |
| 038008P273 | SEF3 | CPT |
| 038008P274 | SEF4 | CPT |
| 038008P275 | SEF5 | CPT |
| 038008P276 | SEF6 | CPT |
| 038008P277 | SEF7 | CPT |
| 038008P278 | SEF8 | CPT |
| 038008P279 | SEF9 | CPT |
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| 038008P281 | SEF11 | CPT |
| 038008P282 | SEF13 | CPT |
| 038008P283 | SEF14 | CPT |
| 038008P284 | SEF15 | CPT |
| 038008P285 | SEF16 | CPT |
| 038008P286 | SEF17 | CPT |
| 038008P287 | SEF18 | CPT |
| 038008P288 | SEF19 | CPT |
| 038008P289 | SEF20 | CPT |
| 038008P290 | SEF22 | CPT |
| 038008P291 | SEF23 | CPT |
| 038008P292 | SEF24 | CPT |
| 038008P293 | SEF25 | CPT |
| 038008P294 | SEF26 | CPT |
| 038008P308 | PG 76663/06 CPTE2 | CPT |
| 038008P309 | PG 76663/06 CPTE3 | CPT |
| 038008P310 | PG 76663/06 CPTE4 | CPT |
| 038008P311 | PG 76663/06 CPTE5 | CPT |
| 038008P312 | SvincoloCona | CPT |
| 038008P313 | PIP Exedil cptu15 | CPT |
| 038008P314 | PIP Exedil cptu18 | CPT |
| 038008P315 | 1A CPT1 | CPT |
| 038008P316 | 2A CPT1-185110C453 | CPT |
| 038008P317 | 2A CPT2-185110C158 | CPT |
| 038008P318 | 2A CPT3-185110C454 | CPT |
| 038008P319 | 5A CPT1 | CPT |
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| 038008P322 | 5A CPT4 | CPT |
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| 038008P324 | 6A CPT2 | CPT |
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| 038008P326 | 6A CPT4 | CPT |
| 038008P327 | 7A CPT1 | CPT |
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| 038008P330 | 7A CPT4 | CPT |
| 038008P331 | 7A CPT5 | CPT |
| 038008P332 | 7A CPT6 | CPT |
| 038008P333 | 7A CPT7 | CPT |
| 038008P334 | 7A CPT8 | CPT |
| 038008P335 | 3A CPT1 | CPT |
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| 038008P340 | 3A CPT6 | CPT |
| 038008P341 | 3A CPT7 | CPT |
| 038008P342 | 4A CPT7 | CPT |
| 038008P343 | 4A CPT8 | CPT |
| 038008P344 | 4A CPT9 | CPT |
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| 038008P346 | 9A CPT9 | CPT |
| 038008P347 | 9A CPT10 | CPT |
| 038008P348 | 9A CPT11 | CPT |
| 038008P349 | 9A CPT12 | CPT |
| 038008P350 | 10A CPT1-204050C022 | CPT |
| 038008P351 | 10A CPT2-204050C023 | CPT |
| 038008P352 | 10A CPT3-204050C024 | CPT |
| 038008P353 | 10A CPT4-204050C025 | CPT |
| 038008P354 | 10A CPT5-204050C026 | CPT |
| 038008P355 | 10A CPT6-204050C027 | CPT |
| 038008P356 | 10A CPT7-204050C028 | CPT |
| 038008P357 | 10A CPT8-204050C029 | CPT |
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| 038008P363 | 12A CPT1-185110C161 | CPT |
| 038008P364 | 12A CPT2-185110C162 | CPT |
| 038008P365 | 12A CPT3-185110C163 | CPT |
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| 038008P369 | 13A CPT4 | CPT |
| 038008P370 | 13A CPT5 | CPT |
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| 038008P372 | 15A CPT2 | CPT |
| 038008P373 | 15A CPT3 | CPT |
| 038008P374 | 14A Elletipi CPT1 | CPT |
| 038008P375 | 14A Sandon CPT1 | CPT |
| 038008P376 | 14A Sandon CPT2 | CPT |
| 038008P377 | 21A CPT2 | CPT |
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| 038008P398 | 22A CPT5 | CPT |
| 038008P399 | 22A CPT6 | CPT |
| 038008P400 | VIA WAGNER CPT1 | CPT |
| 038008P401 | VIA WAGNER CPT2 | CPT |
| 038008P402 | VIA WAGNER CPT3 | CPT |
| 038008P403 | PAROFIN CPT1 | CPT |
| 038008P404 | PAROFIN CPT2 | CPT |
| 038008P405 | Tangenziale CPT1 | CPT |
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| 038008P408 | Tangenziale CPT4 | CPT |
| 038008P409 | Tangenziale CPT5 | CPT |
| 038008P410 | Tangenziale CPT6 | CPT |
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| 038008P412 | PG 63985/05 CPT2-185150C068 | CPT |
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| 038008P416 | PG 63985/05 CPT6-185150C072 | CPT |
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| 038008P425 | PG 49380/07 CPT3 | CPT |
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| 038008P434 | PG 59512/07 CPT1 | CPT |
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| 038008P436 | PG 101560/07 CPT2 | CPT |
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| 038008P438 | PG 60335/07 CPT2 | CPT |
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| 038008P443 | PG 34282/05 CPT5 | CPT |
| 038008P444 | PG 47754/07 CPT1 | CPT |
| 038008P445 | PG 47754/07 CPT3 | CPT |
| 038008P446 | PG 1737/07 CPT1 | CPT |
| 038008P447 | PG 1737/07 CPT2 | CPT |
| 038008P448 | PG 1737/07 CPT3 | CPT |
| 038008P449 | PG 93015/06 CPT1 | CPT |
| 038008P450 | PG 93015/06 CPT2 | CPT |
| 038008P451 | PG 93015/06 CPT3 | CPT |
| 038008P452 | PG 60327/07 CPT1 | CPT |
| 038008P453 | PG 60327/07 CPT2 | CPT |
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| 038008P457 | PG 30041/07 CPT4 | CPT |
| 038008P458 | PG 30041/07 CPT5 | CPT |
| 038008P459 | PG 80944/05 CPT1 | CPT |
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| 038008P464 | PG 62907/07 CPT3 | CPT |
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| 038008P466 | 58124/07 CPT2 | CPT |
| 038008P467 | PG 80473/07 CPT1 | CPT |
| 038008P468 | PG 33679/07 CPT1 | CPT |
| 038008P469 | PG 33679/07 CPT2 | CPT |
| 038008P470 | PG 85821/07 CPT1 | CPT |
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| 038008P473 | PG 85821/07 CPT5 | CPT |
| 038008P474 | PG 52093/05 CPT1 | CPT |
| 038008P619 | PG 52093/05 CPT2 | CPT |
| 038008P475 | PG 52093/05 CPT3 | CPT |
| 038008P476 | PG 52093/05 CPT4 | CPT |
| 038008P477 | PG 14659/07 CPT1 | CPT |
| 038008P478 | PG 14659/07 CPT2 | CPT |
| 038008P479 | PG 58703/06 CPT1 | CPT |
| 038008P480 | PG 58703/06 CPT2 | CPT |
| 038008P481 | PG 58703/06 CPT3 | CPT |
| 038008P482 | PG 64126/06 CPT1 | CPT |
| 038008P483 | PG 64126/06 CPT2 | CPT |
| 038008P494 | PG 64126/06 CPT3 | CPT |
| 038008P495 | PG 64126/06 CPT4 | CPT |
| 038008P496 | PG 84423/05 CPT1 | CPT |
| 038008P497 | PG 82272/05 CPT1 | CPT |
| 038008P498 | PG 34097/06 CPT1 | CPT |
| 038008P499 | PG 34097/06 CPT2 | CPT |
| 038008P500 | PG 30732/06 CPT1 | CPT |
| 038008P501 | PG 45238/05 CPT1 | CPT |
| 038008P502 | PG 45238/05 CPT2 | CPT |
| 038008P503 | PG 97763/04 CPT1 | CPT |
| 038008P504 | PG 97763/04 CPT2 | CPT |
| 038008P516 | PG 48032/06 CPT1 lotto1 | CPT |
| 038008P517 | PG 48032/06 CPT2 lotto1 | CPT |
| 038008P518 | PG 48032/06 CPT1 lotto6 | CPT |
| 038008P235 | PG 48032/06 CPT2 lotto6 | CPT |
| 038008P236 | PG 65636/05 CPT1 | CPT |
| 038008P610 | PG 65636/05 CPT2 | CPT |
| 038008P603 | 2026/06 CPT1 | CPT |
| 038008P604 | PG 41101/07 CPT1 | CPT |
| 038008P605 | PG 33900/05 CPT1 | CPT |
| 038008P606 | PG 54671/05 CPT1 | CPT |
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| 038008P608 | PG 54671/05 CPT3 | CPT |
| 038008P609 | PG 54671/05 CPT4 | CPT |
| 038008P201 | PG 6522/07 CPT1 | CPT |
| 038008P202 | PG 6522/07 CPT2 | CPT |
| 038008P203 | PG 6522/07 CPT3 | CPT |
| 038008P204 | PG 6522/07 CPT4 | CPT |
| 038008P205 | PG 70615/05 CPT1 | CPT |
| 038008P206 | PG 70615/05 CPT2 | CPT |
| 038008P207 | PG 89318/05 CPT1 | CPT |
| 038008P418 | PG 4783/06 CPT1 | CPT |
| 038008P648 | PG 4783/06 CPT2 | CPT |
| 038008P649 | PG 4783/06 CPT3 | CPT |
| 038008P650 | PG 55576/03 CPT1 | CPT |
| 038008P651 | PG 55576/03 CPT2 | CPT |
| 038008P652 | PG 55576/03 CPT3 | CPT |
| 038008P653 | PG 55576/03 CPT4 | CPT |
| 038008P658 | 204010G005 | perforazione per ricerca idrocarburi |
| 038008P659 | 204050G009 | perforazione per ricerca idrocarburi |
| 038008P660 | 186140G027 | perforazione per ricerca idrocarburi |
| 038008P661 | 186130G029 | perforazione per ricerca idrocarburi |
| 038008P662 | 186130G030 | perforazione per ricerca idrocarburi |
| 038008P663 | 186090G044 | perforazione per ricerca idrocarburi |
| 038008P664 | 185110G148 | perforazione per ricerca idrocarburi |
| 038008P705 | 204050G006 | perforazione per ricerca idrocarburi |
| 038008P706 | 185110G149 | perforazione per ricerca idrocarburi |
| 038008P820 | BAURA001 | perforazione per ricerca idrocarburi |
| 038008P821 | CASCINA NUOVA001 | perforazione per ricerca idrocarburi |
| 038008P822 | CONA001 | perforazione per ricerca idrocarburi |
| 038008P823 | CONA002 | perforazione per ricerca idrocarburi |
| 038008P824 | FERRARA001 | perforazione per ricerca idrocarburi |
| 038008P825 | FRANCOLINO001 | perforazione per ricerca idrocarburi |
| 038008P826 | GAIBANA001 | perforazione per ricerca idrocarburi |
| 038008P827 | PAVONARA001 | perforazione per ricerca idrocarburi |
| 038008P828 | POROTTO001 | perforazione per ricerca idrocarburi |
| 038008P665 | 185160P4025 | sondaggio a carotaggio continuo |
| 038008P666 | 185160P4026 | sondaggio a carotaggio continuo |
| 038008P667 | 185160P4062 | sondaggio a carotaggio continuo |
| 038008P668 | 185160P4063B | sondaggio a carotaggio continuo |
| 038008P669 | 185160P4064A | sondaggio a carotaggio continuo |
| 038008P670 | 185160P4064B | sondaggio a carotaggio continuo |
| 038008P671 | 185160P4104 | sondaggio a carotaggio continuo |
| 038008P672 | 185160P413 | sondaggio a carotaggio continuo |
| 038008P673 | 185120P505 | sondaggio a carotaggio continuo |
| 038008P674 | 204050P513X | sondaggio a carotaggio continuo |
| 038008P675 | 185120P404 | sondaggio a carotaggio continuo |
| 038008P676 | 185120P405 | sondaggio a carotaggio continuo |
| 038008P677 | 185120P4401 | sondaggio a carotaggio continuo |
| 038008P678 | 185120P4402 | sondaggio a carotaggio continuo |
| 038008P679 | 185120P4403 | sondaggio a carotaggio continuo |
| 038008P680 | 185160P4019 | sondaggio a carotaggio continuo |
| 038008P681 | 185160P4020 | sondaggio a carotaggio continuo |
| 038008P682 | 185160P4029 | sondaggio a carotaggio continuo |
| 038008P683 | 185160P4030 | sondaggio a carotaggio continuo |
| 038008P684 | 185160P4034 | sondaggio a carotaggio continuo |
| 038008P685 | 185160P4061A | sondaggio a carotaggio continuo |
| 038008P686 | 185160P4061B | sondaggio a carotaggio continuo |
| 038008P687 | 185160P4084 | sondaggio a carotaggio continuo |
| 038008P688 | 185160P4108 | sondaggio a carotaggio continuo |
| 038008P689 | 185160P4109 | sondaggio a carotaggio continuo |
| 038008P690 | 185160P414 | sondaggio a carotaggio continuo |
| 038008P691 | 185160P424 | sondaggio a carotaggio continuo |
| 038008P692 | 185160P425 | sondaggio a carotaggio continuo |
| 038008P693 | 185160P426 | sondaggio a carotaggio continuo |
| 038008P694 | 185160P427 | sondaggio a carotaggio continuo |
| 038008P695 | 185160P435 | sondaggio a carotaggio continuo |
| 038008P696 | 185160P407 | sondaggio a carotaggio continuo |
| 038008P697 | 185160P4079 | sondaggio a carotaggio continuo |
| 038008P698 | 185160P454 | sondaggio a carotaggio continuo |
| 038008P699 | 185160P473 | sondaggio a carotaggio continuo |
| 038008P700 | 185160P484 | sondaggio a carotaggio continuo |
| 038008P701 | 185160P488 | sondaggio a carotaggio continuo |
| 038008P702 | 185160P495 | sondaggio a carotaggio continuo |
| 038008P703 | 185160P499 | sondaggio a carotaggio continuo |
| 038008P704 | 186130P407 | sondaggio a carotaggio continuo |
| 038008P707 | 185070P501 | sondaggio a carotaggio continuo |
| 038008P708 | P86 | HVSR |
| 038008P709 | P87 | HVSR |
| 038008P710 | P87BIS | HVSR |
| 038008P711 | P88 | HVSR |
| 038008P712 | P89 | HVSR |
| 038008P713 | P90 | HVSR |
| 038008P714 | P91 | HVSR |
| 038008P715 | P92 | HVSR |
| 038008P716 | P93 | HVSR |
| 038008P717 | P94 | HVSR |
| 038008P718 | P95 | HVSR |
| 038008P719 | P96 | HVSR |
| 038008P720 | P97 | HVSR |
| 038008P721 | P98 | HVSR |
| 038008P722 | P99 | HVSR |
| 038008P723 | P100 | HVSR |
| 038008P724 | P101 | HVSR |
| 038008P725 | P102 | HVSR |
| 038008P726 | P103 | HVSR |
| 038008P727 | P104 | HVSR |
| 038008P728 | P105 | HVSR |
| 038008P729 | P106 | HVSR |
| 038008P730 | P107 | HVSR |
| 038008P731 | P108 | HVSR |
| 038008P732 | P109 | HVSR |
| 038008P733 | P110 | HVSR |
| 038008P734 | P111 | HVSR |
| 038008P735 | P112 | HVSR |
| 038008P736 | P113 | HVSR |
| 038008P737 | P114 | HVSR |
| 038008P738 | P115 | HVSR |
| 038008P739 | P116 | HVSR |
| 038008P740 | P117 | HVSR |
| 038008P741 | P118 | HVSR |
| 038008P742 | P119 | HVSR |
| 038008P743 | P120 | HVSR |
| 038008P744 | P121 | HVSR |
| 038008P745 | P122 | HVSR |
| 038008P746 | P123 | HVSR |
| 038008P747 | P123BIS | HVSR |
| 038008P748 | P124 | HVSR |
| 038008P749 | P125 | HVSR |
| 038008P750 | P126 | HVSR |
| 038008P751 | P127 | HVSR |
| 038008P752 | P128 | HVSR |
| 038008P753 | P129 | HVSR |
| 038008P754 | P130 | HVSR |
| 038008P755 | P131 | HVSR |
| 038008P756 | P132 | HVSR |
| 038008P757 | P133 | HVSR |
| 038008P758 | P134 | HVSR |
| 038008P759 | P135 | HVSR |
| 038008P760 | P136 | HVSR |
| 038008P761 | P136BIS | HVSR |
| 038008P762 | P137 | HVSR |
| 038008P763 | P138 | HVSR |
| 038008P764 | P139 | HVSR |
| 038008P765 | P140 | HVSR |
| 038008P766 | 140BIS | HVSR |
| 038008P767 | P141 | HVSR |
| 038008P768 | P142 | HVSR |
| 038008P769 | P142BIS | HVSR |
| 038008P770 | P143 | HVSR |
| 038008P771 | P144 | HVSR |
| 038008P772 | P144BIS | HVSR |
| 038008P829 | Casaglia Picozzi-Albarello | HVSR |
| 038008P830 | Cascina Nuova-Santarato | HVSR |

Tabella 4.2 Indagini geognostiche ex-novo.

|  |  |  |
| --- | --- | --- |
| **ID\_SPU** | **Codice** | **Tipo Prova** |
| 038008P8 | 1ACS08 SCPTU1 | SCPTU |
| 038008P9 | 1ACS08 SCPTU2 | SCPTU |
| 038008P12 | 1ACS23 SCPTU1 | SCPTU |
| 038008P13 | 1ACS23 SCPTU 2 | SCPTU |
| 038008P48 | 2ANS01 SCPTU1 | SCPTU |
| 038008P49 | 2ANS01 SCPTU2 | SCPTU |
| 038008P10 | 4ANS01 SCPTU1 | SCPTU |
| 038008P11 | 4ANS01 SCPTU2 | SCPTU |
| 038008P50 | 4ANS02 SCPTU1 | SCPTU |
| 038008P51 | 4ANS02 SCPTU2 | SCPTU |
| 038008P616 | 4ASPCN01 SCPTU1 | SCPTU |
| 038008P617 | 4ASPCN01 SCPTU2 | SCPTU |
| 038008P14 | 4ASPCN02 SCPTU1 | SCPTU |
| 038008P15 | 4ASPCN02 SCPTU2 | SCPTU |
| 038008P16 | 5ANS01 5ANS03 SCPTU1 | SCPTU |
| 038008P17 | 5ANS01 5ANS03 SCPTU2 | SCPTU |
| 038008P52 | 5ANS02 SCPTU1 | SCPTU |
| 038008P53 | 5ANS02 SCPTU2 | SCPTU |
| 038008P18 | 6ANS 01 SCPTU1 | SCPTU |
| 038008P19 | 6ANS 01 SCPTU2 | SCPTU |
| 038008P20 | 7ANS01 SCPTU1 | SCPTU |
| 038008P21 | 7ANS01 SCPTU2 | SCPTU |
| 038008P22 | 7 ANS02 SCPTU1 | SCPTU |
| 038008P23 | 7 ANS02 SCPTU2 | SCPTU |
| 038008P26 | 7ANS 03 SCPTU1 | SCPTU |
| 038008P27 | 7ANS 03 SCPTU2 | SCPTU |
| 038008P28 | 7ANS04 SCPTU1 | SCPTU |
| 038008P29 | 7ANS04 SCPTU2 | SCPTU |
| 038008P30 | 8ANS01 SCPTU1 | SCPTU |
| 038008P31 | 8ANS01 SCPTU2 | SCPTU |
| 038008P54 | 8ANS02 SCPTU1 | SCPTU |
| 038008P55 | 8ANS02 SCPTU2 | SCPTU |
| 038008P32 | 10ANS 01 SCPTU1 | SCPTU |
| 038008P33 | 10ANS 01 SCPTU2 | SCPTU |
| 038008P34 | 10ANS 02 SCPTU1 | SCPTU |
| 038008P35 | 10ANS 02 SCPTU2 | SCPTU |
| 038008P56 | 12AR 01 SCPTU1 | SCPTU |
| 038008P57 | 12AR 01 SCPTU2 | SCPTU |
| 038008P36 | 14 ANS 01 SCPTU1 | SCPTU |
| 038008P37 | 14 ANS 01 SCPTU2 | SCPTU |
| 038008P38 | 14 ANS 02 SCPTU1 | SCPTU |
| 038008P39 | 14 ANS 02 SCPTU2 | SCPTU |
| 038008P58 | 18 ANS 01 SCPTU1 | SCPTU |
| 038008P59 | 18 ANS 01 SCPTU2 | SCPTU |
| 038008P40 | 18 ANS 02 SCPTU1 | SCPTU |
| 038008P41 | 18 ANS 02 SCPTU2 | SCPTU |
| 038008P42 | 18 ANS 03 SCPTU1 | SCPTU |
| 038008P43 | 18 ANS 03 SCPTU2 | SCPTU |
| 038008P60 | 18ANS 04 18ANS 05 SCPTU1 | SCPTU |
| 038008P61 | 18ANS 04 18ANS 05 SCPTU2 | SCPTU |
| 038008P62 | 19ANS 01 SCPTU1 | SCPTU |
| 038008P63 | 19ANS 01 SCPTU2 | SCPTU |
| 038008P64 | 21ANS 01 SCPTU1 | SCPTU |
| 038008P65 | 21ANS 01 SCPTU2 | SCPTU |
| 038008P44 | 21ANS 02 SCPTU1 | SCPTU |
| 038008P45 | 21ANS 02 SCPTU2 | SCPTU |
| 038008P24 | 25AAP2 01 SCPTU1 | SCPTU |
| 038008P25 | 25AAP2 01 SCPTU2 | SCPTU |
| 038008P46 | 25AVN 01 SCPTU1 | SCPTU |
| 038008P47 | 25AVN 01 SCPTU2 | SCPTU |
| 038008P67 | 6ANS 02 SCPTU2 | SCPTU |
| 038008P66 | 6ANS 02 SCPTU1 | SCPTU |
| 038008P72 | 21ANS 03 SCPTU1 | SCPTU |
| 038008P73 | 21ANS 03 SCPTU2 | SCPTU |
| 038008P612 | 25AVP 01 SCPTU1 | SCPTU |
| 038008P613 | 25AVP 01 SCPTU2 | SCPTU |
| 038008P614 | 25AVP 01 SCPTU3 | SCPTU |
| 038008P74 | 1ACS26 01 SCPTU1 | SCPTU |
| 038008P75 | 1ACS26 01 SCPTU2 | SCPTU |
| 038008P68 | 21 ANS 04\_12 SCPTU1 | SCPTU |
| 038008P71 | 21 ANS 04\_13 SCPTU2 | SCPTU |
| 038008P69 | 21 ANS 04\_12 SCPTU2 | SCPTU |
| 038008P70 | 21 ANS 04\_13 SCPTU1 | SCPTU |
| 038008P76 | 18ANS 06 SCPT1 | SCPTU |
| 038008P77 | 18ANS 06 SCPT2 | SCPTU |
| 038008P78 | 18ANS 06 SCPT3 | SCPTU |
| 038008P79 | 18ANS 06 SCPT4 | SCPTU |
| 038008P626 | ex caserma SCPTU1 | SCPTU |
| 038008P627 | ex caserma SCPTU2 | SCPTU |
| 038008P629 | Uffici Comune settore LLPP via Marconi\* | SCPTU |
| 038008P630 | Impinati HERA\* | SCPTU |
| 038008P631 | Ex Macello SCPTU3 | SCPTU |
| 038008P632 | Via Arginone SCPTU4 | SCPTU |
| 038008P633 | Uffici Comune SIT e Tributi via Maverna\* | SCPTU |
| 038008P634 | Uffici Provincia C.so Isonzo\* | SCPTU |
| 038008P635 | Uffici Questura e Prefettura C.so Ercole I d’Este (Canonici Mattei)\* | SCPTU |
| 038008P636 | Uffici Guardia di Finanza, P.S.Guglielmo\* | SCPTU |
| 038008P637 | Castello estense, uffici Provincia, Uffici Comune piazza Repubblica\* | SCPTU |
| 038008P638 | Ospedale Cona\* | SCPTU |
| 038008P639 | Caserma Carabinieri via del Campo\* | SCPTU |
| 038008P640 | Caserma VVF via Verga\* | SCPTU |
| 038008P641 | Uffici Provincia - Casa del Pellegrino - Fiera\* | SCPTU |
| 038008P642 | Via Finati SCPTU14 | SCPTU |
| 038008P777 | P. XXIV MAGGIO\* | HVSR |
| 038008P778 | AGUSCELLO | HVSR |
| 038008P779 | CONA\* | HVSR |
| 038008P780 | DIVISIONE GARIBALDINA | HVSR |
| 038008P781 | FIERA\* | HVSR |
| 038008P782 | FOSSANOVA S MARCO | HVSR |
| 038008P783 | GAIBANELLA | HVSR |
| 038008P784 | MARRARA | HVSR |
| 038008P785 | MONESTIROLO | HVSR |
| 038008P786 | MONTALBANO | HVSR |
| 038008P787 | PARASACCO | HVSR |
| 038008P788 | QUARTESANA | HVSR |
| 038008P789 | S.BARTOLOMEO | HVSR |
| 038008P790 | VIA BOSCHETTO | HVSR |
| 038008P791 | VIA DEL CAMPO\* | HVSR |
| 038008P792 | VIA MAVERNA\* | HVSR |
| 038008P793 | VIA TRENTI | HVSR |
| 038008P794 | VVF VIA VERGA\* | HVSR |
| 038008P795 | PESCARA | HVSR |
| 038008P796 | S.MARTINO | HVSR |
| 038008P797 | BORGO SCOLINE | HVSR |
| 038008P798 | DENORE | HVSR |
| 038008P799 | VILLANOVA DENORE | HVSR |
| 038008P800 | VICONOVO | HVSR |
| 038008P801 | BAURA | HVSR |
| 038008P802 | BOARA | HVSR |
| 038008P803 | CASSANA-POROTTO | HVSR |
| 038008P804 | VIA DIANA- IMPIANTI HERA\* | HVSR |
| 038008P805 | VIA ERIDANO | HVSR |
| 038008P806 | VIA XXI GIUGNO | HVSR |
| 038008P807 | VIA MARCONI\* | HVSR |
| 038008P808 | VIA BATTISTELLI | HVSR |
| 038008P809 | VIA BACCHELLI | HVSR |
| 038008P810 | VIA PACINOTTI | HVSR |
| 038008P811 | VIA S.ANDREA | HVSR |
| 038008P812 | S.GUGLIELMO PARCHEGGIO\* | HVSR |
| 038008P813 | PIAZZA REPUBBLICA\* | HVSR |
| 038008P814 | PALAZZO DIAMANTI\* | HVSR |
| 038008P815 | VIA BELLONCI | HVSR |
| 038008P773 | A1 CONA\* | ESAC |
| 038008P774 | A4 XXIV MAGGIO\* | ESAC |
| 038008P775 | A3 PESCARA | ESAC |
| 038008P776 | A2 MARRARA | ESAC |

\* Realizzate per edifici strategici CLE

Tabella 4.3 Prove SCPTU realizzate in corrispondenza dei comparti POC.

|  |  |
| --- | --- |
| **COMPARTO** | **N. PROVE** |
| 1ACS08 | 2 |
| 1ACS23 | 2 |
| 2ANS01 | 2 |
| 4ANS01 | 2 |
| 4ANS02 | 2 |
| 4ASPCN01 | 2 |
| 4ASPCN02 | 2 |
| 5ANS01-5ANS03 | 2 |
| 5ANS02 | 2 |
| 6ANS01 | 2 |
| 7ANS01 | 2 |
| 7ANS02 | 2 |
| 7ANS03 | 2 |
| 7ANS04 | 2 |
| 8ANS01 | 2 |
| 8ANS02 | 2 |
| 10ANS01 | 2 |
| 10ANS02 | 2 |
| 12AR01 | 2 |
| 14ANS01 | 2 |
| 14ANS01 | 2 |
| 18ANS01 | 2 |
| 18ANS02 | 2 |
| 18ANS03 | 2 |
| 18ANS04 | 2 |
| 19ANS01 | 2 |
| 21ANS01 | 2 |
| 21ANS02 | 2 |
| 25AAP201 | 2 |
| 25AVN01 | 2 |
| 6ANS02 | 2 |
| 21ANS03 | 2 |
| 25AVP01 | 3 |
| 1ACS2601 | 2 |
| 21ANS04\_13 | 2 |
| 21ANS04\_13 | 2 |
| 18ANS06 | 4 |
| ex caserma | 2 |
| Ex Macello\* | 1 |
| Via Arginon e \* | 1 |
| Via Finati\* | 1 |

\* aree di proprietà del Committente in cui sono stati realizzati studi di amplificazione sismica locale

Tabella 4.4 Prove SCPTU, HVSR e ESAC realizzate in corrispondenza degli edifici strategici per la CLE.

|  |  |  |  |
| --- | --- | --- | --- |
| **EDIFICI STRATEGICI CLE** | **N. PROVE SCPTU** | **N. PROVE HVSR** | **N. PROVE ESAC** |
| 1. Uffici Comune Settore LLPP via Marconi | 1 | 1 |  |
| 2. Impianti HERA | 1 | 1 |  |
| 3. Uffici Comune SIT e Tributi via Maverna | 1 | 1 |  |
| 4. Uffici Provincia C.so Isonzo | 1 | 1 | 1 |
| 5. Uffici Questura e Prefettura C.so Ercole I d’Este (Canonici Mattei) | 1 | 1 |  |
| 6. Uffici Guardia di Finanza P. S. guglielmo | 1 | 1 |  |
| 7. Castello Estense, uffici Provincia, Uffici Comune P.Repubblica | 1 | 1 |  |
| 8. Ospedale Cona | 1 | 1 | 1 |
| 9. Caserma Carabinieri | 1 | 1 |  |
| 10. Caserma VVF | 1 | 1 |  |
| 11. Uffici Provincia - Casa del pellegrino | 1 | 1 |  |

Tabella 5.1. Frequenze e ampiezze da misure HVSR.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID\_SPU** | **Codice** | **f1**  **Hz** | **f2**  **Hz** | **A1**  **-** | **A2**  **-** |
| 038008P708 | P86 | 0.42 | 0.9 | 2.1 | 2 |
| 038008P709 | P87 | 0.46 | 0.9 | 2.9 | 2.1 |
| 038008P710 | P87BIS | 0.47 | 0.95 | 2.8 | 2.1 |
| 038008P711 | P88 | 0.46 | 0.9 | 2.8 | 2.2 |
| 038008P712 | P89 | 0.52 | 1 | 2.5 | 2.1 |
| 038008P713 | P90 | 0.5 | 0.95 | 2.6 | 2.2 |
| 038008P714 | P91 |  | 0.8 |  | 2.8 |
| 038008P715 | P92 |  | 0.81 |  | 3.4 |
| 038008P716 | P93 |  | 0.8 |  | 3.5 |
| 038008P717 | P94 |  | 0.8 |  | 3.5 |
| 038008P718 | P95 |  | 0.88 |  | 4 |
| 038008P719 | P96 |  | 0.9 |  | 4 |
| 038008P720 | P97 |  | 0.88 |  | 3.9 |
| 038008P721 | P98 |  | 0.9 |  | 4.9 |
| 038008P722 | P99 |  | 0.94 |  | 4.3 |
| 038008P723 | P100 |  | 0.9 |  | 4.2 |
| 038008P724 | P101 |  | 0.86 |  | 4.2 |
| 038008P725 | P102 |  | 0.82 |  | 5 |
| 038008P726 | P103 |  | 0.82 |  | 5.5 |
| 038008P727 | P104 |  | 0.78 |  | 4.5 |
| 038008P728 | P105 |  | 0.78 |  | 4 |
| 038008P729 | P106 |  | 0.75 |  | 4.8 |
| 038008P730 | P107 |  | 0.78 |  | 4.4 |
| 038008P731 | P108 |  | 0.78 |  | 4.4 |
| 038008P732 | P109 |  | 0.78 |  | 4 |
| 038008P733 | P110 | 0.45 | 0.77 | 2.6 | 3.9 |
| 038008P734 | P111 | 0.45 | 0.73 | 2.9 | 4.5 |
| 038008P735 | P112 | 0.45 | 0.78 | 2.9 | 4.1 |
| 038008P736 | P113 | 0.5 | 0.76 | 3 | 3.2 |
| 038008P737 | P114 | 0.42 | 0.78 | 3 | 4 |
| 038008P738 | P115 | 0.4 | 0.75 | 2.3 | 3.3 |
| 038008P739 | P116 | 0.4 | 0.81 | 2.9 | 3 |
| 038008P740 | P117 | 0.4 | 0.8 | 3.2 | 2.9 |
| 038008P741 | P118 | 0.5 | 0.78 | 3 | 2.7 |
| 038008P742 | P119 | 0.45 | 0.8 | 2.9 | 2.7 |
| 038008P743 | P120 | 0.42 | 0.78 | 2.9 | 2.7 |
| 038008P744 | P121 | 0.4 | 0.79 | 2.9 | 2.7 |
| 038008P745 | P122 | 0.4 | 0.79 | 2.8 | 2 |
| 038008P746 | P123 | 0.37 | 0.8 | 2.8 | 2.4 |
| 038008P747 | P123BIS | 0.41 | 0.82 | 2.8 | 2.4 |
| 038008P748 | P124 | 0.38 | 0.79 | 2.9 | 2.4 |
| 038008P749 | P125 | 0.41 | 0.9 | 2.5 | 2.2 |
| 038008P750 | P126 | 0.38 | 0.82 | 2.5 | 2.2 |
| 038008P751 | P127 | 0.39 | 0.81 | 2.5 | 3.2 |
| 038008P752 | P128 | 0.4 | 0.84 | 2.2 | 3 |
| 038008P753 | P129 | 0.31 | 0.81 | 2.2 | 3 |
| 038008P754 | P130 | 0.32 | 0.8 | 2.9 | 2.3 |
| 038008P755 | P131 | 0.23 | 0.82 | 2.2 | 2.5 |
| 038008P756 | P132 | 0.23 | 0.84 | 2.3 | 2.6 |
| 038008P757 | P133 | 0.3 | 0.84 | 2.3 | 2.2 |
| 038008P758 | P134 | 0.29 | 0.85 | 2.1 | 2 |
| 038008P759 | P135 | 0.33 | 0.85 | 1.6 | 2.4 |
| 038008P760 | P136 | 0.26 | 0.9 | 2 | 2.5 |
| 038008P761 | P136BIS | 0.3 | 0.84 | 1.6 | 2.5 |
| 038008P762 | P137 | 0.24 | 0.8 | 2.1 | 2 |
| 038008P763 | P138 | 0.24 | 0.88 | 2.1 | 1.9 |
| 038008P764 | P139 | 0.3 | 0.84 | 1.6 | 2 |
| 038008P765 | P140 | 0.29 | 0.8 | 2 | 1.9 |
| 038008P766 | 140BIS | 0.28 | 0.9 | 5 | 2 |
| 038008P767 | P141 | 0.28 | 0.81 | 1.8 | 1.9 |
| 038008P768 | P142 | 0.3 | 0.91 | 1.6 | 2 |
| 038008P769 | P142BIS | 0.22 | 0.85 | 1.9 | 1.9 |
| 038008P770 | P143 |  | 0.91 |  | 2 |
| 038008P771 | P144 | 0.18 | 0.9 | 2 | 1.5 |
| 038008P772 | P144BIS | 0.24 | 0.8 | 1.8 | 2.3 |
| 038008P829 | Casaglia Picozzi-Albarello |  | 0.86 |  | 4 |
| 038008P830 | Cascina Nuova-Santarato | 0.5 | 0.75 | 1.7 | 2.46 |
| 038008P777\* | P. XXV MAGGIO\*\* | 0.3 | 0.8 | 3.1 | 3.5 |
| 038008P778\* | AGUSCELLO |  | 0.85 |  | 2.5 |
| 038008P779\* | CONA - OSPEDALE\*\* | 0.25 | 0.9 | 3.1 | 2.2 |
| 038008P780\* | DIVISIONE GARIBALDINA | 0.28 | 0.9 | 3.5 | 3.1 |
| 038008P781\* | FIERA\*\* | 0.2 | 0.9 | 3.9 | 3.1 |
| 038008P782\* | FOSSANOVA S MARCO | 0.2 | 0.9 | 3.8 | 2.5 |
| 038008P783\* | GAIBANELLA | 0.2 | 0.9 | 3.2 | 2.4 |
| 038008P784\* | MARRARA | 0.2 | 0.9 | 3.5 | 2.1 |
| 038008P785\* | MONESTIROLO | 0.2 | 0.9 | 3.9 | 2.5 |
| 038008P786\* | MONTALBANO | 0.2 | 0.9 | 3.7 | 2.9 |
| 038008P787\* | PARASACCO | 0.25 | 1 | 2.8 | 3 |
| 038008P788\* | QUARTESANA | 0.25 |  | 5.5 |  |
| 038008P789\* | S.BARTOLOMEO | 0.2 | 0.9 | 3.7 | 2.7 |
| 038008P790\* | VIA BOSCHETTO |  | 0.97 |  | 3.1 |
| 038008P791\* | VIA DEL CAMPO\*\* | 0.3 | 0.8 | 2.9 | 3.9 |
| 038008P792\* | VIA MAVERNA\*\* | 0.25 | 1 | 2.1 | 3.5 |
| 038008P793\* | VIA TRENTI | 0.25 | 1 | 2.9 | 3.1 |
| 038008P794\* | VVF\*\* | 0.3 | 0.85 | 2.4 | 3.5 |
| 038008P795\* | PESCARA | 0.3 | 0.7 | 4 | 4 |
| 038008P796\* | S.MARTINO | 0.2 | 1 | 2.5 | 1.9 |
| 038008P797\* | BORGO SCOLINE | 0.2 | 0.85 | 3.1 | 3.2 |
| 038008P798\* | DENORE | 0.25 | 1 | 2.8 | 3 |
| 038008P799\* | VILLANOVA DENORE | 0.25 | 1.1 | 2.6 | 3.2 |
| 038008P800\* | VICONOVO | 0.2 |  | 3.2 |  |
| 038008P801\* | BAURA |  | 1 |  | 3.1 |
| 038008P802\* | BOARA | 0.25 | 0.8 | 3.8 | 3.1 |
| 038008P803\* | CASSANA-POROTTO | 0.3 | 0.7 | 3.5 | 2.8 |
| 038008P804\* | VIA DIANA-HERA\*\* | 0.4 |  | 2.5 |  |
| 038008P805\* | VIA ERIDANO | 0.6 | 1 | 4.1 | 3 |
| 038008P806\* | VIA XXI GIUGNO | 0.6 | 1 | 5.9 | 3.8 |
| 038008P807\* | VIA MARCONI\*\* | 0.6 | 1 | 3.1 | 2.9 |
| 038008P808\* | VIA BATTISTELLI | 0.5 |  | 4.5 |  |
| 038008P809\* | VIA BACCHELLI | 0.6 |  |  | 5 |
| 038008P810\* | VIA PACINOTTI | 0.22 | 0.8 | 3.8 | 3.2 |
| 038008P811\* | VIA S.ANDREA | 0.25 | 0.8 | 2.9 | 2.8 |
| 038008P812\* | S.GUGLIELMO PARCHEGGIO\*\* | 0.25 | 0.9 | 2.2 | 3 |
| 038008P813\* | PIAZZA REPUBBLICA\*\* | 0.25 | 0.8 | 3 | 2.8 |
| 038008P814\* | PALAZZO DIAMANTI\*\* | 0.25 | 0.9 | 2.6 | 2.5 |
| 038008P815\* | VIA BELLONCI | n.a. | n.a. | n.a. | n.a. |

\* realizzate ex novo per questo studio

\*\* realizzate per edifici strategici CLE

Tabella 5.2 Velocità equivalente delle onde di taglio.

|  |  |  |
| --- | --- | --- |
| **ID\_SPU** | **Codice** | **VS,H** |
| 038008P8 | 1ACS08 SCPTU1 | 182 |
| 038008P9 | 1ACS08 SCPTU2 | 197 |
| 038008P12 | 1ACS23 SCPTU1 | 173 |
| 038008P13 | 1ACS23 SCPTU 2 | 166 |
| 038008P48 | 2ANS01 SCPTU1 | 179 |
| 038008P49 | 2ANS01 SCPTU2 | 180 |
| 038008P10 | 4ANS01 SCPTU1 | 157 |
| 038008P11 | 4ANS01 SCPTU2 | 135 |
| 038008P50 | 4ANS02 SCPTU1 | 169 |
| 038008P51 | 4ANS02 SCPTU2 | 168 |
| 038008P616 | 4ASPCN01 SCPTU1 | 174 |
| 038008P617 | 4ASPCN01 SCPTU2 | 176 |
| 038008P14 | 4ASPCN02 SCPTU1 | 169 |
| 038008P15 | 4ASPCN02 SCPTU2 | 180 |
| 038008P16 | 5ANS01 5ANS03 SCPTU1 | 179 |
| 038008P17 | 5ANS01 5ANS03 SCPTU2 | 188 |
| 038008P52 | 5ANS02 SCPTU1 | 180 |
| 038008P53 | 5ANS02 SCPTU2 | 200 |
| 038008P18 | 6ANS 01 SCPTU1 | 183 |
| 038008P19 | 6ANS 01 SCPTU2 | 183 |
| 038008P20 | 7ANS01 SCPTU1 | 160 |
| 038008P21 | 7ANS01 SCPTU2 | 156 |
| 038008P22 | 7 ANS02 SCPTU1 | 176 |
| 038008P23 | 7 ANS02 SCPTU2 | 173.3 |
| 038008P26 | 7ANS 03 SCPTU1 | 148 |
| 038008P27 | 7ANS 03 SCPTU2 | 148 |
| 038008P28 | 7ANS04 SCPTU1 | 177 |
| 038008P29 | 7ANS04 SCPTU2 | 177 |
| 038008P30 | 8ANS01 SCPTU1 | 174 |
| 038008P31 | 8ANS01 SCPTU2 | 176 |
| 038008P54 | 8ANS02 SCPTU1 | 175 |
| 038008P55 | 8ANS02 SCPTU2 | 177 |
| 038008P32 | 10ANS 01 SCPTU1 | 167 |
| 038008P33 | 10ANS 01 SCPTU2 | 167 |
| 038008P34 | 10ANS 02 SCPTU1 | 177 |
| 038008P35 | 10ANS 02 SCPTU2 | 201 |
| 038008P56 | 12AR 01 SCPTU1 | 203 |
| 038008P57 | 12AR 01 SCPTU2 | 196 |
| 038008P36 | 14 ANS 01 SCPTU1 | 172 |
| 038008P37 | 14 ANS 01 SCPTU2 | 177 |
| 038008P38 | 14 ANS 02 SCPTU1 | 190 |
| 038008P39 | 14 ANS 02 SCPTU2 | 192 |
| 038008P58 | 18 ANS 01 SCPTU1 | 185 |
| 038008P59 | 18 ANS 01 SCPTU2 | 186 |
| 038008P40 | 18 ANS 02 SCPTU1 | 187 |
| 038008P41 | 18 ANS 02 SCPTU2 | 185 |
| 038008P42 | 18 ANS 03 SCPTU1 | 168 |
| 038008P43 | 18 ANS 03 SCPTU2 | 165 |
| 038008P60 | 18ANS 04 18ANS 05 SCPTU1 | 169 |
| 038008P61 | 18ANS 04 18ANS 05 SCPTU2 | 171 |
| 038008P62 | 19ANS 01 SCPTU1 | 185 |
| 038008P63 | 19ANS 01 SCPTU2 | 185 |
| 038008P64 | 21ANS 01 SCPTU1 | 166 |
| 038008P65 | 21ANS 01 SCPTU2 | 171 |
| 038008P44 | 21ANS 02 SCPTU1 | 177 |
| 038008P45 | 21ANS 02 SCPTU2 | 172 |
| 038008P24 | 25AAP2 01 SCPTU1 | 177 |
| 038008P25 | 25AAP2 01 SCPTU2 | 172 |
| 038008P46 | 25AVN 01 SCPTU1 | 196 |
| 038008P47 | 25AVN 01 SCPTU2 | 175 |
| 038008P67 | 6ANS 02 SCPTU2 | 182 |
| 038008P66 | 6ANS 02 SCPTU1 | 176 |
| 038008P72 | 21ANS 03 SCPTU1 | 182 |
| 038008P73 | 21ANS 03 SCPTU2 | 185 |
| 038008P612 | 25AVP 01 SCPTU1 | 187 |
| 038008P613 | 25AVP 01 SCPTU2 | 181 |
| 038008P614 | 25AVP 01 SCPTU3 | 194 |
| 038008P74 | 1ACS26 01 SCPTU1 | 181 |
| 038008P75 | 1ACS26 01 SCPTU2 | 182 |
| 038008P68 | 21 ANS 04\_12 SCPTU1 | 186 |
| 038008P71 | 21 ANS 04\_13 SCPTU2 | 193 |
| 038008P69 | 21 ANS 04\_12 SCPTU2 | 174 |
| 038008P70 | 21 ANS 04\_13 SCPTU1 | 186 |
| 038008P76 | 18ANS 06 SCPT1 | 165 |
| 038008P77 | 18ANS 06 SCPT2 | 169 |
| 038008P78 | 18ANS 06 SCPT3 | 176 |
| 038008P79 | 18ANS 06 SCPT4 | 171 |
| 038008P626 | ex caserma SCPTU1 | 182 |
| 038008P627 | ex caserma SCPTU2 | 169 |
| 038008P551 | SCPTU 01 San Bartolomeo in Bosco | 163 |
| 038008P552 | SCPTU 02 Quartesana | 179 |
| 038008P553 | SCPTU 03 Scuola Materna Guido Rossa | 192 |
| 038008P554 | SCPTU 04 via Bellonci via Serao | 191 |
| 038008P555 | SCPTU 05 Palazzo delle Palestre | 182 |
| 038008P556 | SCPTU 06 Mura di Porta Po | 186 |
| 038008P557 | SCPTU 07 via Bagaro | 196 |
| 038008P558 | SCPTU 08 Liceo Ariosto | 180 |
| 038008P559 | SCPTU 09 scuola media Tasso Boario | 166 |
| 038008P560 | SCPTU 10 Piazzale Giordano Bruno | 202 |
| 038008P561 | SCPTU 11 viale Costituzione | 180 |
| 038008P562 | SCPTU 12 C.Govoni | 244 |
| 038008P563 | SCPTU 13 | 196 |
| 038008P564 | SCPTU 15 Biblioteca Ariostea | 188 |
| 038008P565 | SCPTU 17 Istituto Compensivo Cosmè Tura | 172 |
| 038008P566 | SCPTU 18 Scuola Materna Ponte | 175 |
| 038008P567 | SCPTU 19 Via Lana | 177 |
| 038008P568 | SCPTU 20 Via Cattaneo | 195 |
| 038008P569 | SCPTU 21 Scuola Elementare Manzoni | 179 |
| 038008P570 | SCPTU 22 Casaglia | 181 |
| 038008P571 | SCPTU 24 via Renata di Francia | 184 |
| 038008P572 | SCPTU 25 via dei Cedri | 178 |
| 038008P573 | SCPTU 26 Monestirolo | 180 |
| 038008P574 | SCPTU 27 Denore | 178 |
| 038008P575 | SCPTU 28 Scuola media D. Alighieri | 188 |
| 038008P576 | SCPTU 29 Cona | 194 |
| 038008P577 | SCPTU 30 Fiera | 194 |
| 038008P578 | SCPTU 31 Palaspost comunale | 174 |
| 038008P579 | SCPTU 32 Ravalle | 173 |
| 038008P580 | SCPTU 33 via Pacinotti | 190 |
| 038008P581 | SCPTU 34 Scuola materna Satellite | 173 |
| 038008P582 | SCPTU 35 Scuola materna Jovine | 185 |
| 038008P583 | SCPTU 36 Fossanova San Marco | 179 |
| 038008P584 | SCPTU 37 Scuola d'infanzia La Mongolfiera | 225 |
| 038008P585 | SCPTU 38 Scuola elementare B. Rossetti | 211 |
| 038008P586 | SCPTU 39 Gaibanella | 195 |
| 038008P587 | SCPTU 40 Scuola elementare Guarini | 182 |
| 038008P588 | SCPTU 41 Scuola elementare Leopardi | 185 |
| 038008P589 | SCPTU 42 Scuola elementare Francolino | 186 |
| 038008P590 | SCPTU 43 Malborghrtto di Boara | 179 |
| 038008P591 | SCPTU 44 Scuola elementare Bombonati | 192 |
| 038008P592 | SCPTU 45 Villanova di Denore | 155 |
| 038008P593 | SCPTU 46 Scuola elementare Tumiati | 179 |
| 038008P594 | SCPTU 47 via Bologna | 172 |
| 038008P595 | SCPTU 48 I Girasoli | 173 |
| 038008P596 | SCPTU 49 Nido Cavallari | 180 |
| 038008P597 | SCPTU 50 Scuola materna l'Aquilone | 185 |
| 038008P598 | SCPTU 51 Scuola Ugo Costa | 180 |
| 038008P599 | SCPTU 52 Nido Il Ciliegio | 150 |
| 038008P600 | SCPTU 53 Scuola materna Benzi | 183 |
| 038008P522 | Bardella SCPTU 01 | 199 |
| 038008P523 | Bardella SCPTU 02 | 193 |
| 038008P524 | Betto SCPTU 03 | 245 |
| 038008P525 | Betto SCPTU 04 | 202 |
| 038008P526 | Mizzana SCPTU 07 | 278 |
| 038008P527 | FS SCPTU 09 | 246 |
| 038008P528 | FS SCPTU 10 | 206 |
| 038008P529 | Area attracco SCPTU 11 | 176 |
| 038008P530 | Area attracco SCPTU 12 | 161 |
| 038008P531 | Prog. 1250 SCPTU 13 | 187 |
| 038008P532 | Resistenza SCPTU 14 | 194 |
| 038008P533 | Prog. 3800 SCPTU 15 | \ |
| 038008P537 | San Giacomo SCPTU 16 | 203 |
| 038008P538 | Pace SCPTU 18 | 218 |
| 038008P539 | Porta Reno SCPTU 20 | \ |
| 038008P540 | San Giorgio SCPTU 21 | 187 |
| 038008P541 | Caldirolo SCPTU 24 | \ |
| 038008P542 | Caldirolo SCPTU 23 | 177 |
| 038008P543 | Addolorata SCPTU1 | 189 |
| 038008P544 | Addolorata SCPTU2 | 188 |
| 038008P546 | Fossalta SCPTU1 | 192 |
| 038008P548 | Fossalta SCPTU3 | 195 |
| 038008P549 | SABB SCPTU 02 | 180 |
| 038008P550 | SABB BIS SCPTU 01 | 160 |
| 038008P629 | Via Marconi SCPTU1 | 179 |
| 038008P630 | HERA SCPTU2 | 202 |
| 038008P631 | Ex Macello SCPTU3 | 174 |
| 038008P632 | Via Arginone SCPTU4 | 187 |
| 038008P633 | Via Maverna SCPTU5 | 220 |
| 038008P634 | C.so Isonzo SCPTU6 | 215 |
| 038008P635 | C.so Ercole I d’Este (Canonici Mattei) SCPTU7 | 178 |
| 038008P636 | Parcheggio S. Guglielmo SCPTU8 | 182 |
| 038008P637 | P. Repubblica SCPTU9 | 198 |
| 038008P638 | Ospedale Cona SCPTU10 | 166 |
| 038008P639 | Carabinieri SCPTU11 | 181 |
| 038008P640 | VVF SCPTU12 | 179 |
| 038008P641 | Fiera SCPTU13 | 187 |
| 038008P642 | Via Finati SCPTU14 | 189 |

Tabella 5.3 Categorie di sottosuolo da NTC 2008.

|  |  |
| --- | --- |
| **Categoria** | **Descrizione** |
| A | Ammassi rocciosi affioranti o terreni molto rigidi caratterizzati da valori di VS,30 superiori a 800 m/s, eventualmente comprendenti in superficie uno strato di alterazione, con spessore massimo pari a 3 m. |
| B | Rocce tenere e depositi di terreni a grana grossa molto addensati o terreni a grana fina molto consistenti con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di VS,30 compresi tra 360 m/s e 800 m/s (ovvero NSPT,30 > 50 nei terreni a grana grossa e cu,30 > 250 kPa nei terreni a grana fina). |
| C | Depositi di terreni a grana grossa mediamente addensati o terreni a grana fina mediamente consistenti con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di VS,30 compresi tra 180 m/s e 360 m/s (ovvero 15 < NSPT,30 < 50 nei terreni a grana grossa e 70 < cu,30 < 250 kPa nei terreni a grana fina). |
| D | Depositi di terreni a grana grossa scarsamente addensati o di terreni a grana fina scarsamente consistenti, con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di VS,30 inferiori a 180 m/s (ovvero NSPT,30 < 15 nei terreni a grana grossa e cu,30 < 70 kPa nei terreni a grana fina). |
| E | Terreni dei sottosuoli di tipo C o D per spessore non superiore a 20 m, posti sul substrato di riferimento (con VS> 800 m/s). |
| S1 | Depositi di terreni caratterizzati da valori di VS,30 inferiori a 100 m/s (ovvero 10 < cu,30 < 20 kPa), che includono uno strato di almeno 8 m di terreni a grana fina di bassa consistenza, oppure che includono almeno 3 m di torba o di argille altamente organiche. |
| S2 | Depositi di terreni suscettibili di liquefazione, di argille sensitive o qualsiasi altra categoria di sottosuolo non classificabile nei tipi precedenti. |

Tabella 5.4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID\_SPU | 038008P773 | | 038008P774 | | 038008P775 | | 038008P776 | |
| CODICE | A1 CONA | | A4 XXIV MAGGIO | | A3 PESCARA | | A2 MARRARA | |
|  | h (m) | VS (m/s) | 4 | 109 | 1 | 121 | 4 | 110 |
|  | 5 | 141 | 2 | 121 | 13 | 205 | 11 | 155 |
|  | 4 | 137 | 20 | 200 | 17 | 250 | 50 | 249 |
|  | 2 | 126 | 30 | 197 | 14 | 218 | 25 | 462 |
|  | 4 | 143 | 5 | 667 | 20 | 450 | 44 | 662 |
|  | 19 | 234 | 38 | 370 | 41 | 311 | 36 | 242 |
|  | 61 | 358 | 166 | 923 | 276 | 896 | 283 | 674 |
|  | 294 | 420 | 168 | 872 | 456 | 784 | 784 | 1051 |
|  | 560 | 873 | ∞ | >1000 | ∞ | >1600 | ∞ | >1900 |
|  | 528 | 574 |  |  |  |  |  |  |
|  | ∞ | >1100 |  |  |  |  |  |  |

Tabella 5.5. Spoil behaviour types secondo Robertson (1990) e successive aggiornamenti.

|  |  |  |
| --- | --- | --- |
| **Soil behaviour type index, Ic** | **Zone** | **Soil behaviour type, SBT** |
| Ic < 1.31 | 7 | gravelly sand to dense sand |
| 1.31 < Ic < 2.05 | 6 | sands: clean sand to silty sand |
| 2.05 < Ic < 2.60 | 5 | sand mixture: silty sand to sandy silt |
| 2.60 < Ic < 2.95 | 4 | silt mixture: clayey silt to silty clay |
| 2.95 < Ic < 3.60 | 3 | clays: silty clay to clay |
| Ic > 3.60 | 2 | organic soil: peats |

Tabella 7.1 Fattori di amplificazione per analisi di amplificazione sismica di secondo livello

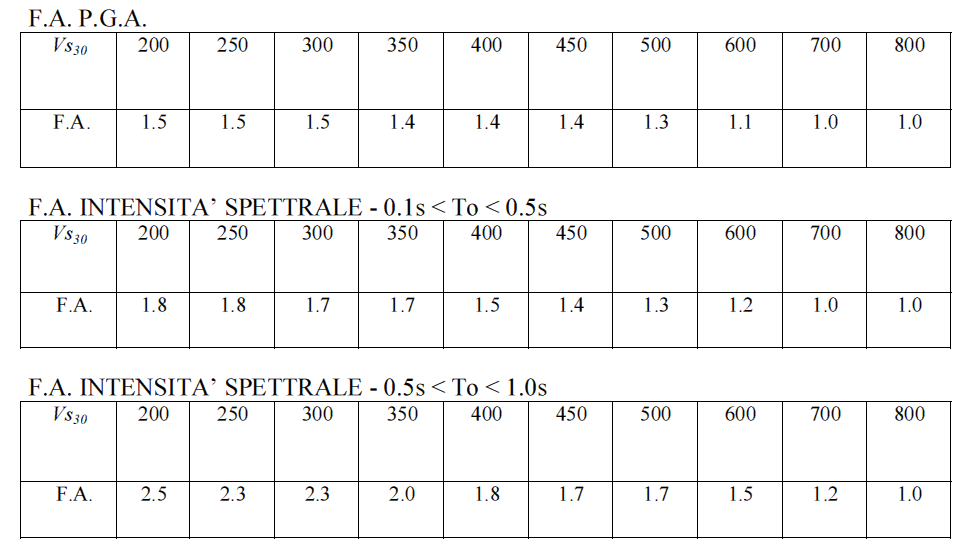


Tabella 7.2 Sequenza litostratigrafica 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Uffic Comune Settore LLPP Via Marconi | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 6 | L | 18 | 160 |
| 6 | 14 | A | 18 | 140 |
| 14 | 18 | S | 18 | 220 |
| 18 | 22 | S | 18 | 280 |
| 22 | 45 | S | 18 | 320 |
| 45 | 60 | A | 18 | 370 |
| 60 | 85 | S | 18 | 515 |
| 85 | 100 | A | 18 | 557 |
| 100 | 120 | S | 18 | 700 |
| 120 | 150 | A | 18 | 754 |
| >150 | | S | 20 | 800 |

Tabella 7.3 Sequenza litostratigrafica 2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Impianti HERA | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 6 | L | 18 | 180 |
| 6 | 12 | A | 18 | 150 |
| 12 | 30 | S | 18 | 260 |
| 30 | 42 | A | 18 | 290 |
| 42 | 48 | S | 18 | 370 |
| 46 | 103 | A | 18 | 470 |
| 103 | 160 | A | 18 | 740 |
| >160 | | S | 20 | 800 |

Tabella 7.4 Sequenza litostratigrafica 3.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Uffici Comune SIT e Tributi Via Maverna | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 4 | L | 18 | 130 |
| 4 | 16 | S | 18 | 200 |
| 16 | 19 | A | 18 | 200 |
| 19 | 27 | S | 18 | 270 |
| 27 | 50 | S | 18 | 345 |
| 50 | 72 | S | 18 | 455 |
| 72 | 95 | S | 18 | 570 |
| 95 | 100 | A | 18 | 580 |
| 100 | 120 | S | 18 | 700 |
| 120 | 150 | A | 18 | 754 |
| >150 | | S | 20 | 800 |

Tabella 7.5 Sequenza litostratigrafica 4.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Uffici Provincia C.so Isonzo | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 6 | S | 18 | 220 |
| 6 | 12 | A | 18 | 180 |
| 12 | 15 | S | 18 | 220 |
| 15 | 20 | A | 18 | 180 |
| 20 | 30 | S | 18 | 270 |
| 30 | 56 | S | 18 | 365 |
| 56 | 78 | A | 18 | 435 |
| 78 | 97 | S | 18 | 588 |
| 97 | 126 | A | 18 | 646 |
| >126 | | S | 20 | 800 |

Tabella 7.6 Sequenza litostratigrafica 5.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Uffici Questura e Prefettura C.so Ercole I d’Este (Canonici mattei) | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 4 | S | 18 | 160 |
| 4 | 15 | A | 18 | 135 |
| 15 | 30 | S | 18 | 260 |
| 30 | 56 | S | 18 | 365 |
| 56 | 78 | A | 18 | 435 |
| 78 | 97 | S | 18 | 588 |
| 97 | 126 | A | 18 | 646 |
| >126 | | S | 20 | 800 |

Tabella 7.7 Sequenza litostratigrafica 6.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Uffici guardia di Finanza P. S.Guglielmo | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 17 | A | 18 | 155 |
| 17 | 22 | S | 18 | 250 |
| 22 | 26 | A | 18 | 230 |
| 26 | 28 | S | 18 | 290 |
| 28 | 30 | A | 18 | 250 |
| 30 | 56 | S | 18 | 365 |
| 56 | 78 | A | 18 | 435 |
| 78 | 97 | S | 18 | 588 |
| 97 | 126 | A | 18 | 646 |
| >126 | | S | 20 | 800 |

Tabella 7.8 Sequenza litostratigrafica 7.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Castello Estense, Uffici Provincia, Uffici Comune P. Repubblica | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 18 | L | 18 | 170 |
| 18 | 22 | S | 18 | 280 |
| 22 | 30 | L | 18 | 250 |
| 30 | 56 | S | 18 | 30 |
| 56 | 78 | A | 18 | 56 |
| 78 | 97 | S | 18 | 78 |
| 97 | 126 | A | 18 | 97 |
| >126 | | S | 20 | 800 |

Tabella 7.9 Sequenza litostratigrafica 8.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ospedale Cona | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 6 | L | 18 | 120 |
| 6 | 16 | A | 18 | 150 |
| 16 | 30 | A | 18 | 225 |
| 30 | 35 | A | 18 | 270 |
| 35 | 50 | S | 18 | 360 |
| 50 | 65 | S | 18 | 440 |
| 65 | 85 | A | 18 | 470 |
| 85 | 120 | S | 18 | 665 |
| 120 | 140 | A | 18 | 730 |
| >140 | | S | 20 | 800 |

Tabella 7.10 Sequenza litostratigrafica 9.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Caserma Carabinieri via del Campo | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 4 | L | 18 | 150 |
| 4 | 17 | A | 18 | 150 |
| 17 | 21 | L | 18 | 260 |
| 21 | 30 | A | 18 | 230 |
| 30 | 55 | A | 18 | 320 |
| 55 | 80 | S | 18 | 490 |
| 80 | 103 | A | 18 | 550 |
| 103 | 125 | S | 18 | 710 |
| >125 | | S | 20 | 800 |

Tabella 7.11 Sequenza litostratigrafica 10.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Caserma VVF via Verga | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 15 | A | 18 | 140 |
| 15 | 22 | S | 18 | 280 |
| 22 | 25 | A | 18 | 210 |
| 25 | 27 | S | 18 | 250 |
| 27 | 30 | A | 18 | 220 |
| 30 | 40 | S | 18 | 325 |
| 40 | 50 | S | 18 | 375 |
| 50 | 65 | S | 18 | 392 |
| 65 | 75 | A | 18 | 449 |
| 75 | 90 | S | 18 | 565 |
| 90 | 110 | A | 18 | 590 |
| 110 | 125 | S | 18 | 735 |
| 125 | 140 | A | 18 | 745 |
| >140 | | A | 20 | 800 |

Tabella 7.12 Sequenza litostratigrafica 11.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fiera Uffici Provincia Casa del Pellegrino | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 8 | L | 18 | 130 |
| 8 | 15 | S | 18 | 200 |
| 15 | 30 | A | 18 | 250 |
| 30 | 37.5 | S | 18 | 320 |
| 37.5 | 40.5 | A | 18 | 303 |
| 40.5 | 43 | S | 18 | 360 |
| 43 | 44.5 | A | 18 | 327 |
| 44.5 | 65 | S | 18 | 425 |
| 65 | 75 | A | 18 | 449 |
| 75 | 90 | S | 18 | 565 |
| 90 | 110 | A | 18 | 590 |
| 110 | 125 | S | 18 | 735 |
| 125 | 140 | A | 18 | 745 |
| >140 | | A | 20 | 800 |

Tabella 7.13 Sequenza litostratigrafica 12.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ex Macello | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 18 | A | 18 | 145 |
| 18 | 22 | L | 18 | 270 |
| 22 | 30 | S | 18 | 250 |
| 30 | 54 | S | 18 | 360 |
| 54 | 78 | A | 18 | 430 |
| 78 | 96 | S | 18 | 585 |
| 96 | 110 | A | 18 | 604 |
| 110 | 120 | S | 18 | 725 |
| 120 | 136 | A | 18 | 722 |
| z > 136 | | S | 20 | 800 |

Tabella 7.14 Sequenza litostratigrafica 13.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Via Arginone | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 18 | A | 18 | 150 |
| 18 | 30 | S | 18 | 265 |
| 30 | 54 | S | 18 | 360 |
| 54 | 78 | A | 18 | 430 |
| 78 | 96 | S | 18 | 585 |
| 96 | 110 | A | 18 | 604 |
| 110 | 120 | S | 18 | 725 |
| 120 | 136 | A | 18 | 722 |
| z > 136 | | S | 20 | 800 |

Tabella 7.15 Sequenza litostratigrafica 14.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Via Finati | | | | |
| z | | LITOLOGIA | γn | VS |
| da [m] | a [m] | [kN/m3] | [m/s] |
| 0 | 6 | A | 18 | 120 |
| 6 | 16 | S | 18 | 185 |
| 16 | 30 | S | 18 | 250 |
| 30 | 54 | S | 18 | 360 |
| 54 | 78 | A | 18 | 430 |
| 78 | 96 | S | 18 | 585 |
| 96 | 110 | A | 18 | 604 |
| 110 | 120 | S | 18 | 725 |
| 120 | 136 | A | 18 | 722 |
| z > 136 | | S | 20 | 800 |

Tabella7.16 Curve di decadimento del modulo G normalizzate e curve di incremento del damping D di progetto per i terreni prevalentemente argillosi.

|  |  |  |
| --- | --- | --- |
| γ  [%] | G/G0  [MPa] | D  [%] |
| 0.0001 | 1 | 3 |
| 0.001 | 1 | 3 |
| 0.0015 | 1 | 3 |
| 0.0023 | 0.998 | 3 |
| 0.0036 | 0.995 | 3 |
| 0.0052 | 0.994 | 3.1 |
| 0.0077 | 0.97 | 3.3 |
| 0.0103 | 0.946 | 3.6 |
| 0.0172 | 0.899 | 4.3 |
| 0.0264 | 0.839 | 5.2 |
| 0.0363 | 0.78 | 5.8 |
| 0.0563 | 0.688 | 6.76 |
| 0.0782 | 0.6009 | 7.71 |
| 0.1173 | 0.5 | 9 |
| 0.1748 | 0.411 | 10.42 |
| 0.2615 | 0.32 | 11.97 |

Tabella 7.17 Curve di decadimento del modulo G normalizzate e curve di incremento del damping D di progetto per i terreni prevalentemente limosi.

|  |  |  |
| --- | --- | --- |
| γ  [%] | G/G0  [MPa] | D  [%] |
| 0.0001 | 1 | 2.2 |
| 0.0002 | 1 | 2.2 |
| 0.0003 | 1 | 2.2 |
| 0.0006 | 1 | 2.2 |
| 0.0009 | 1 | 2.2 |
| 0.0014 | 1 | 2.235 |
| 0.0018 | 0.993 | 2.222 |
| 0.0034 | 0.969 | 2.397 |
| 0.0064 | 0.901 | 3.198 |
| 0.0117 | 0.798 | 4.377 |
| 0.0195 | 0.698 | 5.7 |
| 0.0287 | 0.61 | 6.8 |
| 0.0461 | 0.492 | 8.43 |
| 0.0767 | 0.38 | 10.916 |
| 0.1 | 0.32 | 12.5 |
| 0.2 | 0.2 | 16 |
| 0.5 | 0.13 | 21 |
| 1 | 0.1 | 24 |

Tabella 7.18 Curve di decadimento del modulo G normalizzate e curve di incremento del damping D di progetto per i terreni prevalentemente sabbiosi.

|  |  |  |
| --- | --- | --- |
| γ  [%] | G/G0  [MPa] | D  [%] |
| 0.0001 | 1 | 1.5 |
| 0.0004 | 1 | 1.5 |
| 0.0007 | 0.993 | 1.5 |
| 0.0016 | 0.97 | 1.5 |
| 0.0032 | 0.935 | 1.7 |
| 0.0047 | 0.906 | 2 |
| 0.0087 | 0.83 | 2.6 |
| 0.0112 | 0.79 | 3 |
| 0.0165 | 0.71 | 3.6 |
| 0.0238 | 0.63 | 4.3 |
| 0.0282 | 0.59 | 4.7 |
| 0.08 | 0.32 | 8.7 |
| 0.14 | 0.22 | 12 |
| 0.3 | 0.15 | 16 |
| 0.6 | 0.11 | 19 |
| 1 | 0.1 | 21 |
| 0.0001 | 1 | 1.5 |
| 0.0004 | 1 | 1.5 |

Tabella 7.19 Sequenza litostratigrafica 1, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.232 | 0.155 | 0.016 | 13.260 | 0.429 | 0.415 | 0.081 | 0.261 |
| 000126xa\_038008\_ampl | 0.211 | 0.136 | 0.016 | 3.760 | 0.164 | 0.415 | 0.080 | 0.252 |
| 000354xa\_038008\_ampl | 0.188 | 0.133 | 0.021 | 19.340 | 0.661 | 0.589 | 0.083 | 0.357 |

Tabella 7.20 Sequenza litostratigrafica 1, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.756 | 1.681 | 2.780 | 1.579 |
| 000126xa\_038008 | 1.597 | 1.792 | 2.635 | 1.699 |
| 000354xa\_038008 | 1.421 | 1.717 | 2.495 | 1.584 |
| media | 1.591 | 1.730 | 2.637 | 1.621 |

Tabella 7.21 Sequenza litostratigrafica 2, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.179 | 0.134 | 0.014 | 13.300 | 0.369 | 0.350 | 0.077 | 0.211 |
| 000126xa\_038008\_ampl | 0.223 | 0.137 | 0.017 | 3.480 | 0.134 | 0.401 | 0.078 | 0.235 |
| 000354xa\_038008\_ampl | 0.187 | 0.123 | 0.022 | 18.820 | 0.574 | 0.579 | 0.082 | 0.336 |

Tabella 7.22 Sequenza litostratigrafica 2, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.354 | 1.598 | 2.253 | 1.471 |
| 000126xa\_038008 | 1.693 | 1.752 | 2.459 | 1.655 |
| 000354xa\_038008 | 1.417 | 1.698 | 2.345 | 1.554 |
| media | 1.488 | 1.683 | 2.352 | 1.560 |

Tabella 7.23 Sequenza litostratigrafica 3, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.237 | 0.160 | 0.016 | 13.280 | 0.578 | 0.413 | 0.093 | 0.249 |
| 000126xa\_038008\_ampl | 0.245 | 0.133 | 0.017 | 3.520 | 0.200 | 0.425 | 0.088 | 0.250 |
| 000354xa\_038008\_ampl | 0.223 | 0.140 | 0.021 | 18.420 | 0.826 | 0.595 | 0.097 | 0.348 |

Tabella 7.24 Sequenza litostratigrafica 3, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.798 | 1.929 | 2.658 | 1.840 |
| 000126xa\_038008 | 1.859 | 1.985 | 2.613 | 1.928 |
| 000354xa\_038008 | 1.693 | 2.009 | 2.430 | 1.921 |
| media | 1.783 | 1.974 | 2.567 | 1.897 |

Tabella 7.25 Sequenza litostratigrafica 4, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.196 | 0.117 | 0.014 | 13.260 | 0.337 | 0.336 | 0.072 | 0.203 |
| 000126xa\_038008\_ampl | 0.196 | 0.129 | 0.016 | 3.520 | 0.122 | 0.389 | 0.071 | 0.232 |
| 000354xa\_038008\_ampl | 0.185 | 0.112 | 0.022 | 18.900 | 0.515 | 0.570 | 0.075 | 0.332 |

Tabella 7.26 Sequenza litostratigrafica 4, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.481 | 1.490 | 2.162 | 1.399 |
| 000126xa\_038008 | 1.481 | 1.602 | 2.430 | 1.518 |
| 000354xa\_038008 | 1.402 | 1.569 | 2.315 | 1.444 |
| media | 1.455 | 1.554 | 2.303 | 1.454 |

Tabella 7.27 Sequenza litostratigrafica 5, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.208 | 0.143 | 0.017 | 13.260 | 0.394 | 0.395 | 0.080 | 0.243 |
| 000126xa\_038008\_ampl | 0.205 | 0.139 | 0.018 | 3.660 | 0.153 | 0.445 | 0.079 | 0.270 |
| 000354xa\_038008\_ampl | 0.191 | 0.127 | 0.024 | 19.220 | 0.626 | 0.644 | 0.081 | 0.386 |

Tabella 7.28 Sequenza litostratigrafica 5, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.576 | 1.653 | 2.595 | 1.530 |
| 000126xa\_038008 | 1.555 | 1.781 | 2.831 | 1.662 |
| 000354xa\_038008 | 1.446 | 1.687 | 2.693 | 1.529 |
| media | 1.526 | 1.707 | 2.707 | 1.574 |

Tabella 7.29 Sequenza litostratigrafica 6, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.226 | 0.140 | 0.015 | 13.280 | 0.463 | 0.379 | 0.085 |
| 000126xa\_038008\_ampl | 0.224 | 0.137 | 0.018 | 3.560 | 0.160 | 0.426 | 0.082 |
| 000354xa\_038008\_ampl | 0.198 | 0.127 | 0.022 | 18.860 | 0.649 | 0.613 | 0.086 |

Tabella 7.30 Sequenza litostratigrafica 6, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.709 | 1.759 | 2.417 | 1.663 |
| 000126xa\_038008 | 1.697 | 1.831 | 2.650 | 1.740 |
| 000354xa\_038008 | 1.503 | 1.792 | 2.502 | 1.659 |
| media | 1.636 | 1.794 | 2.523 | 1.687 |

Tabella 7.31 Sequenza litostratigrafica 7, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.179 | 0.123 | 0.015 | 13.260 | 0.268 | 0.345 | 0.065 | 0.216 |
| 000126xa\_038008\_ampl | 0.172 | 0.130 | 0.017 | 3.440 | 0.107 | 0.406 | 0.063 | 0.252 |
| 000354xa\_038008\_ampl | 0.170 | 0.118 | 0.024 | 19.260 | 0.509 | 0.621 | 0.069 | 0.373 |

Tabella 7.32 Sequenza litostratigrafica 7, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.356 | 1.344 | 2.300 | 1.254 |
| 000126xa\_038008 | 1.303 | 1.419 | 2.636 | 1.332 |
| 000354xa\_038008 | 1.289 | 1.430 | 2.604 | 1.307 |
| media | 1.316 | 1.398 | 2.513 | 1.298 |

Tabella 7.33 Sequenza litostratigrafica 8, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.225 | 0.170 | 0.018 | 13.260 | 0.650 | 0.446 | 0.105 | 0.265 |
| 000126xa\_038008\_ampl | 0.299 | 0.163 | 0.021 | 3.440 | 0.235 | 0.507 | 0.106 | 0.296 |
| 000354xa\_038008\_ampl | 0.228 | 0.159 | 0.023 | 18.740 | 0.908 | 0.679 | 0.108 | 0.397 |

Tabella 7.34 Sequenza litostratigrafica 8, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.703 | 2.182 | 2.824 | 1.993 |
| 000126xa\_038008 | 2.264 | 2.382 | 3.098 | 2.205 |
| 000354xa\_038008 | 1.731 | 2.240 | 2.772 | 2.020 |
| media | 1.899 | 2.268 | 2.898 | 2.072 |

Tabella 7.35 Sequenza litostratigrafica 9, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.216 | 0.137 | 0.016 | 13.260 | 0.442 | 0.380 | 0.084 | 0.228 |
| 000126xa\_038008\_ampl | 0.216 | 0.140 | 0.018 | 3.620 | 0.154 | 0.430 | 0.081 | 0.255 |
| 000354xa\_038008\_ampl | 0.192 | 0.128 | 0.023 | 18.880 | 0.634 | 0.624 | 0.084 | 0.367 |

Tabella 7.36 Sequenza litostratigrafica 9, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.640 | 1.739 | 2.438 | 1.626 |
| 000126xa\_038008 | 1.635 | 1.826 | 2.667 | 1.716 |
| 000354xa\_038008 | 1.456 | 1.753 | 2.564 | 1.610 |
| media | 1.577 | 1.772 | 2.556 | 1.651 |

Tabella 7.37 Sequenza litostratigrafica 10, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.206 | 0.147 | 0.016 | 13.260 | 0.503 | 0.397 | 0.090 | 0.237 |
| 000126xa\_038008\_ampl | 0.231 | 0.145 | 0.019 | 3.700 | 0.174 | 0.449 | 0.088 | 0.264 |
| 000354xa\_038008\_ampl | 0.201 | 0.131 | 0.024 | 18.820 | 0.692 | 0.649 | 0.090 | 0.379 |

Tabella 7.38 Sequenza litostratigrafica 10, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.558 | 1.859 | 2.530 | 1.714 |
| 000126xa\_038008 | 1.752 | 1.971 | 2.761 | 1.849 |
| 000354xa\_038008 | 1.523 | 1.880 | 2.646 | 1.711 |
| media | 1.611 | 1.903 | 2.646 | 1.758 |

Tabella 7.39 Sequenza litostratigrafica 11, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.235 | 0.181 | 0.018 | 13.240 | 0.593 | 0.458 | 0.101 | 0.277 |
| 000126xa\_038008\_ampl | 0.267 | 0.156 | 0.021 | 3.640 | 0.228 | 0.496 | 0.102 | 0.292 |
| 000354xa\_038008\_ampl | 0.218 | 0.151 | 0.022 | 18.840 | 0.882 | 0.666 | 0.108 | 0.390 |

Tabella 7.40 Sequenza litostratigrafica 11, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.779 | 2.094 | 2.960 | 1.893 |
| 000126xa\_038008 | 2.020 | 2.289 | 3.062 | 2.117 |
| 000354xa\_038008 | 1.648 | 2.239 | 2.721 | 2.000 |
| media | 1.816 | 2.207 | 2.914 | 2.003 |

Tabella 7.41 Sequenza litostratigrafica 12, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.202 | 0.133 | 0.016 | 13.260 | 0.386 | 0.373 | 0.077 | 0.228 |
| 000126xa\_038008\_ampl | 0.203 | 0.140 | 0.018 | 3.500 | 0.143 | 0.431 | 0.076 | 0.261 |
| 000354xa\_038008\_ampl | 0.198 | 0.126 | 0.024 | 18.880 | 0.608 | 0.639 | 0.079 | 0.380 |

Tabella 7.42 Sequenza litostratigrafica 12, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.532 | 1.601 | 2.428 | 1.511 |
| 000126xa\_038008 | 1.534 | 1.705 | 2.727 | 1.614 |
| 000354xa\_038008 | 1.498 | 1.633 | 2.651 | 1.517 |
| media | 1.521 | 1.646 | 2.602 | 1.547 |

Tabella 7.43 Sequenza litostratigrafica 13, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.216 | 0.130 | 0.016 | 13.280 | 0.403 | 0.374 | 0.078 | 0.228 |
| 000126xa\_038008\_ampl | 0.208 | 0.136 | 0.018 | 3.560 | 0.148 | 0.426 | 0.077 | 0.257 |
| 000354xa\_038008\_ampl | 0.187 | 0.124 | 0.023 | 18.920 | 0.611 | 0.626 | 0.080 | 0.371 |

Tabella 7.44 Sequenza litostratigrafica 13, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.639 | 1.624 | 2.428 | 1.543 |
| 000126xa\_038008 | 1.579 | 1.728 | 2.687 | 1.642 |
| 000354xa\_038008 | 1.419 | 1.663 | 2.589 | 1.545 |
| media | 1.546 | 1.672 | 2.568 | 1.577 |

Tabella 7.45 Sequenza litostratigrafica 14, caratteristiche dei moti in superficie.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| codice | PGA | PGV | PGD | d90 | Ia | SI | SI05 | SI15 |
| [g] | [m/s] | [m] | [s] | [m/s] | [m] | [m] | [m] |
| 000046xa\_038008\_ampl | 0.211 | 0.136 | 0.017 | 13.260 | 0.401 | 0.385 | 0.080 | 0.235 |
| 000126xa\_038008\_ampl | 0.218 | 0.145 | 0.018 | 3.280 | 0.151 | 0.440 | 0.080 | 0.264 |
| 000354xa\_038008\_ampl | 0.195 | 0.135 | 0.024 | 18.920 | 0.647 | 0.638 | 0.083 | 0.376 |

Tabella 7.46 Sequenza litostratigrafica 14, fattori di amplificazione.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| codice | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 |
| 000046xa\_038008 | 1.648 | 2.505 | 1.532 | 2.474 |
| 000126xa\_038008 | 1.796 | 2.761 | 1.700 | 2.729 |
| 000354xa\_038008 | 1.722 | 2.627 | 1.605 | 2.593 |
| media | 1.722 | 2.631 | 1.613 | 2.599 |

Tabella 7.47 Fattori di amplificazione medi per le 14 sequenze litostratigrafiche.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SL | FA0.1-0.5 | FA0.5-1.5 | FH0.1-0.5 | FH0.5-1.5 | FAPGA |
| 1 | 1.730 | 2.637 | 1.621 | 2.677 | 1.591 |
| 2 | 1.683 | 2.352 | 1.560 | 2.342 | 1.488 |
| 3 | 1.974 | 2.567 | 1.897 | 2.598 | 1.783 |
| 4 | 1.554 | 2.303 | 1.454 | 2.273 | 1.455 |
| 5 | 1.707 | 2.707 | 1.574 | 2.685 | 1.526 |
| 6 | 1.794 | 2.523 | 1.687 | 2.509 | 1.636 |
| 7 | 1.398 | 2.513 | 1.298 | 2.459 | 1.316 |
| 8 | 2.268 | 2.898 | 2.072 | 2.909 | 1.899 |
| 9 | 1.772 | 2.556 | 1.651 | 2.536 | 1.577 |
| 10 | 1.903 | 2.646 | 1.758 | 2.628 | 1.611 |
| 11 | 2.207 | 2.914 | 2.003 | 2.941 | 1.816 |
| 12 | 1.646 | 2.602 | 1.547 | 2.562 | 1.521 |
| 13 | 1.672 | 2.568 | 1.577 | 2.539 | 1.546 |
| 14 | 1.722 | 2.631 | 1.613 | 2.599 | 1.577 |
| media | 1.788 | 2.601 | 1.665 | 2.590 | 1.596 |

Tabella 7.48 - Magnitudo Scaling Factors

|  |  |
| --- | --- |
| **Magnitudo** | **MSF\*** |
| 5.5 | 1.43 |
| 6.0 | 1.32 |
| 6.5 | 1.19 |

\* Seed e Idriss (1982)

Tabella 7.49 Indice del potenziale di liquefazione calcolato in corrispondenza di ogni verticale penetrometrica analizzata.

|  |  |  |
| --- | --- | --- |
| ID\_SPU | Codice | IL [-] |
| 038008P1 | ADBPO U248 CO | 7.987516 |
| 038008P10 | 4ANS01 SCPTU1 | 0.321767 |
| 038008P100 | 203030U021 Cispadana CPTU454 | 0.278701 |
| 038008P101 | 203030U022 Cispadana CPTU452 | 1.114079 |
| 038008P102 | 203030U023 Cispadana CPTU451 | 1.291027 |
| 038008P103 | 185060U517 U168FE | 0.442509 |
| 038008P104 | 185060U519 U170FE | 0.401066 |
| 038008P105 | 185060U521 U173FE | 0.118685 |
| 038008P106 | 185060U523 U177FE | 0.322003 |
| 038008P107 | 185060U525 U179FE | 2.099223 |
| 038008P108 | 185070U503 U180FE | 0.102372 |
| 038008P109 | 185070U505 U182FE | 0.380434 |
| 038008P11 | 4ANS01 SCPTU2 | 0.308869 |
| 038008P110 | 185070U506 U183FE | 2.051008 |
| 038008P111 | 185070U508 U185FE | 3.930183 |
| 038008P112 | 185070U509 U186FE | 5.245374 |
| 038008P113 | 185070U511 U188FE | 1.482645 |
| 038008P114 | 185070U512 U189FE | 3.405685 |
| 038008P115 | 185070U514 U191FE | 4.928697 |
| 038008P116 | 185070U516 U194FE | 1.727794 |
| 038008P117 | 185110U502 U195FE | 1.993834 |
| 038008P118 | 185070U517 U198FE | 0.236688 |
| 038008P119 | 185070U519 U200FE | 0.006216 |
| 038008P12 | 1ACS23 SCPTU1 | 3.454419 |
| 038008P120 | 185070U520 U201FE | 4.879886 |
| 038008P121 | 185070U522 U203FE | 0.449742 |
| 038008P122 | 185120U502 U204FE | 2.827868 |
| 038008P123 | 185120U504 U206FE | 0.328984 |
| 038008P124 | 185120U505 U207FE | 0.371146 |
| 038008P125 | 185120U507 U209FE | 0.860637 |
| 038008P126 | 185110U504 U210FE | 2.003828 |
| 038008P127 | 185150U503 U211FE | 2.784153 |
| 038008P128 | 185150U504 U212FE | 0 |
| 038008P129 | 185120U508 U213FE | 2.337301 |
| 038008P13 | 1ACS23 SCPTU 2 | 3.951233 |
| 038008P130 | 185120U510 U215FE | 0.63489 |
| 038008P131 | 185120U511U216FE | 5.366427 |
| 038008P132 | 185120U513 U218FE | 1.035808 |
| 038008P133 | 185120U514U219FE | 1.08653 |
| 038008P134 | 185120U516 U221FE | 4.554206 |
| 038008P135 | 185120U517 U222FE | 0.006959 |
| 038008P136 | 185120U519 U224FE | 3.918853 |
| 038008P137 | 185120U520 U225FE | 1.237879 |
| 038008P138 | 185120U522 U227FE | 0.633818 |
| 038008P139 | 186090U502 U228FE | 1.134527 |
| 038008P14 | 4ASPCN02 SCPTU1 | 0 |
| 038008P140 | 186130U504 U229FE | 9.997679 |
| 038008P141 | 186130U505U230FE | 10.38941 |
| 038008P142 | 185080U503 U233FE | 1.745588 |
| 038008P143 | 185080U505 U236FE | 9.832822 |
| 038008P144 | 186050U502 U237FE | 1.136413 |
| 038008P145 | 186050U504 U239FE | 0.078116 |
| 038008P146 | 186050U505 U240FE | 0.489674 |
| 038008P147 | 186050U507 U242FE | 1.208573 |
| 038008P148 | 186050U508 U243FE | 1.010165 |
| 038008P149 | 186050U510 U245FE | 0.63379 |
| 038008P15 | 4ASPCN02 SCPTU2 | 1.67551 |
| 038008P150 | 185060U504 | 1.988 |
| 038008P151 | 185070U502 | 6.589306 |
| 038008P152 | 185110U501 | 3.761858 |
| 038008P153 | 185120U501 | 4.26815 |
| 038008P154 | 185150U501 | 2.606418 |
| 038008P155 | 185150U502 | 5.414845 |
| 038008P156 | 185160U501 | 0.736173 |
| 038008P157 | 185160U502 | 1.70144 |
| 038008P158 | 185160U503 | 2.909581 |
| 038008P159 | 185160U504 | 0.003771 |
| 038008P16 | 5ANS01 5ANS03 SCPTU1 | 0.171842 |
| 038008P160 | 186090U501 | 5.444345 |
| 038008P161 | 186130U501 | 3.082052 |
| 038008P162 | 186130U502 | 1.792274 |
| 038008P163 | 186130U503 | 6.940184 |
| 038008P164 | 203030U502 | 3.879997 |
| 038008P165 | 203030U507 | 8.223 |
| 038008P166 | 203040U501 | 5.062619 |
| 038008P167 | 203040U503 | 1.684139 |
| 038008P168 | 203040U502 | 6.564246 |
| 038008P169 | 203040U505 | 1.912548 |
| 038008P17 | 5ANS01 5ANS03 SCPTU2 | 2.962726 |
| 038008P170 | 203040U506 | 1.212988 |
| 038008P171 | 203040U507 | 13.97521 |
| 038008P172 | 203040U508 | 11.26944 |
| 038008P173 | 203040U509 | 7.792287 |
| 038008P174 | 203070U508 | 9.312853 |
| 038008P175 | 203080U501 | 3.522179 |
| 038008P176 | 203080U502 | 3.120549 |
| 038008P177 | 203080U503 | 0.532545 |
| 038008P178 | 203080U504 | 4.809172 |
| 038008P179 | 203080U505 | 2.812377 |
| 038008P18 | 6ANS 01 SCPTU1 | 1.864967 |
| 038008P180 | 203080U506 | 6.776678 |
| 038008P181 | 203080U507 | 3.822877 |
| 038008P182 | 203080U509 | 1.309481 |
| 038008P183 | 203120U509 | 6.362837 |
| 038008P184 | 204010U504 | 6.526888 |
| 038008P185 | 204010U507 | 1.429728 |
| 038008P186 | 204010U508 | 3.533374 |
| 038008P187 | 204010U515 | 7.321082 |
| 038008P188 | 204010U511 | 2.684132 |
| 038008P189 | 204010U512 | 5.077542 |
| 038008P19 | 6ANS 01 SCPTU2 | 1.17273 |
| 038008P190 | 204020U509 | 10.00313 |
| 038008P191 | 204030U501 | 2.388984 |
| 038008P192 | 204030U502 | 4.85022 |
| 038008P193 | 204050U501 | 2.484282 |
| 038008P194 | 204050U502 | 2.313179 |
| 038008P195 | 204050U504 | 2.445365 |
| 038008P196 | 204050U505 | 9.613804 |
| 038008P197 | 204050U511X | 4.461469 |
| 038008P198 | 204050U512 | 6.489778 |
| 038008P199 | 186150U503 | 0.179337 |
| 038008P2 | 186140U501 | 0.044277 |
| 038008P20 | 7ANS01 SCPTU1 | 0.952944 |
| 038008P200 | 186140U502 | 0.180148 |
| 038008P201 | 12A12cpt02 | 0.529039 |
| 038008P202 | 12H3cpt02 | 2.447436 |
| 038008P203 | 12L14cpt6 | 0.961144 |
| 038008P204 | 12L15cpt3 | 1.660186 |
| 038008P205 | 12M8cpt1 | 1.701542 |
| 038008P206 | 12N10cpt3 | 0.161228 |
| 038008P207 | 12N12CPT1 | 6.498616 |
| 038008P208 | SEF1 | 7.913667 |
| 038008P209 | SEF2 | 5.865147 |
| 038008P21 | 7ANS01 SCPTU2 | 2.299805 |
| 038008P210 | SEF3 | 5.005166 |
| 038008P211 | SEF4 | 6.388323 |
| 038008P212 | SEF5 | 3.941957 |
| 038008P213 | SEF6 | 2.960332 |
| 038008P214 | SEF7 | 3.442869 |
| 038008P215 | SEF8 | 5.112569 |
| 038008P216 | SEF9 | 6.723815 |
| 038008P217 | SEF10 | 5.854638 |
| 038008P218 | SEF11 | 5.245872 |
| 038008P219 | SEF13 | 6.266079 |
| 038008P22 | 7 ANS02 SCPTU1 | 6.185983 |
| 038008P220 | SEF14 | 5.239111 |
| 038008P221 | SEF15 | 5.095994 |
| 038008P222 | SEF16 | 3.581808 |
| 038008P223 | SEF17 | 5.279011 |
| 038008P224 | SEF18 | 4.734411 |
| 038008P225 | SEF19 | 3.845434 |
| 038008P226 | SEF20 | 8.045981 |
| 038008P227 | SEF22 | 5.81141 |
| 038008P228 | SEF23 | 5.067284 |
| 038008P229 | SEF24 | 5.369685 |
| 038008P23 | 7 ANS02 SCPTU2 | 4.003202 |
| 038008P230 | SEF25 | 6.223965 |
| 038008P231 | SEF26 | 5.704223 |
| 038008P232 | SvincoloCona | 0.748334 |
| 038008P233 | PIP Exedil cptu15 | 0.023267 |
| 038008P234 | PIP Exedil cptu18 | 0 |
| 038008P235 | BRETELLA CPT1 | 0.017897 |
| 038008P236 | BRETELLA CPT2 | 0.970975 |
| 038008P237 | 1A CPT1 | 0.262498 |
| 038008P238 | 2A CPT1-185110C453 | 0 |
| 038008P239 | 2A CPT2-185110C158 | 0.558251 |
| 038008P24 | 25AAP2 01 SCPTU1 | 2.131521 |
| 038008P240 | 2A CPT3-185110C454 | 0 |
| 038008P241 | 5A CPT1 | 0 |
| 038008P242 | 5A CPT2 | 0.375369 |
| 038008P243 | 5A CPT3 | 0.000924 |
| 038008P244 | 5A CPT4 | 0.103844 |
| 038008P245 | 6A CPT1 | 1.237591 |
| 038008P246 | 6A CPT2 | 1.146269 |
| 038008P247 | 6A CPT3 | 0.235868 |
| 038008P248 | 6A CPT4 | 0.015754 |
| 038008P249 | 7A CPT1 | 0.847532 |
| 038008P25 | 25AAP2 01 SCPTU2 | 6.520182 |
| 038008P250 | 7A CPT2 | 2.097052 |
| 038008P251 | 7A CPT3 | 0 |
| 038008P252 | 7A CPT4 | 1.210938 |
| 038008P253 | 7A CPT5 | 0.487822 |
| 038008P254 | 7A CPT6 | 0.843672 |
| 038008P255 | 7A CPT7 | 1.211686 |
| 038008P256 | 7A CPT8 | 2.479159 |
| 038008P257 | 3A CPT1 | 0.070619 |
| 038008P258 | 3A CPT2 | 0.345125 |
| 038008P259 | 3A CPT3 | 0.285559 |
| 038008P26 | 7ANS 03 SCPTU1 | 8.035484 |
| 038008P260 | 3A CPT4 | 0.078723 |
| 038008P261 | 3A CPT5 | 0.297275 |
| 038008P262 | 3A CPT6 | 0.383442 |
| 038008P263 | 3A CPT7 | 0.362527 |
| 038008P264 | 4A CPT7 | 0 |
| 038008P265 | 4A CPT8 | 0 |
| 038008P266 | 4A CPT9 | 0 |
| 038008P27 | 7ANS 03 SCPTU2 | 2.45238 |
| 038008P270 | 9A CPT11 | 2.022226 |
| 038008P271 | 9A CPT12 | 0 |
| 038008P272 | 10A CPT1-204050C022 | 0.536845 |
| 038008P273 | 10A CPT2-204050C023 | 0.871874 |
| 038008P274 | 10A CPT3-204050C024 | 0.350808 |
| 038008P275 | 10A CPT4-204050C025 | 0.670122 |
| 038008P276 | 10A CPT5-204050C026 | 0.278068 |
| 038008P277 | 10A CPT6-204050C027 | 1.07924 |
| 038008P278 | 10A CPT7-204050C028 | 0.311567 |
| 038008P279 | 10A CPT8-204050C029 | 1.090528 |
| 038008P28 | 7ANS04 SCPTU1 | 3.289641 |
| 038008P280 | 11A CPT1 | 0.368203 |
| 038008P281 | 11A CPT2 | 0.321729 |
| 038008P282 | 11A CPT3 | 0.027568 |
| 038008P283 | 11A CPT4 | 8.66E-05 |
| 038008P284 | 11A CPT5 | 0.634951 |
| 038008P285 | 12A CPT1-185110C161 | 1.150121 |
| 038008P286 | 12A CPT2-185110C162 | 0.221353 |
| 038008P287 | 12A CPT3-185110C163 | 0.014461 |
| 038008P288 | 13A CPT1 | 0.315562 |
| 038008P289 | 13A CPT2 | 0 |
| 038008P29 | 7ANS04 SCPTU2 | 2.589063 |
| 038008P290 | 13A CPT3 | 0 |
| 038008P291 | 13A CPT4 | 0 |
| 038008P292 | 13A CPT5 | 0.008772 |
| 038008P293 | 15A CPT1 | 2.193139 |
| 038008P294 | 15A CPT2 | 0.733191 |
| 038008P295 | 15A CPT3 | 0 |
| 038008P296 | 14A Elletipi CPT1 | 1.405044 |
| 038008P297 | 14A Sandon CPT1 | 0 |
| 038008P298 | 14A Sandon CPT2 | 1.059388 |
| 038008P299 | 21A CPT2 | 0.448984 |
| 038008P3 | SABB CPTU 01 | 3.190049 |
| 038008P30 | 8ANS01 SCPTU1 | 0.276334 |
| 038008P300 | 21A CPT3 | 0.185666 |
| 038008P301 | 16A CPT1 | 0.656732 |
| 038008P302 | 17A CPT1 | 0 |
| 038008P303 | 17A CPT3 | 2.275225 |
| 038008P304 | 17A CPT4 | 2.401607 |
| 038008P305 | 17A CPT5 | 2.949103 |
| 038008P306 | 17A CPT6 | 0.965691 |
| 038008P307 | 17A CPT13 | 3.164936 |
| 038008P308 | 17A CPT14 | 1.153247 |
| 038008P309 | 17A CPT15 | 0.978455 |
| 038008P31 | 8ANS01 SCPTU2 | 1.262742 |
| 038008P310 | 17A CPT16 | 0.213403 |
| 038008P311 | 19A CPT1 | 0.490426 |
| 038008P312 | 20A CPT1 | 1.310994 |
| 038008P313 | 20A CPT2 | 0.263204 |
| 038008P314 | 20A CPT3 | 2.025987 |
| 038008P315 | 20A CPT4 | 2.003181 |
| 038008P316 | 20A CPT5 | 0.103952 |
| 038008P317 | 22A CPT3 | 1.058357 |
| 038008P318 | 22A CPT4 | 0.310474 |
| 038008P319 | 22A CPT5 | 3.833529 |
| 038008P32 | 10ANS 01 SCPTU1 | 3.430961 |
| 038008P320 | 22A CPT6 | 1.311775 |
| 038008P321 | VIA WAGNER CPT1 | 0.083606 |
| 038008P322 | VIA WAGNER CPT2 | 0.246432 |
| 038008P323 | VIA WAGNER CPT3 | 0.498592 |
| 038008P324 | PAROFIN CPT1 | 0 |
| 038008P325 | PAROFIN CPT2 | 0 |
| 038008P326 | Tangenziale CPT1 | 0 |
| 038008P327 | Tangenziale CPT2 | 0.674947 |
| 038008P328 | Tangenziale CPT3 | 0.325155 |
| 038008P329 | Tangenziale CPT4 | 0.375559 |
| 038008P33 | 10ANS 01 SCPTU2 | 1.905213 |
| 038008P330 | Tangenziale CPT5 | 0.957355 |
| 038008P331 | Tangenziale CPT6 | 0.32144 |
| 038008P332 | PG 63985/05 CPT1-185150C067 | 0.932918 |
| 038008P333 | PG 63985/05 CPT2-185150C068 | 1.027155 |
| 038008P334 | PG 63985/05 CPT3-185150C069 | 1.542787 |
| 038008P335 | PG 63985/05 CPT4-185150C070 | 1.420468 |
| 038008P336 | PG 63985/05 CPT5-185150C071 | 1.807841 |
| 038008P337 | PG 63985/05 CPT6-185150C072 | 2.23191 |
| 038008P338 | PG 95709/06 CPT1 | 0.863943 |
| 038008P339 | PG 49114/06 | 0.798749 |
| 038008P34 | 10ANS 02 SCPTU1 | 2.555543 |
| 038008P340 | PG 68300/07 | 0.802499 |
| 038008P341 | PG 61476/07 CPT1 | 1.609596 |
| 038008P342 | PG 61476/07 CPT2 | 2.035463 |
| 038008P343 | PG 49380/07 CPT1 | 0.857419 |
| 038008P344 | PG 49380/07 CPT2 | 1.647706 |
| 038008P345 | PG 49380/07 CPT3 | 0 |
| 038008P346 | PG 82081/07 CPT1 | 0.000365 |
| 038008P347 | PG 82081/07 CPT2 | 0.328719 |
| 038008P348 | PG 82081/07 CPT3 | 0 |
| 038008P349 | PG 82081/07 CPT4 | 0 |
| 038008P35 | 10ANS 02 SCPTU2 | 0.775353 |
| 038008P350 | PG 59512/07 CPT1 | 2.257055 |
| 038008P351 | PG 59512/07 CPT2 | 5.806337 |
| 038008P352 | PG 101560/07 CPT2 | 0.701065 |
| 038008P353 | PG 60335/07 CPT1 | 1.520321 |
| 038008P354 | PG 60335/07 CPT2 | 0.604496 |
| 038008P355 | PG 34282/05 CPT1 | 0.901516 |
| 038008P356 | PG 34282/05 CPT2 | 0.311861 |
| 038008P357 | PG 34282/05 CPT3 | 0.37647 |
| 038008P358 | PG 34282/05 CPT4 | 0.877729 |
| 038008P359 | PG 34282/05 CPT5 | 1.219195 |
| 038008P36 | 14 ANS 01 SCPTU1 | 0.643299 |
| 038008P360 | PG 47754/07 CPT1 | 1.196899 |
| 038008P361 | PG 47754/07 CPT3 | 2.155348 |
| 038008P362 | PG 1737/07 CPT1 | 1.504486 |
| 038008P363 | PG 1737/07 CPT2 | 1.527171 |
| 038008P364 | PG 1737/07 CPT3 | 1.242623 |
| 038008P365 | PG 93015/06 CPT1 | 0 |
| 038008P366 | PG 93015/06 CPT2 | 0.513689 |
| 038008P367 | PG 93015/06 CPT3 | 0.008107 |
| 038008P368 | PG 60327/07 CPT1 | 1.273424 |
| 038008P369 | PG 60327/07 CPT2 | 0.417904 |
| 038008P37 | 14 ANS 01 SCPTU2 | 1.73177 |
| 038008P370 | PG 30041/07 CPT1 | 0 |
| 038008P371 | PG 30041/07 CPT2 | 0 |
| 038008P372 | PG 30041/07 CPT3 | 0 |
| 038008P373 | PG 30041/07 CPT4 | 0.066478 |
| 038008P374 | PG 30041/07 CPT5 | 0.591829 |
| 038008P375 | PG 80944/05 CPT1 | 0.09398 |
| 038008P376 | PG 80944/05 CPT2 | 0.086018 |
| 038008P377 | PG 80944/05 CPT3 | 0.033811 |
| 038008P378 | PG 62907/07 CPT1 | 0.214063 |
| 038008P379 | PG 62907/07 CPT2 | 0 |
| 038008P38 | 14 ANS 02 SCPTU1 | 0.875906 |
| 038008P380 | PG 62907/07 CPT3 | 0.34772 |
| 038008P381 | 58124/07 CPT1 | 0 |
| 038008P382 | 58124/07 CPT2 | 0.407325 |
| 038008P383 | PG 80473/07 CPT1 | 0.532801 |
| 038008P384 | PG 33679/07 CPT1 | 1.385777 |
| 038008P385 | PG 33679/07 CPT2 | 3.397748 |
| 038008P386 | PG 85821/07 CPT1 | 0.64611 |
| 038008P387 | PG 85821/07 CPT2 | 0.869895 |
| 038008P388 | PG 85821/07 CPT4 | 1.610467 |
| 038008P389 | PG 85821/07 CPT5 | 0.087258 |
| 038008P39 | 14 ANS 02 SCPTU2 | 0.586938 |
| 038008P390 | PG 52093/05 CPT1 | 0.710721 |
| 038008P391 | PG 52093/05 CPT2 | 0.087 |
| 038008P392 | PG 52093/05 CPT3 | 0.021438 |
| 038008P393 | PG 52093/05 CPT4 | 0.339909 |
| 038008P394 | PG 14659/07 CPT1 | 0 |
| 038008P395 | PG 14659/07 CPT2 | 0 |
| 038008P396 | PG 58703/06 CPT1 | 0.169828 |
| 038008P397 | PG 58703/06 CPT2 | 1.65 |
| 038008P398 | PG 58703/06 CPT3 | 0.753934 |
| 038008P399 | PG 64126/06 CPT1 | 0.104295 |
| 038008P4 | SABB BIS CPTU 02 | 10.4385 |
| 038008P40 | 18 ANS 02 SCPTU1 | 0.444349 |
| 038008P400 | PG 64126/06 CPT2 | 0.191008 |
| 038008P401 | PG 64126/06 CPT3 | 0.462908 |
| 038008P402 | PG 64126/06 CPT4 | 0.300159 |
| 038008P403 | PG 84423/05 CPT1 | 0 |
| 038008P404 | PG 82272/05 CPT1 | 1.724536 |
| 038008P405 | PG 34097/06 CPT1 | 0.844221 |
| 038008P406 | PG 34097/06 CPT2 | 0.159845 |
| 038008P407 | PG 30732/06 CPT1 | 0.630734 |
| 038008P408 | PG 45238/05 CPT1 | 1.63968 |
| 038008P409 | PG 45238/05 CPT2 | 2.933855 |
| 038008P41 | 18 ANS 02 SCPTU2 | 3.186507 |
| 038008P410 | PG 97763/04 CPT1 | 1.287538 |
| 038008P411 | PG 97763/04 CPT2 | 0.719016 |
| 038008P412 | PG 48032/06 CPT1 lotto1 | 1.002521 |
| 038008P413 | PG 48032/06 CPT2 lotto1 | 0.498609 |
| 038008P414 | PG 48032/06 CPT1 lotto6 | 1.139285 |
| 038008P415 | PG 48032/06 CPT2 lotto6 | 0.956765 |
| 038008P416 | PG 65636/05 CPT1 | 0.230453 |
| 038008P417 | PG 65636/05 CPT2 | 0.884968 |
| 038008P418 | 30730/06 | 1.048948 |
| 038008P419 | 2026/06 CPT1 | 0.067412 |
| 038008P42 | 18 ANS 03 SCPTU1 | 3.594831 |
| 038008P420 | PG 41101/07 CPT1 | 0.247553 |
| 038008P421 | PG 33900/05 CPT1 | 6.457913 |
| 038008P422 | PG 54671/05 CPT1 | 1.433512 |
| 038008P423 | PG 54671/05 CPT2 | 0.622477 |
| 038008P424 | PG 54671/05 CPT3 | 0.901752 |
| 038008P425 | PG 54671/05 CPT4 | 0.999774 |
| 038008P43 | 18 ANS 03 SCPTU2 | 1.3431 |
| 038008P430 | PG 6522/07 CPT1 | 4.532294 |
| 038008P431 | PG 6522/07 CPT2 | 2.283983 |
| 038008P432 | PG 6522/07 CPT3 | 0.916827 |
| 038008P433 | PG 6522/07 CPT4 | 1.189375 |
| 038008P434 | PG 70615/05 CPT1 | 0.623278 |
| 038008P435 | PG 70615/05 CPT2 | 0.198611 |
| 038008P436 | PG 89318/05 CPT1 | 0.883457 |
| 038008P437 | PG 4783/06 CPT1 | 0.186805 |
| 038008P438 | PG 4783/06 CPT2 | 0 |
| 038008P439 | PG 4783/06 CPT3 | 0.138503 |
| 038008P44 | 21ANS 02 SCPTU1 | 0.14198 |
| 038008P440 | PG 55576/03 CPT1 | 0.954514 |
| 038008P441 | PG 55576/03 CPT2 | 0.417221 |
| 038008P442 | PG 55576/03 CPT3 | 0.236053 |
| 038008P443 | PG 55576/03 CPT4 | 0.009365 |
| 038008P444 | PG 55576/03 CPT5 | 0.000773 |
| 038008P445 | PG 78959/05 CPT1 | 0.343208 |
| 038008P446 | PG 17204/04 CPT 1 | 1.457618 |
| 038008P447 | PG 17204/04 CPT 2 | 1.707469 |
| 038008P448 | PG 17204/04 CPT 3 | 0.091326 |
| 038008P449 | PG 101756/06 CPT1 | 0.988541 |
| 038008P45 | 21ANS 02 SCPTU2 | 0.018751 |
| 038008P450 | PG 37024/07 CPT1 | 0.247104 |
| 038008P451 | PG 35267/04 CPT1 | 0.396443 |
| 038008P452 | PG 35267/04 CPT2 | 0.62054 |
| 038008P453 | PG 35267/04 CPT3 | 0.464578 |
| 038008P454 | PG 35267/04 CPT4 | 0.008019 |
| 038008P455 | PG 95162/05 CPT1 | 1.986649 |
| 038008P456 | PG 95162/05 CPT2 | 0.52515 |
| 038008P457 | PG 78111/07 CPT 1 | 0 |
| 038008P458 | PG 78111/07 CPT 2 | 0.26094 |
| 038008P459 | PG 78111/07 CPT 3 | 0.895025 |
| 038008P46 | 25AVN 01 SCPTU1 | 3.697158 |
| 038008P460 | PG 86878/09 CPT1 | 0.073573 |
| 038008P461 | PG 65879 CPT1 | 0 |
| 038008P462 | PG 55211/09 CPT1 | 3.54579 |
| 038008P463 | PG 36608/09 CPT1 | 0 |
| 038008P464 | PG 12612/10 CPT1 | 1.450614 |
| 038008P465 | PG 58168/09 CPT1 | 1.496823 |
| 038008P466 | PG 104882/09 CPT3 | 0.02566 |
| 038008P467 | PG 70295/09 CPT1 | 0.119698 |
| 038008P468 | PG 70295/09 CPT6 | 1.137436 |
| 038008P469 | PG 24202/08 CPT3 | 0 |
| 038008P47 | 25AVN 01 SCPTU2 | 4.988047 |
| 038008P470 | Mizzana CPT 1 | 0.401536 |
| 038008P471 | Mizzana CPT 2 | 0.547427 |
| 038008P472 | Ex Distilleria CPT 9 | 0.04714 |
| 038008P473 | Ex Distilleria CPT 10 | 0.520355 |
| 038008P474 | FS CPT 3 | 0.426891 |
| 038008P475 | FS CPT 1 | 0 |
| 038008P476 | Ippodromo CPT1 | 1.192139 |
| 038008P477 | Ippodromo CPT2 | 1.188857 |
| 038008P478 | Ippodromo CPT3 | 1.350731 |
| 038008P479 | Ippodromo CPT4 | 0.522873 |
| 038008P48 | 2ANS01 SCPTU1 | 2.817006 |
| 038008P480 | Torre Fossa CPT1 | 0 |
| 038008P481 | Torre Fossa CPT2 | 0 |
| 038008P482 | Torre Fossa CPT3 | 0 |
| 038008P483 | Corlo CPT1 | 0 |
| 038008P484 | 185110U510 Incubatore CPTU1 | 0.255193 |
| 038008P485 | 185110U511 Incubatore CPTU2 | 0.07473 |
| 038008P486 | 185110U512 Incubatore CPTU3 | 0.998875 |
| 038008P487 | 185110U513 Incubatore CPTU4 | 2.836267 |
| 038008P488 | 185110U514 Incubatore CPTU5 | 0.099794 |
| 038008P489 | 185160U505 Ex Riseria CPTU1 | 2.092267 |
| 038008P49 | 2ANS01 SCPTU2 | 2.874251 |
| 038008P490 | 185160U506 Ex Riseria CPTU2 | 0.755819 |
| 038008P491 | 185160U507 Ex Riseria CPTU3 | 1.37129 |
| 038008P493 | 185160U509 Ex Riseria CPTU5 | 3.192664 |
| 038008P494 | Archeologico CPT4 | 3.658628 |
| 038008P495 | Archeologico CPT12 | 1.342474 |
| 038008P496 | Archeologico CPT14 | 0.940743 |
| 038008P497 | Archeologico CPT27 | 2.608117 |
| 038008P498 | Agea Termo CPT1 | 0.901414 |
| 038008P499 | IdrovBaura CPT1 | 1.399525 |
| 038008P5 | 9A CPT10 | 0.897376 |
| 038008P50 | 4ANS02 SCPTU1 | 1.263541 |
| 038008P500 | IdrovBaura CPT2 | 1.399054 |
| 038008P501 | IdrovBaura CPT3 | 1.395528 |
| 038008P502 | IdrovBaura CPT4 | 2.907797 |
| 038008P503 | Ospedale Cona CPT1 | 1.578669 |
| 038008P504 | Ospedale Cona CPT2 | 1.444195 |
| 038008P505 | 203030U051 Cispadana96 CPTU1 | 0.749945 |
| 038008P506 | 203030U052 Cispadana96 CPTU2 | 0.927839 |
| 038008P507 | 203030U048 Cispadana96 CPTU3 | 0.244284 |
| 038008P508 | 203030U049 Cispadana96 CPTU4 | 5.318699 |
| 038008P509 | 203030U050 Cispadana96 CPTU6 | 0.144191 |
| 038008P51 | 4ANS02 SCPTU2 | 0.243694 |
| 038008P510 | 203030U053 Cispadana96 CPTU18 | 0.240738 |
| 038008P511 | 203030U054A Cispadana96 CPTU19 | 1.230687 |
| 038008P512 | 203030U054B Cispadana96 CPTU20 | 1.135353 |
| 038008P513 | 203030U055 Cispadana96 CPTU21 | 1.149946 |
| 038008P514 | 203030U057 Cispadana96 CPTU22 | 1.394492 |
| 038008P515 | 203030U410 Cispadana96 CPTU23 | 0.556253 |
| 038008P516 | 78843 CPT1 | 0.02196 |
| 038008P517 | Scuola Baura | 1.528681 |
| 038008P518 | Nido Salice | 0.329732 |
| 038008P519 | Confortino CPTU 05 | 0.981682 |
| 038008P52 | 5ANS02 SCPTU1 | 0.533271 |
| 038008P520 | Confortino CPTU 06 | 0.524088 |
| 038008P521 | Mizzana CPTU 08 | 2.812049 |
| 038008P522 | Bardella SCPTU 01 | 2.098716 |
| 038008P523 | Bardella SCPTU 02 | 7.514508 |
| 038008P524 | Betto SCPTU 03 | 0.414 |
| 038008P525 | Betto SCPTU 04 | 2.505948 |
| 038008P526 | Mizzana SCPTU 07 | 6.813198 |
| 038008P527 | FS SCPTU 09 | 8.814003 |
| 038008P528 | FS SCPTU 10 | 2.236799 |
| 038008P529 | Area attracco SCPTU 11 | 1.466054 |
| 038008P53 | 5ANS02 SCPTU2 | 9.230252 |
| 038008P530 | Area attracco SCPTU 12 | 1.826482 |
| 038008P531 | Prog. 1250 SCPTU 13 | 1.20838 |
| 038008P532 | Resistenza SCPTU 14 | 1.064034 |
| 038008P533 | Prog. 3800 SCPTU 15 | 2.041539 |
| 038008P534 | San Giacomo CPTU 17 | 1.574943 |
| 038008P535 | Pace CPTU 19 | 2.296002 |
| 038008P536 | San Giorgio CPTU22 | 15.41222 |
| 038008P537 | San Giacomo SCPTU 16 | 2.746158 |
| 038008P538 | Pace SCPTU 18 | 2.762616 |
| 038008P539 | Porta Reno SCPTU 20 | 9.340868 |
| 038008P54 | 8ANS02 SCPTU1 | 1.485213 |
| 038008P540 | San Giorgio SCPTU 21 | 10.04846 |
| 038008P541 | Caldirolo SCPTU 24 | 11.934 |
| 038008P542 | Caldirolo SCPTU 23 | 7.734833 |
| 038008P543 | Addolorata SCPTU1 | 4.146 |
| 038008P544 | Addolorata SCPTU2 | 4.30332 |
| 038008P545 | Addolorata CPTU3 | 3.43576 |
| 038008P546 | Fossalta SCPTU1 | 1.249973 |
| 038008P547 | Fossalta CPTU2 | 3.635 |
| 038008P548 | Fossalta SCPTU3 | 18.431 |
| 038008P549 | SABB SCPTU 02 | 15.35374 |
| 038008P55 | 8ANS02 SCPTU2 | 2.9387 |
| 038008P550 | SABB BIS SCPTU 01 | 21.23068 |
| 038008P551 | SCPTU 01 San Bartolomeo in Bosco | 2.296254 |
| 038008P552 | SCPTU 02 Quartesana | 3.076216 |
| 038008P553 | SCPTU 03 Scuola Materna Guido Rossa | 0.711653 |
| 038008P554 | SCPTU 04 via Bellonci via Serao | 1.395474 |
| 038008P555 | SCPTU 05 Palazzo delle Palestre | 2.757522 |
| 038008P556 | SCPTU 06 Mura di Porta Po | 3.052845 |
| 038008P557 | SCPTU 07 via Bagaro | 4.735709 |
| 038008P558 | SCPTU 08 Liceo Ariosto | 1.158368 |
| 038008P559 | SCPTU 09 scuola media Tasso Boario | 0.564536 |
| 038008P56 | 12AR 01 SCPTU1 | 0.421607 |
| 038008P560 | SCPTU 10 Piazzale Giordano Bruno | 4.300842 |
| 038008P561 | SCPTU 11 viale Costituzione | 7.066951 |
| 038008P562 | SCPTU 12 C.Govoni | 5.559849 |
| 038008P563 | SCPTU 13 | 1.996072 |
| 038008P564 | SCPTU 15 Biblioteca Ariostea | 4.976151 |
| 038008P565 | SCPTU 17 Istituto Compensivo Cosmè Tura | 1.562871 |
| 038008P566 | SCPTU 18 Scuola Materna Ponte | 0.989187 |
| 038008P567 | SCPTU 19 Via Lana | 1.331283 |
| 038008P568 | SCPTU 20 Via Cattaneo | 2.979397 |
| 038008P569 | SCPTU 21 Scuola Elementare Manzoni | 1.618219 |
| 038008P57 | 12AR 01 SCPTU2 | 0.401273 |
| 038008P570 | SCPTU 22 Casaglia | 5.432838 |
| 038008P571 | SCPTU 24 via Renata di Francia | 2.53207 |
| 038008P572 | SCPTU 25 via dei Cedri | 0.81 |
| 038008P573 | SCPTU 26 Monestirolo | 4.702749 |
| 038008P574 | SCPTU 27 Denore | 7.187822 |
| 038008P575 | SCPTU 28 Scuola media D. Alighieri | 5.536806 |
| 038008P576 | SCPTU 29 Cona | 6.069085 |
| 038008P577 | SCPTU 30 Fiera | 0.214576 |
| 038008P578 | SCPTU 31 Palaspost comunale | 5.136527 |
| 038008P579 | SCPTU 32 Ravalle | 2.038851 |
| 038008P58 | 18 ANS 01 SCPTU1 | 0.867297 |
| 038008P580 | SCPTU 33 via Pacinotti | 6.084389 |
| 038008P581 | SCPTU 34 Scuola materna Satellite | 0.929744 |
| 038008P582 | SCPTU 35 Scuola materna Jovine | 1.113988 |
| 038008P583 | SCPTU 36 Fossanova San Marco | 0.576079 |
| 038008P584 | SCPTU 37 Scuola d'infanzia La Mongolfiera | 6.913599 |
| 038008P585 | SCPTU 38 Scuola elementare B. Rossetti | 6.453035 |
| 038008P586 | SCPTU 39 Gaibanella | 6.295684 |
| 038008P587 | SCPTU 40 Scuola elementare Guarini | 2.062587 |
| 038008P588 | SCPTU 41 Scuola elementare Leopardi | 2.278399 |
| 038008P589 | SCPTU 42 Scuola elementare Francolino | 0.751093 |
| 038008P59 | 18 ANS 01 SCPTU2 | 1.705057 |
| 038008P590 | SCPTU 43 Malborghrtto di Boara | 0.662682 |
| 038008P591 | SCPTU 44 Scuola elementare Bombonati | 6.345401 |
| 038008P592 | SCPTU 45 Villanova di Denore | 1.170718 |
| 038008P593 | SCPTU 46 Scuola elementare Tumiati | 1.109653 |
| 038008P594 | SCPTU 47 via Bologna | 5.051531 |
| 038008P595 | SCPTU 48 I Girasoli | 1.142396 |
| 038008P596 | SCPTU 49 Nido Cavallari | 2.423791 |
| 038008P597 | SCPTU 50 Scuola materna l'Aquilone | 3.275946 |
| 038008P598 | SCPTU 51 Scuola Ugo Costa | 0.523123 |
| 038008P599 | SCPTU 52 Nido Il Ciliegio | 1.570124 |
| 038008P6 | 9A CPT9 | 0 |
| 038008P60 | 18ANS 04 18ANS 05 SCPTU1 | 3.116621 |
| 038008P600 | SCPTU 53 Scuola materna Benzi | 3.655094 |
| 038008P601 | Cispadana96 CPTU5 | 0.282118 |
| 038008P603 | 186140 34CPT9 | 1.657407 |
| 038008P604 | 186140 35CPT1 | 0.167056 |
| 038008P605 | 186140 36CPT2 | 0.167056 |
| 038008P606 | 186140 37CPT3 | 0.167056 |
| 038008P607 | 186140 38CPT4 | 0.123793 |
| 038008P608 | 186140 39CPT5 | 0 |
| 038008P609 | 186140 41CPT7 | 0.501802 |
| 038008P61 | 18ANS 04 18ANS 05 SCPTU2 | 1.778003 |
| 038008P610 | 186140 33CPT8 | 1.967399 |
| 038008P612 | 25AVP 01 SCPTU1 | 2.62 |
| 038008P613 | 25AVP 01 SCPTU2 | 3.980903 |
| 038008P614 | 25AVP 01 SCPTU3 | 2.41319 |
| 038008P615 | 186050U511 CPTU28 | 3.606141 |
| 038008P616 | 4ASPCN01 SCPTU1 | 0.747604 |
| 038008P617 | 4ASPCN01 SCPTU2 | 1.347774 |
| 038008P619 | FS CPT 2 | 0 |
| 038008P62 | 19ANS 01 SCPTU1 | 5.686437 |
| 038008P620 | ADBPO CPTU20 | 0.602941 |
| 038008P621 | ADBPO CPTU21 | 0.955152 |
| 038008P622 | 203070U502 | 7.325914 |
| 038008P626 | ex caserma SCPTU1 | 1.099104 |
| 038008P627 | ex caserma SCPTU2 | 0.767801 |
| 038008P628 | 203030U504 | 1.952851 |
| 038008P629 | Uffici Comune settore LLPP | 5.400899 |
| 038008P63 | 19ANS 01 SCPTU2 | 1.296144 |
| 038008P630 | Impinati HERA | 5.782188 |
| 038008P631 | Ex Macello SCPTU3 | 0.033292 |
| 038008P632 | Via Arginone SCPTU4 | 0.918116 |
| 038008P633 | Uffici Comune SIT e Tributi | 6.168935 |
| 038008P634 | Uffici provincia | 4.742445 |
| 038008P635 | Uffici Questura e Prefettura | 4.3729 |
| 038008P636 | Uffici Guardia di finanza | 1.716387 |
| 038008P637 | Castello estense, uffici Provincia, Uffici Comune | 21.78882 |
| 038008P638 | Ospedale Cona | 1.532924 |
| 038008P639 | Caserma Carabinieri | 3.299332 |
| 038008P64 | 21ANS 01 SCPTU1 | 0.729748 |
| 038008P640 | Caserma VVF | 2.175497 |
| 038008P641 | Uffici Provincia - Casa del Pellegrino | 15.04429 |
| 038008P642 | Via Finati SCPTU14 | 13.14811 |
| 038008P643 | PG 76663/06 CPTE2 | 2.290081 |
| 038008P644 | PG 76663/06 CPTE3 | 2.772069 |
| 038008P645 | PG 76663/06 CPTE4 | 5.566384 |
| 038008P646 | PG 76663/06 CPTE5 | 8.049811 |
| 038008P647 | 17A CPT2 | 1.282634 |
| 038008P648 | Cispadana 2001 CPT2 | 0 |
| 038008P649 | Cispadana 2001 CPT1 | 0.121621 |
| 038008P65 | 21ANS 01 SCPTU2 | 6.377084 |
| 038008P650 | 203030 80 CPT4 | 0.261499 |
| 038008P651 | 203030 81 CPT3 | 7.852106 |
| 038008P652 | 203030 82 CPT2 | 0 |
| 038008P653 | 203030 83 CPT1 | 9.398201 |
| 038008P654 | 185160U508 Ex Riseria CPTU4 | 2.792159 |
| 038008P655 | 186090U503 U246FE | 8.409064 |
| 038008P656 | 186090U504 U247FE | 4.033713 |
| 038008P657 | 186050U512 U251FE | 0.682786 |
| 038008P66 | 6ANS 02 SCPTU1 | 1.063015 |
| 038008P67 | 6ANS 02 SCPTU2 | 1.263054 |
| 038008P68 | 21 ANS 04\_12 SCPTU1 | 6.019372 |
| 038008P69 | 21 ANS 04\_12 SCPTU2 | 7.413622 |
| 038008P7 | 9A CPT8 | 1.313203 |
| 038008P70 | 21 ANS 04\_13 SCPTU1 | 2.308479 |
| 038008P71 | 21 ANS 04\_13 SCPTU2 | 2.004031 |
| 038008P72 | 21ANS 03 SCPTU1 | 1.389648 |
| 038008P73 | 21ANS 03 SCPTU2 | 0.2678 |
| 038008P74 | 1ACS26 01 SCPTU1 | 2.487389 |
| 038008P75 | 1ACS26 01 SCPTU2 | 1.062349 |
| 038008P76 | 18ANS 06 SCPT1 | 14.44993 |
| 038008P77 | 18ANS 06 SCPT2 | 0.338408 |
| 038008P78 | 18ANS 06 SCPT3 | 4.412428 |
| 038008P79 | 18ANS 06 SCPT4 | 5.485058 |
| 038008P8 | 1ACS08 SCPTU1 | 1.953461 |
| 038008P80 | 203030U001 Cispadana CPTU472 | 13.02233 |
| 038008P81 | 203030U002 Cispadana CPTU471 | 8.026204 |
| 038008P82 | 203030U003 Cispadana CPTU470 | 6.250063 |
| 038008P83 | 203030U004 Cispadana CPTU468 | 1.718957 |
| 038008P84 | 203030U005 Cispadana CPTU469 | 6.250063 |
| 038008P85 | 203030U006 Cispadana CPTU466 | 4.74864 |
| 038008P86 | 203030U007 Cispadana CPTU465 | 6.821379 |
| 038008P87 | 203030U008 Cispadana CPTU467 | 5.553925 |
| 038008P88 | 203030U009 Cispadana CPTU464 | 0.049564 |
| 038008P89 | 203030U010 Cispadana CPTU463 | 1.14076 |
| 038008P9 | 1ACS08 SCPTU2 | 3.962902 |
| 038008P90 | 203030U011 Cispadana CPTU462 | 1.905859 |
| 038008P91 | 203030U012 Cispadana CPTU661 | 1.745997 |
| 038008P92 | 203030U013 Cispadana CPTU461 | 0.054916 |
| 038008P93 | 203030U014 Cispadana CPTU460 | 2.278983 |
| 038008P94 | 203030U015 Cispadana CPTU459 | 0.91533 |
| 038008P95 | 203030U016 Cispadana CPTU456 | 0.686874 |
| 038008P96 | 203030U017 Cispadana CPTU455 | 6.937883 |
| 038008P97 | 203030U018 Cispadana CPTU458 | 0.748565 |
| 038008P98 | 203030U019 Cispadana CPTU457 | 0.955852 |
| 038008P99 | 203030U020 Cispadana CPTU453 | 1.777848 |

Tabella 8.1 Stato di addensamenti/consistenza dei terreni di copertura.

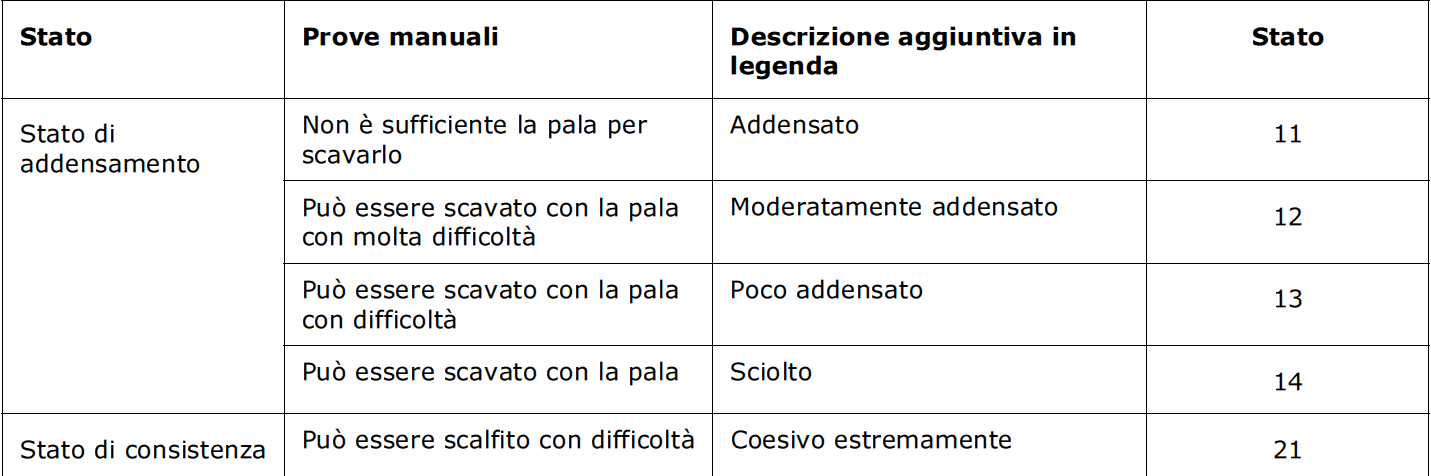
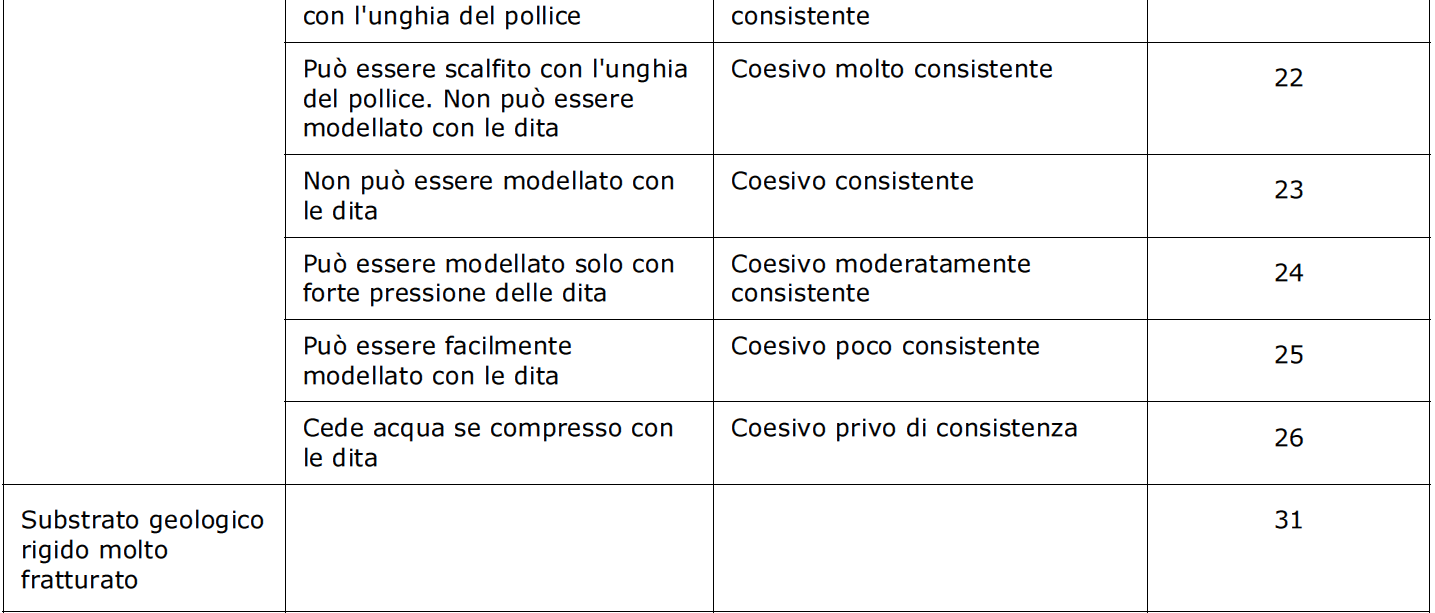
 

Tabella 8.2 Sondaggi a carotaggio continuo.

|  |  |  |  |
| --- | --- | --- | --- |
| **ID\_SPU** | **Codice** | **Massima profondità raggiunta [m]** | **Profondità substrato rigido [m]** |
| 038008P665 | 185160P4025 | 60 | - |
| 038008P666 | 185160P4026 | 60 | - |
| 038008P667 | 185160P4062 | 50 | - |
| 038008P668 | 185160P4063B | 60 | - |
| 038008P669 | 185160P4064A | 50 | - |
| 038008P670 | 185160P4064B | 60 | - |
| 038008P671 | 185160P4104 | 55 | - |
| 038008P672 | 185160P413 | 50 | - |
| 038008P673 | 185120P505 | 50 | - |
| 038008P674 | 204050P513X | 180 | - |
| 038008P675 | 185120P404 | 34.5 | - |
| 038008P676 | 185120P405 | 30.5 | - |
| 038008P677 | 185120P4401 | 35 | - |
| 038008P678 | 185120P4402 | 30.3 | - |
| 038008P679 | 185120P4403 | 30.2 | - |
| 038008P680 | 185160P4019 | 35.3 | - |
| 038008P681 | 185160P4020 | 35 | - |
| 038008P682 | 185160P4029 | 30 | - |
| 038008P683 | 185160P4030 | 30 | - |
| 038008P684 | 185160P4034 | 30 | - |
| 038008P685 | 185160P4061A | 37.8 | - |
| 038008P686 | 185160P4061B | 34.2 | - |
| 038008P687 | 185160P4084 | 35 | - |
| 038008P688 | 185160P4108 | 30 | - |
| 038008P689 | 185160P4109 | 40 | - |
| 038008P690 | 185160P414 | 32.1 | - |
| 038008P691 | 185160P424 | 35.5 | - |
| 038008P692 | 185160P425 | 35 | - |
| 038008P693 | 185160P426 | 35 | - |
| 038008P694 | 185160P427 | 35.5 | - |
| 038008P695 | 185160P435 | 35.2 | - |
| 038008P696 | 185160P407 | 37.6 | - |
| 038008P697 | 185160P4079 | 30 | - |
| 038008P698 | 185160P454 | 34 | - |
| 038008P699 | 185160P473 | 31 | - |
| 038008P700 | 185160P484 | 35.7 | - |
| 038008P701 | 185160P488 | 30 | - |
| 038008P702 | 185160P495 | 35 | - |
| 038008P703 | 185160P499 | 29.8 | - |
| 038008P704 | 186130P407 | 29.6 | - |
| 038008P707 | 185070P501 | 132.5 | 130 |

Tabella 8.3 Sondaggi perforazioni per ricerca idrocarburi.

|  |  |  |  |
| --- | --- | --- | --- |
| ID\_SPU | Codice | Massima profondità raggiunta [m] | Profondità substrato rigido [m] |
| 038008P658 | 204010G005 | 500 | - |
| 038008P659 | 204050G009 | 500 | - |
| 038008P660 | 186140G027 | 500 | - |
| 038008P661 | 186130G029 | 500 | - |
| 038008P662 | 186130G030 | 500 | - |
| 038008P663 | 186090G044 | 500 | - |
| 038008P664 | 185110G148 | 1960 | 500 |
| 038008P705 | 204050G006 | 500 | 280 |
| 038008P706 | 185110G149 | 500 | 200 |
| 038008P820 | BAURA001 | 1304 | 1030 |
| 038008P821 | CASCINA NUOVA001 | 3419 | 150 |
| 038008P822 | CONA001 | 1050 | 485 |
| 038008P823 | CONA002 | 1003 | 320 |
| 038008P824 | FERRARA001 | 4743 | 480 |
| 038008P825 | FRANCOLINO001 | 956 | 336 |
| 038008P826 | GAIBANA001 | 700 | - |
| 038008P827 | PAVONARA001 | 984 | 660 |
| 038008P828 | POROTTO001 | 1602 | 250 |