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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 1 di 15               | <b>Rev.</b><br><b>0</b> |

**STABILIMENTO POLIMERI EUROPA DI MANTOVA**  
**UBICAZIONE PIEZOMETRI E OPERE DI EMUNGIMENTO**



TABELLA COORDINATE

|  |                  |                        |                    |
|--|------------------|------------------------|--------------------|
|  POLIMERI EUROPA<br>Stabilimento di Mantova | <b>U.E.</b>      | <b>Numero progres.</b> | <b>N. Fgl</b>      |
|  | <b>M : N</b>     | <b>3 7 8 1 5</b>       | <b>0 0 2</b>       |
|  | <b>REV.</b>      | <b>REPARTO</b>         | <b>C.T.</b>        |
| <b>0 0</b>   | <b>S I A</b>     | <b>Z</b>               |                    |
| <b>SOSTITUISCE IL :</b>  | <b>DISEGNATO</b> | <b>U.D.</b>            | <b>DATA</b>        |
|  |                  | <b>M : N</b>           | <b>1 0 0 6 0 5</b> |



|             |                      |                  |                   |                  |             |
|-------------|----------------------|------------------|-------------------|------------------|-------------|
|             |                      |                  |                   |                  |             |
|             |                      |                  |                   |                  |             |
|             |                      |                  |                   |                  |             |
| 1           | Inseriti commenti PE | GEOPAVIA         | PELLEGRINI        | PUGI             | 10/06/05    |
| 0           | Emissione            | GEOPAVIA         | PELLEGRINI        | PUGI             | 10/06/05    |
| <b>Rev.</b> | <b>Descrizione</b>   | <b>Elaborato</b> | <b>Verificato</b> | <b>Approvato</b> | <b>Data</b> |

|  |   |                           |                         |
|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 2 di 15               | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 28                      | 1                                  | 1644186.5249        | 5000587.2163         | 22.0534 |      |
| 29                      | 2                                  | 1644212.8180        | 5000574.7361         | 22.0120 |      |
| 30                      | 3                                  | 1644368.8636        | 5000829.9448         | 23.3324 |      |
| 31                      | 4                                  | 1644349.3686        | 5000854.7431         | 23.5352 |      |
| 32                      | 6                                  | 1644285.5802        | 5000952.5505         | 23.5159 |      |
| 33                      | 7                                  | 1644241.6672        | 5001023.2317         | 23.4796 |      |
| 34                      | 8                                  | 1644706.7559        | 5000110.1658         | 19.7024 |      |
| 35                      | 9                                  | 1644826.1044        | 4999757.8317         | 17.9840 |      |
| 36                      | 10                                 | 1644018.5192        | 4999612.0202         | 17.5543 |      |
| 37                      | 11                                 | 1644367.7915        | 5000741.4955         | 23.2005 |      |
| 38                      | 12                                 | 1644429.9736        | 5000518.6597         | 22.2978 |      |
| 39                      | 13                                 | 1644274.7124        | 5000800.4195         | 23.0164 |      |
| 40                      | 16                                 | 1645015.6865        | 5000375.2587         | 22.4300 |      |
| 41                      | 18                                 | 1645127.9921        | 4999614.7133         | 22.8014 |      |
| 42                      | 19                                 | 1645044.7818        | 4999343.1751         | 19.7427 |      |
| 43                      | 20                                 | 1644905.4888        | 4999421.5513         | 19.5978 |      |
| 44                      | 21                                 | 1644923.2089        | 4999529.2044         | 19.7613 |      |
| 45                      | 22                                 | 1644932.2622        | 4999641.8974         | 20.0939 |      |
| 46                      | 23                                 | 1644821.1938        | 4999681.9297         | 17.4324 |      |
| 47                      | 24                                 | 1644840.9922        | 5000032.3354         | 20.7087 |      |
| 48                      | 25                                 | 1644276.4745        | 5000204.6712         | 19.5961 |      |
| 49                      | 27                                 | 1643713.9858        | 5001079.6525         | 23.5622 |      |
| 50                      | 28                                 | 1644477.3890        | 5001556.4732         | 23.5079 |      |

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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 3 di 15               | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 51                      | 29                                 | 1644918.3250        | 4999746.6473         | 18.0748 |      |
| 52                      | 30                                 | 1644389.8026        | 5000795.0710         | 23.4604 |      |
| 53                      | 31                                 | 1644410.2654        | 5000763.1017         | 23.5922 |      |
| 54                      | 32                                 | 1644605.5174        | 5001384.7625         | 23.1993 |      |
| 55                      | 33                                 | 1645005.0508        | 5000778.1888         | 22.7597 |      |
| 56                      | 34                                 | 1644004.2748        | 5000878.6101         | 23.2898 |      |
| 57                      | 35                                 | 1644373.5631        | 5000483.7954         | 22.8015 |      |
| 58                      | 36                                 | 1644118.5960        | 5000949.3757         | 23.3537 |      |
| 59                      | 37                                 | 1644246.5030        | 5000753.8800         | 23.2015 |      |
| 60                      | 38                                 | 1644274.8440        | 5000711.0905         | 23.2570 |      |
| 61                      | 39                                 | 1644315.3316        | 5000649.6478         | 23.1115 |      |
| 62                      | 40                                 | 1644435.0425        | 5001052.9736         | 22.9845 |      |
| 63                      | 42                                 | 1644311.1464        | 5000651.4870         | 23.3208 |      |
| 64                      | 43                                 | 1644277.5650        | 5000702.5188         | 23.2668 |      |
| 65                      | 44                                 | 1644208.2943        | 5000813.1451         | 23.3711 |      |
| 66                      | 45                                 | 1644506.4343        | 5000565.2626         | 22.9632 |      |
| 67                      | 46                                 | 1644593.5868        | 5000683.3107         | 23.0015 |      |
| 68                      | 100                                | 1644248.8303        | 5001228.9189         | 23.0648 |      |
| 69                      | 101                                | 1644783.0209        | 5000380.5174         | 22.5108 |      |
| 70                      | 102                                | 1645081.3169        | 4999863.4204         | 22.0958 |      |
| 71                      | 103                                | 1644781.1664        | 4999316.2076         | 19.9350 |      |
| 72                      | 104                                | 1644567.8611        | 4999322.9848         | 17.5595 |      |
| 73                      | 107                                | 1644806.9723        | 5000141.2899         | 22.3801 |      |
| 74                      | 19 TER                             | 1645038.5793        | 4999302.1204         | 21.6631 |      |

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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 4 di 15               | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 75                      | A                                  | 1644938.0648        | 4999681.5492         | 20.3122 |      |
| 76                      | AZ PORTI 12                        | 1644581.6452        | 4999123.7818         | 15.7045 |      |
| 77                      | B                                  | 1644925.8730        | 4999557.6405         | 19.5502 |      |
| 78                      | BP1                                | 1644353.6740        | 5000342.4282         | 19.7716 |      |
| 79                      | BP10                               | 1644476.4832        | 5000242.8506         | 19.1993 |      |
| 80                      | BP11                               | 1644511.4678        | 5000378.1059         | 21.8327 |      |
| 81                      | BP12                               | 1644559.8413        | 5000332.1545         | 20.4707 |      |
| 82                      | BP13                               | 1644502.8015        | 5000238.4445         | 18.9182 |      |
| 83                      | BP14                               | 1644501.6106        | 5000237.4336         | 18.9901 |      |
| 84                      | BP15                               | 1644473.8771        | 5000283.7728         | 19.1828 |      |
| 85                      | BP16                               | 1644473.0012        | 5000285.0012         | 18.9918 |      |
| 86                      | BP18                               | 1644384.4281        | 5000259.0211         | 18.9987 |      |
| 87                      | BP19                               | 1644413.1593        | 5000218.6941         | 19.7213 |      |
| 88                      | BP2                                | 1644354.3132        | 5000340.3908         | 19.6279 |      |
| 89                      | BP20                               | 1644413.7929        | 5000217.6693         | 19.6731 |      |
| 90                      | BP21                               | 1644412.2446        | 5000189.4980         | 19.6414 |      |
| 91                      | BP3                                | 1644342.9612        | 5000298.5883         | 19.3460 |      |
| 92                      | BP4                                | 1644344.6653        | 5000298.6524         | 19.2551 |      |
| 93                      | BP8                                | 1644407.3799        | 5000339.0338         | 18.8689 |      |
| 94                      | BP9                                | 1644452.9173        | 5000304.3576         | 19.0744 |      |
| 95                      | C                                  | 1644966.8067        | 4999397.4187         | 19.4899 |      |
| 96                      | CER1                               | 1644142.4463        | 5000636.7404         | 22.8361 |      |
| 97                      | CER2                               | 1644157.4737        | 5000613.9475         | 22.8679 |      |
| 98                      | CER3                               | 1644172.1640        | 5000591.4046         | 22.6995 |      |

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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 5 di 15               | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 99                      | COL1                               | 1644996.9070        | 4999539.6054         | 20.7344 |      |
| 100                     | COL1 BIS                           | 1645000.2664        | 4999529.8648         | 20.8673 |      |
| 101                     | COL1 TER                           | 1644997.5740        | 4999536.2995         | 20.7523 |      |
| 102                     | COL2                               | 1645049.6548        | 4999476.3787         | 19.9417 |      |
| 103                     | COL3                               | 1644946.7851        | 4999406.3175         | 19.6795 |      |
| 104                     | COL71                              | 1644946.7048        | 4999558.0833         | 19.7995 |      |
| 105                     | CR1                                | 1644726.7675        | 5000612.6617         | 22.7971 |      |
| 106                     | CR2                                | 1644731.1506        | 5000585.1981         | 22.7720 |      |
| 107                     | CR3                                | 1644707.6071        | 5000600.0861         | 22.7293 |      |
| 108                     | CR4                                | 1644857.6689        | 5000491.1894         | 22.7589 |      |
| 109                     | CR5                                | 1644834.3224        | 5000487.9531         | 22.8912 |      |
| 110                     | CR6                                | 1644846.5598        | 5000507.5336         | 22.7281 |      |
| 111                     | CS1                                | 1644640.6117        | 5001085.4887         | 23.1670 |      |
| 112                     | CS2                                | 1644672.8926        | 5001036.8328         | 23.1831 |      |
| 113                     | CS3                                | 1644628.4999        | 5000991.9764         | 23.2885 |      |
| 114                     | CS5                                | 1644558.3737        | 5001011.9953         | 23.0419 |      |
| 115                     | CS6                                | 1644577.1357        | 5000983.8370         | 23.1160 |      |
| 116                     | D                                  | 1645025.2399        | 4999707.0556         | 21.5188 |      |
| 117                     | D1                                 | 1645040.9861        | 4999685.2101         | 22.1221 |      |
| 118                     | D2                                 | 1645010.3985        | 4999691.4649         | 21.8324 |      |
| 119                     | DARSENA - PRI02                    | 1644700.2020        | 4999238.1493         | 15.0298 |      |
| 120                     | DIS1                               | 1644872.1544        | 5000007.0338         | 22.1230 |      |
| 121                     | DIS10                              | 1644812.0148        | 5000334.8014         | 22.7133 |      |
| 122                     | DIS100                             | 1645150.9849        | 5000029.7029         | 22.4925 |      |

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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 6 di 15               | <b>Rev.</b><br><b>0</b> |

| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 123                     | DIS11                              | 1644732.8487        | 5000273.3862         | 22.4960 |      |
| 124                     | DIS12                              | 1644741.7590        | 5000158.2940         | 22.7379 |      |
| 125                     | DIS13                              | 1644924.3346        | 5000080.9756         | 21.3828 |      |
| 126                     | DIS14                              | 1644918.1677        | 5000058.4487         | 21.3970 |      |
| 127                     | DIS15                              | 1644782.8349        | 5000138.5182         | 22.3953 |      |
| 128                     | DIS16                              | 1645057.6804        | 5000240.3874         | 22.1027 |      |
| 129                     | DIS2                               | 1644660.5528        | 5000269.9677         | 22.5991 |      |
| 130                     | DIS3                               | 1644682.9986        | 5000244.5023         | 22.6596 |      |
| 131                     | DIS4                               | 1644702.8027        | 5000215.4025         | 22.6084 |      |
| 132                     | DIS5                               | 1644722.2943        | 5000186.9261         | 22.5564 |      |
| 133                     | DIS6                               | 1644716.6108        | 5000298.4240         | 22.4949 |      |
| 134                     | DIS7                               | 1644705.6418        | 5000335.7218         | 22.6526 |      |
| 135                     | DIS8                               | 1644746.5109        | 5000342.5394         | 22.9228 |      |
| 136                     | DIS9                               | 1644723.4580        | 5000337.9723         | 23.1200 |      |
| 137                     | DIS-A                              | 1644794.5291        | 5000116.4339         | 22.3471 |      |
| 138                     | DIS-B                              | 1644814.1948        | 5000096.7132         | 22.2706 |      |
| 139                     | DIS-C                              | 1644829.1111        | 5000073.6879         | 22.1823 |      |
| 140                     | DIS-D                              | 1644843.8326        | 5000050.8464         | 22.1990 |      |
| 141                     | DIS-E                              | 1644858.7628        | 5000028.1749         | 21.9349 |      |
| 142                     | DIS-F                              | 1644887.2240        | 4999983.8005         | 22.2978 |      |
| 143                     | DIS-G                              | 1645057.2436        | 4999836.9569         | 19.5718 |      |
| 144                     | DIS-H                              | 1645022.6253        | 4999926.1653         | 22.7582 |      |
| 145                     | DIS-M                              | 1644916.0863        | 5000017.8624         | 21.4680 |      |
| 146                     | DIV1                               | 1644492.5117        | 5001565.1690         | 23.8399 |      |



|  |   |                           |                         |
|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 7 di 15               | <b>Rev.</b><br><b>0</b> |

| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note                     |
|-------------------------|------------------------------------|---------------------|----------------------|---------|--------------------------|
| 147                     | DIV10                              | 1645160.3104        | 5000190.3629         | 22.4169 |                          |
| 148                     | DIV11                              | 1645152.8915        | 5000046.2873         | 22.3744 |                          |
| 149                     | DIV12                              | 1645145.7860        | 4999921.8853         | 22.6802 |                          |
| 150                     | DIV13                              | 1645120.4073        | 4999787.9681         | 23.1718 |                          |
| 151                     | DIV2                               | 1644586.1646        | 5001413.4812         | 23.4728 |                          |
| 152                     | DIV3                               | 1644737.4054        | 5001177.2455         | 23.3787 |                          |
| 153                     | DIV4                               | 1644819.5603        | 5001057.7479         | 23.3289 |                          |
| 154                     | DIV5                               | 1644910.4481        | 5000916.7989         | 23.1414 |                          |
| 155                     | DIV6                               | 1644997.0327        | 5000789.0560         | 22.8950 |                          |
| 156                     | DIV7                               | 1645076.8990        | 5000665.7822         | 22.6700 |                          |
| 157                     | DIV8                               | 1645134.6139        | 5000524.8665         | 22.5519 |                          |
| 158                     | DIV9                               | 1645174.5415        | 5000366.9478         | 22.8564 |                          |
| 159                     | DIVERSIVO1 PRI09                   | 1645212.2903        | 5000345.6863         | 24.5653 | Quota fondo canale 12.41 |
| 160                     | DIVERSIVO PRI08                    | 1644466.0066        | 5001674.8076         | 25.3645 | Quota fondo canale 12.74 |
| 161                     | DP1                                | 1644509.4086        | 5000043.3279         | 19.3997 |                          |
| 162                     | DP10                               | 1644645.8116        | 5000153.6217         | 19.9881 |                          |
| 163                     | DP11                               | 1644602.9811        | 5000140.4747         | 19.6666 |                          |
| 164                     | DP12                               | 1644634.2075        | 5000061.4793         | 19.8829 |                          |
| 165                     | DP2                                | 1644558.4962        | 5000044.0980         | 19.8379 |                          |
| 166                     | DP4                                | 1644568.0003        | 4999970.1689         | 17.2596 |                          |
| 167                     | DP5                                | 1644779.7578        | 4999946.3537         | 16.8456 |                          |
| 168                     | DP6                                | 1644659.1869        | 4999871.5739         | 16.6905 |                          |
| 169                     | DP7                                | 1644814.9878        | 4999731.4242         | 16.5662 |                          |
| 170                     | DP8                                | 1644548.2211        | 4999990.1004         | 19.7758 |                          |



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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 8 di 15               | <b>Rev.</b><br><b>0</b> |

| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 171                     | DP9                                | 1644737.6042        | 4999781.8232         | 16.8776 |      |
| 172                     | E                                  | 1645043.5345        | 4999347.8617         | 19.4173 |      |
| 173                     | EA101                              | 1644435.4508        | 5000208.1099         | 19.7899 |      |
| 174                     | EA103                              | 1644432.4420        | 5000217.2136         | 19.5846 |      |
| 175                     | EB101                              | 1644447.2674        | 5000237.1430         | 19.4672 |      |
| 176                     | EB102                              | 1644448.4854        | 5000242.8079         | 19.4044 |      |
| 177                     | EC1                                | 1644278.9813        | 5000205.9421         | 19.9080 |      |
| 178                     | EC2                                | 1644280.3158        | 5000206.2657         | 20.1685 |      |
| 179                     | EC3                                | 1644277.4453        | 5000205.3550         | 20.1442 |      |
| 180                     | EM1                                | 1644355.0054        | 5000131.4115         | 20.3511 |      |
| 181                     | EM2                                | 1644341.6374        | 5000149.7890         | 20.2568 |      |
| 182                     | EM3                                | 1644328.1456        | 5000168.0049         | 20.0175 |      |
| 183                     | EM4                                | 1644314.1717        | 5000186.3400         | 20.3532 |      |
| 184                     | EM5                                | 1644299.7565        | 5000206.5520         | 20.6308 |      |
| 185                     | EM6                                | 1644283.3904        | 5000218.4502         | 21.0030 |      |
| 186                     | EM7                                | 1644260.2592        | 5000224.5221         | 20.9211 |      |
| 187                     | EM8                                | 1644236.0604        | 5000230.8870         | 20.4541 |      |
| 188                     | EP01                               | 1644219.1646        | 5001084.1276         | 23.0291 |      |
| 189                     | EP02                               | 1644598.3450        | 5000914.3736         | 23.0667 |      |
| 190                     | EP03                               | 1644591.5068        | 5000807.0090         | 22.8143 |      |
| 191                     | EP04                               | 1644699.5805        | 5001211.2580         | 22.9560 |      |
| 192                     | EP05                               | 1644089.7621        | 5001255.6037         | 23.1344 |      |
| 193                     | EP06                               | 1644308.9407        | 5001184.5666         | 22.8879 |      |
| 194                     | EP07                               | 1644260.4103        | 5001378.7507         | 22.8671 |      |





|  |   |                           |                         |
|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 9 di 15               | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 195                     | EP09                               | 1644643.9127        | 5001326.7485         | 23.0118 |      |
| 196                     | EP10                               | 1644720.9114        | 5001042.8673         | 22.8915 |      |
| 197                     | EP11                               | 1644644.7599        | 5001166.2977         | 22.9970 |      |
| 198                     | EP12                               | 1644657.1990        | 5000824.5975         | 22.8549 |      |
| 199                     | EP13                               | 1644557.1721        | 5000879.8450         | 23.2219 |      |
| 200                     | ER100                              | 1644386.8060        | 5000228.8109         | 19.7205 |      |
| 201                     | ER102                              | 1644444.4901        | 5000262.7571         | 19.0709 |      |
| 202                     | F                                  | 1644624.7129        | 4999283.4209         | 16.0561 |      |
| 203                     | FC1                                | 1644373.0662        | 5000193.2310         | 20.4260 |      |
| 204                     | FC2                                | 1644371.5768        | 5000189.1570         | 20.6898 |      |
| 205                     | FC3                                | 1644374.3229        | 5000192.6445         | 20.6525 |      |
| 206                     | FC4                                | 1644373.4741        | 5000194.4312         | 20.5244 |      |
| 207                     | G                                  | 1644928.8636        | 4999598.9776         | 20.0475 |      |
| 208                     | H BIS                              | 1644925.9123        | 4999334.4475         | 19.2343 |      |
| 209                     | H TER                              | 1644995.9902        | 4999309.8488         | 20.0628 |      |
| 210                     | I                                  | 1644901.7704        | 4999689.1522         | 17.2305 |      |
| 211                     | IN                                 | 1644267.9249        | 5000287.2634         | 20.9941 |      |
| 212                     | IP10                               | 1644331.9307        | 5000158.8024         | 19.3656 |      |
| 213                     | IP11                               | 1644258.3552        | 5000214.9261         | 19.5405 |      |
| 214                     | IP2                                | 1644333.3357        | 5000213.1250         | 19.7124 |      |
| 215                     | IP6                                | 1644315.1150        | 5000216.2303         | 19.8643 |      |
| 216                     | IP8                                | 1644355.8552        | 5000153.1253         | 20.0080 |      |
| 217                     | IUT                                | 1644477.3489        | 5000274.1844         | 19.2906 |      |
| 218                     | K                                  | 1644359.9289        | 5000218.1100         | 20.3307 |      |

|  |   |                           |                         |
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| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 10 di 15              | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 219                     | L                                  | 1644325.8502        | 5000269.8131         | 20.5089 |      |
| 220                     | M                                  | 1644311.4043        | 5000190.4308         | 19.2838 |      |
| 221                     | MINCIO                             | 1644449.6405        | 4999087.6038         | 16.3860 |      |
| 222                     | N                                  | 1644353.4665        | 5000130.8902         | 19.2120 |      |
| 223                     | P                                  | 1644425.5420        | 5000116.2220         | 19.9944 |      |
| 224                     | P 21                               | 1643967.9437        | 5000805.1162         | 23.3244 |      |
| 225                     | P 22                               | 1643991.9543        | 5000787.5117         | 23.4235 |      |
| 226                     | P 23                               | 1644014.8640        | 5000770.6397         | 23.2435 |      |
| 227                     | P PIPE2                            | 1645099.7213        | 5000543.1997         | 22.6498 |      |
| 228                     | P14                                | 1644237.8969        | 5000338.5581         | 15.4420 |      |
| 229                     | P1-418                             | 1645024.0685        | 5000119.8099         | 21.8023 |      |
| 230                     | P17                                | 1645161.1108        | 5000234.4579         | 22.6837 |      |
| 231                     | P2-418                             | 1644967.5263        | 5000069.9412         | 21.6372 |      |
| 232                     | P26                                | 1644860.7504        | 5000993.0713         | 23.6008 |      |
| 233                     | P3-418                             | 1644968.9826        | 5000096.5738         | 21.4452 |      |
| 234                     | P4-418                             | 1644993.9660        | 5000067.6351         | 21.5164 |      |
| 235                     | PABS1                              | 1644461.4857        | 5000298.5204         | 19.2476 |      |
| 236                     | PCER                               | 1644202.9098        | 5000581.6218         | 22.1072 |      |
| 237                     | PDEP1                              | 1644473.5097        | 5000255.4874         | 19.1512 |      |
| 238                     | PDES1                              | 1644457.9831        | 5000274.1617         | 19.1101 |      |
| 239                     | PDES2                              | 1644473.5575        | 5000257.0374         | 19.1309 |      |
| 240                     | PILP1                              | 1644424.1089        | 5000269.6324         | 19.2393 |      |
| 241                     | PILP2                              | 1644441.9506        | 5000239.7400         | 19.4083 |      |
| 242                     | PILS1                              | 1644422.3361        | 5000269.5898         | 19.3087 |      |

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| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 11 di 15              | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 243                     | PIPE1                              | 1645063.2607        | 5000532.8030         | 22.7854 |      |
| 244                     | PIPE2                              | 1645102.6167        | 5000545.7188         | 22.0868 |      |
| 245                     | PMAT                               | 1644335.1615        | 5000823.5712         | 23.1918 |      |
| 246                     | PNOS1                              | 1644420.6680        | 5000234.9252         | 19.3083 |      |
| 247                     | PP1                                | 1644346.8194        | 5000236.8622         | 20.2942 |      |
| 248                     | PR100                              | 1644943.1274        | 5000843.7230         | 23.3587 |      |
| 249                     | PR2                                | 1644741.0848        | 5000869.8321         | 22.8398 |      |
| 250                     | PR3                                | 1644761.5778        | 5000835.5308         | 22.7901 |      |
| 251                     | PR5                                | 1644744.3850        | 5000694.3236         | 22.8631 |      |
| 252                     | PR6                                | 1644744.0671        | 5000695.2615         | 22.9263 |      |
| 253                     | PRP1                               | 1644801.9968        | 5000775.4567         | 23.4013 |      |
| 254                     | PRP2                               | 1644716.5514        | 5000720.9896         | 23.0619 |      |
| 255                     | PRSP1                              | 1644385.2856        | 5000249.6259         | 19.5191 |      |
| 256                     | PS1                                | 1644967.7430        | 5000080.1079         | 21.7877 |      |
| 257                     | PSG10                              | 1644299.3595        | 5000519.2320         | 22.1911 |      |
| 258                     | PSG11                              | 1644328.4947        | 5000500.4080         | 22.2351 |      |
| 259                     | PSG12                              | 1644358.8744        | 5000480.3257         | 22.5802 |      |
| 260                     | PSG2                               | 1644017.7629        | 5000662.0876         | 22.5385 |      |
| 261                     | PSG3                               | 1644013.1538        | 5000630.3209         | 22.0500 |      |
| 262                     | PSG4                               | 1644050.1330        | 5000614.0813         | 22.0353 |      |
| 263                     | PSG5                               | 1644084.7894        | 5000595.5527         | 21.7410 |      |
| 264                     | PSG6                               | 1644122.6509        | 5000583.3213         | 21.9555 |      |
| 265                     | PSG7                               | 1644161.1963        | 5000572.8921         | 21.4177 |      |
| 266                     | PSG8                               | 1644233.5616        | 5000545.5504         | 21.2908 |      |

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| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 12 di 15              | <b>Rev.</b><br><b>0</b> |



| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 267                     | PSG9                               | 1644266.2561        | 5000529.7335         | 21.4532 |      |
| 268                     | PSTS1                              | 1644411.3556        | 5000191.5971         | 19.6256 |      |
| 269                     | PUVS1                              | 1644367.7503        | 5000238.2716         | 19.6327 |      |
| 270                     | PUVS2                              | 1644389.5217        | 5000203.7085         | 19.6714 |      |
| 271                     | PZ1                                | 1645066.2010        | 4999324.8545         | 22.7481 |      |
| 272                     | PZ12                               | 1645004.9504        | 4999623.1837         | 21.1817 |      |
| 273                     | PZ13                               | 1645132.3038        | 4999676.3168         | 22.3787 |      |
| 274                     | PZ15                               | 1644977.5170        | 4999673.0124         | 21.5866 |      |
| 275                     | PZ16                               | 1645006.5908        | 4999729.9077         | 21.5257 |      |
| 276                     | PZ17                               | 1644922.8591        | 4999408.0561         | 18.1354 |      |
| 277                     | PZ2                                | 1645048.5440        | 4999363.9443         | 20.2651 |      |
| 278                     | PZ3                                | 1644998.6339        | 4999386.7206         | 19.9330 |      |
| 279                     | PZ6                                | 1645108.5073        | 4999434.9155         | 20.6156 |      |
| 280                     | PZ9                                | 1645120.6020        | 4999535.1043         | 21.4343 |      |
| 281                     | PZFW1                              | 1645102.5298        | 5000256.8110         | 22.8383 |      |
| 282                     | PZFW2A                             | 1644402.6715        | 4999395.3453         | 16.4769 |      |
| 283                     | PZFW2C                             | 1644405.1545        | 4999394.8757         | 16.6047 |      |
| 284                     | PZN1                               | 1644444.5813        | 5000093.2011         | 19.8028 |      |
| 285                     | PZP1                               | 1644948.7920        | 4999877.8731         | 21.6879 |      |
| 286                     | PZP2                               | 1644952.5005        | 4999845.2851         | 21.1007 |      |
| 287                     | PZSD223A                           | 1644662.7286        | 4999346.7516         | 17.2618 |      |
| 288                     | PZSD223C                           | 1644664.5930        | 4999348.0473         | 17.2010 |      |
| 289                     | Q                                  | 1644450.6086        | 5000085.3932         | 19.8402 |      |
| 290                     | R                                  | 1644156.2184        | 4999205.7020         | 17.4310 |      |

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| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 13 di 15              | <b>Rev.</b><br><b>0</b> |

| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 291                     | S                                  | 1644462.0897        | 5000327.5460         | 19.2588 |      |
| 292                     | SD149 A                            | 1643976.5383        | 5000835.2221         | 23.4901 |      |
| 293                     | SD149 C                            | 1643977.6511        | 5000833.6123         | 23.4941 |      |
| 294                     | SD072                              | 1644731.0416        | 5000504.8353         | 22.8112 |      |
| 295                     | SD099                              | 1645135.8132        | 4999740.3278         | 23.1191 |      |
| 296                     | SD112                              | 1644590.5958        | 5000309.1822         | 20.1282 |      |
| 297                     | SD213A                             | 1645064.4115        | 4999403.6676         | 19.9493 |      |
| 298                     | SD213BIS                           | 1645081.5995        | 4999393.9900         | 20.7002 |      |
| 299                     | SD213C                             | 1645061.0424        | 4999403.9812         | 19.8529 |      |
| 300                     | SD246                              | 1644425.9638        | 5001463.2326         | 23.3918 |      |
| 301                     | SEA1                               | 1644462.2177        | 5000074.3840         | 19.9752 |      |
| 302                     | SEA2                               | 1644447.3768        | 5000091.3801         | 19.9231 |      |
| 303                     | SEA3                               | 1644433.0379        | 5000108.9009         | 20.1264 |      |
| 304                     | SEA4                               | 1644419.7414        | 5000126.7559         | 19.9393 |      |
| 305                     | SEA5                               | 1644407.1187        | 5000145.1900         | 19.9761 |      |
| 306                     | SEA6                               | 1644480.5422        | 5000054.1635         | 19.7445 |      |
| 307                     | SEA7                               | 1644499.7349        | 5000034.1071         | 19.8237 |      |
| 308                     | SEA8                               | 1644518.3946        | 5000014.3030         | 19.9049 |      |
| 309                     | SEA9                               | 1644537.1998        | 4999994.0293         | 19.7465 |      |
| 310                     | SG 1                               | 1644046.5776        | 5000725.2544         | 22.9977 |      |
| 311                     | SG 6                               | 1644054.8339        | 5000678.2520         | 22.8521 |      |
| 312                     | SG 8                               | 1643977.1825        | 5000797.2045         | 23.1757 |      |
| 313                     | SG 9                               | 1644012.0256        | 5000771.4815         | 23.2787 |      |
| 314                     | SG2                                | 1644024.4236        | 5000702.2474         | 22.8431 |      |

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| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 14 di 15              | <b>Rev.</b><br><b>0</b> |

| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 315                     | SG4                                | 1644006.4896        | 5000663.7929         | 22.0843 |      |
| 316                     | SG5                                | 1643996.8047        | 5000629.5393         | 21.1589 |      |
| 317                     | SG7                                | 1644027.0767        | 5000594.2837         | 21.0899 |      |
| 318                     | SISMA1 - PRI04                     | 1644652.9714        | 5000225.8438         | 16.2755 |      |
| 319                     | SISMA2 - PRI03                     | 1644904.5333        | 4999834.7981         | 16.6140 |      |
| 320                     | SISMA3 - PRI01                     | 1644656.1186        | 4999306.6375         | 15.3732 |      |
| 321                     | SOLLEVAMENTO                       | 1644402.5641        | 5000437.0626         | 19.3793 |      |
| 322                     | SOLLEVAMENTO BIS-PRI05             | 1644403.0550        | 5000416.3726         | 15.1610 |      |
| 323                     | SOLLEVAMENTO1 - PRI06              | 1643977.8549        | 4999724.5521         | 16.5896 |      |
| 324                     | SOLLEVAMENTO2 - PRI07              | 1643648.4370        | 4999387.2056         | 15.8504 |      |
| 325                     | ST20-1                             | 1644265.1001        | 5000763.9833         | 23.2545 |      |
| 326                     | ST20-2                             | 1644343.6293        | 5000758.6911         | 23.3070 |      |
| 327                     | ST20-3                             | 1644367.4981        | 5000827.3131         | 23.4644 |      |
| 328                     | ST20-4                             | 1644347.4783        | 5000857.5241         | 23.334  |      |
| 329                     | ST20-5                             | 1644294.5924        | 5001018.8780         | 23.4271 |      |
| 330                     | ST20-6                             | 1644244.8683        | 5000999.9083         | 23.3949 |      |
| 331                     | T                                  | 1644213.5998        | 5000205.5388         | 17.7517 |      |
| 332                     | TR1                                | 1644905.9988        | 4999883.8821         | 18.2744 |      |
| 333                     | TR11                               | 1644902.5257        | 4999960.3099         | 22.1096 |      |
| 334                     | TR12                               | 1644917.5149        | 4999936.6958         | 21.8651 |      |
| 335                     | TR13                               | 1644931.8759        | 4999912.8380         | 22.0502 |      |
| 336                     | TR14                               | 1644944.0606        | 4999888.1108         | 21.7810 |      |
| 337                     | TR15                               | 1644953.1671        | 4999862.4685         | 21.5606 |      |
| 338                     | TR16                               | 1644959.8206        | 4999828.5076         | 21.2299 |      |

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|--|---|---------------------------|-------------------------|
| <br><b>Snamprogetti</b> | <b>CLIENTE</b><br> POLIMERI EUROPA | <b>COMMESSA</b><br>1608QO | <b>UNITÀ</b>            |
|  | <b>LOCALITÀ</b><br>Mantova  | <b>SPC. 00-BH-E-94005</b> |                         |
|  | <b>PROGETTO</b><br>Progettazione e realizzazione barriera idraulica   | Fg. 15 di 15              | <b>Rev.</b><br><b>0</b> |

| Numerazione Progressiva | Caposaldo / Piezometro Emungimento | GAUSS BOAGA EST (x) | GAUSS BOAGA NORD (y) | Quota   | Note |
|-------------------------|------------------------------------|---------------------|----------------------|---------|------|
| 339                     | TR17                               | 1644957.8478        | 4999789.6603         | 21.1666 |      |
| 340                     | TR2                                | 1644701.6048        | 5000177.1613         | 18.0306 |      |
| 341                     | TR3A                               | 1644193.4158        | 5000536.4016         | 15.8474 |      |
| 342                     | TR3B                               | 1644278.7583        | 5000488.6968         | 16.4045 |      |
| 343                     | U                                  | 1644165.0748        | 5000103.9244         | 17.4731 |      |
| 344                     | V                                  | 1644157.2380        | 4999394.0238         | 15.5459 |      |
| 345                     | VAL                                | 1644288.5311        | 5000133.6545         | 17.5328 |      |
| 346                     | VAL71                              | 1644163.9006        | 5000101.6180         | 17.5871 |      |
| 347                     | VAL72                              | 1644088.4573        | 4999497.4906         | 16.7909 |      |
| 348                     | VP2                                | 1644194.3908        | 5000521.0436         | 15.4401 |      |
| 349                     | VP5                                | 1644247.9537        | 5000491.9502         | 15.2726 |      |
| 350                     | VP6                                | 1644165.2877        | 5000381.0072         | 15.7708 |      |
| 351                     | VP7                                | 1644294.6100        | 5000449.4084         | 15.8618 |      |
| 352                     | W                                  | 1644338.6581        | 5000249.8554         | 19.9319 |      |
| 353                     | Y                                  | 1644306.1561        | 5000327.3555         | 19.9034 |      |
| 354                     | Z                                  | 1643996.3429        | 5001179.5993         | 23.2654 |      |