



## Bulletin d'analyse des échantillons: BF01523 - BF01530

Référence du Laboratoire: 2018-03-14-007-ES

Adresse destinataire

Requérant: **M. Claude NEUBERG**

Reçu le: **14/03/2018**

Début de l'analyse: **14/03/2018**

Objet de l'analyse: **contr. affluents**

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Ce rapport comporte **34** pages et ne peut être reproduit partiellement sans accord explicite du Laboratoire.

Les résultats ne se rapportent qu'aux objets soumis à l'analyse.

### Lexique:

|      |                                                       |
|------|-------------------------------------------------------|
| #    | méthode sous accréditation                            |
| §    | valeur-guide                                          |
| S    | paramètre mesuré en sous-traitance                    |
| n.d. | paramètre non déterminé suite à un problème technique |
| v.c. | voir commentaire                                      |



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112018A01</b>     | <b>SYRBACH - aval Rommelerkräiz-LB177</b>    |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01523</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>14/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>10:00</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>ensoleillé</b> |        |                     |
| Température-air                                 |      | SOP 022               | <b>5</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>26</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.6</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.7</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>145</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.6</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>98</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.4</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>2.1</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>5.1</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.06</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.05</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.01</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>18</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>22</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>10</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>12</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>5.0</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.2</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>9.6</b>        | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.03</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.2</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>5.0</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>2.2</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>2.4</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.06    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.016   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.75    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercuré                  | # | ISO 17852     | 0.005       | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.47        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | 0.0005      | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.011       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.010       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0004      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0011      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.77        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.037       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0008      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



| métaux totaux par ICP-MS |   |               |         |      |
|--------------------------|---|---------------|---------|------|
|                          | # |               |         |      |
| Silicium                 | # | ISO 17294-1/2 | 3.30    | mg/l |
| Uranium                  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium                 | # | ISO 17294-1/2 | 0.0009  | mg/l |
| Zinc                     | # | ISO 17294-1/2 | 0.005   | mg/l |

| Organique             |   |              |      |      |
|-----------------------|---|--------------|------|------|
| PESTICIDES            |   |              |      |      |
| par LCMSMS            |   |              |      |      |
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | 216        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 44         | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112010A01</b>     | <b>SÛRE - Martelange</b>                     |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01524</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>14/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>11:00</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>ensoleillé</b> |        |                     |
| Température-air                                 |      | SOP 022               | <b>6</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>17</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.9</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.8</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>138</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.3</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>98</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.4</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.8</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>4.1</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.13</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.06</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.01</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>18</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>18</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>9.2</b>        | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>9.9</b>        | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>4.0</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.3</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>9.5</b>        | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.03</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.3</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>3.9</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>2.7</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>3.3</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.016   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.08    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.023   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.44    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.42        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | 0.0005      | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.020       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.008       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0004      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0013      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.61        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.043       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0007      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.86    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0008  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.006   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 120        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112015A01</b>     | <b>BÉIWENERBAACH - Bavigne</b>               |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01525</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>14/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>09:00</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>couvert</b>    |        |                     |
| Température-air                                 |      | SOP 022               | <b>2</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>10</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>5.3</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.7</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>167</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.8</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>97</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.5</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>2.5</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>5.0</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.07</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.04</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.01</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>23</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>20</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>9.6</b>        | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>11</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>5.5</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.1</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>12</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>&lt;0.03</b>   | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.1</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>4.4</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>2.5</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>3.1</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.008   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.07    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.013   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.62    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | 0.005       | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.25        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.011       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.009       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.39        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.026       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.84    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0005  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.005   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxypop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxypop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |      |      |
|-------------------------|---|--------------|------|------|
| Mecoprop                |   | DIN 38407-35 | <25  | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25  | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | <25  | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25  | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d. | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25  | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25  | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25  | ng/l |
| Monuron                 | # | DIN 38407-35 | <25  | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d. | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25  | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25  | ng/l |
| Propachlor              |   | DIN 38407-35 | <25  | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25  | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25  | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25  | ng/l |
| Simazine                | # | DIN 38407-35 | <25  | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d. | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25  | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d. | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25  | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25  | ng/l |
| MEDICAMENTS             |   | par LCMSMS   |      |      |
| Carbamazepin            |   | DIN 38407-35 | <25  | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d. | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25  | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25  | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25  | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                                  |
|-------------------------|-----------------------|--------------------------------------------------|
| Votre référence         | <b>L112019A01</b>     | <b>FROUMICHT - Mansgröndschén-amont emb.SURE</b> |
| Nature de l'échantillon | <b>eau de surface</b> |                                                  |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                                 |
| N° échantillon          | <b>BF01526</b>        | <b>échant. hors accréditation - ponctuel</b>     |
|                         |                       | date de début des analyses <b>14/03/2018</b>     |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>10:45</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>couvert</b>    |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>30</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>7.9</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.8</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>148</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.0</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>96</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.4</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.8</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>4.9</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.25</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.09</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.06</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>15</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>29</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>14</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>12</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>4.5</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>4.1</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>9.1</b>        | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.14</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.4</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>6.5</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>2.1</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>2.7</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.017   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.012   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.52    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0004  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | 0.009       | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 1.13        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | 0.0008      | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.025       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.011       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | 0.002       | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0007      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0021      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 1.36        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.059       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0018      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.57    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0019  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.014   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | 63   | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 258        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | 26         | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | 149        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                                      |
|-------------------------|-----------------------|------------------------------------------------------|
| Votre référence         | <b>L112023A01</b>     | <b>HAMICHTERBAACH - Fuussekaul - amont emb. SURE</b> |
| Nature de l'échantillon | <b>eau de surface</b> |                                                      |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                                     |
| N° échantillon          | <b>BF01527</b>        | <b>échant. hors accréditation - ponctuel</b>         |
|                         |                       | date de début des analyses <b>14/03/2018</b>         |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>09:30</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>couvert</b>    |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>26</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.2</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.7</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>204</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.3</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>96</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.4</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>2.2</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>6.3</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>&lt;0.05</b>   | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.03</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.03</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>20</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>35</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>17</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>15</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>6.3</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>3.6</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>11</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.04</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.75</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>7.8</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.8</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>2.1</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.010   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 3.02    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.36        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.012       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.012       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0011      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.42        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.017       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0006      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.31    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0007  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 93         | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | 27         | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                                        |
|-------------------------|-----------------------|--------------------------------------------------------|
| Votre référence         | <b>L112024A01</b>     | <b>BEMICHT - Huuscht, près de Liefrange</b>            |
| Nature de l'échantillon | <b>eau de surface</b> |                                                        |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES échant. hors accréditation - ponctuel</b> |
| N° échantillon          | <b>BF01528</b>        | date de début des analyses <b>14/03/2018</b>           |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>08:15</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>couvert</b>    |        |                     |
| Température-air                                 |      | SOP 022               | <b>1</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>28</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>5.5</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>8.3</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>265</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.3</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.9</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>4.4</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>7.8</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.16</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.07</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.04</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>47</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>16</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>11</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>16</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>9.2</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>3.8</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>22</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.07</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.0</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>3.5</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>4.1</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>4.7</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.013   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.011   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0013  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.14    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.030   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.63    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.47        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.018       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.013       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0004      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0021      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.88        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.050       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0006      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.08    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0010  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                                    |                                              |
|-------------------------|-----------------------|----------------------------------------------------|----------------------------------------------|
| Votre référence         | <b>L112025A01</b>     | <b>LAANGEGRONN - Haardschleedchen-aval Bavigne</b> |                                              |
| Nature de l'échantillon | <b>eau de surface</b> |                                                    |                                              |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                                   | <b>échant. hors accréditation - ponctuel</b> |
| N° échantillon          | <b>BF01529</b>        | date de début des analyses                         | <b>14/03/2018</b>                            |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>08:30</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>couvert</b>    |        |                     |
| Température-air                                 |      | SOP 022               | <b>1</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>10</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>4.7</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.5</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>177</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.5</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.9</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>4.5</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>6.5</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.05</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.04</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.03</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>18</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>18</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>9.9</b>        | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>13</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>7.9</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>3.2</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>9.1</b>        | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>&lt;0.03</b>   | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.78</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>3.8</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>4.2</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>4.4</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.010   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.010   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0011  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.20    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.021   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.54    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.27        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.013       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.012       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0003      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0013      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.66        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.035       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.78    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0006  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112027A01</b>     | <b>BELLERBAACH - Bauscheltermillen</b>       |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>14/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01530</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>14/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>10:30</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>couvert</b>    |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>moyen</b>      |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>7.4</b>        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>7.3</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.9</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>212</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>10.8</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.6</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>3.2</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>6.9</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.43</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.20</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.24</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>22</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>32</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>23</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>19</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>5.3</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>7.3</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>15</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.28</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.7</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>7.3</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>3.1</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>3.4</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0006  | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.016   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0014  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.016   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 3.61    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0009  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | 0.011   | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.16        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | 0.0008      | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.011       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.020       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0019      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.22        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.035       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.75    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0012  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.016   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | 27   | ng/l |
| AMPA                  | # | ISO 16308    | 266  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | 97   | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 237        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | 215        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | 199        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



## Appréciation:

Echantillons prélevés par vos soins.

Les résultats ne tiennent pas compte des incertitudes de mesure. Des renseignements supplémentaires sur les méthodes d'analyse et les incertitudes sont disponibles sur simple demande.

### Informations spécifiques concernant les eaux potables:

L'appréciation concernant une eau potable se rapporte au règlement grand-ducal modifié du 7 octobre 2002 relatif à la qualité des eaux destinées à la consommation humaine.

Les résultats bactériologiques sont à interpréter selon la norme ISO 8199:

|     |                                                                |
|-----|----------------------------------------------------------------|
| <1  | : organismes non-détectés dans le volume étudié                |
| 1-3 | : organismes présents dans le volume étudié                    |
| 4-9 | : nombre estimatif d'organismes présents dans le volume étudié |

### Informations spécifiques concernant les eaux de surface:

Les normes de qualité environnementale se basent sur le règlement grand-ducal du 15 janvier 2016 relatif à l'évaluation de l'état des masses d'eau de surface et sont exprimées en valeur moyenne annuelle.

Les normes suivantes sont appliquées aux échantillonnages sous accréditation:

|             |                                                                                          |
|-------------|------------------------------------------------------------------------------------------|
| ISO 19458   | : analyses microbiologiques                                                              |
| ISO 5667-1  | : techniques d'échantillonnage                                                           |
| ISO 5667-3  | : conservation et manipulation des échantillons                                          |
| ISO 5667-5  | : échantillonnage de l'eau potable des usines de traitement et du réseau de distribution |
| ISO 5667-6  | : rivières et cours d'eau                                                                |
| ISO 5667-10 | : eaux usées                                                                             |



## Bulletin d'analyse des échantillons: BF01562 - BF01569

Référence du Laboratoire: 2018-03-15-010-ES

Adresse destinataire

Requérant: **M. Claude NEUBERG**

Reçu le: **15/03/2018**

Début de l'analyse: **15/03/2018**

Objet de l'analyse: **contr. affluents**

**Admin. de la Gestion de l'Eau**  
**c/o M. Claude NEUBERG**  
**1, avenue du Rock'n'Roll**  
**L-4361 Esch/Alzette**

**Tel : 24556-1 Fax : 24556-7362**

Ce rapport comporte **34** pages et ne peut être reproduit partiellement sans accord explicite du Laboratoire.

Les résultats ne se rapportent qu'aux objets soumis à l'analyse.

### Lexique:

|      |                                                       |
|------|-------------------------------------------------------|
| #    | méthode sous accréditation                            |
| §    | valeur-guide                                          |
| S    | paramètre mesuré en sous-traitance                    |
| n.d. | paramètre non déterminé suite à un problème technique |
| v.c. | voir commentaire                                      |



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112010A03-7</b>   | <b>SURE - pont Misère - Feschleeder</b>      |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01562</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>15/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>10:30</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>variable</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>15</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.1</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.6</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>143</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.0</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.4</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>2.0</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>4.9</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.06</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.05</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.01</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>19</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>21</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>11</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>12</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>4.5</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.2</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>10</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.03</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.5</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>4.6</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>2.6</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>3.1</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.016   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.006   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.06    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.027   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.41    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | 0.006   | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.29        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.020       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.008       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.43        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.039       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.85    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0007  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.008   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxypop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxypop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 113        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112013A01</b>     | <b>DIRBECH - amont Grondmillen</b>           |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01563</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>15/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>08:00</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>variable</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>3</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>14</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.3</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>8.3</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>193</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>9.9</b>        | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>92</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.3</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.3</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>6.1</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>&lt;0.05</b>   | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.01</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.01</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>25</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>47</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>13</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>14</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>6.4</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.5</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>13</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>&lt;0.03</b>   | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.81</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>11</b>         | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.5</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>1.9</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.018   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.008   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.48    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.29        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.023       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.010       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.35        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.018       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.86    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0006  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.005   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | 35   | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 466        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | 96         | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | 50         | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | 63         | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                                          |
|-------------------------|-----------------------|----------------------------------------------------------|
| Votre référence         | <b>L112014A02</b>     | <b>NINGSERBAACH - Schéimelzerbesch - aval Neunhausen</b> |
| Nature de l'échantillon | <b>eau de surface</b> |                                                          |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                                         |
| N° échantillon          | <b>BF01564</b>        | <b>échant. hors accréditation - ponctuel</b>             |
|                         |                       | date de début des analyses <b>15/03/2018</b>             |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>08:40</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>variable</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>3</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>23</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>5.7</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.7</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>186</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.3</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>96</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.3</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.3</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>6.1</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>&lt;0.05</b>   | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.03</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.02</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>25</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>44</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>13</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>14</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>6.4</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.6</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>13</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.03</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.84</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>10</b>         | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.7</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>1.9</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.016   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.38    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | 0.005   | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.54        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.020       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.009       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | 0.001       | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0003      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.66        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.024       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0006      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.02    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0009  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.008   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | 38   | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxypop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxypop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 325        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | 65         | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | 29         | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | 46         | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112020A01</b>     | <b>SCHWAERZERBAACH - amont emb. SURE</b>     |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01565</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>15/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>09:40</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>variable</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>3</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>18</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.1</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.5</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>135</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.0</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.2</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.1</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>4.5</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>&lt;0.05</b>   | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.01</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>&lt;0.01</b>   | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>18</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>24</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>12</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>&lt;10</b>     | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>4.9</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>&lt;2</b>      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>11</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>&lt;0.03</b>   | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.70</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>5.5</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.5</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>1.9</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.006   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.46    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.36        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.008       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.009       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.40        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.017       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0005      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.96    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0006  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 175        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112021A01</b>     | <b>BILDREFERBAACH - Neimillen</b>            |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01566</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>15/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>10:00</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>pluvieux</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>17</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.7</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.7</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>177</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.0</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>96</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.3</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.6</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>5.7</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.05</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.05</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.06</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>17</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>40</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>15</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>14</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>5.4</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>4.9</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>10</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.08</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.78</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>9.4</b>        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.9</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>2.3</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.011   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.44    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.30        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.014       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.012       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0003      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0011      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.38        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.021       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | 0.0006      | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.85    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0008  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.007   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 84         | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | 26         | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                |                                       |                                       |  |
|-------------------------|----------------|---------------------------------------|---------------------------------------|--|
| Votre référence         | L112022A01     |                                       | BAUSCHELBAACH - amont embouchure SURE |  |
| Nature de l'échantillon | eau de surface |                                       |                                       |  |
| prélevé le              | 15/03/2018     | par SEBES                             | échant. hors accréditation - ponctuel |  |
| N° échantillon          | BF01567        | date de début des analyses 15/03/2018 |                                       |  |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>10:20</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>pluvieux</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>20</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>7.0</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.6</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>246</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.0</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.4</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.8</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>8.0</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>0.26</b>       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.14</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.08</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>31</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>50</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>21</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>19</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>7.8</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>4.7</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>17</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>0.10</b>       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>1.0</b>        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>12</b>         | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>2.2</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>2.6</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.013   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.012   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.85    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0005  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | 0.007   | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.31        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.017       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.015       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0011      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.34        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.017       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.29    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0009  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.009   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | <25  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 194        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | 70         | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | 65         | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112029A01</b>     | <b>BURBICH - Arsdorf</b>                     |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01568</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>15/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>09:10</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>variable</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>4</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>13</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>5.6</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.7</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>245</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>11.1</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.3</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.6</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>7.0</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>&lt;0.05</b>   | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.02</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>0.01</b>       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>39</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>44</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>15</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>16</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>7.3</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>3.6</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>20</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>&lt;0.03</b>   | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.80</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>10</b>         | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.1</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>2.1</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.022   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.009   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.010   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.04    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercuré                  | # | ISO 17852     | 0.006       | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.33        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.025       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.011       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.46        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.023       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.44    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0006  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | 100  | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 636        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | 106        | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | 59         | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 06/04/2018 par MB



|                         |                       |                                              |
|-------------------------|-----------------------|----------------------------------------------|
| Votre référence         | <b>L112030A01</b>     | <b>MECHELBAACH - Neunhausen</b>              |
| Nature de l'échantillon | <b>eau de surface</b> |                                              |
| prélevé le              | <b>15/03/2018</b>     | <b>par SEBES</b>                             |
| N° échantillon          | <b>BF01569</b>        | <b>échant. hors accréditation - ponctuel</b> |
|                         |                       | date de début des analyses <b>15/03/2018</b> |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT          | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|-------------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |                   |        |                     |
| Heure du prélèvement                            |      |                       | <b>08:20</b>      | hh:mm  |                     |
| Météo                                           |      |                       | <b>variable</b>   |        |                     |
| Température-air                                 |      | SOP 022               | <b>3</b>          | °C     |                     |
| Aspect de l'échantillon                         |      |                       | <b>+/- propre</b> |        |                     |
| Débit de la rivière (visuel)                    |      |                       | <b>fort</b>       |        |                     |
| Turbidité                                       |      | ISO 7027              | <b>15</b>         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | <b>6.1</b>        | °C     |                     |
| pH                                              |      | ISO 10523             | <b>7.9</b>        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | <b>188</b>        | µS/cm  |                     |
| Oxygène dissous                                 |      | ISO 17289             | <b>10.9</b>       | mg/l   |                     |
| Saturation en oxygène                           |      | ISO 17289             | <b>95</b>         | %      |                     |
| <b>Physico-Chimie</b>                           |      |                       |                   |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | <b>0.2</b>        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | <b>1.1</b>        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | <b>6.1</b>        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <b>&lt;0.05</b>   | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | <b>0.01</b>       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | <b>&lt;0.01</b>   | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | <b>23</b>         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | <b>46</b>         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | <b>13</b>         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | <b>14</b>         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | <b>6.4</b>        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | <b>2.4</b>        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | <b>12</b>         | mg/l   |                     |
| Phosph. total (digest. ISO15587-2)              | #    | ISO 17294-1/2         | <b>&lt;0.03</b>   | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <b>0.78</b>       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | <b>11</b>         | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | <b>1.5</b>        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | <b>1.8</b>        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.025   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.008   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0012  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 2.29    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.34        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.029       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.009       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | 0.0020      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.37        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.017       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.68    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0007  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.006   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |   |              |      |      |
|-----------------------|---|--------------|------|------|
| 2,4-D                 |   | DIN 38407-35 | <25  | ng/l |
| 2,6-Dichlorobenzamide | # | DIN 38407-35 | 65   | ng/l |
| AMPA                  | # | ISO 16308    | <25  | ng/l |
| Atrazine              | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-2-hydroxy    | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desethyl     | # | DIN 38407-35 | <25  | ng/l |
| Atrazine-desisopropyl |   | DIN 38407-35 | <25  | ng/l |
| Azoxystrobin          |   | DIN 38407-35 | <25  | ng/l |
| Bentazone             |   | DIN 38407-35 | <25  | ng/l |
| Chloridazon           |   | DIN 38407-35 | <25  | ng/l |
| Chlorotoluron         |   | DIN 38407-35 | <25  | ng/l |
| Cyanazine             | # | DIN 38407-35 | <25  | ng/l |
| Diflufenican          |   | DIN 38407-35 | <25  | ng/l |
| Dimethenamid          | # | DIN 38407-35 | <25  | ng/l |
| Dimethoate            |   | DIN 38407-35 | <25  | ng/l |
| Diuron                |   | DIN 38407-35 | <25  | ng/l |
| Epoxyconazole         |   | DIN 38407-35 | <25  | ng/l |
| Fluazifop-P           |   | DIN 38407-35 | <25  | ng/l |
| Flufenacet            |   | DIN 38407-35 | <25  | ng/l |
| Flurtamone            | # | DIN 38407-35 | <25  | ng/l |
| Flusilazole           |   | DIN 38407-35 | <25  | ng/l |
| Foramsulfuron         |   | DIN 38407-35 | n.d. | ng/l |
| Glufosinate           | # | ISO 16308    | <25  | ng/l |
| Glyphosate            | # | ISO 16308    | <25  | ng/l |
| Haloxyfop             |   | DIN 38407-35 | <25  | ng/l |
| Haloxyfop-methyl      |   | DIN 38407-35 | <25  | ng/l |
| Isoproturon           | # | DIN 38407-35 | <25  | ng/l |
| Isoxaben              |   | DIN 38407-35 | <25  | ng/l |
| Linuron               |   | DIN 38407-35 | <25  | ng/l |
| MCPA                  |   | DIN 38407-35 | <25  | ng/l |



|                         |   |              |            |      |
|-------------------------|---|--------------|------------|------|
| Mecoprop                |   | DIN 38407-35 | <25        | ng/l |
| Metazachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA         |   | DIN 38407-35 | 304        | ng/l |
| Metazachlor-OXA         |   | DIN 38407-35 | 71         | ng/l |
| Methsulfuron-methyl     |   | DIN 38407-35 | n.d.       | ng/l |
| Metolachlor             | # | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA         |   | DIN 38407-35 | 31         | ng/l |
| Metolachlor-OXA         |   | DIN 38407-35 | <25        | ng/l |
| Monuron                 | # | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron            |   | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid              | # | DIN 38407-35 | <25        | ng/l |
| Prochloraz              |   | DIN 38407-35 | <25        | ng/l |
| Propachlor              |   | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb            |   | DIN 38407-35 | <25        | ng/l |
| Quinmerac               | # | DIN 38407-35 | <25        | ng/l |
| Quinoxifen              |   | DIN 38407-35 | <25        | ng/l |
| Simazine                | # | DIN 38407-35 | <25        | ng/l |
| Sulcotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole            |   | DIN 38407-35 | <25        | ng/l |
| Tembotrione             |   | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine          | # | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl | # | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS             |   |              | par LCMSMS |      |
| Carbamazepin            |   | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)  |   | DIN 38407-35 | n.d.       | ng/l |
| Ibuprofen               |   | DIN 38407-35 | <25        | ng/l |
| Ketoprofen              | # | DIN 38407-35 | <25        | ng/l |
| Lidocaine               |   | DIN 38407-35 | <25        | ng/l |

Observations : Néant

Résultats validés le 29/03/2018 par JH



## Appréciation:

Echantillons prélevés par vos soins.

Les résultats ne tiennent pas compte des incertitudes de mesure. Des renseignements supplémentaires sur les méthodes d'analyse et les incertitudes sont disponibles sur simple demande.

### Informations spécifiques concernant les eaux potables:

L'appréciation concernant une eau potable se rapporte au règlement grand-ducal modifié du 7 octobre 2002 relatif à la qualité des eaux destinées à la consommation humaine.

Les résultats bactériologiques sont à interpréter selon la norme ISO 8199:

|     |                                                                |
|-----|----------------------------------------------------------------|
| <1  | : organismes non-détectés dans le volume étudié                |
| 1-3 | : organismes présents dans le volume étudié                    |
| 4-9 | : nombre estimatif d'organismes présents dans le volume étudié |

### Informations spécifiques concernant les eaux de surface:

Les normes de qualité environnementale se basent sur le règlement grand-ducal du 15 janvier 2016 relatif à l'évaluation de l'état des masses d'eau de surface et sont exprimées en valeur moyenne annuelle.

Les normes suivantes sont appliquées aux échantillonnages sous accréditation:

|             |                                                                                          |
|-------------|------------------------------------------------------------------------------------------|
| ISO 19458   | : analyses microbiologiques                                                              |
| ISO 5667-1  | : techniques d'échantillonnage                                                           |
| ISO 5667-3  | : conservation et manipulation des échantillons                                          |
| ISO 5667-5  | : échantillonnage de l'eau potable des usines de traitement et du réseau de distribution |
| ISO 5667-6  | : rivières et cours d'eau                                                                |
| ISO 5667-10 | : eaux usées                                                                             |