



ALS Denmark A/S  
Bakkegårdsvej 406 A  
DK-3050 Humlebæk  
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## ANALYSERAPPORT

Ølsted Strand Vandværk  
Frederikssundsvej 167  
3310 Ølsted  
Att.: Henriette Høeg, PersonRef. Henriette Høeg

**Udskrevet:** 08-07-2020  
**Version:** 1  
**Modtaget:** 17-06-2020  
**Analyseperiode:** 17-06-2020 - 08-07-2020  
**Ordrenr.:** 575619

**Sagsnavn** Ølsted Strand vv  
**Lokalitet:** Ølsted Strand Vandværk  
**Prøvested:** Kildehøjvej 44, 3310 Ølsted  
**Udtaget:** 17.06.2020 kl. 10:08:00  
**Prøvetype:** Drikkevand - Bek. 1070:2019, Hovedbestanddele  
**Prøvetager:** LAB/SKN  
**Kunde:** Ølsted Strand Vandværk, Frederikssundsvej 167, 3310 Ølsted, Att. Henriette Høeg, PersonRef. Henriette Høeg

Parameter	Resultat	Enhed	Metode	Grænseværdi	Forbruger taphane jvf BEK 1070:2019
Prøvenr.:	114663/20				
Partikler i prøve efter konservering	#	Nej	-	-	
Prøvetagning, Ledningsnet (m. flush)		+	- DS/EN ISO 19458:2006+MST Manual Ptag 4.udg.2017		
Chlorite	*1	<10	µg/l	CZ SOP D06 02 098	50 µg/l
Enterokokker		<1	cfu/100 ml	DS/EN ISO 7899-2:2000	<1
Fluorid, F-		0.48	mg/l	DS/EN ISO 10304-1:2009	1.5 mg/l
Mangan, Mn		<0.001	mg/l	DS/EN ISO 11885:2009	0.05 mg/l
Natrium, Na+		120	mg/l	DS/EN ISO 11885:2009	175 mg/l
Ammonium+ammoniak, NH4+		0.009	mg/l	SM 17udg. 4500-NH3	0.05 mg/l
Nitrit, NO2-		0.0017	mg/l	DS/ISO 15923-1:2013	0.1 mg/l
Nitrat, NO3-		1.9	mg/l	DS/ISO 15923-1:2013 + beregning	50 mg/l
Chlorid, Cl-		35	mg/l	DS/ISO 15923-1:2013	
Sulfat, SO4--		39	mg/l	DS/ISO 15923-1:2013	250 mg/l
NVOC		1.9	mg/l	DS/EN 1484:1997+SM 5310B:2014	4 mg/l
Chlorat	*1	<10	µg/l	CZ SOP D06 02 098	50 µg/l
Bromat	*1	<5.0	µg/l	CZ SOP D06 02 098	10 µg/l
Cyanid CN, total		<1.0	µg/l	DS/EN ISO 14403-2:2012	50 µg/l
Aluminium, Al		1.0	µg/l	DS/EN ISO 17294-2:2016	200 µl
Antimon, Sb		<0.20	µg/l	DS/EN ISO 17294-2:2016	5 µl
Arsen, As		0.18	µg/l	DS/EN ISO 17294-2:2016	5 µl
Bly, Pb		0.55	µg/l	DS/EN ISO 17294-2:2016	5 µl
Bor, B		80	µg/l	DS/EN ISO 11885:2009	1000 µg/l
Cadmium, Cd		<0.0030	µg/l	DS/EN ISO 17294-2:2016	3 µl
Chrom, Cr		0.047	µg/l	DS/EN ISO 17294-2:2016	50 µg/l
Kobolt, Co		<0.010	µg/l	DS/EN ISO 17294-2:2016	
Kobber, Cu		14	µg/l	DS/EN ISO 17294-2:2016	2000 µg/l
Kviksølv, Hg	*2	<0.002	µg/l	SS EN ISO 17852:2008	1 µl
Nikkel, Ni		0.27	µg/l	DS/EN ISO 17294-2:2016	20 µg/l
Selen, Se		<0.050	µg/l	DS/EN ISO 17294-2:2016	10 µl
Zink, Zn		12	µg/l	DS/EN ISO 17294-2:2016	3000 µg/l
<b>HS drikkevand</b>		-	-	DS/EN ISO 10301:2000	
<b>HS chlorerede DRV TILLÆG</b>		-	-	DS/EN ISO 10301:2000	
Benzen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l
<b>PAH'er vandforsyning, 6 komp.</b>		-	-	SM 6440B, 2017	
Fluoranthen		<0.010	µg/l	SM 6440B, 2017	0.1 µl
Benzo(b+j+k)fluoranthener		<0.010	µg/l	SM 6440B, 2017	
Benz(a)pyren		<0.0050	µg/l	SM 6440B, 2017	0.01 µl
Indeno(1,2,3-cd)pyren		<0.010	µg/l	SM 6440B, 2017	
Benzo(ghi)perylen		<0.010	µg/l	SM 6440B, 2017	
PAH, sum (4 komp. jf. bek. 1070, 2019) #		<0.1	µg/l	SM 6440B, 2017	0.1 µl

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PAH, sum (MST - 6 komp.)	#	i.p.	µg/l	SM 6440B, 2017	
<b>HS chlor. nedbryd.</b>			-	DS/EN ISO 10301:2000	
Trichlormethan (Chloroform)	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
1,1,1-trichlorethan	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
1,1,2-trichlorethan	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
Trichlorethylen	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
Tetrachlorethylen	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
1,1,2,2-tetrachlorethan	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
1,1,1,2-tetrachlorethan	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
Vinylchlorid	<0.020	µg/l		DS/EN ISO 10301:2000	0.5 µl
1,1-dichlorethylen	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
trans-1,2-dichlorethylen	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
cis-1,2-dichlorethylen	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
1,2-dichlorethan	<0.020	µg/l		DS/EN ISO 10301:2000	1 µg/l
Dichlormethan	<0.10	µg/l		DS/EN ISO 10301:2000	1 µg/l
Epichlorhydrin	*1	<0.10	µg/l	Underleverandør - GC/MS	0.1 µl
2,4-dichlorphenol	<0.010	µg/l		AK158 - GC/MS	0.1 µg/l
2,6-dichlorphenol	<0.010	µg/l		AK158 - GC/MS	0.1 µg/l
Acrylamid	*1	<0.050	µg/l	Underleverandør - LC/MS/MS	0.1 µl
					Anvendelse af kemikalier med indhold heraf bør undgås til vandbehandling
<b>Pesticider, Kartoffelavl</b>			-	-- GC/LC/MS	
<b>Pesticider, Drikkevand grundpakke</b>			-	-- GC/LC/MS	
<b>Pesticider, vand 4 stoffer</b>			-	-- GC/MS	
1,2,4-triazol	<0.010	µg/l		AK207 - LC/MS/MS	0.1 µg/l
2,6-Dichlorprop (2,6-DCPP)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
2,6-dichlorbenzoesyre	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
4-CPP, (4-Chlorprop)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Aminomethylphosphonsyre, AMPA	<0.010	µg/l		AK144 - LC/MS/MS	0.1 µg/l
Atrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
2,6-Dichlorbenzamid (BAM)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Bentazon	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
<b>Pesticider, Frugtavl (Diuron)</b>			-	AK78 - LC/MS/MS	
Heptachlor	<0.010	µg/l		AK158 - GC/MS	0.03 µl
Aldrin	<0.010	µg/l		AK158 - GC/MS	0.03 µl
Heptachlorepoxyd	<0.010	µg/l		AK158 - GC/MS	0.03 µl
Dieldrin	<0.010	µg/l		AK158 - GC/MS	0.03 µl
Pentachlorphenol	<0.010	µg/l		AK158 - GC/MS	0.01 µg/l
Desphenyl-chloridazon	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Methyl-desphenyl-chloridazon	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Metalaxyl/Metalaxyl-M	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
CGA108906 (Nedbr. af Metalaxyl)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
CGA62826 (Nedbr. af Metalaxyl)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
4-nitrophenol	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Desethylatrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Desethyldeisopropylatrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Desethyl-hydroxy-atrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Desethylterbutylazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Desisopropylatrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Desisopropyl-hydroxy-atrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Dichlobenil	<0.010	µg/l		AK78 - GC/MS	0.1 µg/l
Dichlorprop(2,4-DP)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Didealkyl-hydroxy-atrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Diuron	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
ETU (Ethylthiourea)	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Glyphosat	<0.010	µg/l		AK144 - LC/MS/MS	0.1 µg/l
Hexazinon	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Hydroxyatrazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
Hydroxysimazin	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l
MCPA	<0.010	µg/l		AK78 - LC/MS/MS	0.1 µg/l

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Mechlorprop(MCPP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-desamino	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-desamino-deketo	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-deketo	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Simazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
N,N-Dimethylsulfamid (DMS)	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l	
Chlorothalonilamid-sulfonsyre	<0.0050	µg/l	AK78 - LC/MS/MS	0,1 µl	
<b>Pesticider, DRV BEK 1070: 2019</b>		-	- - LC/MS/MS		
Alachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Dimethachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Dimethachlor OA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metazachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metazachlor OA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Propachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Total alpha aktivitet	*1	<0.05	Bq/l	CSN 75 7611	
Total beta aktivitet	*1	<0.10	Bq/l	CSN 75 7612	
Radon (EMA)	*1	<5.0	Bq/l	CSN 75 7624	100 Bq/l
Total indicative dose (TID)	*1	<0.03	mSv/år	CZ_SOP_D06_07_372	
Tritium	*1	<10	Bq/l	CSN ISO 9698	
<b>PFAS-forbindelser, MST 12 stoffer</b>		-			
PFHpA	<0.0010	µg/l	DIN 38407-42:2011-03		
PFOA	<0.0010	µg/l	DIN 38407-42:2011-03		0,003 µg/l
PFNA	<0.0010	µg/l	DIN 38407-42:2011-03		
PFBS	<0.0010	µg/l	DIN 38407-42:2011-03		
PFHxS	<0.0010	µg/l	DIN 38407-42:2011-03		
PFOS	<0.0010	µg/l	DIN 38407-42:2011-03		0,006 µg/l
PFOSA	<0.0010	µg/l	DIN 38407-42:2011-03		
PFHxA	<0.0050	µg/l	DIN 38407-42:2011-03		
PFBA	<0.0010	µg/l	DIN 38407-42:2011-03		
PFPeA	<0.0050	µg/l	DIN 38407-42:2011-03		
PFDA	<0.0010	µg/l	DIN 38407-42:2011-03		
FTS 6:2	<0.0010	µg/l	DIN 38407-42:2011-03		
Sum af PFAS, 12 stoffer	<0.010	µg/l	DIN 38407-42:2011-03		

**Kommentar**

Højest tilladelige værdi er overholdt for de undersøgte parametre.

**Underleverandør**

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\*2 ALS Scandinavia AB, SWEDAC 2030

*Ditte T. E. Strecker*

Ditte Therese Ekman Strecker

**Kopimodtagere:**

Halsnæs Kommune, Rådhuspladsen 1, 3300 Frederiksværk

side 3

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