

Anhang 4.2: Wasseranalysen von Anderer Quellen

Nur Fraktion Andeer

Probe	Ruinal 2	Val Pardi S	Cutschalera oben	Ruinatscha	Cufercalhütte	Tschalinghel Mellen rechts	Schweiz. Lebensmittelbuch
Datum	21.09. 2005	21.09. 2005	21.09. 2005	21.09. 2005	16.10. 2005	16.10. 2005	Erfahrungswert
Natrium Na ⁺ [mg/L]	1.05	1.17	0.96	0.56	0.56	0.22	<20
Kalium K ⁺ [mg/L]	1.49	1.81	0.69	0.50	0.16	0.10	<5
Ammonium NH ₄ ⁺ [mg/L]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Magnesium Mg ²⁺ [mg/L]	7.49	6.02	6.35	15.1	21.3	10.7	(<30 / <50)
Calcium Ca ²⁺ [mg/L]	44.3	34.0	43.6	45.5	73.5	39.7	(<200)
Kationen [mg/L]	54.3	43.0	51.6	61.7	95.5	50.7	-
Fluorid F ⁻ [mg/L]	0.04	0.03	0.02	0.02	<0.01	0.02	<0.5
Chlorid Cl ⁻ [mg/L]	0.27	0.49	0.32	0.20	0.07	0.13	<20
Nitrat NO ₃ ⁻ [mg/L]	2.62	2.76	2.62	1.64	0.33	1.22	<40
Nitrit NO ₂ ⁻ [mg/L]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hydrogenkarbonat HCO ₃ ⁻ [mg/L]	120	124	149	167	207	167	-
Sulfat SO ₄ ²⁻ [mg/L]	47.9	9.26	11.4	43.1	78.0	4.47	<50
Anionensumme [mg/L]	172.3	138.4	164.1	212.5	285.6	172.9	-
Gesamtmineralisation [mg/L]	226.7	181.4	215.7	274.1	381.1	223.7	-
Gesamthärte [°fH]	14.2	11.0	13.5	17.6	27.1	14.3	-
Karbonathärte [°fH]	9.8	10.1	12.2	13.6	16.9	13.6	-
Resthärte [°fH]	4.4	0.9	1.3	4.0	10.2	0.7	-
elektr. Leitfähigkeit K ₂₀ [µS/cm]	248	192	229	290	414	224	200-800
Wassertemperatur [°C]	4.0	5.4	5.5	5.7	2.4	3.9	8-15
Radon ²²² Rn [Bq/L]	15.7 ± 3.6	145 ± 5	167 ± 7	9.9 ± 1.0	2.0 ± 0.7	8.8 ± 2.2	-

Analysen: Labor Christian Böhm, Chur 2005

Anhang 4: Wasseranalysen von Quellen in der Gemeinde Andeer - Fraktionen Clugin und Pignia

Probe	Felsenquelle	Pro Viltng I	Pro Viltng II	Pignia oben (Quelle 1)	Pignia unten (Sammelschacht, Quelle 2)	Alp Neazza rechts	Schweiz. Lebensmittel- buch
Datum	11.11. 2008	11.11. 2008	11.11. 2008	19.06. 2009	19.06. 2009	05.07. 2009	Erfahrungs- wert
Natrium Na ⁺ [mg/L]	0.7	0.6	0.6	1.1	1.0	0.5	<20
Kalium K ⁺ [mg/L]	0.5	0.4	0.3	0.5	0.5	0.2	<5
Ammonium NH ₄ ⁺ [mg/L]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.05
Magnesium Mg ²⁺ [mg/L]	14.0	13.2	13.5	23.4	17.2	6.3	(<30 / <50)
Calcium Ca ²⁺ [mg/L]	45.6	41.7	41.0	103	85.1	63.3	(<200)
Chlorid Cl ⁻ [mg/L]	0.2	0.2	0.2	0.2	0.3	0.06	<20
Nitrat NO ₃ ⁻ [mg/L]	1.4	1.4	1.3	1.6	2.0	0.2	<40
Hydrogenkarbonat HCO ₃ ⁻ [mg/L]	191	179	181	180	162	201	-
Sulfat SO ₄ ²⁻ [mg/L]	11.2	14.4	14.4	208	143	3.7	<50
Gesamthärte [°fH]	17.1	15.8	15.8	35.3	28.3	18.4	-
Karbonathärte [°fH]	15.6	14.6	14.8	14.7	13.2	16.4	-
Resthärte [°fH]	1.5	1.2	1.0	20.6	15.1	2.0	-
elektr. Leitfähigkeit K ₂₀ [µS/cm]	274	260	256	531	446	271	200-800
Wassertemperatur [°C]	5.7	5.7	5.4	5.0	7.7	4.8	8-15
Radon-222 Rn [Bq/L]	2.3±0.6	2.0±1.3	1.8±0.8	2.5±1.0	0.9±0.4	5.3±0.6	-

Analysen: Labor Ch. Böhm, Chur