

|                             |               |                                       |
|-----------------------------|---------------|---------------------------------------|
| Beschreibung der Probenahme | Datenbestand: | Bayer. Landesamt für Wasserwirtschaft |
|                             | Kennzahl:     | 4110/7828/00020                       |
|                             | Name:         | Brunnen II Breitenbrunn               |

**Probenahme**

**Probenahmestelle:** 4110/7828/00020  
**Brunnen II Breitenbrunn**  
**Wassergewinnungsanlage:** BREITENBRUNN  
**Zuständiges Amt:** Wasserwirtschaftsamt Kempten  
**Überwachtes Objekt:** Gesamtmessnetz GwBeschaffenheit 2022 WWA KE  
  
**Datum der Überwachung:** 23.07.2022  
**Untersuchungslabor:** Wasserwirtschaftsamt Kempten  
**Art der Untersuchung:** Landesmessnetz GWBeschaffenheit (LMN)  
**Probenummer:** 1521668  
**Datum der Probenahme:** 02.08.2022 10:30  
**Analyse zu prüfen:** nein  
**Erfassende Verwaltung:** WWA

**Messwerte**

| Schlüssel: | PV: | Parameter:           | Einheit: | Wert:     | auffällig: |
|------------|-----|----------------------|----------|-----------|------------|
| 0111       | A   | Dummy                | -        | B         |            |
| 0801       | A   | Probenahmegerät      | -        | 0         |            |
| 0803       | A   | Anlagenzustand       | -        | 2         |            |
| 0807       | A   | GW-stand in Ruhe     | m u. MP  | 5,53      |            |
| 0808       | A   | Entnahmetiefe        | m u. MP  | 15,00     |            |
| 0809       | A   | Abgesenkter GW-stand | m u. MP  | 5,54      |            |
| 0810       | A   | Freipump-Dauer       | h        | B         |            |
| 0811       | A   | Freipump-Förderung   | l/s      | 17        |            |
| 0900       | A   | Lufttemperatur       | °C       | 20,0      |            |
| 0944       | A   | Wetter-GW            | -        | 21        |            |
| 1021       | A   | Wassertemp.(vor Ort) | °C       | 10,1      |            |
| 1026       | A   | Färbung              | -        | 10        |            |
| 1027       | A   | Färbung (SPAK 436nm) | 1/m      | < 0,10    |            |
| 1028       | A   | SPAK 254 nm          | 1/m      | 0,68      |            |
| 1031       | A   | Trübung              | -        | 100       |            |
| 1042       | A   | Geruch               | -        | 100       |            |
| 1061       | A   | pH-Wert (vor Ort)    | -        | 7,5       |            |
| 1084       | A   | LF (20 °C) vor Ort   | µS/cm    | 643       |            |
| 1085       | A   | LF (20 °C) im Labor  | µS/cm    | 648       |            |
| 1112       | I   | Na                   | mg/l     | 13,8      |            |
| 1113       | I   | K                    | mg/l     | 2,68      |            |
| 1121       | I   | Mg                   | mg/l     | 25,7      |            |
| 1122       | I   | Ca                   | mg/l     | 97,8      |            |
| 1171       | I   | Mn                   | mg/l     | < 0,00100 |            |
| 1182       | I   | Fe                   | mg/l     | < 0,0100  |            |
| 1213       | A   | SiO2                 | mg/l     | 8,9       |            |
| 1244       | A   | NO3                  | mg/l     | 28        |            |
| 1246       | A   | NO2                  | mg/l     | < 0,02    |            |
| 1248       | A   | NH4                  | mg/l     | < 0,030   |            |
| 1263       | A   | o-PO4                | mg/l     | 0,021     |            |
| 1281       | A   | O2-gelöst            | mg/l     | 7,7       |            |
| 1313       | A   | SO4                  | mg/l     | 14        |            |
| 1321       | A   | F                    | mg/l     | < 0,10    |            |
| 1331       | A   | Cl                   | mg/l     | 28        |            |
| 1472       | A   | KS 4,3               | mmol/l   | 6,27      |            |
| 1524       | A   | DOC                  | mg/l     | < 0,5     |            |



|                             |               |                                       |
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|                             | Name:         | Brunnen II Breitenbrunn               |

|      |   |                      |      |         |
|------|---|----------------------|------|---------|
| 2128 | A | Iprodion             | µg/l | < 0,020 |
| 2226 | A | MCPA                 | µg/l | < 0,020 |
| 2227 | A | Mecoprop             | µg/l | < 0,020 |
| 2228 | A | Dichlorprop          | µg/l | < 0,020 |
| 2229 | A | 2,4-D                | µg/l | < 0,020 |
| 2230 | A | 2,4,5-T              | µg/l | < 0,020 |
| 2232 | A | MCPB                 | µg/l | < 0,020 |
| 2236 | A | Clopyralid           | µg/l | < 0,020 |
| 2240 | A | Propyzamid           | µg/l | < 0,020 |
| 2615 | A | Dinoterb             | µg/l | < 0,010 |
| 2960 | A | Pethoxamid           | µg/l | < 0,020 |
| 2961 | A | Propamocarb          | µg/l | < 0,020 |
| 2962 | A | Prothioconazol       | µg/l | < 0,020 |
| 2963 | A | Pymetrozin           | µg/l | < 0,020 |
| 2964 | A | Tebufenpyrad         | µg/l | < 0,020 |
| 3004 | A | Cyproconazol         | µg/l | < 0,020 |
| 3005 | A | Cyprodinil           | µg/l | < 0,020 |
| 3006 | A | Fenoxycarb           | µg/l | < 0,020 |
| 3007 | A | Penconazol           | µg/l | < 0,020 |
| 3008 | A | Flumioxazin          | µg/l | < 0,020 |
| 3009 | A | Napropamid           | µg/l | < 0,020 |
| 3010 | A | Propiconazol         | µg/l | < 0,020 |
| 3011 | A | Triadimenol          | µg/l | < 0,020 |
| 3012 | A | Fenhexamid           | µg/l | < 0,020 |
| 3014 | A | Imazamox             | µg/l | < 0,020 |
| 3016 | A | Deset-isopropatrazin | µg/l | < 0,020 |
| 3017 | A | Spiroxamin           | µg/l | < 0,020 |
| 3018 | A | Thiamethoxam         | µg/l | < 0,020 |
| 3019 | A | Topramezon           | µg/l | < 0,020 |
| 3020 | A | Phenmedipham         | µg/l | < 0,020 |
| 3030 | A | Dimethoat            | µg/l | < 0,020 |
| 3032 | A | Parathion-methyl     | µg/l | < 0,010 |
| 3033 | A | Chlorfenvinphos      | µg/l | < 0,020 |
| 3034 | A | Malathion            | µg/l | < 0,010 |
| 3035 | A | Ethephon             | µg/l | < 0,10  |
| 3040 | A | Pendimethalin        | µg/l | < 0,020 |
| 3042 | A | Chlorpyrifos         | µg/l | < 0,010 |
| 3044 | A | Methidathion         | µg/l | < 0,020 |
| 3045 | A | Quizalofop-p-ester   | µg/l | < 0,020 |
| 3047 | A | Acetamiprid          | µg/l | < 0,020 |
| 3051 | A | Atrazin              | µg/l | < 0,020 |
| 3052 | A | Simazin              | µg/l | < 0,020 |
| 3053 | A | Terbuthylazin        | µg/l | < 0,020 |
| 3054 | A | Desethylatrazin      | µg/l | < 0,020 |
| 3055 | A | Desethylsimazin      | µg/l | < 0,020 |
| 3056 | A | Hydroxyatrazin       | µg/l | < 0,020 |
| 3058 | A | Metribuzin           | µg/l | < 0,020 |
| 3059 | A | Terbutryn            | µg/l | < 0,020 |
| 3061 | A | Propazin             | µg/l | < 0,020 |
| 3062 | A | Sebuthylazin         | µg/l | < 0,020 |
| 3063 | A | Desethylterbuthylaz. | µg/l | < 0,020 |
| 3065 | A | Ametryn              | µg/l | < 0,020 |
| 3068 | A | Metalaxyl            | µg/l | < 0,020 |
| 3069 | A | 2-OH-DesethylTBA     | µg/l | < 0,020 |
| 3071 | A | Terbumeton           | µg/l | < 0,020 |
| 3075 | A | Tebuconazol          | µg/l | < 0,020 |



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|                             | Name:         | Brunnen II Breitenbrunn               |

|      |   |                      |      |          |
|------|---|----------------------|------|----------|
| 3076 | A | Imidaclopid          | µg/l | < 0,020  |
| 3077 | A | Esfenvalerat         | µg/l | < 0,020  |
| 3078 | A | Difenoconazol        | µg/l | < 0,020  |
| 3079 | A | Desethylsebutylazin  | µg/l | < 0,020  |
| 3080 | A | 2,6-Dichlorbenzamid  | µg/l | < 0,020  |
| 3083 | A | harn-dichlorphenyl   | µg/l | < 0,020  |
| 3085 | A | 2-OH-desethylatrazin | µg/l | < 0,020  |
| 3088 | A | Hydroxyterbutylazin  | µg/l | < 0,020  |
| 3090 | A | Prochloraz           | µg/l | < 0,020  |
| 3095 | A | Pyridat              | µg/l | < 0,020  |
| 3098 | A | Pencycuron           | µg/l | < 0,020  |
| 3101 | A | Diuron               | µg/l | < 0,010  |
| 3102 | A | Bentazon             | µg/l | < 0,010  |
| 3104 | A | Chloridazon          | µg/l | < 0,020  |
| 3105 | A | Hexazinon            | µg/l | < 0,020  |
| 3107 | A | Isoproturon          | µg/l | < 0,010  |
| 3108 | A | Metamitron           | µg/l | < 0,020  |
| 3109 | A | Metobromuron         | µg/l | < 0,010  |
| 3111 | A | Chlortoluron         | µg/l | < 0,020  |
| 3113 | A | Methabenzthiazuron   | µg/l | < 0,010  |
| 3115 | A | Linuron              | µg/l | < 0,010  |
| 3116 | A | Monolinuron          | µg/l | < 0,010  |
| 3117 | A | Dimefuron            | µg/l | < 0,020  |
| 3121 | A | Fenuron              | µg/l | < 0,020  |
| 3122 | A | Ethidimuron          | µg/l | < 0,020  |
| 3124 | A | Metsulfuron-methyl   | µg/l | < 0,0030 |
| 3125 | A | Diflubenzuron        | µg/l | < 0,020  |
| 3126 | A | Diflufenican         | µg/l | < 0,020  |
| 3137 | A | Alachlor             | µg/l | < 0,020  |
| 3138 | A | Dimethachlor         | µg/l | < 0,020  |
| 3140 | A | Metolachlor          | µg/l | < 0,020  |
| 3141 | A | Bifenox              | µg/l | < 0,010  |
| 3144 | A | Carbetamid           | µg/l | < 0,020  |
| 3146 | A | Chlorthalonil        | µg/l | < 0,020  |
| 3147 | A | Dicamba              | µg/l | < 0,020  |
| 3148 | A | Triclopyr            | µg/l | < 0,020  |
| 3149 | A | Picloram             | µg/l | < 0,020  |
| 3150 | A | Bromacil             | µg/l | < 0,020  |
| 3154 | A | Prometryn            | µg/l | < 0,020  |
| 3155 | A | Ioxynil              | µg/l | < 0,020  |
| 3157 | A | Bromoxynil           | µg/l | < 0,020  |
| 3158 | A | Lambda-Cyhalothrin   | µg/l | < 0,020  |
| 3159 | A | Fluroxypyr           | µg/l | < 0,020  |
| 3161 | A | Haloxypop            | µg/l | < 0,020  |
| 3166 | A | Dinoseb              | µg/l | < 0,010  |
| 3170 | A | Prosulfocarb         | µg/l | < 0,020  |
| 3171 | A | Pirimicarb           | µg/l | < 0,020  |
| 3175 | A | Amidosulfuron        | µg/l | < 0,020  |
| 3176 | A | Rimsulfuron          | µg/l | < 0,020  |
| 3177 | A | Thifensulfuronmethyl | µg/l | < 0,020  |
| 3179 | A | Fenoxaprop           | µg/l | < 0,020  |
| 3180 | A | Metazachlor          | µg/l | < 0,020  |
| 3183 | A | Kresoxim-methyl      | µg/l | < 0,020  |
| 3184 | A | Epoxiconazol         | µg/l | < 0,020  |
| 3185 | A | Azoxystrobin         | µg/l | < 0,020  |
| 3186 | A | Flusilazol           | µg/l | < 0,020  |



|                                    |                      |                                       |
|------------------------------------|----------------------|---------------------------------------|
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|      |   |                       |      |         |
|------|---|-----------------------|------|---------|
| 3187 | A | Aclonifen             | µg/l | < 0,020 |
| 3188 | A | Carbendazim           | µg/l | < 0,020 |
| 3189 | A | Propaquizafop         | µg/l | < 0,020 |
| 3195 | A | Fenpropimorph         | µg/l | < 0,010 |
| 3196 | A | Mefenpyr-diethyl      | µg/l | < 0,020 |
| 3197 | A | Fluazifop             | µg/l | < 0,020 |
| 3199 | A | Iodosulfuron-methyl   | µg/l | < 0,020 |
| 3202 | A | Quinoxifen            | µg/l | < 0,020 |
| 3203 | A | Triasulfuron          | µg/l | < 0,020 |
| 3204 | A | Flazasulfuron         | µg/l | < 0,020 |
| 3205 | A | Ethofumesat           | µg/l | < 0,020 |
| 3208 | A | Clomazone             | µg/l | < 0,020 |
| 3209 | A | Desmedipham           | µg/l | < 0,020 |
| 3210 | A | Dimethomorph          | µg/l | < 0,020 |
| 3211 | A | Fenpropidin           | µg/l | < 0,020 |
| 3213 | A | Fluazinam             | µg/l | < 0,020 |
| 3214 | A | Flufenacet            | µg/l | < 0,020 |
| 3215 | A | Flurtamone            | µg/l | < 0,020 |
| 3217 | A | Metosulam             | µg/l | < 0,020 |
| 3218 | A | Nicosulfuron          | µg/l | < 0,020 |
| 3219 | A | Quinmerac             | µg/l | < 0,020 |
| 3221 | A | Chlorpropham          | µg/l | < 0,020 |
| 3228 | A | Boscalid              | µg/l | < 0,020 |
| 3229 | A | Pyraclostrobin        | µg/l | < 0,020 |
| 3230 | A | Fludioxonil           | µg/l | < 0,020 |
| 3231 | A | Flonicamid            | µg/l | < 0,020 |
| 3236 | A | Foramsulfuron         | µg/l | < 0,020 |
| 3237 | A | Mesotrione            | µg/l | < 0,020 |
| 3238 | A | Propoxycarbazone      | µg/l | < 0,020 |
| 3239 | A | Prósulfuron           | µg/l | < 0,020 |
| 3240 | A | Triflusulfuron-methyl | µg/l | < 0,020 |
| 3241 | A | Cyazofamid            | µg/l | < 0,020 |
| 3242 | A | Metconazol            | µg/l | < 0,020 |
| 3243 | A | Picoxystrobin         | µg/l | < 0,020 |
| 3244 | A | Florasulam            | µg/l | < 0,020 |
| 3245 | A | Clodinafop            | µg/l | < 0,020 |
| 3247 | A | Tribenuron            | µg/l | < 0,020 |
| 3248 | A | Sulcotrion            | µg/l | < 0,020 |
| 3249 | A | Methiocarb            | µg/l | < 0,020 |
| 3252 | A | Clothianidin          | µg/l | < 0,020 |
| 3253 | A | Thiacloprid           | µg/l | < 0,020 |
| 3264 | A | Picolinafen           | µg/l | < 0,020 |
| 3265 | A | Benalaxyl             | µg/l | < 0,020 |
| 3266 | A | Fluopicolide          | µg/l | < 0,020 |
| 3267 | A | Benzotriazol          | µg/l | < 0,010 |
| 3268 | A | Tolyltriazole         | µg/l | < 0,010 |
| 3277 | A | Beflubutamid          | µg/l | < 0,020 |
| 3279 | A | Fluoxastrobin         | µg/l | < 0,020 |
| 3280 | A | Myclobutanil          | µg/l | < 0,020 |
| 3281 | A | Paclobutrazol         | µg/l | < 0,020 |
| 3282 | A | Penoxsulam            | µg/l | < 0,020 |
| 3283 | A | Pyrimethanil          | µg/l | < 0,020 |
| 3284 | A | Thiophanat-methyl     | µg/l | < 0,040 |
| 3285 | A | Triticonazol          | µg/l | < 0,020 |
| 3304 | A | Chloridazon_1         | µg/l | < 0,020 |
| 3305 | A | Chloridazon_2         | µg/l | < 0,040 |



|                                    |                      |                                       |
|------------------------------------|----------------------|---------------------------------------|
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|                                    | <b>Kennzahl:</b>     | 4110/7828/00020                       |
|                                    | <b>Name:</b>         | Brunnen II Breitenbrunn               |

|      |   |                      |      |         |
|------|---|----------------------|------|---------|
| 3308 | A | Metazachlor_2        | µg/l | < 0,020 |
| 3312 | A | Metolachlor_1        | µg/l | 0,077   |
| 3315 | A | Dimethachlor_5       | µg/l | < 0,020 |
| 3320 | A | Dimethenamid         | µg/l | < 0,010 |
| 3324 | A | Dimoxystrobin        | µg/l | < 0,010 |
| 3330 | A | Trifloxystrobin      | µg/l | < 0,020 |
| 3332 | A | Tritosulfuron        | µg/l | < 0,020 |
| 3340 | A | Mesosulfuron-methyl  | µg/l | < 0,020 |
| 3350 | A | Pyroxsulam           | µg/l | < 0,020 |
| 3411 | A | Benthiavalicarb-iso  | µg/l | < 0,020 |
| 3412 | A | Bixafen              | µg/l | < 0,020 |
| 3413 | A | Cyflufenamid         | µg/l | < 0,020 |
| 3414 | A | Fluopyram            | µg/l | < 0,020 |
| 3415 | A | Flupyrsulfuro-methyl | µg/l | < 0,020 |
| 3416 | A | Fluquinconazol       | µg/l | < 0,020 |
| 3417 | A | Fluxapyroxad         | µg/l | < 0,020 |
| 3418 | A | Iprovalicarb         | µg/l | < 0,020 |
| 3419 | A | Isopyrazam           | µg/l | < 0,020 |
| 3420 | A | Mandipropamid        | µg/l | < 0,020 |
| 3421 | A | Methoxyfenozid       | µg/l | < 0,020 |
| 3422 | A | Silthiofam           | µg/l | < 0,020 |
| 3423 | A | Tebufenozid          | µg/l | < 0,020 |
| 3424 | A | Tembotrione          | µg/l | < 0,020 |
| 3425 | A | Tepraloxydim         | µg/l | < 0,020 |
| 3426 | A | Triazoxid            | µg/l | < 0,10  |
| 3427 | A | Cymoxanil            | µg/l | < 0,020 |
| 3428 | A | Lenacil              | µg/l | < 0,020 |
| 3429 | A | Proquinazid          | µg/l | < 0,020 |
| 3430 | A | Quinoclamin          | µg/l | < 0,020 |
| 3432 | A | Imazalil             | µg/l | < 0,020 |
| 3433 | A | Isoxaben             | µg/l | < 0,020 |
| 3434 | A | Pinoxaden            | µg/l | < 0,020 |
| 3435 | A | Tetraconazol         | µg/l | < 0,020 |
| 3486 | A | Fenpyrazamin         | µg/l | < 0,030 |

