



Kragelund Vandværk  
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## ANALYSERAPPORT 437945

Version: 1  
Sagsnr:  
Rekv. nr:  
Genereret: 18.08.2022  
Bilag:

|                       |  |                              |                                     |
|-----------------------|--|------------------------------|-------------------------------------|
| <b>LAB nr:</b>        | 22-26555, Prøve nr. 523484                 | <b>Prøvetager:</b>           | MBS, SGS Analytics Denmark A/S      |
| <b>Prøvemærkning:</b> |  | <b>Prøvetagningsmetode:</b>  | M-0061 DS/ISO 5667                  |
| <b>Prøvetype:</b>     | Drikkevandskontrol, afgang vandværk - PFAS | <b>Prøvetagningsperiode:</b> | 26.07.2022 10:40 - 26.07.2022 11:00 |
| <b>Prøvested:</b>     | Kragelund Vandværk - Jupiter 80014         | <b>Prøvetagningssted:</b>    | Afgang vandværk                     |
| <b>Grænseværdier:</b> | Miljøministeriet, BEK nr 972 af 21.06.2022 | <b>Analyseperiode:</b>       | 26.07.2022 - 18.08.2022             |

| Analyseparameter                     | Resultat     | Min | Max   | Udenfor | D.L.   | Metode/Reference               | +/- |
|--------------------------------------|--------------|-----|-------|---------|--------|--------------------------------|-----|
| Perfluoroktansyre (PFOA)             | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluoroktansulfonsyre (PFOS)       | <0.0002 µg/L | -   | -     |         | 0.0002 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluorbutansulfonat (PFBS)         | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluorheptansyre (PFHpA)           | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluorhexansulfonat (PFHxS)        | <0.0003 µg/L | -   | -     |         | 0.0003 | DIN 38407-42 mod.              | 30% |
| Perfluorhexansyre (PFHxA)            | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluornonansyre (PFNA)             | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluoroktansulfonamid (PFOSA)      | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluorbutansyre (PFBA)             | <0.0006 µg/L | -   | -     |         | 0.0006 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluorpentansyre (PFPeA)           | <0.0006 µg/L | -   | -     |         | 0.0006 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| Perfluordecansyre (PFDA)             | <0.0006 µg/L | -   | -     |         | 0.0006 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| 6:2 fluortelomersulfonsyre (6:2 FTS) | <0.0003 µg/L | -   | -     |         | 0.0003 | #DIN 38407-42 mod. Swedac 1006 | 30% |
| PFAS Sum (12)                        | <0.0002 µg/L | -   | 0.1   |         | 0.0002 | #Beregning Swedac 1006         | 30% |
| PFOA, PFOS, PFNA og PFHxS Sum (4)    | <0.0002 µg/L | -   | 0.002 |         | 0.0002 | #Beregning Swedac 1006         | -   |

### Bemærkninger:

Der er ikke fundet resultater uden for de anførte min- og maxgrænser.

Analyserapporten må kun gengives i uddrag, hvis den enten er offentlig tilgængelig, eller hvis laboratoriet har godkendt uddraget.  
Resultaterne gælder udelukkende for de analyserede prøver.



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|                       |   |                              |                                     |
|-----------------------|---|------------------------------|-------------------------------------|
| <b>LAB nr:</b>        | 22-26559, Prøve nr. 523488                                  | <b>Prøvetager:</b>           | MBS, SGS Analytics Denmark A/S      |
| <b>Prøvemærkning:</b> | Reduceret   | <b>Prøvetagningsmetode:</b>  | M-0061 DS/ISO 5667                  |
| <b>Prøvetype:</b>     | Drikkevandskontrol, afgang vandværk - Driftskontrol Bilag E | <b>Prøvetagningsperiode:</b> | 26.07.2022 10:40 - 26.07.2022 11:00 |
| <b>Prøvested:</b>     | Kragelund Vandværk - Jupiter 80014                          | <b>Prøvetagningssted:</b>    | Afgang vandværk                     |
| <b>Grænseværdier:</b> | Miljøministeriet, BEK nr 972 af 21.06.2022                  | <b>Analyseperiode:</b>       | 26.07.2022 - 18.08.2022             |

| Analyseparameter    | Resultat     | Min | Max  | Udenfor | D.L.  | Metode/Reference               | +/-    |
|---------------------|--------------|-----|------|---------|-------|--------------------------------|--------|
| Farve Pt            | 1 mg/L       | -   | 15   |         | 1     | M-0007 DS/EN ISO 7887          | 15%    |
| Turbiditet          | <0.05 FTU    | -   | 1    |         | 0.05  | M-0011 DS/EN ISO 7027-1:2016   | 10%    |
| Temperatur          | 8.9 °C       | -   | -    |         | 0.1   | TERMOMETER                     | 10%    |
| pH                  | 8.0 pH       | 7   | 8.5  |         | 0.05  | M-0010 DS/EN/ISO 10523:2012    | 10%    |
| Ledningsevne        | 31 mS/m      | -   | 250  |         | 0.5   | M-0009 DS 27888:2003           | 10%    |
| NVOC                | 0.6 mg/L     | -   | 4    |         | 0.1   | M-0097 DS/EN 1484              | 10%    |
| Ammonium            | <0.02 mg/L   | -   | 0.05 |         | 0.02  | M-0014 DS 224                  | 10%    |
| Jern                | 0.007 mg/L   | -   | 0.2  |         | 0.002 | M-0139 RefM018/ICP             | 10%    |
| Mangan              | 0.002 mg/L   | -   | 0.05 |         | 0.001 | M-0139 RefM018/ICP             | 10%    |
| Nitrat              | <0.5 mg/L    | -   | 50   |         | 0.5   | M-0018 DS/ENISO10304           | 10%    |
| Nitrit              | 0.001 mg/L   | -   | 0.01 |         | 0.001 | M-0015 DS 222                  | 10%    |
| Ilt                 | 10.8 mg/L    | 5   | -    |         | 0.1   | M-0064 DS/EN/ISO 5814:2012     | 10%    |
| Hårdhed             | 7.08 °dH     | -   | -    |         | 0.05  | Beregning                      | 10%    |
| Nikkel              | 0.89 µg/L    | -   | 20   |         | 0.03  | M-0140 RefM018/ICP-MS          | 10%    |
| Calcium             | 31.5 mg/L    | -   | 200  |         | 0.007 | M-0139 RefM018/ICP             | 10%    |
| Magnesium           | 11.6 mg/L    | -   | 50   |         | 0.001 | M-0139 RefM018/ICP             | 10%    |
| Arsen               | 0.29 µg/L    | -   | 5    |         | 0.02  | M-0140 RefM018/ICP-MS          | 10%    |
| Coliforme bakterier | <1 pr. 100mL | -   | <1   |         | 1     | M-0032 Colilert                | Ig0.25 |
| E. Coli             | <1 pr. 100mL | -   | <1   |         | 1     | M-0032 Colilert                | Ig0.25 |
| Enterokokker        | <1 pr. 100mL | -   | <1   |         | 1     | M-0135 ISO 7899-2              | Ig0.11 |
| Kimtal 22°C         | 1 pr. mL     | -   | 200  |         | 1     | M-0030 DS/EN ISO6222           | Ig0.15 |
| Methan              | <0.01 mg/L   | -   | 0.01 |         | 0.01  | #M-0112 Ref. Lab M063 - GC-FID | 10%    |
| Svovlbrinte         | <0.01 mg/L   | -   | 0.01 |         | 0.01  | M-0098 DS 278:1976             | 10%    |
| Aggressiv CO2       | <2 mg/L      | -   | 2    |         | 2     | M-0004 DS 236                  | 10%    |
| Bicarbonat HCO3     | 100 mg/L     | -   | -    |         | 0.5   | M-0006 DS 256                  | 10%    |

**Bemærkninger:**

Der er ikke fundet resultater uden for de anførte min- og maxgrænser.  
Value

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Resultaterne gælder udelukkende for de analyserede prøver.

|                       |   |                              |                                     |
|-----------------------|---|------------------------------|-------------------------------------|
| <b>LAB nr:</b>        | 22-26560, Prøve nr. 523489                            | <b>Prøvetager:</b>           | MBS, SGS Analytics Denmark A/S      |
| <b>Prøvemærkning:</b> | + PCP   | <b>Prøvetagningsmetode:</b>  | M-0061 DS/ISO 5667                  |
| <b>Prøvetype:</b>     | Drikkevandskontrol, afgang vandværk - Pesticidkontrol | <b>Prøvetagningsperiode:</b> | 26.07.2022 10:40 - 26.07.2022 11:00 |
| <b>Prøvested:</b>     | Kragelund Vandværk - Jupiter 80014                    | <b>Prøvetagningssted:</b>    | Afgang vandværk                     |
| <b>Grænseværdier:</b> | Miljøministeriet, BEK nr 972 af 21.06.2022            | <b>Analyseperiode:</b>       | 26.07.2022 - 18.08.2022             |

| Analyseparameter                                      | Resultat    | Min | Max  | Udenfor | D.L.  | Metode/Reference | +/- |
|---|-------------|-----|------|---------|-------|------------------|-----|
| Pentachlorphenol                                      | <0.01 µg/L  | -   | 0.01 |         | 0.01  | M-0165 LC-MS-MS  | 30% |
| LM5 (CGA324007)                                       | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *LC-MS/MS        | 30% |
| LM6 (SYN545666)                                       | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *LC-MS/MS        | 30% |
| R471811   | <0.05 µg/L  | -   | 0.1  |         | 0.05  | *LC-MS/MS        | 30% |
| Imazalil  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *M-0165 LC-MS-MS | 30% |
| Metaldehyd  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *LC-MS/MS        | 30% |
| Metamitron-desamino                                   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *M-0165 LC-MS-MS | 20% |
| 5-trifluoromethyl-2-(1H) pyridon (TFMP)               | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *M-0165 LC-MS-MS | 30% |
| Monuron   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *M-0165 LC-MS-MS | 30% |
| CGA 369873  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *M-0165 LC-MS-MS | 30% |
| [(2,6-Dimethylphenyl)(2-sulfoacetyl)amino]jeddikesyre | <0.01 µg/L  | -   | 0.1  |         | 0.01  | *M-0165 LC-MS-MS | 30% |
| t-Sulfinylacetic Acid                                 | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 30% |
| Trifluoreddikesyre (TFA)                              | 0.14 µg/L   | -   | 9    |         | 0.05  | *LC-MS/MS        | 30% |
| Alachlor ESA  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0212 LC-MS-MS  | 30% |
| Dimethachlor ESA                                      | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0212 LC-MS-MS  | 30% |
| Dimethachlor OA                                       | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0222 LC-MS-MS  | 30% |
| Metazachlor ESA                                       | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0212 LC-MS-MS  | 30% |
| Metazachlor OA  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0212 LC-MS-MS  | 30% |
| Propachlor ESA  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0212 LC-MS-MS  | 30% |
| Chlorothalonil-amidsulfonsyre                         | <0.002 µg/L | -   | 0.1  |         | 0.002 | M-0211 LC-MS/MS  | 30% |
| 1.2.4-Triazol   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0205 LC-MS-MS  | 20% |
| N,N-Dimethylsulfamid (DMS)                            | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0204 LC-MS/MS  | 30% |
| Chloridazon   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| Desphenyl-chloridazon                                 | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| Methyl-desphenyl-chloridazon                          | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| 2.4 D   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 10% |
| Atrazin   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 15% |
| Bentazon  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 10% |
| Dichlobenil   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0100 GC-MS     | 10% |
| Dichlorprop   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 10% |
| Diuron  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 15% |
| ETU (Ethylenthiourea)                                 | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| Glyphosat   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0166 LC-MS-MS  | 20% |
| Hexazinon   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 10% |
| MCPA  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 15% |
| Mechlorprop   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 15% |
| Metribuzin  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 15% |
| Simazin   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 10% |
| 2.6-Dichlorbenzoesyre                                 | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| 2.4-Dichlorphenol                                     | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0100 LC-MS     | 15% |
| 2.6-Dichlorphenol                                     | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0100 LC-MS     | 10% |
| 4-CPP   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| 2.6-DCPP  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| 4-nitrophenol   | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 15% |
| AMPA  | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0166 LC-MS-MS  | 20% |
| BAM (2.6-dichlorbenzamid)                             | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 10% |
| Desethyl-desisopropylatrazin                          | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |
| Desethylhydroxyatrazin                                | <0.01 µg/L  | -   | 0.1  |         | 0.01  | M-0165 LC-MS-MS  | 20% |

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Resultaterne gælder udelukkende for de analyserede prøver.

| Analyseparameter                    | Resultat   | Min | Max  | Udenfor | D.L. | Metode/Reference | +/- |
|-------------------------------------|------------|-----|------|---------|------|------------------|-----|
| Desethylatrazin                     | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 15% |
| Desethylterbutylazin                | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Desisopropylatrazin                 | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 15% |
| Desisopropylhydroxyatrazin          | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Didealkylhydroxyatrazin             | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Hydroxyatrazin                      | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 15% |
| Hydroxysimazin                      | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 15% |
| Metribuzin-desamino-deketo          | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Metribuzin-diketo                   | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Metribuzin-desamino                 | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Metalaxyl/Metalaxyl-M               | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| CGA62826                            | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| CGA108906                           | <0.01 µg/L | -   | 0.1  |         | 0.01 | M-0165 LC-MS-MS  | 20% |
| Aldrin                              | <0.01 µg/L | -   | 0.03 |         | 0.01 | M-0208 GC-MS     | 30% |
| Dieldrin                            | <0.01 µg/L | -   | 0.03 |         | 0.01 | M-0208 GC-MS     | 30% |
| Heptachlor                          | <0.01 µg/L | -   | 0.03 |         | 0.01 | M-0208 GC-MS     | 30% |
| Heptachlorepoxid (sum af cis+trans) | <0.01 µg/L | -   | 0.03 |         | 0.01 | M-0208 GC-MS     | 30% |

**Bemærkninger:**

Der er ikke fundet resultater uden for de anførte min- og maxgrænser.

**Rekvirent:** Kragelund Vandværk  
**Kopi:** Danmarks Miljøportal, Sundhedsstyrelsen Nord, Silkeborg Kommune

Nørresundby d. 18.08.2022

**Forklaring:**

D.L.: Detektionsgrænse                      <: Mindre end                      \*: Ikke omfattet af akkrediteringen  
 +/-: Total ekspanderet usikkerhed (2x total RSD%)                      >: Større end                      #: Akkrediteret af underleverandør

  
 Sven-Erik Lykke, laboratorchef

Analysereporten må kun gengives i uddrag, hvis den enten er offentlig tilgængelig, eller hvis laboratoriet har godkendt uddraget.

Resultaterne gælder udelukkende for de analyserede prøver.