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DANAK TEST Reg.nr. 401

ANALYSERAPPORT 344780

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Genereret: 17.03.2019
Bilag:

Torsted Vandværk
Lokesalle 3
8700 Horsens

LAB nr:	19-04607, Prøve nr. 392068	**Prøvetager:**	MBS, AnalyTech Miljølaboratorium A/S
Prøvemærkning:	Flygtige org. klorforbindelser, Aromater, MTBE	**Prøvetagningsmetode:**	M-0061 DS/ISO 5667
Prøvetype:	Råvandskontrol - VOC-kontrol	**Prøvetagningsperiode:**	05.03.2019 10:00 - 05.03.2019 10:20
Prøvested:	Torsted Vandværk DGU 107.1220	**Prøvetagningssted:**	DGU 107.1220
Grænseværdier:	Miljøministeriet, BEK nr. 1068 d. 23.08.2018	**Analyseperiode:**	05.03.2019 - 17.03.2019

Analyseparameter	Resultat	Min	Max	Udenfor	D.L.	Metode/Reference	+/-
Chloroform	**<0.02** µg/L	-	1		0.02	M-0131 GC-MS	20%
Dichlormethan	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
1.2-Dichlorethan	**<0.02** µg/L	-	1		0.02	M-0131 GC-MS	20%
Trichlorethen	**<0.02** µg/L	-	1		0.02	M-0131 GC-MS	20%
Tetrachlorethen	**<0.02** µg/L	-	1		0.02	M-0131 GC-MS	20%
1.1-Dichlorethylen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
Cis-1.2-Dichlorethen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
Trans-1.2-Dichlorethen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
Trihalomethan	**<0.02** µg/L	-	25		0.02	M-0131 GC-MS	20%
1.1.1-Trichlorethan	**<0.02** µg/L	-	1		0.02	M-0131 GC-MS	20%
1.1.2-Trichlorethan	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
1.1.1.2-Tetrachlorethan	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
1.1.2.2-Tetrachlorethan	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
Benzen	**<0.02** µg/L	-	1		0.02	M-0131 GC-MS	20%
Toluen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
Ethylbenzen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
o-xylen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
m+p-xylen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
Napthalen	**<0.02** µg/L	-	-		0.02	M-0131 GC-MS	20%
MTBE (Methyl tert-butyl ether)	**<0.02** µg/L	-	5		0.02	M-0131 GC-MS	20%

Bemærkninger:
Der er ikke fastsat krav til råvand. Grænseværdier for forbrugers taphane er vist til orientering.

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LAB nr:	19-04608, Prøve nr. 392069	**Prøvetager:**	MBS, AnalyTech Miljølaboratorium A/S
Prøvemærkning:	PFAS + PAH	**Prøvetagningsmetode:**	M-0061 DS/ISO 5667
Prøvetype:	Råvandskontrol - PFAS, PAH og PCP	**Prøvetagningsperiode:**	05.03.2019 10:00 - 05.03.2019 10:20
Prøvested:	Torsted Vandværk DGU 107.1220	**Prøvetagningssted:**	DGU 107.1220
Grænseværdier:	Miljøministeriet, BEK nr. 1068 d. 23.08.2018	**Analyseperiode:**	05.03.2019 - 17.03.2019

Analyseparameter	Resultat		Min	Max	Udenfor	D.L.	Metode/Reference	+/-
Perfluoroktansyre (PFOA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorktansulfonat (PFOS)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorbutansulfonat (PFBS)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorheptansyre (PFHpA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorhexansulfonat (PFHxS)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorhexansyre (PFHxA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluornonansyre (PFNA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluoroktansulfonamid (PFOSA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorbutansyre (PFBA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluorpentansyre (PFPeA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
Perfluordecansyre (PFDA)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
6:2 fluortelomersulfonsyre (6:2 FTS)	**<0.001**	µg/L	-	-		0.001	LC-MS/MS	30%
PFAS Sum (12)	**<0.001**	µg/L	-	0.1		0.001	LC-MS/MS	30%
Fluoranthen	**<0.001**	µg/L	-	0.1		0.001	M-0207 RefM060/GC-MS	30%
Benz(a)pyren	**<0.001**	µg/L	-	0.01		0.001	M-0207 RefM060/GC-MS	30%
Benz(ghi)perylen	**<0.001**	µg/L	-	-		0.001	M-0207 RefM060/GC-MS	30%
Indeno(1.2.3-cd)pyren	**<0.001**	µg/L	-	-		0.001	M-0207 RefM060/GC-MS	30%
Benz(b+j+k)fluoranthen	**<0.002**	µg/L	-	-		0.002	M-0207 RefM060/GC-MS	30%
PAH Sum(5)	**Ej påvist**	µg/L	-	-			M-0207 RefM060/GC-MS	30%

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LAB nr:	19-04609, Prøve nr. 392071	**Prøvetager:**	MBS, AnalyTech Miljølaboratorium A/S
Prøvemærkning:		**Prøvetagningsmetode:**	M-0061 DS/ISO 5667
Prøvetype:	Råvandskontrol - Boringskontrol	**Prøvetagningsperiode:**	05.03.2019 10:00 - 05.03.2019 10:20
Prøvested:	Torsted Vandværk DGU 107.1220	**Prøvetagningssted:**	DGU 107.1220
Grænseværdier:	Miljøministeriet, BEK nr. 1068 d. 23.08.2018	**Analyseperiode:**	05.03.2019 - 17.03.2019

Analyseparameter	Resultat		Min	Max	Udenfor	D.L.	Metode/Reference	+/-
Temperatur	**8.4**	°C	-	-		0.1	TERMOMETER	10%
pH	**7.2**	pH	7	8.5		0.05	M-0010 DS 287	10%
Ledningsevne	**58**	mS/m	-	250		0.5	M-0009 DS 288	10%
Ilt	**0.1**	mg/L	5	-	**MIN**	0.1	M-0064 DS/EN 25814	10%
NVOC	**2.0**	mg/L	-	4		0.1	M-0097 DS/EN 1484	10%
Calcium	**89.6**	mg/L	-	200		0.007	M-0139 RefM018/ICP	10%
Magnesium	**9.88**	mg/L	-	50		0.001	M-0139 RefM018/ICP	10%
Hårdhed	**14.8**	°dH	5	30		0.05	Beregning	10%
Natrium	**19.2**	mg/L	-	175		0.06	M-0139 RefM018/ICP	10%
Kalium	**2.21**	mg/L	-	10		0.05	M-0139 RefM018/ICP	10%
Ammonium	**0.30**	mg/L	-	0.05	**MAX**	0.02	M-0014 DS 224	10%
Jern	**1.52**	mg/L	-	0.2	**MAX**	0.002	M-0139 RefM018/ICP	10%
Mangan	**0.188**	mg/L	-	0.05	**MAX**	0.001	M-0139 RefM018/ICP	10%
Bicarbonat HCO3	**280**	mg/L	100	-		0.5	M-0006 DS 256	10%
Klorid	**31**	mg/L	-	250		0.5	M-0018.DS/ENISO10304	10%
Sulfat	**41**	mg/L	-	250		0.5	M-0018 DS/ENISO10304	10%
Nitrat	**<0.5**	mg/L	-	50		0.5	M-0018 DS/ENISO10304	10%
Nitrit	**0.007**	mg/L	-	0.1		0.001	M-0015 DS 222	10%
Total-P	**0.09**	mg/L	-	0.15		0.01	M-0020 DS 292	10%
Fluorid	**0.23**	mg/L	-	1.5		0.05	M-0018 DS/ENISO10304	10%
Aggressiv CO2	**3**	mg/L	-	2	**MAX**	2	M-0004 DS 236	10%
Arsen	**12.8**	µg/L	-	5	**MAX**	0.02	M-0140 RefM018/ICP-MS	10%
Barium	**263**	µg/L	-	700		1	M-0140 RefM018/ICP-MS	10%
Bor	**0.09**	mg/L	-	1		0.01	M-0140 RefM018/ICP-MS	10%
Nikkel	**<0.03**	µg/L	-	20		0.03	M-0140 RefM018/ICP-MS	10%
Cobalt	**<0.05**	µg/L	-	5		0.05	M-0140 RefM018/ICP-MS	10%
Ekstra analyser			-	-			-	-
Methan	**<0.01**	mg/L	-	0.01		0.01	M-0112 Ref. Lab M063 - GC-FID	10%
Svovlbrinte	**0.02**	mg/L	-	0.05		0.01	M-0098 DS 278:1976	10%
Bly	**<0.03**	µg/L	-	5		0.03	M-0140 RefM018/ICP-MS	10%

Bemærkninger:
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LAB nr:	19-04610, Prøve nr. 392072	**Prøvetager:**	MBS, AnalyTech Miljølaboratorium A/S
Prøvemærkning:		**Prøvetagningsmetode:**	M-0061 DS/ISO 5667
Prøvetype:	Råvandskontrol - Pesticidkontrol	**Prøvetagningsperiode:**	05.03.2019 10:00 - 05.03.2019 10:20
Prøvested:	Torsted Vandværk DGU 107.1220	**Prøvetagningssted:**	DGU 107.1220
Grænseværdier:	Miljøministeriet, BEK nr. 1068 d. 23.08.2018	**Analyseperiode:**	05.03.2019 - 17.03.2019

Analyseparameter	Resultat		Min	Max	Udenfor	D.L.	Metode/Reference	+/-
2.4 D	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	10%
Atrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Bentazon	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	10%
Dichlobenil	**<0.01**	µg/L	-	0.1		0.01	M-0100 GC-MS	10%
Dichlorprop	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	10%
Diuron	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
ETU (Ethylenthiourea)	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Glyphosat	**<0.01**	µg/L	-	0.1		0.01	M-0166 LC-MS-MS	20%
Hexazinon	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	10%
MCPA	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Mechlorprop	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Metribuzin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Simazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	10%
2.6-Dichlorbenzosyre	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
2.4-Dichlorphenol	**<0.01**	µg/L	-	0.1		0.01	M-0100 LC-MS	15%
2.6-Dichlorphenol	**<0.01**	µg/L	-	0.1		0.01	M-0100 LC-MS	10%
4-CPP	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
2.6-DCPP	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
4-nitrophenol	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
AMPA	**<0.01**	µg/L	-	0.1		0.01	M-0166 LC-MS-MS	20%
BAM (2.6-dichlorbenzamid)	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	10%
Desethyldesisopropylatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Desethylhydroxyatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Desethylatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Desethylterbutylazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Desisopropylatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Desisopropylhydroxyatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Didealkylhydroxyatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Hydroxyatrazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Hydroxysimazin	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	15%
Metribuzin-desamino-deketo	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Metribuzin-diketo	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Metribuzin-desamino	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Metalaxyl/Metalaxyl-M	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
CGA62826	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
CGA108906	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Chloridazon	**<0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Desphenyl-chloridazon	**0.06**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Methyl-desphenyl-chloridazon	**0.01**	µg/L	-	0.1		0.01	M-0165 LC-MS-MS	20%
Aldrin	**<0.01**	µg/L	-	0.03		0.01	*M-0208 GC-MS	30%
Dieldrin	**<0.01**	µg/L	-	0.03		0.01	*M-0208 GC-MS	30%
Heptachlor	**<0.01**	µg/L	-	0.03		0.01	*M-0208 GC-MS	30%
Heptachlorepoxid (sum af cis+trans)	**<0.01**	µg/L	-	0.03		0.01	*M-0208 GC-MS	30%
1.2.4-Triazol	**<0.01**	µg/L	-	0.1		0.01	*LC-MS/MS	20%
N,N-Dimethylsulfamid (DMS)	**<0.01**	µg/L	-	0.1		0.01	LC-MS/MS	30%

Bemærkninger:
Der er ikke fastsat krav til råvand. Grænseværdier for forbrugers taphane er vist til orientering.

Rekvirent: Torsted Vandværk
Kopi: Danmarks Miljøportal, Sundhedsstyrelsen Nord, Horsens Kommune

Nørresundby d. 17.03.2019

Sven-Erik Lykke, laboratoriechef

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