



**DANAK**  
TEST Reg. nr. 361

**Ordrenr:** 807279  
**Sagsnavn:** Sønderby VV  
**Udtaget:** 06.12.2023  
**Prøvested:** Sønderbybro 26

ALS Denmark A/S  
Bakkegårdsvej 406 A  
DK-3050 Humlebæk  
Telefon: +45 4925 0770  
www.alsglobal.dk

## ANALYSERAPPORT

Sønderby Vandværk  
Sønderbyvej 18  
4050 Skibby  
Att.: Sten Røtting Nielsen

**Udskrevet:** 22-01-2024  
**Version:** 1  
**Modtaget:** 06-12-2023  
**Analyseperiode:** 06-12-2023 -  
22-01-2024  
**Ordrenr.:** 807279

**Sagsnavn:** Sønderby VV  
**Lokalitet:** Sønderby Vandværk  
**Prøvested:** Sønderbybro 26  
**Udtaget:** 06.12.2023 kl. 11:25:00  
**Prøvetype:** Drikkevand - Bek. 507:2023, Gruppe B  
**Prøvetager:** LAB/JNF  
**Kunde:** Sønderby Vandværk, Sønderbyvej 18, 4050 Skibby, Att. Sten Røtting Nielsen

Prøvenr.:	196661/23				
Parameter	Resultat	Enhed	Metode	Grænseværdi	Forbruger taphane jvf BEK 1023:2023
Partikler i prøve efter konservering	#	Nej	-	-	
Prøvetagning, Taphane (m. flush)		+	- DS/EN ISO 19458:2006, MST Manual for DRV version 5, 2021, DS/ISO 5667-5:2006		
Lugt	#	Ingen lugt (1)	Ingen	-	Vandet må ikke have en afvigende smag og lugt, desinfektionsmidler undtaget
Smag	#	Ingen (1)	Ingen	-	Vandet må ikke have en afvigende smag og lugt, desinfektionsmidler undtaget
Gennemskylningstid		10	min	Målt i felten	Gennemskyldning min. 5 minutter
pH ved prøvetagning		8.0	pH	DS/EN ISO 10523:2012	7 - 8.5
Temperatur ved prøvetagning		5.7	°C	-	-
Ledningsevne v. ptagning		59	mS/m	DS/EN 27888:2003	30 mS/m
Intestinale Enterokokker		<1	cfu/100 ml	DS/EN ISO 7899-2:2000	<1
Kimtal ved 22 °C		5	cfu/ml	DS/EN ISO 6222:2000/Till.1:2002	200
Coliforme bakterier		<1	cfu/100 ml	DS/EN ISO 9308-1:2014/A1:2017	<1
E. Coli		<1	cfu/100 ml	DS/EN ISO 9308-1:2014/A1:2017	<1
Turbiditet		0.80	FNU	DS/EN ISO 7027-1:2016	1 FNU
Mangan, Mn		<0.0020	mg/l	DS/EN ISO 11885:2009	0.05 mg/l
Natrium, Na+		14	mg/l	DS/EN ISO 11885:2009	175 mg/l
Jern, Fe		0.062	mg/l	DS/EN ISO 11885:2009	0.2 mg/l
Ammonium+ammoniak, NH4+		<0.0040	mg/l	DS/ISO 15923-1:2013+DS224:1975Mod	0.05 mg/l
Nitrit, NO2-		<0.0010	mg/l	DS/ISO 15923-1:2013	0.1 mg/l
Nitrat, NO3-		1.1	mg/l	DS/ISO 15923-1:2013 + beregning	50 mg/l
Chlorid, Cl-		19	mg/l	DS/ISO 15923-1:2013	250 mg/l
Fluorid, F-		0.29	mg/l	DS 218:1975,MOD	1.5 mg/l
Sulfat, SO4--		37	mg/l	DS/ISO 15923-1:2013	250 mg/l
Farvetal, Pt		4.4	Pt mg/l	DS/EN ISO 7887 C:2012	15 mg Pt/l
NVOC		1.7	mg/l	DS/EN 1484:1997+SM 5310B:2014	4 mg/l
Cyanid CN, total		<1.0	µg/l	DS/EN ISO 14403-2:2012	50 µg/l
Aluminium, Al		<0.50	µg/l	DS/EN ISO 17294-2:2016	200 µg/l
Antimon, Sb		<0.20	µg/l	DS/EN ISO 17294-2:2016	5 µg/l
Arsen, As		0.068	µg/l	DS/EN ISO 17294-2:2016	5 µg/l
Bly, Pb		0.23	µg/l	DS/EN ISO 17294-2:2016	5 µg/l
Bor, B		36	µg/l	DS/EN ISO 11885:2009	1000 µg/l
Cadmium, Cd		0.0081	µg/l	DS/EN ISO 17294-2:2016	3 µg/l

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Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for de(n) analyserede prøve(r). Analyserapporten må kun gengives i sin helhed, medmindre skriftlig godkendelse foreligger. Oplysninger om måleusikkerhed findes på [www.alsglobal.dk](http://www.alsglobal.dk)

**Tegnforklaring, Resultat:**  
i.p.: Ikke påvist, -: analysen er ikke udført  
# i rapporten betyder ikke akkrediteret



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Chrom, Cr	0.10	µg/l	DS/EN ISO 17294-2:2016	25 µg/l	
Kobolt, Co	0.018	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Kobber, Cu	7.3	µg/l	DS/EN ISO 17294-2:2016	2000 µg/l	
Kviksølv, Hg	<0.0010	µg/l	DS/EN ISO 17852:2008	1 µg/l	
Nikkel, Ni	0.14	µg/l	DS/EN ISO 17294-2:2016	20 µg/l	
Selen, Se	<0.050	µg/l	DS/EN ISO 17294-2:2016	10 µg/l	
Zink, Zn	25	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		
<b>PAH'er vandforsyning, 6 komp.</b>	-	-	DIN 38407-F39		
Benzen	<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
Fluoranthen	*2 <0.0010	µg/l	DIN 38407-F39	0.1 µg/l	
Benzo(b)fluoranthen	*2 <0.0010	µg/l	DIN 38407-F39		
Benz(k)fluoranthen	*2 <0.0010	µg/l	DIN 38407-F39		
Benz(a)pyren	*2 <0.0010	µg/l	DIN 38407-F39	0.010 µg/l	
Indeno(1,2,3-cd)pyren	*2 <0.0010	µg/l	DIN 38407-F39		
Benz(ghi)perylene	*2 <0.0010	µg/l	DIN 38407-F39		
PAH, sum (4 komp. jf. bek. 1023, 2023)	*2 <0.10	µg/l	DIN 38407-F39	0.1 µg/l	
PAH, sum (6 komp. jf. bek. 529, 2023)	*2 <0.10	µg/l	DIN 38407-F39		
<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 µg/l	
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	1.0 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 µg/l	
2,6-dichlorphenol	<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	
Pentachlorphenol	<0.010	µg/l	AK158 - GC/MS	0.01 µg/l	
1,2,4-triazol	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l	
Acrylamid	*1 <0.050	µg/l	Underleverandør - LC/MS/MS	0.1 µg/l	Anvendelse af kemikalier med indhold heraf bør undgås til vandbehandling
<b>Pesticider, Kartoffelavl</b>	-	-	-- GC/LC/MS		
<b>Pesticider, Drikkevand grundpakke LC/MS</b>	-	-	-- LC/MS/MS		
<b>Pesticider, Drikkevand grundpakke GC/MS</b>	-	-	-- GC/MS		
<b>Pesticider, vand 4 stoffer</b>	-	-	-- GC/MS		
2,6-DCPP (2-(2,6-dichlorphenoxypropionsyre)), 2,6-dichlorprop 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	
Bentazon	<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	
ETU (Ethylthiourea)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Heptachlor	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Aldrin	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Heptachlorepoxyd	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Dieldrin	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
2,6-dichlorbenzoesyre	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desphenyl-chloridazon, DPC	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Imazalil	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	

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Parameter	Resultat	Enhed	Metode	Grænseværdi Forbruger taphane jvf BEK 1023:2023
Methyl-desphenyl-chloridazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metalaxyl	<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
2,4-dichlorphenol	<0.010	µg/l	AK158 - GC/MS	0.1 µg/l
Desethylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Desethyl-desisopropylatrazin (DEIA)	<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
<b>Pesticider, Frugtavl (Diuron)</b>	-	-	AK78 - LC/MS/MS	-
Diuron	<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
Mechlorprop(MCPP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metamitron-desamino	<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-diketo	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metribuzin-diketo	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
PPU (IN 70941), (Nedbr. af Rimsulfuron)	<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
TFMP	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Pentachlorbenzen	<0.010	µg/l	AK158 - GC/MS/SIM	0.1 µg/l
N,N-Dimethylsulfamid (DMS)	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l
Chlorothalonilamid-sulfonsyre (R417888)	<0.0050	µg/l	AK78 - LC/MS/MS	0,1 µg/l
<b>Pesticider, DRV BEK 1023:2023</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 (CGA 50266 )	<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
t-Sulfinyledikesyre (Acetochlor SAA)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
CGA 369873 (Dimethachlor metab.)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
[(2,6-Dimethylphenyl)(2-sulfoacetyl)amino]eddikesyre	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metaldehyd	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Monuron	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
4-Bis-amido-3,5,6-trichlorobenzenesulfonat (R471811) (Nedbr. af Chlorothalonil)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
6-(tert-Butylamino)-1,3,5-triazine-2,4-diol (CGA324007, LM5, nedbr. af Terbutylazin)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
4-(tert-Butylamino)-6-hydroxy-1-methyl-1,3,5-triazin-2(1H)-one (SYN545666, LM6, nedbr. af Terbutylazin)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
2,6-Dihydroxy-7,7-dimethyl-6,8-dihydroimidazo[1,2a][1,3,5]triazin-4(6H)-on (LM3)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
<b>PFAS-forbindelser, Vandforsyning</b>	-	-	ASTM D7979-20	-
PFHpA, Perfluorheptansyre	<0.30	ng/l	ASTM D7979-20	-

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PFOA, Perfluorooctansyre	<0.10	ng/l	ASTM D7979-20	3 ng/l	
PFNA, Perfluorononansyre	<0.10	ng/l	ASTM D7979-20		
PFNS, Perfluorononansulfonsyre	<0.30	ng/l	ASTM D7979-20		
PFBS, Perfluorbutansulfonsyre	<0.30	ng/l	ASTM D7979-20		
PFHxS, Perfluorhexansulfonsyre	<0.10	ng/l	ASTM D7979-20		
PFOS, Perfluorooctansulfonsyre	<0.10	ng/l	ASTM D7979-20	6 ng/l	
PFDS, Perfluordekansulfonsyre	<0.30	ng/l	ASTM D7979-20		
PFOSA, Perfluorooctansulfonamid	<0.30	ng/l	ASTM D7979-20		
PFHxA, Perfluorhexansyre	<0.30	ng/l	ASTM D7979-20		
PFBA, Perfluorbutansyre	<1.0	ng/l	ASTM D7979-20		
PFHpS, Perfluorheptansulfonsyre	<0.30	ng/l	ASTM D7979-20		
PFUnDA, Perfluorundecansyre	<0.30	ng/l	ASTM D7979-20		
PFPeA, Perfluorpentansyre	<0.30	ng/l	ASTM D7979-20		
PFPeS, Perfluorpentansulfonsyre	<0.30	ng/l	ASTM D7979-20		
PFDA, Perfluordekansyre	<0.30	ng/l	ASTM D7979-20		
6:2 FTS (6:2 fluortelomersulfonsyre)	<0.30	ng/l	ASTM D7979-20		
PFDoDA, Perfluordodekansyre	<0.30	ng/l	ASTM D7979-20		
PFTTrDA, Perfluortridekansyre	<1.0	ng/l	ASTM D7979-20		
PFUnDS, Perfluorundecansulfonsyre	<1.0	ng/l	ASTM D7979-20		
PFDoDS, Perfluordodekansulfonsyre	<0.30	ng/l	ASTM D7979-20		
PFTTrDS, Perfluortridekansulfonsyre	<1.0	ng/l	ASTM D7979-20		
Sum af 4 PFAS (PFHxS, PFNA, PFOA, # PFOS)	<0.20	ng/l	ASTM D7979-20		
Sum af påviste PFAS, 22 stoffer	#	<10	ng/l	ASTM D7979-20	0,1

### Kommentar

Højest tilladelige værdi er overholdt for de undersøgte parametre.

### Underleverandør

- \*1 ALS Czech Republic s.r.o, CAI L1163
- \*2 GBA Gesellschaft für Bioanalytik mbH, DAkKS D-PL-14170-01-00

Helle Hornemann

### Kopimodtagere:

Frederikssund Kommune By og Landskab (vandforsyning, Torvet 2, 3600 Frederikssund)