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## CERTIFICATE OF ANALYSIS

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<b>Work Order</b>	: <b>ST2013602</b>	<b>Page</b>	: 1 of 2
<b>Client</b>	: <b>Matis ohf</b>	<b>Project</b>	: ----
<b>Contact</b>	: Páll Steinhórsson	<b>Purchase Number</b>	: ST2013602
<b>Address</b>	: Food Research, inn. and safety Vinlandsleid 12 -113 Reykjavik Iceland	<b>Sampler</b>	: ----
<b>E-mail</b>	: pall.steinthorsson@matis.is	<b>Site</b>	: ----
<b>Telephone</b>	: 3544225018	<b>Date Samples Received</b>	: 2020-09-24 09:00
<b>C-O-C number</b>	: ----	<b>Date Analysis Commenced</b>	: 2020-09-29
<b>Quote number</b>	: ST2020SE-MAT-OHF0003 (OF191278)	<b>Issue Date</b>	: 2020-10-08 11:37
		<b>No. of samples received</b>	: 1
		<b>No. of samples analysed</b>	: 1

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### General Comments

This certificate represents the original certificate and may not be modified or reproduced other than in full, except with the prior written approval of the issuing lab. The results apply only to the material that has been identified, received, and tested. Regarding the laboratory's liability in relation to assignment, please refer to our website <http://www.alsglobal.se>

Sample ST2013602/001, Method W-TOC-IR: due to high content of salts in most samples, it was necessary to dilute samples prior to analysis and the LORs were increased by corresponding factor.

Sample(s) ST2013602/001, method W-TOC-IR was/were decanted prior to analysis.

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<i>Signatories</i>	<i>Position</i>
Niels-Kristian Terkildsen	Laboratory Manager

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<b>Laboratory</b>	: ALS Scandinavia AB Danderyd	<b>Webpage</b>	: <a href="http://www.alsglobal.com">www.alsglobal.com</a>
<b>Address</b>	: Rinkebyvägen 19C 182 36 Danderyd Sweden	<b>E-mail</b>	: <a href="mailto:info.ta@alsglobal.com">info.ta@alsglobal.com</a>
		<b>Telephone</b>	: +46 8 5277 5200



## Analytical Results

Sub-Matrix: SEAWATER	Client sample ID	R20-2164-1/Stadur vid Grindavik					
	Laboratory sample ID	ST2013602-001					
	Client sampling date / time	Not specified					
Parameter	Result	MU	Unit	LOR	Package	Method	Issuer
<b>Agregate Parameters</b>							
Total Organic Carbon	<2.50	----	mg/L	0.50	TOC	W-TOC-IR	PR
<b>Nonmetallic Inorganic Parameters</b>							
Chemical Oxygen Demand (COD-Cr)	144	± 22.0	mg/L	5.0	CODCR	W-COD-SPC	PR

*The end of result part of the certificate of analysis*

## Brief Method Summaries

Analytical Methods	Method Reference
W-COD-SPC	CZ_SOP_D06_02_076 (CSN ISO 15705) Determination of chemical oxygen demand using dichromate (COD-Cr) by photometry.
W-TOC-IR	CZ_SOP_D06_02_056 (CSN EN 1484, CSN EN 16192, SM 5310) Determination of total organic carbon (TOC), dissolved organic carbon (DOC), total inorganic carbon (TIC) and total carbon (TC) by IR detection.

**Key:** LOR = Limit of reporting represents the standard LOR for the respective parameters in each method. Note that limits of reporting may be affected if, e.g. additional dilution was required because of matrix effects, or the sample quantity was limited.

MU = Measurement Uncertainty

\* = Symbol succeeding any result indicates laboratory or subcontractor non-accredited test.

### Measurement Uncertainty:

*The uncertainty is given as extended uncertainty (according to the definition in "Guide to the Expression of Measurement", JCGM 100:2008 Corrected version 2010) calculated with a coverage factor of 2, which give 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.*

## Issuing lab

	Issuer
PR	The analysis is provided by ALS Czech Republic, s.r.o., Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00 Accredited by: CAI Accreditation Number: 1163