



**RelyOn Nutec Denmark A/S**  
**Uglviggårdsvej 3**  
**6705 Esbjerg Ø**  
**Att.: Rene Petersen**

**Report code:** AR-20-CA-00959172-01  
**Batch code:** EUDKVE-00959172  
**Client code:** CA0000723  
**Received on:** 02.06.2020

## Analytical Report

**Sample type:** Waste water  
**Sampling Point:** RelyOn Nutec, spildevand - / 20001561  
**Sampler:** Eurofins Miljø Vand A/S SVT  
**Sampling:** 02.06.2020 . 13:15  
**Test period:** 02.06.2020 - 17.06.2020

### Sample description:

Lab sample No.:	835-2014-80210378	Unit	LOQ	Method	Urel (%)
1,2,3,4,6,7,8-HeptaCDD	< 1.56	pg/l	1.6	Internal GC-HRMS	A
OctaCDD	< 11.0	pg/l	12	Internal GC-HRMS	A
2,3,7,8-TetraCDF	< 1.22	pg/l	1.3	Internal GC-HRMS	A
1,2,3,7,8-PentaCDF	< 1.64	pg/l	1.7	Internal GC-HRMS	A
2,3,4,7,8-PentaCDF	< 1.64	pg/l	1.7	Internal GC-HRMS	A
1,2,3,4,7,8-HexaCDF	< 1.52	pg/l	1.6	Internal GC-HRMS	A
1,2,3,6,7,8-HexaCDF	< 1.52	pg/l	1.6	Internal GC-HRMS	A
1,2,3,7,8,9-HexaCDF	< 1.52	pg/l	1.6	Internal GC-HRMS	A
2,3,4,6,7,8-HexaCDF	< 1.52	pg/l	1.6	Internal GC-HRMS	A
1,2,3,4,6,7,8-HeptaCDF	< 1.45	pg/l	1.5	Internal GC-HRMS	A
1,2,3,4,7,8,9-HeptaCDF	< 1.45	pg/l	1.5	Internal GC-HRMS	A
OctaCDF	< 3.05	pg/l	3.2	Internal GC-HRMS	A
WHO(2005)-PCDD/F TEQ (lower-bound)	ND	pg/l		Internal GC-HRMS	A
WHO(2005)-PCDD/F TEQ (upper-bound)	3.47	pg/l	3.6	Internal GC-HRMS	A
I-TEQ (NATO/CCMS) (lower-bound)	ND	pg/l		Internal GC-HRMS	A
I-TEQ (NATO/CCMS) (upper-bound)	3.38	pg/l		Internal GC-HRMS	A
<b>PFAS-compounds</b>					
PFBA (Perfluorobutanoic acid)	0.47	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFBS (Perfluorobutanesulfonic acid)	0.023	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFPeA (Perfluoropentanoic acid)	2.1	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFHxA (Perfluorohexanoic acid)	3.0	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFHxS (Perfluorohexanesulfonic acid)	0.55	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFHpA (Perfluoroheptanoic acid)	1.2	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFOA (Perfluorooctanoic acid)	0.36	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFOS (Perfluorooctanesulfonic acid)	3.0	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40

### Legend:

<: less than  
>: greater than  
#: none of the parameters are detected  
LOQ Limit of quantification

\*) Not included in the accreditation  
n.d: not detected  
NM: non-measurable  
‡): subcontractors

Urel (%): The expanded relative measurement uncertainty, with a coverage factor 2. For results at the level of detection limit the uncertainty might be higher than reported.

°): Uncertainties of microbiological parameters are given as a logarithmical standard deviation

The test results relate only to the items tested.

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### Sample description:

Lab sample No.:	835-2014-80210378	Unit	LOQ	Method	Urel (%)
6:2 FTS (Fluorotelomer sulfonate)	36	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFOSA (Perfluorooctanesulfonamide)	<0.001	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFNA (Perfluorononanoic acid)	0.044	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFDA (Perfluorodecanoic acid)	0.014	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
Sum of PFAS	47	µg/l	0	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B

### Information from sampler

Sampling method	Spot test		ISO 5667-10:1992:2007	C
Water temperature	12.2	°C	ISO 5667-10:1992:2007	C
pH	7.6	pH	ISO 10523	C

### Subcontractors:

A: Eurofins GfA Lab Service GmbH (Hamburg) (DIN EN ISO/IEC 17025:2005 D-PL-14629-01-00)  
B: Eurofins Food & Feed Testing Sweden (Lidköping)  
C: Eurofins Environment Water A/S (DS EN ISO/IEC 17025 DANAK 555)

### 835-2014-80210378 Sample comment:

Som standardrutine bliver alle prøver til totalkulbrinter på FID og/eller kulbrinter på GC-MS dekanteret inden analyse. Sum af xylener er summen af resultaterne for Ethylbenzen, m+p-Xylen og o-Xylen.

### Batch comments:


Detektionsgrænsen for PFAS er hævet pga højt niveau af PFAS i prøven

### Copy to:

DIN Forsyning Spildevand A/S , Kopimodtager, spildevand, Ulvsundvej 1, 6715 Esbjerg N  
Esbjerg Kommune , miljo@esbjergkommune.dk, Torvegade 74, 6700 Esbjerg

17.06.2020

Customer center  
Tel 70224266

  
Lisa Lasota  
Costumer Advisor

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