



CERTIFICATE OF ANALYSIS

Work Order	: ST2112129	Page	: 1 of 9
Client	: Matis ohf	Project	: ----
Contact	: Hrólfur Sigurdsson	Purchase Number	: ST2112129
Address	: Food Research, inn. and safety Vinlandsleid 12 -113 Reykjavik Iceland	Sampler	: ----
E-mail	: hrolfur@matis.is	Site	: ----
Telephone	: 3544225000	Date Samples Received	: 2021-05-12 10:26
C-O-C number	: ----	Date Analysis Commenced	: 2021-05-14
Quote number	: HL2020SE-MAT-OHF0001 (OF191270)	Issue Date	: 2021-06-23 14:25
		No. of samples received	: 3
		No. of samples analysed	: 3

General Comments

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Workorder Comments

Should a sample contain sediment it is decanted prior to volatile compounds determination.

Signatories	Position
Niels-Kristian Terkildsen	Laboratory Manager



Laboratory	: ALS Scandinavia AB Danderyd	Webpage	: www.alsglobal.com
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Analytical Results

Sub-Matrix: DRINKING WATER		Client sample ID		R21-1077-1/19-VK1-Hú				
		Laboratory sample ID		ST2112129-001				
		Client sampling date / time		Not specified				
Parameter	Result	MU	Unit	LOR	Package	Method	Issuer	
Halogenated Volatile Organic Compounds								
Chloroform	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR	
Bromoform	<0.20	----	µg/L	0.20	OV-10	W-VOCGMS01	PR	
Dibromochloromethane	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR	
Bromodichloromethane	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR	
Sum of 4 Trihalomethanes (M1)	<0.250	----	µg/L	0.250	OV-10	W-VOCGMS01	PR	
Sample Pre-Preparation								
Stabilisation	Yes *	----	-	-	V-2-S	W-PPV-S	LE	
Total Metals/Major Cations								
Aluminum	12.1	± 1.2	µg/L	0.2	V-2	W-SFMS-5A	LE	
Antimony	<0.01	----	µg/L	0.01	V-2-ADD	W-SFMS-5A	LE	
Arsenic	0.0649	± 0.0132	µg/L	0.05	V-2	W-SFMS-5A	LE	
Barium	24.2	± 2.4	µg/L	0.01	V-2	W-SFMS-5A	LE	
Boron	<10	----	µg/L	10	V-2-ADD	W-AES-1A	LE	
Cadmium	<0.002	----	µg/L	0.002	V-2	W-SFMS-5A	LE	
Calcium	5.41	± 0.54	mg/L	0.1	V-2	W-AES-1A	LE	
Chromium	0.689	± 0.069	µg/L	0.01	V-2	W-SFMS-5A	LE	
Cobalt	0.0168	± 0.0035	µg/L	0.005	V-2	W-SFMS-5A	LE	
Copper	<0.1	----	µg/L	0.1	V-2	W-SFMS-5A	LE	
Iron	<0.0004	----	mg/L	0.0004	V-2	W-SFMS-5A	LE	
Lead	0.0227	± 0.0030	µg/L	0.01	V-2	W-SFMS-5A	LE	
Lithium	0.456 *	----	µg/L	0.001	V-2-Bas-ADD	W-SFMS-5A	LE	
Magnesium	0.852	± 0.086	mg/L	0.09	V-2	W-AES-1A	LE	
Manganese	<0.03	----	µg/L	0.03	V-2	W-SFMS-5A	LE	
Mercury	<0.002	----	µg/L	0.002	V-2	W-AFS-17V2	LE	
Molybdenum	0.452	± 0.045	µg/L	0.05	V-2	W-SFMS-5A	LE	
Nickel	<0.05	----	µg/L	0.05	V-2	W-SFMS-5A	LE	
Phosphorus	20.4	± 2.4	µg/L	1	V-2	W-SFMS-5A	LE	
Potassium	0.458	± 0.047	mg/L	0.4	V-2	W-AES-1A	LE	
Selenium	0.378	± 0.058	µg/L	0.3	V-2-ADD	W-SFMS-5A	LE	
Silicon	6.55	± 0.66	mg/L	0.03	V-2	W-AES-1A	LE	
Sodium	10.1	± 1.0	mg/L	0.1	V-2	W-AES-1A	LE	
Strontium	3.09	± 0.34	µg/L	2	V-2	W-AES-1A	LE	
Sulfur	0.710	± 0.072	mg/L	0.2	V-2-S	W-AES-1A	LE	
Vanadium	12.5	± 1.3	µg/L	0.005	V-2	W-SFMS-5A	LE	
Zinc	0.322	± 0.109	µg/L	0.2	V-2	W-SFMS-5A	LE	
BTEX								
Benzene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR	
Toluene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR	
Ethylbenzene	<0.10	----	µg/L	0.10	OV-5A	W-VOCGMS01	PR	
meta- & para-Xylene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR	
ortho-Xylene	<0.10	----	µg/L	0.10	OV-5A	W-VOCGMS01	PR	
Polycyclic Aromatics Hydrocarbons (PAHs)								
Naphthalene	0.0011	0.00011	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Acenaphthylene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Acenaphthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Fluorene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Phenanthrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	



Parameter	Result	R21-1077-1/19-VK1-Hú						Method	Issuer
		Client sample ID							
		Laboratory sample ID							
		Client sampling date / time							
						ST2112129-001			
						Not specified			
Parameter	Result	MU	Unit	LOR	Package	Method	Issuer		
Polycyclic Aromatics Hydrocarbons (PAHs) - Continued									
Anthracene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Pyrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Benz(a)anthracene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Chrysene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Benzo(b)fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Benzo(k)fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Benzo(a)pyrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Dibenzo(a,h)anthracene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Benzo(g,h,i)perylene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Indeno(1.2.3.cd)pyrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Sum of 16 PAH	0.00110 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Sum of carcinogenic PAH	<0,0035 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Sum of other PAH	0,0011	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Sum of PAH L	0.00110 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Sum of PAH M	<0,0025 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Sum of PAH H	<0,0040 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX		
Nonmetallic Inorganic Parameters									
Ammonia and ammonium ions as NH4	<0.050	----	mg/L	0.050	NH4-SPC	W-NH4-SPC	PR		
Chloride	8.52	± 1.28	mg/L	1.00	Cl-IC	W-CL-IC	PR		
Fluoride	<0.200	----	mg/L	0.200	F-IC	W-F-IC	PR		
Nitrate as N	0.053 *	----	mg/L	0.005	NO3-IC	W-IC-1/AKL	AK		
Sulphate as SO4 2-	<5.00	----	mg/L	5.00	SO4-IC	W-SO4-IC	PR		
Total Cyanide	<0.0010	----	mg/L	0.001	CNT-V	Cyanid_7937,10	HU		
Ammonia and ammonium ions as N	<0.040	----	mg/L	0.040	NH4-SPC	W-NH4-SPC	PR		
Nitrate	0.235 *	----	mg/L	0.005	NO3-IC	W-IC-1/AKL	AK		
Nitrites	<0.0050	----	mg/L	0.0050	NO2-SPC	W-NO2-SPC	PR		
Nitrite as N	<0.0020	----	mg/L	0.0020	NO2-SPC	W-NO2-SPC	PR		
Halogenated Volatile Organic Compounds									
Dichloromethane	<0.10	----	µg/L	0.1	OV-6B	OV-6b_6434	HU		
1.1-Dichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
1.2-Dichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
trans-1.2-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
cis-1.2-Dichloroethene	0.045	0.1	µg/L	0.02	OV-6B	OV-6b_6434	HU		
1.2-Dichloropropane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
Chloroform	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
Tetrachloromethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
1.1.1-Trichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
1.1.2-Trichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
Trichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
Tetrachloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
Vinyl chloride	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
1.1-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU		
Physical Parameters									
Colour (True)	<5.0	----	mgPt/l	5.0	Färg	W-COL-SPC	PR		
Other									
Total Organic Carbon	<0.50	----	mg/L	0.50	TOC	W-TOC-IR	PR		



Sub-Matrix: DRINKING WATER	Client sample ID	R21-1077-2/19-V4-Hú						Method	Issuer	
		Laboratory sample ID	ST2112129-002							
			Not specified							
			Parameter	Result	MU	Unit	LOR			Package
Halogenated Volatile Organic Compounds										
Chloroform	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR			
Bromoform	<0.20	----	µg/L	0.20	OV-10	W-VOCGMS01	PR			
Dibromochloromethane	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR			
Bromodichloromethane	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR			
Sum of 4 Trihalomethanes (M1)	<0.250	----	µg/L	0.250	OV-10	W-VOCGMS01	PR			
Sample Pre-Preparation										
Stabilisation	Yes *	----	-	-	V-2-S	W-PPV-S	LE			
Total Metals/Major Cations										
Aluminum	12.9	± 1.3	µg/L	0.2	V-2	W-SFMS-5A	LE			
Antimony	<0.01	----	µg/L	0.01	V-2-ADD	W-SFMS-5A	LE			
Arsenic	0.0738	± 0.0136	µg/L	0.05	V-2	W-SFMS-5A	LE			
Barium	0.115	± 0.012	µg/L	0.01	V-2	W-SFMS-5A	LE			
Boron	<10	----	µg/L	10	V-2-ADD	W-AES-1A	LE			
Cadmium	<0.002	----	µg/L	0.002	V-2	W-SFMS-5A	LE			
Calcium	4.79	± 0.48	mg/L	0.1	V-2	W-AES-1A	LE			
Chromium	0.798	± 0.080	µg/L	0.01	V-2	W-SFMS-5A	LE			
Cobalt	0.0148	± 0.0034	µg/L	0.005	V-2	W-SFMS-5A	LE			
Copper	0.160	± 0.032	µg/L	0.1	V-2	W-SFMS-5A	LE			
Iron	<0.0004	----	mg/L	0.0004	V-2	W-SFMS-5A	LE			
Lead	<0.01	----	µg/L	0.01	V-2	W-SFMS-5A	LE			
Lithium	0.0948 *	----	µg/L	0.001	V-2-Bas-ADD	W-SFMS-5A	LE			
Magnesium	0.812	± 0.082	mg/L	0.09	V-2	W-AES-1A	LE			
Manganese	0.0338	± 0.0148	µg/L	0.03	V-2	W-SFMS-5A	LE			
Mercury	<0.002	----	µg/L	0.002	V-2	W-AFS-17V2	LE			
Molybdenum	0.130	± 0.014	µg/L	0.05	V-2	W-SFMS-5A	LE			
Nickel	<0.05	----	µg/L	0.05	V-2	W-SFMS-5A	LE			
Phosphorus	15.2	± 1.8	µg/L	1	V-2	W-SFMS-5A	LE			
Potassium	<0.4	----	mg/L	0.4	V-2	W-AES-1A	LE			
Selenium	0.316	± 0.054	µg/L	0.3	V-2-ADD	W-SFMS-5A	LE			
Silicon	6.41	± 0.64	mg/L	0.03	V-2	W-AES-1A	LE			
Sodium	12.6	± 1.3	mg/L	0.1	V-2	W-AES-1A	LE			
Strontium	3.11	± 0.34	µg/L	2	V-2	W-AES-1A	LE			
Sulfur	0.755	± 0.076	mg/L	0.2	V-2-S	W-AES-1A	LE			
Vanadium	10.9	± 1.1	µg/L	0.005	V-2	W-SFMS-5A	LE			
Zinc	<0.2	----	µg/L	0.2	V-2	W-SFMS-5A	LE			
BTEX										
Benzene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR			
Toluene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR			
Ethylbenzene	<0.10	----	µg/L	0.10	OV-5A	W-VOCGMS01	PR			
meta- & para-Xylene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR			
ortho-Xylene	<0.10	----	µg/L	0.10	OV-5A	W-VOCGMS01	PR			
Polycyclic Aromatics Hydrocarbons (PAHs)										
Naphthalene	0.0011	0.00011	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Acenaphthylene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Acenaphthene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Fluorene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Phenanthrene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Anthracene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Fluoranthene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Pyrene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			
Benz(a)anthracene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX			



Sub-Matrix: DRINKING WATER		Client sample ID		R21-1077-2/19-V4-Hú				
		Laboratory sample ID		ST2112129-002				
		Client sampling date / time		Not specified				
Parameter	Result	MU	Unit	LOR	Package	Method	Issuer	
Polycyclic Aromatics Hydrocarbons (PAHs) - Continued								
Chrysene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(b)fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(k)fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(a)pyrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Dibenzo(a,h)anthracene	0.0027	0.00038	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(g,h,i)perylene	0.0021	0.00025	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Indeno(1.2.3.cd)pyrene	0.0014	0.00020	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of 16 PAH	0.00730 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of carcinogenic PAH	0.00410 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of other PAH	0,0032	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of PAH L	0.00110 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of PAH M	<0,0025 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of PAH H	0.00620 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Nonmetallic Inorganic Parameters								
Ammonia and ammonium ions as NH ₄	<0.050	----	mg/L	0.050	NH ₄ -SPC	W-NH ₄ -SPC	PR	
Chloride	9.61	± 1.44	mg/L	1.00	Cl-IC	W-CL-IC	PR	
Fluoride	<0.200	----	mg/L	0.200	F-IC	W-F-IC	PR	
Nitrate as N	0.051 *	----	mg/L	0.005	NO ₃ -IC	W-IC-1/AKL	AK	
Sulphate as SO ₄ 2-	<5.00	----	mg/L	5.00	SO ₄ -IC	W-SO ₄ -IC	PR	
Total Cyanide	<0.0010	----	mg/L	0.001	CNT-V	Cyanid_7937,10	HU	
Ammonia and ammonium ions as N	<0.040	----	mg/L	0.040	NH ₄ -SPC	W-NH ₄ -SPC	PR	
Nitrate	0.226 *	----	mg/L	0.005	NO ₃ -IC	W-IC-1/AKL	AK	
Nitrites	<0.0050	----	mg/L	0.0050	NO ₂ -SPC	W-NO ₂ -SPC	PR	
Nitrite as N	<0.0020	----	mg/L	0.0020	NO ₂ -SPC	W-NO ₂ -SPC	PR	
Halogenated Volatile Organic Compounds								
Dichloromethane	<0.10	----	µg/L	0.1	OV-6B	OV-6b_6434	HU	
1.1-Dichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.2-Dichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
trans-1.2-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
cis-1.2-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.2-Dichloropropane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Chloroform	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Tetrachloromethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.1.1-Trichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.1.2-Trichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Trichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Tetrachloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Vinyl chloride	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.1-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Physical Parameters								
Colour (True)	<5.0	----	mgPt/l	5.0	Färg	W-COL-SPC	PR	
Other								
Total Organic Carbon	<0.50	----	mg/L	0.50	TOC	W-TOC-IR	PR	



Sub-Matrix: DRINKING WATER		Client sample ID		R21-1077-3/19-V19-Hú				
		Laboratory sample ID		ST2112129-003				
		Client sampling date / time		Not specified				
Parameter	Result	MU	Unit	LOR	Package	Method	Issuer	
Halogenated Volatile Organic Compounds								
Chloroform	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR	
Bromoform	<0.20	----	µg/L	0.20	OV-10	W-VOCGMS01	PR	
Dibromochloromethane	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR	
Bromodichloromethane	<0.10	----	µg/L	0.10	OV-10	W-VOCGMS01	PR	
Sum of 4 Trihalomethanes (M1)	<0.250	----	µg/L	0.250	OV-10	W-VOCGMS01	PR	
Sample Pre-Preparation								
Stabilisation	Yes *	----	-	-	V-2-S	W-PPV-S	LE	
Total Metals/Major Cations								
Aluminum	15.9	± 1.6	µg/L	0.2	V-2	W-SFMS-5A	LE	
Antimony	<0.01	----	µg/L	0.01	V-2-ADD	W-SFMS-5A	LE	
Arsenic	<0.05	----	µg/L	0.05	V-2	W-SFMS-5A	LE	
Barium	0.249	± 0.025	µg/L	0.01	V-2	W-SFMS-5A	LE	
Boron	<10	----	µg/L	10	V-2-ADD	W-AES-1A	LE	
Cadmium	<0.002	----	µg/L	0.002	V-2	W-SFMS-5A	LE	
Calcium	4.35	± 0.44	mg/L	0.1	V-2	W-AES-1A	LE	
Chromium	0.803	± 0.081	µg/L	0.01	V-2	W-SFMS-5A	LE	
Cobalt	0.00626	± 0.00308	µg/L	0.005	V-2	W-SFMS-5A	LE	
Copper	0.626	± 0.068	µg/L	0.1	V-2	W-SFMS-5A	LE	
Iron	0.00234	± 0.00050	mg/L	0.0004	V-2	W-SFMS-5A	LE	
Lead	<0.01	----	µg/L	0.01	V-2	W-SFMS-5A	LE	
Lithium	0.0416 *	----	µg/L	0.001	V-2-Bas-ADD	W-SFMS-5A	LE	
Magnesium	1.06	± 0.11	mg/L	0.09	V-2	W-AES-1A	LE	
Manganese	0.140	± 0.020	µg/L	0.03	V-2	W-SFMS-5A	LE	
Mercury	<0.002	----	µg/L	0.002	V-2	W-AFS-17V2	LE	
Molybdenum	0.0931	± 0.0104	µg/L	0.05	V-2	W-SFMS-5A	LE	
Nickel	<0.05	----	µg/L	0.05	V-2	W-SFMS-5A	LE	
Phosphorus	14.7	± 1.7	µg/L	1	V-2	W-SFMS-5A	LE	
Potassium	0.442	± 0.045	mg/L	0.4	V-2	W-AES-1A	LE	
Selenium	0.314	± 0.054	µg/L	0.3	V-2-ADD	W-SFMS-5A	LE	
Silicon	6.27	± 0.63	mg/L	0.03	V-2	W-AES-1A	LE	
Sodium	12.1	± 1.2	mg/L	0.1	V-2	W-AES-1A	LE	
Strontium	4.55	± 0.47	µg/L	2	V-2	W-AES-1A	LE	
Sulfur	0.779	± 0.079	mg/L	0.2	V-2-S	W-AES-1A	LE	
Vanadium	12.4	± 1.2	µg/L	0.005	V-2	W-SFMS-5A	LE	
Zinc	<0.2	----	µg/L	0.2	V-2	W-SFMS-5A	LE	
BTEX								
Benzene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR	
Toluene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR	
Ethylbenzene	<0.10	----	µg/L	0.10	OV-5A	W-VOCGMS01	PR	
meta- & para-Xylene	<0.20	----	µg/L	0.20	OV-5A	W-VOCGMS01	PR	
ortho-Xylene	<0.10	----	µg/L	0.10	OV-5A	W-VOCGMS01	PR	
Polycyclic Aromatics Hydrocarbons (PAHs)								
Naphthalene	0.0012	0.00012	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Acenaphthylene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Acenaphthene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Fluorene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Phenanthrene	0.0012	0.00011	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Anthracene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Fluoranthene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	
Pyrene	<0.0010	----	µg/L	0.001	OV-1 lág LOQ	W-GCMS-6/GBA	GX	



Sub-Matrix: DRINKING WATER		Client sample ID		R21-1077-3/19-V19-Hú				
		Laboratory sample ID		ST2112129-003				
		Client sampling date / time		Not specified				
Parameter	Result	MU	Unit	LOR	Package	Method	Issuer	
Polycyclic Aromatics Hydrocarbons (PAHs) - Continued								
Benz(a)anthracene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Chrysene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(b)fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(k)fluoranthene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(a)pyrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Dibenzo(a,h)anthracene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Benzo(g,h,i)perylene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Indeno(1.2.3.cd)pyrene	<0.0010	----	µg/L	0.001	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of 16 PAH	0.00240 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of carcinogenic PAH	<0,0035 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of other PAH	0,0024	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of PAH L	0.00120 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of PAH M	0.00120 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Sum of PAH H	<0,0040 *	----	µg/L	-	OV-1 låg LOQ	W-GCMS-6/GBA	GX	
Nonmetallic Inorganic Parameters								
Ammonia and ammonium ions as NH4	<0.050	----	mg/L	0.050	NH4-SPC	W-NH4-SPC	PR	
Chloride	10.2	± 1.52	mg/L	1.00	Cl-IC	W-CL-IC	PR	
Fluoride	<0.200	----	mg/L	0.200	F-IC	W-F-IC	PR	
Nitrate as N	0.054 *	----	mg/L	0.005	NO3-IC	W-IC-1/AKL	AK	
Sulphate as SO4 2-	<5.00	----	mg/L	5.00	SO4-IC	W-SO4-IC	PR	
Total Cyanide	<0.0010	----	mg/L	0.001	CNT-V	Cyanid_7937,10	HU	
Ammonia and ammonium ions as N	<0.040	----	mg/L	0.040	NH4-SPC	W-NH4-SPC	PR	
Nitrate	0.239 *	----	mg/L	0.005	NO3-IC	W-IC-1/AKL	AK	
Nitrites	<0.0050	----	mg/L	0.0050	NO2-SPC	W-NO2-SPC	PR	
Nitrite as N	<0.0020	----	mg/L	0.0020	NO2-SPC	W-NO2-SPC	PR	
Halogenated Volatile Organic Compounds								
Dichloromethane	<0.10	----	µg/L	0.1	OV-6B	OV-6b_6434	HU	
1.1-Dichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.2-Dichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
trans-1.2-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
cis-1.2-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.2-Dichloropropane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Chloroform	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Tetrachloromethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.1.1-Trichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.1.2-Trichloroethane	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Trichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Tetrachloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Vinyl chloride	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
1.1-Dichloroethene	<0.020	----	µg/L	0.02	OV-6B	OV-6b_6434	HU	
Physical Parameters								
Colour (True)	<5.0	----	mgPt/l	5.0	Färg	W-COL-SPC	PR	
Other								
Total Organic Carbon	<0.50	----	mg/L	0.50	TOC	W-TOC-IR	PR	



Brief Method Summaries

Analytical Methods	Method Reference
W-AES-1A	Determination of metals in fresh water, pool and drinking water by ICP-AES according to SS-EN ISO 11885:2009 and US EPA Method 200.7:1994. Samples are acidified with 1 ml high purity nitric acid per 100 ml prior to analysis. No digestion.
W-AFS-17V2	Determination of mercury (Hg) in natural water by AFS according to SS-EN ISO 17852:2008. Samples are acidified with 1 ml high purity nitric acid per 100 ml prior to analysis. No digestion.
W-PPV-S*	Stabilisation with H2O2 prior to W-AES-1A (SE-SOP-0259).
W-SFMS-5A	Determination of metals in fresh water, pool and drinking water by ICP-SFMS according to SS-EN ISO 17294-2:2016 and US EPA Method 200.8:1994. Samples are acidified with 1 ml high purity nitric acid per 100 ml prior to analysis. No digestion.
Cyanid_7937,10	Determination of cyanid total according to DS/EN ISO 14403-2:2012.
OV-6b_6434	Determination of chlorinated aliphates incl. vinyl chloride according to AK210. Measurement is performed with headspace GC-MS. LOD is meant to report less than values (<).
W-GCMS-6/GBA	German standard methods for the examination of water, waste water and sludge - Determination of selected polycyclic aromatic hydrocarbons (PAH) - Method using gas chromatography with mass spectrometric detection according to DIN 38407-39.
W-IC-1/AKL	Determination of dissolved fluoride, chloride, nitrite, ortho-phosphate, bromide, nitrate and sulphate ions using liquid chromatography according to SS-EN ISO 10 304-1:2009.
W-CL-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-COL-SPC	CZ_SOP_D06_02_079 (CSN EN ISO 7887) Determination of colour by spectrophotometry.
W-F-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-NH4-SPC	CZ_SOP_D06_02_019 (ČSN EN ISO 11732, ČSN EN ISO 13395, ČSN EN 16192, SM 4500-NO2-, SM 4500-NO3-) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-NO2-SPC	CZ_SOP_D06_02_019 (ČSN EN ISO 11732, ČSN EN ISO 13395, ČSN EN 16192, SM 4500-NO2-, SM 4500-NO3-) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-SO4-IC	CZ_SOP_D06_02_068 (ČSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-TOC-IR	CZ_SOP_D06_02_056 (CSN EN 1484, SM 5310) Determination of total organic carbon (TOC), dissolved organic carbon (DOC), total inorganic carbon (TIC) and total carbon (TC) by IR detection.
W-VOCGMS01	CZ_SOP_D06_03_155 except chap. 10.5, 10.6 (US EPA 624, US EPA 8260, US EPA 8015, CSN EN ISO 10301, MADEP 2004, rev. 1.1, CSN ISO 11423, CSN EN ISO 15680) Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values.

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
AK	<i>The analysis is provided by AK-lab AB, Getängsvägen 29D Borås Sweden 50468 Accredited by: SWEDAC Accreditation Number: 1790</i>
GX	<i>The analysis is provided by GBA Gesellschaft für Bioanalytik mbH, Flensburger Strasse 15 Pinneberg Germany 25421 Accredited by: DAkkS Accreditation Number: D-PL-14170-01-00</i>
HU	<i>The analysis is provided by ALS Denmark A/S, Bakkegårdsvej 406A Humlebæk Denmark 3050 Accredited by: DANAK Accreditation Number: 361</i>
LE	<i>The analysis is provided by ALS Scandinavia AB Luleå, Aurorum 10 Luleå Sweden 977 75 Accredited by: SWEDAC Accreditation Number: 2030</i>
PR	<i>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</i>