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Drinking Water in Stockholm – Certification of Quality
The drinking water in Stockholm City is produced by Stockholm Vatten och Avfall (Stockholm Water and Waste) and is certified by ISO 9001 and ISO 14001.

The drinking water in Stockholm City is of a high and consistent quality, and is produced by treating water from the Lake Mälaren in our two water works, Lovö and Norsborg.

The control of the production and distribution of drinking water is regulated by the Swedish National Food Administration (Statens Livsmedelsverk) and the national directive SLV 2001:30 and changes in legislation LIVSFS 2017:2 (based on the European drinking water directive, 98/83/EG).
The drinking water quality and the quality control performed by Stockholm Water and Wast, is in full compliance to existing regulations and guidelines.

Lake Mälaren is by any standard a pure lake and well suited for the production of drinking water. The drinking water can therefore be produced by simple and robust processes.

A quality declaration (based on average water quality data 2019 from our two water works Lovö and Norsborg) is enclosed with this document.

Sincerely,

STOCKHOLM VATTEN OCH AVFALL

Markus Möller
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Drinking Water Quality

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Drinking Water Quality at the Norsborg and Lovö Water Work in Stockholm 2019

Parameter		**Unit**	**Drinking** water Norsborg *mean*	**Drinking** water Lovö *mean*	***Limits*** [1]
Temperature		° C	**9,0**	**6,6**	*20*
Colour	Pt	mg/l	**<5**	**5**	*15*
Turbidity		FNU	**0,05**	**0,08**	*0,5*
Conductivity, 25 ºC		mS/m	**24**	**29**	*250* [4]
Totalt organic carbon	TOC	mg C/l	**3,3**	**4,0**	5,5 [3] [4]
Odour			**none**	**none**	*weak* [4]
Taste			**none**	**none**	*weak* [4]
pH			**8,4**	**8,4**	*should be 6,5 - 9,5* [4]
Alkalinity	HCO_3	mmol/l	**0,90**	**1,2**	-
Total hardness	$CaCO_3$	mg/l	**79,3**	**103**	*279* [4]
Calcium	Ca	mg/l	**25**	**33**	*100* [4]
Magnesium	Mg	mg/l	**4,1**	**4,9**	*30* [4]
Sodium	Na	mg/l	**10**	**12**	*100* [4]
Potassium	K	mg/l	**2,4**	**2,8**	-
Iron	Fe	mg/l	< **0,01**	< **0,01**	*0,100*
Manganese	Mn	mg/l	< **0,001**	< **0,001**	*0,050* [4]
Aluminium	Al	mg/l	**0,02**	**0,02**	*0,100* [4]
Copper	Cu	mg/l	**0,001**	**0,001**	*0,20* [4]
Lead	Pb	mg/l	< **0,0002**	< **0,0002**	*0,010* [4]
Cadmium	Cd	mg/l	< **0,0001**	< **0,0001**	*0,0050* [4]
Mercury	Hg	mg/l	< **0,0001**	< **0,0001**	*0,0010* [4]
Arsenic	As	mg/l	< **0,0010**	< **0,0010**	*0,010* [4]
Pesticides, total		mg/l	< ***report limit*** [5]	< ***report limit*** [5]	*0,00050* [4]
Polyaromatic hydrocarbons totalt	PAH	mg/l	< **0,00005**	< **0,00005**	*0,00010* [4]
Trihalomethanes, totalt	THM	mg/l	< **0,004**	< **0,004**	*0,050* [4]
Sulphate	SO_4	mg/l	**42**	**49**	*100* [4]
Chloride	Cl	mg/l	**15**	**18**	*100* [4]
Fluoride	F	mg/l	< **0,20**	< **0,20**	*1,5* [4]
Ammonia	NH_4	mg/l	**0,07**	**0,07**	*0,50* [4]
Nitrite	NO_2	mg/l	< **0,007**	< **0,007**	*0,10*
Totalt chlorine residual [2]	Cl_2	mg/l	**0,27**	**0,24**	*0,4*
Microorganisms, 22 °C, 3 diurnal		per ml	**2**	**2**	*10*
Slow-growing bacteria, 22 °C, 7 diurnal		per ml	**3**	**3**	*5000* [4]
Coliform bacteria, 35 °C		per 100 ml	< **1**	< **1**	***detected***
Escherichia coli		per 100 ml	< **1**	< **1**	***detected***
Clostridium perfringens		per 100 ml	< **1**	< **1**	***detected*** [4]

The results are mean annual values. Basic analyses are made several times a week. Additional analysis are carried out two times a year. The analysis has been performed on accredited laboratory. The sign"<" is used to illustrate "smaller than".

1) Limits for acceptable values water without remarks in drinking, according to the Swedish regulation SLV FS 2001: 30 and changes in legislation LIVSFS 2017:2.

2) During the colder part of the year a smaller dosage disinfectant is used, giving a chlorine residual in the outgoing drinking water on 0,2 mg Cl_2/l. During the warmer part on the other hand, chlorine residual is made 0,3 mg Cl_2/l.

3) Based on the relationship between TOC and oxidizability. Corresponds to a oxidizability of 4,0 mg O_2/l, which is the limit value in Swedish regulation.

4) Limit value for user. No limit value is applied by the water work.

5) The report limit is with a good margin below the limit value.