



Działka nr: 20/6  
Miejscowość: Stare Miasto  
Powiat: koniński  
Rodzaj otworu: otwór eksploacyjny - studnia  
Data wiercenia: 12.01.2022 r. - 18.02.2022 r.  
System i sposób wiercenia: obrotowy na prawy obieg płuczki  
Sposób pobierania próbek: z koryta płuczkowego  
Miejsce przechowywania próbek: wykonawca  
Rzędna terenu wokół otworu: 92,30 m n.p.m.  
Rzędna zwierciadła wody: 94,10 m n.p.m.  
Głębokość otworu: 99,0 m  
Współrzędne otworu: Układ 2000(6): X: 5783973.5, Y: 6513628.4  
Wykonawca wierceń: Zakład Studniarski Janusz Gruberski, Borki 2, 62-511 Kramsk  
Użytkownik: Gmina Stare Miasto, ul. Główna 16 B, 62-571 Stare Miasto

Geolog dokumentujący: mgr Artur Baj V - 1782  
Wyniki obliczeń hydrogeologicznych dla warstwy wodonośnej ujętej wg przedstawionego szkicu konstrukcyjnego:  
Współczynnik filtracji metoda filtracji nieustalonej (z pompowania pomiarowego): k = 0,000164 m/s  
Wydajność dopuszczalna: Q<sub>dop</sub> = 129,5 m³/h  
Pompowanie pomiarowe jednostopniowe: Q = 28,0 m³/h przy s<sub>c</sub> = 2,88 m

ZBIORCZE ZESTAWIENIE WYNIKÓW WIERCENIA OTWORU BADAWCZEGO NR 1

Temat: Dokumentacja Geologiczna Inna z wykonania w utworach kredowych otworu badawczego - monitoringowego zlokalizowanego na działce nr 20/6 w miejscowości Stare Miasto

| CZĘŚĆ GEOLOGICZNA |   |  |                         |                        |                       | CZĘŚĆ TECHNICZNA                       |   |                                      |  |  |       |                              |  |  |
|-------------------|---|--|-------------------------|------------------------|-----------------------|--|---|--------------------------------------|--|--|-------|------------------------------|--|--|
| Stratygrafia      | Głębokość<br>zwierciadła<br>wody [m p.p.t.] | Głębokość<br>pobrania<br>prób [m p.p.t.] | Głębokość<br>[m p.p.t.] | Profil<br>litologiczny | Przelot warstw<br>[m] | Opis litologiczny                      | System<br>wiercenia                       | Stosowane<br>narzędzia<br>wiertnicze | Konstrukcja otworu<br>(zarurowanie, zafiltrowanie,<br>uszczelnienie rur) | Analiza wody   | Uwagi |                              |  |  |
| 1                 | +1,80                                       | 3  | 4                       | 5                      | 6                     | 7                                      | 8   | 9                                    | 10   | 11   | 12    |                              |  |  |
| Czwartorzęd       |   |  |                         |                        | 3,8                   | piasek drobnziarnisty, jasno - brązowy | metoda obrotowa z prawym obiegiem płuczki | gryzer o średnicy Ø = 216 mm         |  | <b>Wyniki badań wody 10.02.2022 r.</b><br><br>Odczyn (pH): 7,3 pH<br>Barwa: 15/5 mg Pt/dm³<br>Mętność: 0,6 NTU<br>Zasadowość ogólna: 5,3 mval/dm³<br>Twardość ogólna: 176 mg CaCO <sub>3</sub> /dm³<br>Twardość ogólna: 3,5 mval/dm³<br>Indeks nadmanganianowy: 2,6 mg O <sub>2</sub> /dm³<br>Ogólny węgiel organiczny: 3,3 mg C/dm³<br>Sucha pozostałość: 273 mg/dm³<br>Mineralizacja ogólna: 428 mg/dm³<br>Amonowy jon: 0,84 mg NH <sub>4</sub> /dm³<br>Azotyny: < 0,05 mg NO <sub>2</sub> /dm³<br>Azotany: < 0,10 mg NO <sub>3</sub> /dm³<br>Chlorki: 5,33 mg Cl/dm³<br>Siarczany: 0,09 mg SO <sub>4</sub> /dm³<br>Fosforany: 0,0,34 mg PO <sub>4</sub> /dm³<br>Fluorki: 0,16 mg F/dm³<br>Elektryczna przew. właściwa: 474 µS/cm<br>Wapń: 49,7 mg Ca/dm³<br>Magnez: 12,5 mg Mg/dm³<br>Mangan: 0,08 mg Mn/dm³<br>Żelazo: 0,26 mg Fe/dm³<br>Sód: 38,1 mg Na/dm³<br>Potas: 3,24 mg K/dm³<br>Wodorowęglany: 317 mg HCO <sub>3</sub> /dm³<br>Siarkowodor i siarczki: 0,02 mg H <sub>2</sub> S/dm³<br>Bakterie grupy coli: 0 NPL/100 ml<br>Escherichia coli: 0 NPL/100 ml<br>Ogólna liczba bakterii 22°C 68 h: 1 jtk/1 ml |       |                              |  |  |
| Neogen            |   |  |                         |                        | 8,3                   | głina zwalowa, szara                   |   |                                      |  |  |       | gryzer o średnicy Ø = 136 mm |  |  |
| Kreda             |   |  |                         |                        | 12,7<br>13,5          | piasek drobnziarnisty, szary           |   |                                      |  |  |       |                              |  |  |
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