

SCIENTIFIC-RESEARCH FIRM "G A M M A"

17^a Guramishvili av.0124, Tbilisi, Georgia

Tel: (99532) 260-10-24, 260-10-22

CHEMICAL ANALYSIS OF WATER # 6014LabN^o1155w

Customer: LTD "Saqurmintsklebi"

Kind of Water	Underground		mg/l	mg-Eq
Water ID	Lugela 13.6m3	Hardness		250.471
Waterpoint	D.H.	Fr.Alkalinity		N.D.
Region		Diss O ₂	-	
Debit(m ³ /day)	-	Free CO ₂	-	
Pasport		C.O.D (mg/l O)	-	
Colour	-	General N	-	
Odour		Organic C	-	
Taste		Summary SiO ₂	-	
Turbidity (FTU)	0.24	H ₃ PO ₄	-	
pH	7.00	H ₃ BO ₃	-	
Temperature °C	-	H ₂ S	-	
Dry Resid. (mg/l)	15924.160	Residual Cl	-	
Conductiv.(S/m)	2.27500			

Cations				Anions			
Ion	mg/l	mg-Eq	mg-Eq%	Ion	mg/l	mg-Eq	mg-Eq%
NH ₄	-	-	-	*Cl	9840.920	277.6000	98.42
*Ca	4509.000	225.4500	76.29	Br	57.900	0.7247	0.26
Mg	304.000	25.0206	8.47	I	0.310	0.0024	0.00
Na	1023.000	44.6725	15.12	HCO ₃	21.960	0.3600	0.13
K	3.190	0.0818	0.03	CO ₃	N.D.	N.D.	N.D.
				SO ₄	162.000	3.3750	1.20
Sr	12.680	0.2894	0.10	NO ₂	N.D.	N.D.	N.D.
				NO ₃	-	-	-
Sum	5851.870	295.5143	100%	Sum	10083.090	282.0621	100%

<*> - above 20%; <N.D.> - not detected; <-> - not measured; Background level

mineralization (mg/l): 15934.960

The Lab. Ledearship

Zh.Gurjia

23.07.2021



CHEMICAL ANALYSIS OF WATER # 6015LabN^o1156w

Customer: Saqutmintsklebi

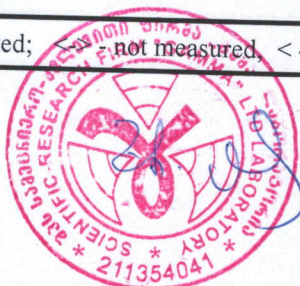
Kind of Water	Underground		
Water ID	Lugela 9.6m ³		
Waterpoint	D.H.	Hardness	mg/l
Region		Fr. Alkalinity	mg-Eq
Debit(m ³ /day)	-	Diss O ₂	601.160
Pasport		Free CO ₂	N.D.
Colour	-	C.O.D (mg/l O)	
Odour		General N	
Taste		Organic C	
Turbidity (FTU)	0.00	Summary SiO ₂	
pH	7.50	H ₃ PO ₄	
Temperature °C	-	H ₃ BO ₃	
Dry Resid. (mg/l)	37803.780	H ₂ S	
Conductiv.(S/m)	4.19900	Residual Cl	

Cations				Anions			
Ion	mg/l	mg-Eq	mg-Eq%	Ion	mg/l	mg-Eq	mg-Eq%
NH ₄	-	-	-	*Cl	23361.550	659.0000	98.56
*Ca	11773.000	588.6500	85.55	Br	121.130	1.5160	0.23
Mg	152.000	12.5103	1.82	I	0.940	0.0074	0.00
Na	1969.000	85.9825	12.50	HCO ₃	18.300	0.3000	0.04
K	4.730	0.1213	0.02	CO ₃	N.D.	N.D.	N.D.
Sr	36.130	0.8247	0.12	SO ₄	376.000	7.8333	1.17
				NO ₂	N.D.	N.D.	N.D.
				NO ₃	-	-	-
Sum	13934.860	688.0888	100%	Sum	23877.920	668.6568	100%

<*> - above 20%; <N.D.> - not detected; not measured, <- Background level

mineralization (mg/l): 37812.780

Head of Laboratory



Zh. Gurjia

23.07.2021

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17^a Guramishvili av.0124, Tbilisi, Georgia

Tel: (99532) 260-10-24, 260-10-22

CHEMICAL ANALYSIS OF WATER # 6016LabN^o1157w

Customer: LTD "Saqurmintsklebi"

Kind of Water	Underground		mg/l	mg-Eq
Water ID	Lugela 12.0m3	Hardness		488.431
Waterpoint	D.H.	Fr. Alkalinity		N.D.
Region		Diss O ₂	-	
Debit(m ³ /day)	-	Free CO ₂	-	
Pasport		C.O.D (mg/l O)	-	
Colour	-	General N	-	
Odour		Organic C	-	
Taste		Summary SiO ₂	-	
Turbidity (FTU)	0.00	H ₃ PO ₄	-	
pH	5.55	H ₃ BO ₃	-	
Temperature °C	-	H ₂ S	-	
Dry Resid. (mg/l)	29806.120	Residual Cl	-	
Conductiv.(S/m)	3.56200			

Cations				Anions			
Ion	mg/l	mg-Eq	mg-Eq%	Ion	mg/l	mg-Eq	mg-Eq%
NH ₄	-	-	-	*Cl	18114.950	511.0000	98.37
*Ca	9018.000	450.9000	79.72	Br	101.200	1.2666	0.24
Mg	456.000	37.5309	6.64	I	0.880	0.0069	0.00
Na	1749.000	76.3755	13.50	HCO ₃	41.480	0.6800	0.13
K	4.240	0.1087	0.02	CO ₃	N.D.	N.D.	N.D.
Sr	28.770	0.6567	0.12	SO ₄	312.000	6.5000	1.25
				NO ₂	N.D.	N.D.	N.D.
				NO ₃	-	-	-
Sum	11256.010	565.5718	100%	Sum	18570.510	519.4535	100%

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mineralization (mg/l): 29826.520

The Lab. Ledearship

Zh.Gurjia

23.07.2021

