

BAB 7, Rader Hochbrücke**Baugrunderkundung**

Lage-System: ETRS89/UTM32

Höhen-System: Normalhöhe im System DHHN92, "m ü.NHN"

Geo Ingenieurservice

Nord GmbH & Co. KG

hamburg@geogroup.de

gemessen am: 22.11.2018

| Lfd Nr | Punktname | Absteckung | | | Bemerkungen |
|-----------|-----------|-------------|------------|-------|-------------|
| | | Rechts | Hoch | Höhe | |
| 1 | B59 | 32545701,02 | 6022234,49 | 11,40 | |
| 2 | B60 | 32545662,89 | 6022192,37 | 12,78 | |
| 3 | B61 | 32545773,26 | 6022167,17 | 12,45 | |
| 4 | B62 | 32545737,82 | 6022124,52 | 12,72 | |
| 5 | B63 | 32545846,62 | 6022099,35 | 12,92 | |
| 6 | B64 | 32545812,78 | 6022058,13 | 11,50 | |
| 7 | B65 | 32545925,30 | 6022046,85 | 10,63 | |
| 8 | B66 | 32545971,04 | 6021901,82 | 9,99 | |
| 9 | B67 | 32546057,08 | 6021819,25 | 10,50 | |
| 10 | B68 | 32546145,87 | 6021738,23 | 10,74 | |
| 11 | B69 | 32548045,21 | 6019681,18 | 14,14 | |
| 12 | B70 | 32548114,25 | 6019601,91 | 14,42 | |
| 13 | B71 | 32548217,14 | 6019425,66 | 13,53 | |
| 14 | B72 | 32548322,85 | 6019254,74 | 14,12 | |
| 15 | B73 | 32548425,99 | 6019083,35 | 14,01 | |
| 16 | B74 | 32548524,98 | 6018910,23 | 14,12 | |
| 17 | B75 | 32548496,78 | 6018851,22 | 13,84 | |
| 18 | B76 | 32548630,62 | 6018722,68 | 14,63 | |
| 19 | B77 | 32548595,77 | 6018682,06 | 14,37 | |
| 20 | B78 | 32548676,60 | 6018646,25 | 14,97 | 1) |
| 21 | B79 | 32548772,95 | 6018467,83 | 16,05 | |
| 22 | B80 | 32548738,24 | 6018422,40 | 16,13 | |
| 23 | B81 | 32548883,29 | 6018283,44 | 16,29 | 1) |
| 24 | B82 | 32548818,45 | 6018247,66 | 12,09 | |
| 25 | B83 | 32549020,90 | 6018021,31 | 17,33 | |
| 26 | B84 | 32548654,69 | 6018629,19 | 15,75 | |
| 27 | BS100 | 32548894,65 | 6018117,75 | 15,29 | |
| 28 | BS101 | 32548910,15 | 6018065,38 | 15,64 | |
| 29 | BS102 | 32548963,25 | 6018094,89 | 17,04 | |
| 30 | BS103 | 32548959,95 | 6018074,40 | 17,42 | |
| 31 | BS104 | 32548946,42 | 6017975,88 | 17,39 | |
| 32 | BS105 | 32548987,99 | 6017916,51 | 18,10 | |
| 33 | BS106 | 32549041,49 | 6017942,36 | 18,23 | |
| 34 | BS43 | 32545692,61 | 6022224,77 | 13,81 | |
| 35 | BS44 | 32545669,05 | 6022198,13 | 13,85 | |
| 36 | BS45 | 32545766,92 | 6022157,88 | 13,97 | |
| 37 | BS46a | 32545746,83 | 6022133,69 | 14,08 | 2) |
| 38 | BS47 | 32545842,31 | 6022090,09 | 14,19 | |
| 39 | BS48a | 32545821,31 | 6022066,87 | 14,26 | 2) |
| 40 | BS49 | 32545890,52 | 6022005,35 | 14,49 | |
| 41 | BS50 | 32545890,40 | 6021992,96 | 9,46 | |
| 42 | BS51 | 32545924,53 | 6022009,93 | 14,55 | |
| 43 | BS52 | 32545936,36 | 6022021,95 | 11,23 | |
| 44 | BS53a | 32545983,53 | 6021920,26 | 14,99 | 2) |
| 45 | BS54 | 32546072,81 | 6021838,51 | 15,81 | |
| 46 | BS55 | 32546161,08 | 6021756,96 | 16,85 | |
| 47 | BS56 | 32548017,19 | 6019675,27 | 26,21 | |
| 48 | BS57 | 32547992,50 | 6019649,13 | 14,68 | |
| 49 | BS58 | 32548005,24 | 6019645,50 | 25,82 | |
| 50 | BS59 | 32548061,87 | 6019563,01 | 23,87 | |
| 51 | BS60 | 32548103,60 | 6019549,33 | 23,30 | |
| 52 | BS61 | 32548117,83 | 6019480,21 | 22,13 | |

1) erneute Einmessung der Höhe aufgrund geringer Lageveränderung

2) sehr geringe Verschiebung des Ansatzpunktes, keine Höhendifferenz

BAB 7, Rader Hochbrücke**Baugrunderkundung**

Lage-System: ETRS89/UTM32

Höhen-System: Normalhöhe im System DHHN92, "m ü.NHN"

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gemessen am: 22.11.2018

| Lfd Nr | Punktname | Absteckung | | | Bemerkungen |
|-----------|-----------|-------------|------------|-------|-------------|
| | | Rechts | Hoch | Höhe | |
| 53 | BS62 | 32548162,30 | 6019509,12 | 14,80 | |
| 54 | BS63 | 32548186,11 | 6019425,96 | 20,89 | |
| 55 | BS64 | 32548173,35 | 6019396,66 | 20,61 | |
| 56 | BS65 | 32548270,99 | 6019341,32 | 13,38 | |
| 57 | BS66 | 32548227,62 | 6019313,37 | 19,27 | |
| 58 | BS67 | 32548269,48 | 6019297,89 | 18,88 | |
| 59 | BS68a | 32548283,17 | 6019230,12 | 18,16 | 2) |
| 60 | BS69 | 32548352,94 | 6019166,37 | 17,30 | |
| 61 | BS70 | 32548371,43 | 6019175,06 | 14,03 | |
| 62 | BS71 | 32548334,89 | 6019144,53 | 17,21 | |
| 63 | BS72a | 32548387,94 | 6019058,83 | 16,46 | 2) |
| 64 | BS73 | 32548434,07 | 6019034,69 | 16,22 | |
| 65 | BS74 | 32548438,97 | 6018974,77 | 15,92 | |
| 66 | BS75 | 32548476,16 | 6018996,87 | 13,76 | |
| 67 | BS76 | 32548512,95 | 6018903,08 | 15,61 | |
| 68 | BS77 | 32548490,69 | 6018888,15 | 15,58 | |
| 69 | BS78 | 32548541,57 | 6018801,23 | 15,44 | |
| 70 | BS79 | 32548587,53 | 6018812,45 | 14,30 | |
| 71 | BS80 | 32548547,52 | 6018768,05 | 14,11 | |
| 72 | BS81 | 32548589,62 | 6018771,71 | 15,46 | |
| 73 | BS82 | 32548581,29 | 6018712,20 | 14,40 | |
| 74 | BS83 | 32548622,68 | 6018647,86 | 14,95 | |
| 75 | BS84 | 32548619,64 | 6018629,77 | 21,64 | |
| 76 | BS85 | 32548670,65 | 6018628,80 | 15,73 | |
| 77 | BS86 | 32548695,46 | 6018624,03 | 21,63 | |
| 78 | BS87 | 32548644,58 | 6018615,24 | 15,35 | |
| 79 | BS88 | 32548722,48 | 6018556,41 | 15,13 | |
| 80 | BS89 | 32548698,85 | 6018516,45 | 15,53 | |
| 81 | BS90 | 32548691,89 | 6018512,90 | 14,30 | |
| 82 | BS91 | 32548742,38 | 6018497,55 | 15,90 | |
| 83 | BS92 | 32548770,29 | 6018389,65 | 16,05 | |
| 84 | BS93 | 32548819,81 | 6018379,65 | 16,42 | |
| 85 | BS94 | 32548814,90 | 6018362,89 | 16,11 | |
| 86 | BS95 | 32548781,75 | 6018340,77 | 16,21 | |
| 87 | BS96 | 32548830,84 | 6018249,83 | 14,24 | |
| 88 | BS97 | 32548884,27 | 6018232,30 | 16,39 | |
| 89 | BS98 | 32548862,70 | 6018158,38 | 12,07 | |
| 90 | BS99 | 32548935,64 | 6018195,29 | 14,34 | |
| 91 | DPH31 | 32545694,22 | 6022223,17 | 13,81 | |
| 92 | DPH32 | 32545671,62 | 6022196,11 | 13,85 | |
| 93 | DPH33 | 32545769,20 | 6022155,69 | 13,98 | |
| 94 | DPH34 | 32545750,18 | 6022130,79 | 14,09 | |
| 95 | DPH35 | 32545844,92 | 6022087,66 | 14,20 | |
| 96 | DPH36 | 32545823,93 | 6022064,40 | 14,28 | |
| 97 | DPH37 | 32545892,01 | 6022004,13 | 14,50 | |
| 98 | DPH38 | 32545888,50 | 6021990,79 | 9,56 | |
| 99 | DPH39 | 32545936,27 | 6022024,48 | 11,16 | |
| 100 | DPH40 | 32545927,07 | 6022007,83 | 14,57 | |
| 101 | DPH41 | 32545985,56 | 6021918,43 | 15,00 | |
| 102 | DPH42 | 32546075,96 | 6021835,64 | 15,81 | |
| 103 | DPH43 | 32546163,35 | 6021754,79 | 16,88 | |
| 104 | DPH44 | 32548016,31 | 6019676,32 | 26,24 | |
| 105 | DPH45 | 32547991,12 | 6019647,99 | 14,73 | |
| 106 | DPH46 | 32548112,49 | 6019601,87 | 14,39 | |
| 107 | DPH47a | 32548059,96 | 6019566,05 | 23,92 | 2) |

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Höhen-System: Normalhöhe im System DHHN92, "m ü.NHN"

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| Lfd Nr | Punktname | Absteckung | | | Bemerkungen |
|-----------|------------|-------------|------------|-------|-------------|
| | | Rechts | Hoch | Höhe | |
| 108 | DPH48 | 32548102,65 | 6019550,60 | 23,32 | |
| 109 | DPH49 | 32548171,73 | 6019399,26 | 20,65 | |
| 110 | DPH50 | 32548268,37 | 6019299,63 | 18,91 | |
| 111 | DPH51 | 32548279,58 | 6019232,33 | 18,19 | |
| 112 | DPH52 (DS) | 32548325,16 | 6019251,74 | 14,14 | 3) |
| 113 | DPH53 | 32548386,04 | 6019061,93 | 16,47 | |
| 114 | DPH54 | 32548433,40 | 6019035,96 | 16,23 | |
| 115 | DPH55 | 32548489,13 | 6018890,75 | 15,58 | |
| 116 | DPH56 (DS) | 32548527,14 | 6018907,09 | 14,21 | 3) |
| 117 | DPH57 | 32548588,81 | 6018773,01 | 15,46 | |
| 118 | DPH58 | 32548579,76 | 6018715,10 | 14,33 | |
| 119 | DPH59 | 32548594,14 | 6018685,13 | 14,40 | |
| 120 | DPH60 | 32548616,93 | 6018629,94 | 21,60 | |
| 121 | DPH61 | 32548670,16 | 6018629,43 | 15,67 | |
| 122 | DPH62 | 32548697,99 | 6018623,87 | 21,62 | |
| 123 | DPH63 | 32548646,74 | 6018612,27 | 15,46 | |
| 124 | DPH64 | 32548697,23 | 6018519,52 | 15,58 | |
| 125 | DPH65 (DS) | 32548737,76 | 6018424,81 | 16,15 | 3) |
| 126 | DPH66 | 32548813,69 | 6018365,18 | 16,11 | |
| 127 | DPH67 | 32548830,03 | 6018252,90 | 14,39 | |
| 128 | DPH68 (DS) | 32548879,69 | 6018280,97 | 16,26 | 1+3) |
| 129 | DPH69 | 32548962,43 | 6018096,81 | 16,98 | |
| 130 | DPH70 | 32548909,47 | 6018069,69 | 15,62 | |
| 131 | DPH71 | 32548958,72 | 6018076,52 | 17,41 | |
| 132 | DPH72 | 32548946,09 | 6017980,10 | 17,39 | |
| 133 | DS72a | 32545704,07 | 6022232,12 | 11,54 | 2) |
| 134 | DS73a | 32545665,26 | 6022189,98 | 12,82 | 2) |
| 135 | DS74 | 32545777,37 | 6022163,60 | 12,43 | |
| 136 | DS75 V | 32545740,36 | 6022122,41 | 12,67 | 2) |
| 137 | DS76c | 32545849,70 | 6022095,89 | 12,89 | 2) |
| 138 | DS77 V | 32545815,22 | 6022055,69 | 11,48 | 2) |
| 139 | DS78b | 32545923,80 | 6022047,33 | 10,71 | 2) |
| 140 | DS79f | 32545890,85 | 6021980,18 | 10,46 | 2) |
| 141 | DS80e | 32545973,36 | 6021899,50 | 10,01 | 2) |
| 142 | DS81 | 32546059,48 | 6021816,83 | 10,46 | |
| 143 | DS82 | 32546148,22 | 6021736,01 | 10,69 | |
| 144 | DS83 | 32548048,30 | 6019683,29 | 14,14 | |
| 145 | DS84 | 32547975,25 | 6019629,07 | 14,67 | |
| 146 | DS85 | 32548219,35 | 6019423,10 | 13,55 | |
| 147 | DS86 | 32548424,54 | 6019085,27 | 14,00 | |
| 148 | DS87 | 32548498,63 | 6018848,04 | 13,79 | |
| 149 | DS88 | 32548629,13 | 6018724,55 | 14,62 | |
| 150 | DS89 | 32548676,13 | 6018648,48 | 15,03 | |
| 151 | DS90 | 32548642,99 | 6018598,08 | 13,86 | 1) |
| 152 | DS91 | 32548771,58 | 6018470,26 | 16,06 | |
| 153 | DS92 | 32548820,28 | 6018243,19 | 12,07 | |
| 154 | DS93 | 32549019,42 | 6018022,64 | 17,37 | |
| 155 | DS94 | 32548657,49 | 6018627,37 | 15,76 | |
| 156 | GWM06 | 32545896,07 | 6021978,06 | 10,68 | |
| 157 | GWM07 | 32547978,08 | 6019629,02 | 14,82 | |
| 158 | GWM08 | 32548645,24 | 6018596,08 | 13,73 | 1) |

1) erneute Einmessung der Höhe aufgrund geringer Lageveränderung

2) sehr geringe Verschiebung des Ansatzpunktes, keine Höhendifferenz

3) Rammsondierung als Drucksondierung ausgeführt

Anlage 3

Ergebnisse der Untergundaufschlüsse