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T1910341

1186U9LQCD3



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Project
Reference

Analysis of water

Your ID	R19-687-1					
LabID	O11121198					
Analysis	Results	Uncertainty (\pm)	Unit	Method	Issuer	Sign
Ca	386	36	mg/l	1	R	VITA
BOD7	1.3	0.4	mg/l	2	1	ULKA
TOC	<2.50		mg/l	3	1	ULKA
P-tot	<0.030		mg/l	4	1	ULKA
N-tot	<1.0		mg/l	5	1	ULKA
suspended matter	<2.0		mg/l	6	O	SASH

Your ID	R19-687-2					
LabID	O11121199					
Analysis	Results	Uncertainty (\pm)	Unit	Method	Issuer	Sign
Ca	397	37	mg/l	1	R	VITA
BOD7	<1.0		mg/l	2	1	ULKA
TOC	<2.50		mg/l	3	1	ULKA
P-tot	0.040	0.008	mg/l	4	1	ULKA
N-tot	<1.0		mg/l	5	1	ULKA
suspended matter	<2.1		mg/l	6	O	SASH

Your ID	R19-687-3					
LabID	O11121200					
Analysis	Results	Uncertainty (\pm)	Unit	Method	Issuer	Sign
Ca	384	36	mg/l	1	R	VITA
BOD7	<1.0		mg/l	2	1	ULKA
TOC	<2.50		mg/l	3	1	ULKA
P-tot	0.064	0.013	mg/l	4	1	ULKA
N-tot	<1.0		mg/l	5	1	ULKA
suspended matter	2.3		mg/l	6	O	SASH

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Your ID	R19-687-4					
LabID	O11121201					
Analysis	Results	Uncertainty (±)	Unit	Method	Issuer	Sign
TOC	496	99.2	mg/l	3	1	ULKA
suspended matter	650		mg/l	6	O	SASH

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* indicates unaccredited analysis.

Method specification	
1	<p>Package V-3B. Determination of metals after microwave digestion with HNO₃. The measurement was carried out according to EPA-method 200.7(mod), SS EN ISO 11885(mod) (ICP-AES) and EPA-method 200.8(mod), SS EN ISO 17294-1,2(mod) (ICP-SFMS). Analysis of Hg with AFS according to SS-EN ISO 17852:2008.</p> <p>Special information for added metals to the package: W; the sample has been digested with HNO₃ and HF. Ag; the sample has been digested with HCl.</p> <p>Rev 2015-06-25</p>
2	<p>Determination of biochemical oxygen demand after seven days, BOD₇ according to CSN EN 1899-1/-2.</p> <p>Rev2013-09-19</p>
3	<p>Determination of TOC with IR detection according to method based on CSN EN 1484 and CSN EN 13370. The method includes filtration of turbid samples.</p> <p>Rev 2014-11-24</p>
4	<p>Determination of total phosphorous, P-tot, with spectrophotometry according to method based on CSN EN ISO 6878 and CSN ISO 15681-1.</p> <p>Rev 2017-05-18</p>
5	<p>Spechtrophotometric determination of total nitrogen, N-tot, calculated from nitrate-nitrogen + nitrite-nitrogen + Kjeldahl-nitrogen</p> <p>Rev 2015-02-19</p>
6	<p>Determination of suspended solids according to SS-EN 872 rev 2. The sample is filtered through a glassfiber filter Whatman GF/A (1,6 µm pore size). The filter is dried at 105°C and the remains are determined gravimetrically. Sample for the determination of suspended solids should arrive to the laboratory as soon as possible after sampling, because this parameter is time-sensitive. The determination should be done within 48 hours after sampling according to SS-EN ISO 5667-3.</p> <p>Uncertainty of measurement (k=2): Clean water: ±24% at 25 mg/l and ±18% at 250 mg/l Waste water: ±24% at 25 mg/l and ±17% at 250 mg/l</p> <p>Rev 2018-06-01</p>

	Approver
SASH	Sara Saleh
ULKA	Ulrika Karlsson
VITA	Viktoria Takacs

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	Issuer ¹
O	The analysis is provided by ALS Scandinavia AB, Box 700, 182 17 Danderyd, which is accredited by the Swedish accreditation body SWEDAC (Reg.No. 2030).
R	The determination is performed using ICP-AES The analysis is provided by ALS Scandinavia AB, Aurorum 10, 977 75 Luleå, Sweden, which is a testing laboratory, accredited by the Swedish accreditation body SWEDAC (Reg.No. 2030).
1	The analysis is provided by ALS Laboratory Group, Na Harfê 9/336, 190 00, Prag 9, Czech Republic, which is a testing laboratory, accredited by the Czech accreditation body CAI (Reg.No 1163). CAI is a signatory to a MLA within EA, the same LA to which the Swedish accreditation body SWEDAC is also a signatory. The laboratories are located in; Prague, Na Harfê 9/336, 190 00, Praha 9, Ceska Lipa, Bendlova 1687/7, 470 01 Ceska Lipa, Pardubice, V Raji 906, 530 02 Pardubice. Contact the laboratory for further information.

The uncertainty is given as extended uncertainty (according to the definition in "Guide to the Expression of Uncertainty in Measurement", JCGM 100:2008 Corrected version 2010) calculated with a coverage factor of 2, which gives a confidence level of approximately 95%.

Measurement of uncertainty is reported only for detected substances with levels above the reporting limits.

The uncertainty from subcontractors is often given as extended uncertainty calculated with a coverage factor of 2. Contact the laboratory for further information.

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The results apply only to the material that has been identified, received, and tested.

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¹ The technical unit within ALS Scandinavia where the analysis was carried out, alternatively the subcontractor for the analysis.