Poročilo o izvedeni nalogi

**JP Vodovod - Kanalizacija d.o.o. - spremljanje zdravstvene ustreznosti pitne vode**

**Evidenčna oznaka:** 2132-17/20295-18/21730

**Naročnik:** JAVNO PODJETJE VODOVOD-KANALIZACIJA D.O.O. VODOVODNA CESTA 90 1000 Ljubljana

**Delovni nalog:** Narocilo 64/2018

**Izvajalci:**
- Oddelek za okolje in zdravje Novo mesto
- Oddelek za kemijske analize živil, vod in drugih vzorcev okolja Novo mesto
- Oddelek za mikrobiološke analize živil, vod in drugih vzorcev okolja Novo mesto

**Vodja naloge:** Anton Škrbec, dipl. san. inž.

**Novo mesto,**

11.04.2018

**Vodja naloge:**

Oddelek za okolje in zdravje Novo mesto

Vodja oddelka:

Dušan Harlander, dr. med., spec. epidemiolog


Čas certificiranega podpisa in podatki o certifikatu so razvidni na vrhu prve strani dokumenta.
Podatki o vzorcu

Vzorec: 2018/1193  
Številka vzorca: 18/21730  
Namen:  
Naročnik: JAVNO PODJETJE VODOVOD-KANALIZACIJA D.O.O., VODOVODNA CESTA 90, 1000 Ljubljana  
Vzorec odvzel: Andrej Povše, NLZOH OOZ Novo mesto  
Čas odvzema: 08.03.2018 10:25  
Mesto odvzema: Vodooskrbo območje Kleče - Hrastje - Jarški prod,  
Vzorec sprejel: Boris Sodec  
Kraj in čas sprejema: Novo mesto, 08.03.2018 13:39  

Ocena rezultatov

Prikazani so rezultati z določenimi kriteriji.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rezultat</th>
<th>≤ nota</th>
<th>Izražen kot/na</th>
<th>Kriterij</th>
<th>Skladnost</th>
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<td>Vonj</td>
<td>sprejemljiv</td>
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<td>Okus</td>
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<td>Splošni parametri</td>
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<td>Nitrat</td>
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<td>Sulfat</td>
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<td>Klorid</td>
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<td>Fluorid</td>
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<td>Celotni organski ogljik - TOC</td>
<td>&lt;0.3</td>
<td>mg/L</td>
<td>C</td>
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<td>/</td>
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<td>Kovine in metaloidi</td>
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<td>Mangan</td>
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<tr>
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<tr>
<td>Arzen</td>
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<td>μg/L</td>
<td>10</td>
<td>skladen</td>
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Odkledek za okolje in zdravje Novo mesto

Meg vrh 5, 8000 Novo mesto, T:07 39 34 100, F:07 39 34 101, E:alton@oblz@nlzoh.si
Nacionalni laboratorij za zdravje, okolje in hrano, Prevojna ulica 1, 2000 Maribor
ID za DDV: SI19651295, TRR: SI5601100-6000043285, BIC: BSLJS12X, Banka Slovenske
Kovine in nekovine

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<thead>
<tr>
<th>Komponenta</th>
<th>Koncentracija</th>
<th>Skupna skladnost</th>
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</thead>
<tbody>
<tr>
<td>Baker</td>
<td>0.0017 mg/L</td>
<td>2 skladen</td>
</tr>
<tr>
<td>Bor</td>
<td>0.015 µg/L</td>
<td>1 skladen</td>
</tr>
<tr>
<td>Kadmij</td>
<td>&lt;0.02 µg/L</td>
<td>5 skladen</td>
</tr>
<tr>
<td>Nikelj</td>
<td>&lt;0.1 µg/L</td>
<td>20 skladen</td>
</tr>
<tr>
<td>Selen</td>
<td>&lt;0.1 µg/L</td>
<td>10 skladen</td>
</tr>
<tr>
<td>Železo</td>
<td>&lt;0.4 µg/L</td>
<td>200 skladen</td>
</tr>
<tr>
<td>Svinec</td>
<td>0.23 µg/L</td>
<td>10 skladen</td>
</tr>
<tr>
<td>Živo srebro</td>
<td>0.010 µg/L Hg</td>
<td>1 skladen</td>
</tr>
<tr>
<td>Calci</td>
<td>70 mg/L</td>
<td>/</td>
</tr>
<tr>
<td>Magnezij</td>
<td>16 mg/L</td>
<td>/</td>
</tr>
<tr>
<td>Natrij</td>
<td>5 mg/L</td>
<td>200 skladen</td>
</tr>
<tr>
<td>Kalij</td>
<td>0.79 mg/L</td>
<td>/</td>
</tr>
<tr>
<td>Skupna trdota</td>
<td>13.5 °N</td>
<td>/</td>
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Pesticidi - organofosforni in drugi

<table>
<thead>
<tr>
<th>Komponenta</th>
<th>Koncentracija</th>
<th>Skupna skladnost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azoksistribin</td>
<td>&lt;0.002 µg/L</td>
<td>0.1 skladen</td>
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Lahkohlapni aromatski ogljikovodik - BTX

<table>
<thead>
<tr>
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<th>Koncentracija</th>
<th>Skupna skladnost</th>
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</thead>
<tbody>
<tr>
<td>Benzol</td>
<td>&lt;0.4 µg/L</td>
<td>1 skladen</td>
</tr>
<tr>
<td>m,p- Kalen</td>
<td>&lt;0.6 µg/L</td>
<td>/</td>
</tr>
<tr>
<td>o-Kalen</td>
<td>&lt;0.4 µg/L</td>
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Lahkohlapni aromatski ogljikovodiki

<table>
<thead>
<tr>
<th>Komponenta</th>
<th>Koncentracija</th>
<th>Skupna skladnost</th>
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</thead>
<tbody>
<tr>
<td>Toluenc</td>
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Lahkohlapni halogenirani ogljikovodiki

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<thead>
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<th>Komponenta</th>
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<th>Skupna skladnost</th>
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</thead>
<tbody>
<tr>
<td>Trihalometan (vsota)</td>
<td>&lt;1.1 µg/L</td>
<td>100 skladen</td>
</tr>
<tr>
<td>Tetralloorotetan (tetralkoroetilen)</td>
<td>&lt;1.1 µg/L</td>
<td>10 skladen</td>
</tr>
<tr>
<td>Trilloorotetan (trikloroetilen)</td>
<td>&lt;0.9 µg/L</td>
<td>10 skladen</td>
</tr>
<tr>
<td>Tetralloorotetan-trikloroetaten</td>
<td>&lt;1.1 µg/L</td>
<td>10 skladen</td>
</tr>
<tr>
<td>1,2-Dikloroetan</td>
<td>&lt;0.9 µg/L</td>
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Mikrobiološki parametri

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<th>Koncentracija</th>
<th>Skupna skladnost</th>
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</thead>
<tbody>
<tr>
<td>Escherichia coli</td>
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<td>CFU/100 mL 0</td>
</tr>
<tr>
<td>Koliforme bakterije</td>
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<td>CFU/100 mL 0</td>
</tr>
<tr>
<td>Enterokokki</td>
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<td>CFU/100 mL 0</td>
</tr>
<tr>
<td>Clostridium perfringens</td>
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<td>CFU/100 mL 0</td>
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<tr>
<td>Skupno število mikroorganizmov pri 22°C</td>
<td>11 CFU/ml</td>
<td>/</td>
</tr>
<tr>
<td>Skupno število mikroorganizmov pri 37°C</td>
<td>ocenjeno 4 CFU/ml</td>
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Osnabjevala

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<tr>
<th>Komponenta</th>
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<th>Skupna skladnost</th>
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</thead>
<tbody>
<tr>
<td>Celotni cianid</td>
<td>&lt;1 µg/L</td>
<td>CN 50 skladen</td>
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Pesticidi

<table>
<thead>
<tr>
<th>Komponenta</th>
<th>Koncentracija</th>
<th>Skupna skladnost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atrazin</td>
<td>&lt;0.007 µg/L</td>
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<tr>
<td>Azinats Metil</td>
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<td>0.1 skladen</td>
</tr>
<tr>
<td>Diklorfors</td>
<td>&lt;0.003 µg/L</td>
<td>0.1 skladen</td>
</tr>
<tr>
<td>Pesticidi</td>
<td>&lt;0.006</td>
<td>µg/L</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------</td>
<td>------</td>
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<tr>
<td>Dimetaklor</td>
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<td>Dimetanamid</td>
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<tr>
<td>Dimetot</td>
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</tr>
<tr>
<td>Diuron</td>
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<td>µg/L</td>
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<tr>
<td>Fentin</td>
<td>&lt;0.003</td>
<td>µg/L</td>
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<tr>
<td>Flufenacet</td>
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<td>µg/L</td>
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<tr>
<td>Fluroaldehydon</td>
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<td>µg/L</td>
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<tr>
<td>Imidakioprid</td>
<td>&lt;0.008</td>
<td>µg/L</td>
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<tr>
<td>Izoproturon</td>
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<td>µg/L</td>
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<td>Klorantriniliprol</td>
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<td>Klorfeninynos</td>
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<td>µg/L</td>
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<tr>
<td>Kloridazon</td>
<td>&lt;0.004</td>
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<tr>
<td>Klorotolnol</td>
<td>&lt;0.009</td>
<td>µg/L</td>
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<tr>
<td>Klorotoluron</td>
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<td>Malation</td>
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<td>Metalaksil</td>
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<td>Metazaklor</td>
<td>&lt;0.008</td>
<td>µg/L</td>
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<td>Priminos-metil</td>
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<td>Tiakloprid</td>
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<td>Azinilos-til</td>
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<td>µg/L</td>
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<tr>
<td>Tebukonazol</td>
<td>&lt;0.01</td>
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**Pesticidi - triazinski**

| Atrazin, Deseti- | <0.009 | µg/L | 0.1 | skladen |
| Atrazin, Desizopropi- | <0.003 | µg/L | 0.1 | skladen |
| N,N-diethyl-m-toluanid | <0.01 | µg/L | 0.1 | skladen |
**Pesticidi - triazinski in drugi**

<table>
<thead>
<tr>
<th>Pesticid</th>
<th>Koncentracija µg/L</th>
<th>Limit</th>
<th>Skladnost</th>
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<tbody>
<tr>
<td>Sekbumeton</td>
<td>&lt;0.008</td>
<td>0.1</td>
<td>skladen</td>
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<tr>
<td>Ametrin</td>
<td>&lt;0.010</td>
<td>0.1</td>
<td>skladen</td>
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**Pesticidi in metaboliti**

<table>
<thead>
<tr>
<th>Pesticid</th>
<th>Koncentracija µg/L</th>
<th>Limit</th>
<th>Skladnost</th>
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</thead>
<tbody>
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<td>2,6-Diklorobenzamid</td>
<td>&lt;0.006</td>
<td>0.1</td>
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<td>skladen</td>
</tr>
<tr>
<td>Alaklor</td>
<td>&lt;0.007</td>
<td>0.1</td>
<td>skladen</td>
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<tr>
<td>Bromacil</td>
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<td>0.1</td>
<td>skladen</td>
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<tr>
<td>Cyanazin</td>
<td>&lt;0.009</td>
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<td>skladen</td>
</tr>
<tr>
<td>Fluometuron</td>
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<td>skladen</td>
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<tr>
<td>Heksazin</td>
<td>&lt;0.013</td>
<td>0.1</td>
<td>skladen</td>
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<tr>
<td>Klorbromuron</td>
<td>&lt;0.011</td>
<td>0.1</td>
<td>skladen</td>
</tr>
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<td>Metoksuron</td>
<td>&lt;0.009</td>
<td>0.1</td>
<td>skladen</td>
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<tr>
<td>Metolaklor-ESA</td>
<td>&lt;0.017</td>
<td>0.1/10</td>
<td>skladen</td>
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<tr>
<td>Metolaklor-OXA</td>
<td>&lt;0.015</td>
<td>0.1/10</td>
<td>skladen</td>
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<tr>
<td>Monolinuron</td>
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<td>skladen</td>
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<td>skladen</td>
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<td>Propazin</td>
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<td>0.1</td>
<td>skladen</td>
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<td>Sebutiazin</td>
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<td>S-Metolaklor</td>
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<td>skladen</td>
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<td>Terbutiazin-desetil</td>
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<td>skladen</td>
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<td>Terbutrin</td>
<td>&lt;0.013</td>
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<td>skladen</td>
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<td>Piridat-M</td>
<td>&lt;0.005</td>
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<td>skladen</td>
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**Splošni fizikalno-kemijski parametri**

<table>
<thead>
<tr>
<th>Parametr</th>
<th>Vrednost</th>
<th>Limit</th>
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<tr>
<td>Barva (436 nm)</td>
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**Kriteriji-mješke vrednosti so povzeti po:**


**Ocena skladnosti**

Vzorec je skladen z upoštevanimi kriteriji.

**Zdravstvena ocena**

Vzorec je zdravstveno ustrezen.

**Priloge poročila:**

Poročilo o preskušanju z evidenčno oznako 2132-17/20295-18/21730-T

Poročilo o kemijskem preskušanju z evidenčno oznako 1072-17/20295-18/21730-K

Poročilo o mikrobiološkem preskušanju z evidenčno oznako 4002-17/20295-18/21730-M
**Poročilo o preskušanju**

**Vzorec:** 2018/1193  
**Številka vzorca:** 18/21730  
**Naloga:** JP Vodovod - Kanalizacija d.o.o. - spremljanje zdravstvene ustreznosti pitne vode 420 - 20/16  
**Vodja naloge:** Anton Škrbec, dipl.san.inž.  
**Naročnik:** JAVNO PODJETJE VODOVOD-kanalizacija d.o.o., vodovodna cesta 90, 1000 Ljubljana  
**Delovni nalog:** Naralilo 64/2018  
**Mesto odzvema:** Vodooskrbno območje Kleče - Hrastje - Jarški prod,  

**Stanje vzorca:** Vzorec ustreza kriterijem za sprejem  

**Odvzem vzorca**  
**Datum in ura:** 08.03.2018 10:25  
**Odvel:** Andrej Povše, NLZOH OOZ Novo mesto  

**Sprejem vzorca**  
**Datum in ura:** 08.03.2018 13:39  
**Sprejel:** Boris Sodec  

**Datum poročila:** 11.04.2018  

---

**Rezultati preskušanja**

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<tr>
<th>Parameter</th>
<th>Rezultat Opomba</th>
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<th>Kraj izvedbe</th>
<th>Začetek / zaključek analize</th>
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<td>Klor-prostri &lt;0.1</td>
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Podatke o merilni negolovosti posredujemo na zahtevo naročnika.

**Opomba:**

Izmerjena koncentracija prostega CI2 = 0,00 mg/L #

---

**Oddelek za okolje in zdravje Novo mesto**

**Mej vrt 5, 8000 Novo mesto; T:07 39 34 100, F:07 39 34 101, E:canton.skrbec@nlzoh.si**  
**Nacionalni laboratori za zdravje, okolje in hrano, Preomurska ulica 1, 2000 Maribor**  
**ID za DDV: SI19651285; TRR: SI56001100-6000043285; BIC: BSLJS2X, Banka Slovenske**
Vodja oddelka:
Dušan Harlander, dr.med., spec.epidemiolog


Rezultati se nanašajo izključno na preskusani vzorec. Poročilo se brez pisega dovoljenja oddelku ne sme reproducirati, razen v celoti. Ne sme se uporabljati v reklamne namene.
Vzorec je bil v času do začetka analize ustrezen hranjen. Vse dodatne informacije o opravljenem preskušanju so dostopne na oddelku.
Poročilo o kemijskem preskušanju

Vzorec: 2018/1193
Številka vzorca: 18/21730
Naloga: JP Vodovod - Kanalizacija d.o.o. - spremljanje zdravstvene ustreznosti pitne vode 420 - 20/16
Vodja naloge: Anton Škrbec, dipl.san.inž.
Naročnik: JAVNO PODJETJE VODOVOD-KANALIZACIJA D.O.O., VODOVODNA CESTA 90, 1000 Ljubljana
Delovni nalog: Narocilo 64/2018
Mesto odvzema: Vodooskrbno območje Kleče - Hrastje - Jarški prod
Stanje vzorca: Vzorec ustreza kriterijem za sprejem

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<th>Datum in ura:</th>
<th>08.03.2018 10:25</th>
<th>Datum in ura:</th>
<th>08.03.2018 13:39</th>
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<td>Odvzeli:</td>
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<td>Sprejem:</td>
<td>Boris Sodec</td>
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Rezultati preskušanja

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<th>Izražen kot/na</th>
<th>Metoda Kraj izvedbe</th>
<th>Začetek / zaključek analize</th>
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<tr>
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<td>Azoksistrobin</td>
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<td>Heksazinon</td>
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### Rezultati preskušanja

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<td>Propazin</td>
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<td>Triadimefon</td>
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<td>Fenoline snovi-sukupne</td>
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**Oddelek za kemijske analize živil, vod in drugih vzorcev okolja, Mesto Novo mesto**

Dalmatinova 3, 6000 Novo mesto; T: 07 39 44 161, F: 07 393 41 79, E: nm.cka@ntzoh.si

Nacionalni laboratorij za zdravje, okolje in hrano, Prenoviska ulica 1, 2000 Maribor

ID za DDV: SI9651226, TRR: SI060100-6000043285, BIC: BSLJSI2X, Banka Slovenije

**Stran:** 4/6

**Orbita/LIMS vers.:** 1.7.2.3

**verzija predloge poročila:** 1.2
## Rezultati preskušanja

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<th>Metoda Kraj izvedbe</th>
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<td>Trihalometani (vsota)</td>
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<td>14.03.18</td>
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<td>Vsoeta trihalometanov je vsota spojin: triklorometan, tribromometan, bromodiklorometan in dibromoklorometan.</td>
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<td>Triklooreten (triklooreten)</td>
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<td>20.03.18</td>
<td>22.03.18</td>
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<td>Deltametrin</td>
<td>&lt;0.03</td>
<td>µg/L</td>
<td>M 712/5, izdaja 2, interna metoda, NM</td>
<td>14.03.18</td>
<td>15.03.18</td>
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<tr>
<td>Prindat-M</td>
<td>&lt;0.005</td>
<td>µg/L</td>
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<td>Tebuconazol</td>
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<td>Akonifien</td>
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</table>

Podatki o meritvi negotovosti posredujemo na zahtevno naročnika.

Vodja oddelka:
Jernejka Franko, univ.dipl.inž.kem.inž.
Elektronski podpis Jernejka Franko, univ.dipl.inž.kem.inž. ob 22.03.2018 14:30:46

Rezultati se nanašajo izključno na preskušani vzorec. Poročilo se brez pisega dovoljenja oddelka ne sme reproducirati, razen v celoti. Ne sme se uporabljati v reklamne namene. Vzorec je bil v času do začetka analiza ustrezen hranjen. Vse dodatne informacije o opravljenem preskušanju so dostopne na oddelku.

Oddelek za kemijske analize živil, vod in drugih vzorcev okolja, Nova mestno
Dalmatinova 3, 8000 Novo mesto, T:07 39 34 161, F:07 393 41 79, E:em.niz@nizoh.si
Nacionalni laboratori za zdravje, okolje in hrano, Preusska ulica 1, 2000 Maribor
ID za DDV: SI19651295, TRR: SI5601100-6000043285, BIC: BSLJS12X, Banka Slovenije
Poročilo o mikrobiološkem preskušanju

Vzorec: 2018/1193
Številka vzorca: 18/21730; Lab. št.: 18/2142
Naloga: JP Vodovod - Kanalizacija d.o.o. - spremljanje zdravstvene ustreznosti pitne vode 420 - 20/16
Vodja naloge: Anton Škrbec, dipl.san.inž.
Naročnik: JAVNO PODJETJE VODOVOD-KANALIZACIJA D.O.O., VODOVODNA CESTA 90, 1000 Ljubljana
Delovni nalog: Narocilo 64/2018
Mesto odvzema: Vodooskrbeno območje Kleče - Hrastje - Jarški prod,
Stanje vzorca: Vzorec ustreza kriterijem za sprejem

Odvzem vzorca
Datum in ura: 08.03.2018 10:25
Odvzel: Andrej Povše, NLZOH OOZ Novo mesto

Rezultati preskušanja

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<tr>
<th>Parameter</th>
<th>Metoda</th>
<th>Rezultat</th>
<th>Enota</th>
<th>Začetek / zaključek analize</th>
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Analitik: Nežka Lenarčič
Odgovorna oseba: Matjaž Retelj