

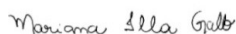
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CLIENT DETAILS

LABORATORY DETAILS

Client	ESL WATER TECHNOLOGY LTDA	Manager	Mariana Illa Gallo
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Contact		Address	Rua Silva Jardim, 251 São Bernardo do Campo SP 09715-090
Telephone		Telephone	11 4125-3044
Fax		Fax	
Email		Email	mariana.gallo@sgs.com
Project	DEFAULT	SGS Reference	SB2405801
Order n°	2024 / 181802	Received	02/10/2024
Matrix/samples	RDC N°717, de 1° de Junho de 2022(1)	Analysis Started	07/10/2024
		Analysis Completed	31/10/2024
		Approved	31/10/2024
		Date Reported	01/11/2024
		Report n°	SB2405801_R0

SIGNATORIES



Mariana Illa Gallo
Responsável Técnico
CRQ IV 04364313

COMMENTS

The extended measurement uncertainty is expressed as absolute value near to the result; the value is estimated of 95% confidence with a covering factor of K=2.

The results are reported as absolute value +/- the absolute uncertainty of measurement estimated by the laboratory



CASE NARRATIVE

- The samples were not preserved correctly
- The samples were not received in time for analysis
- The samples were not received in cooler
- The bottles used were not correct for the analysis parameters

RESULTS

		Sample n°	SB2405801.001	
		Sample Name	Água Mineral - Mahi Water	
		Sample Matrix	RDC Nº717, de 1º de Junho de 2022	
		Sampled By	Client	
		Sample Date	20/08/2024	
Parameter	Units	RL	Result	

Subcontracting

Microcystin and Saxitoxin Determination [POP 054]

^^ Microcystin	µg/L	0,1	<0,1
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Laboratório

Total Cyanide [PA 7.2-25 Determinação de Cianeto Livre e Total por Espectrofotometria no Visível]

Total Cyanide	mg/L	0,001	<0,001
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Acrylamide [EPA 8032 A:1996 Rev.1 Acrylamide by Gas Chromatography]

Acrylamide	µg/L	0,4	<0,4
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Glifosato e AMPA [OSHA 2067:1989 - Determinação de Glifosato e AMPA por Cromatografia Líquida com Detector de Fluorescência (HPLC/FL)]

Glyphosate	µg/L	27	<27,00
Ampa	µg/L	30	<30,00
Glyphosate + Ampa	µg/L	60	<60,00

Chlorine Free and Total DPD (colourimetric) [SMWW, 24ª edição, método, 4500 Cl G]

Free Chlorine by DPD Colourimetric	mg/L	0,1	<0,1
Chloroamine	mg/L	0,1	<0,1

Volatile Organic Compounds (VOC) [EPA Method 8260 D (2018)]

1,2-Dichloroethane-D4 Surrogate	%	-	121
p-Bromofluorobenzene Surrogate	%	-	137
Toluene-D8 Surrogate	%	-	60
Trihalomethanes	mg/L	0,001	0,043 ±0,002
Chloroform	µg/L	1	<1
Bromodichloromethane	µg/L	1	5 ±0,2
Dibromochloromethane	µg/L	1	<1
Bromoform	µg/L	1	37 ±1,6
Vinyl Chloride	µg/L	1	<1
1,2-Dichloroethane	µg/L	1	<1
Carbon Tetrachloride	µg/L	1	<1
Benzene	µg/L	1	<1
Styrene	µg/L	1	<1
1,2,4-Trichlorobenzene	µg/L	1	<1
1,2,3-Trichlorobenzene	µg/L	1	<1
1,3,5-Trichlorobenzene	µg/L	1	<1

Escherichia coli [SMWW, 23ª Edição, 2017, Método 9223 B]

RESULTS

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Parameter	Units	RL	Result	

Escherichia coli [SMWW, 23ª Edição, 2017, Método 9223 B] (continued)

Escherichia coli	---	-	Absent
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Total Coliforms [SMWW 23ª Edição, 2017, método 9223 B]

Total Coliforms	---	-	Absent
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Determination of Metals and Trace Metals [PA 7.2-246 - Determinação de Metais por ICP-MS / EPA6020 (2014)]

Antimony	µg/L	1	<1,00
Arsenic	µg/L	2	<2,00
Barium	µg/L	1	1,37 ±0,05
Boron	µg/L	1	31,59 ±0,35
Cadmium	µg/L	0,2	<0,20
Lead	µg/L	0,2	3,08 ±0,10
Copper	µg/L	1	<1,00
Chromium	µg/L	0,5	<0,50
Manganese	µg/L	1	<1,00
Mercury	µg/L	0,2	<0,20
Nickel	µg/L	0,2	<0,20
Selenium	µg/L	1	<1,00
Iron	µg/L	10	<10,00
Silicon	µg/L	10	<10,00
Sodium	µg/L	50	3363,55 ±63,91
Zinc	µg/L	0,5	<0,50
Potassium	µg/L	10	145,23 ±2,32
Calcium	µg/L	10	20,14 ±0,34
Magnesium	µg/L	1	94,20 ±1,41

Semi Volatile Organic Compounds (SVOC) in Water by GC/MS [EPA 8270D:2007 Rev.4 Semivolatile Organic Compounds by Gas Chromatography]

2-Fluorobiphenyl (Surrogate)	%	-	85
d5-Nitrobenzene (Surrogate)	%	-	95
d14-p-Terphenyl (Surrogate)	%	-	87
Hexachlorobenzene	µg/L	0,03	<0,03
2,4,5-Trichlorophenol	µg/L	0,02	<0,02
Pentachlorophenol	µg/L	0,02	<0,02
Gamma-HCH (Lindane)	µg/L	0,03	<0,03
Heptachlor epoxide	µg/L	0,015	<0,015

RESULTS

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Semi Volatile Organic Compounds (SVOC) in Water by GC/MS [EPA 8270D:2007 Rev.4 Semivolatile Organic Compounds by Gas Chromatography] (continued)

Endosulfan Sulphate	µg/L	0,03	<0,03
Beta-Endosulfan	µg/L	0,03	<0,03
Alpha-Endosulfan	µg/L	0,03	<0,03
Endosulfan Sum	µg/L	0,16	<0,16
4,4'-DDD	µg/L	0,03	<0,03
4,4'-DDE	µg/L	0,03	<0,03
4,4'-DDE + 4,4'-DDT + 4,4'-DDD	µg/L	0,09	<0,09
4,4'-DDT	µg/L	0,03	<0,03
o,p'-DDE	µg/L	0,03	<0,03
o,p'-DDT	µg/L	0,03	<0,03
Endrin	µg/L	0,03	<0,03
Methoxychlor	µg/L	0,03	<0,03
Alpha-chlordane	µg/L	0,03	<0,03
Gamma-chlordane	µg/L	0,03	<0,03
Atrazine	µg/L	0,03	<0,03
Aldrin	µg/L	0,015	<0,015
Aldrin + Dieldrin	µg/L	0,03	<0,03
Dieldrin	µg/L	0,015	<0,015
Molinate	µg/L	0,03	<0,03
Simazine	µg/L	0,03	<0,03
Propanil	µg/L	0,03	<0,03
Metochlor	µg/L	0,03	<0,03
Bentazon	µg/L	0,03	<0,03
Pendimethalin	µg/L	0,03	<0,03
Cis-Permethrin	µg/L	0,03	<0,03
Permethrin (Cis+Trans)	µg/L	0,03	<0,03
Trans-Permethrin	µg/L	0,03	<0,03
Alachlor	µg/L	0,03	<0,03

Inorganic Anions [EPA 300.1:1997]

Dilution	---	-	1
Bromate	mg/L	0,005	0,302 ±0,0215
Chlorite	mg/L	0,01	<0,01

RESULTS

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Inorganic Ânions [EPA 300.1:1997] (continued)

Nitrate	mg/L	0,05	0,106 ±0,0034	
Nitrite	mg/L	0,01	<0,010	
Sulphate	mg/L	0,05	1,05 ±0,026	
Chloride	mg/L	0,05	9,97 ±0,258	
Fluoride	mg/L	0,05	<0,05	

Chlorinated Acids [EPA 515.4:2000 Rev.1 Determination of Chlorinated Acids]

Bentazon	µg/L	11	<11,000	
2,4 - D	µg/L	11	<11,000	
2,4-Dichlorophenylacetic acid (Surrogate)	%	-	0	

GUIDELINE LIMITS

Matrix description	Limits description
RDC N°717, de 1º de Junho de 2022	

Parameter	Units	L1	L2	L3	L4
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Glifosato e AMPA [Refrigerar (< 4°C) + OSHA 2067:1989 - Determinação de Glifosato e AMPA por Cromatografia Líquida com Detector de Fluorescência (HPLC/FL)]

Glyphosate	µg/L	-	-	-	500
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Chlorine Free and Total DPD (colourimetric) [Refrigerar (Holding Time Curto) + SMWW, 24ª edição, método, 4500 Cl G]

Free Chlorine by DPD Colourimetric	mg/L	-	-	-	5
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Determination of Metals and Trace Metals [Refrigerar (< 4°C) / Ácido Nítrico (pH < 2) + PA 7.2-246 - Determinação de Metais por ICP-MS / EPA6020 (2014)]

Boron	µg/L	-	-	-	5000
Chromium	µg/L	-	-	-	50
Manganese	µg/L	-	-	-	500
Nickel	µg/L	-	-	-	20
Copper	µg/L	-	-	-	1000
Arsenic	µg/L	-	-	-	10
Selenium	µg/L	-	-	-	10
Cadmium	µg/L	-	-	-	3
Antimony	µg/L	-	-	-	5
Barium	µg/L	-	-	-	700
Mercury	µg/L	-	-	-	1
Lead	µg/L	-	-	-	10

Chlorinated Acids [Refrigerar (< 4°C) + EPA 515.4:2000 Rev.1 Determination of Chlorinated Acids]

Bentazon	µg/L	-	-	-	300
2,4 - D	µg/L	-	-	-	30

LEGEND

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
^	Performed by another SGS laboratory	NA	The sample was not analysed for this analyte
^^	Performed by outside laboratory.	↑	Reporting limit raised
RL	Reporting Limit	↓	Reporting limit lowered
↑ ↓	Raised or Lowered Limit of Reporting	MS	Matrix Spike
NCP	Non Client Parent	DUP/REP	Duplicate/Replicate sample
RPD	Relative Percent Difference	FD	Field Duplicate
LCS	Lab Control Samples		

ACCREDITATION NOTES

- * This analysis is not covered by the scope of accreditation.

All the dates in this report are expressed in day/month/year format.

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Any results out of range are marked in red.

The recovery where provided, is to be understood comprised within the specific acceptability limits.

Unless otherwise stated the result is to be understood not corrected for recovery obtained.

The laboratory considers the result not conform to the specification if its value is greater than the upper limit, and/or smaller than the lower limit. Otherwise the result is considered conform the specification. The measurement uncertainty is not considered in the conformity assessment.

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--- End of the analytical report ---