

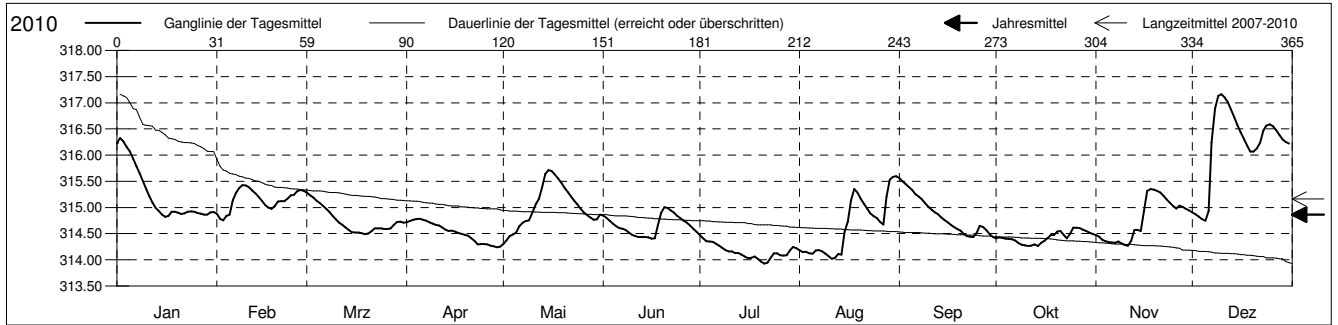
Grundwasserstände



Frenketal  
 Liestal 39.G.10 Bus Altmarkt  
 Abstichpunkt: 327.17 m ü.M.  
 OK Terrain: 327.35 m ü.M.

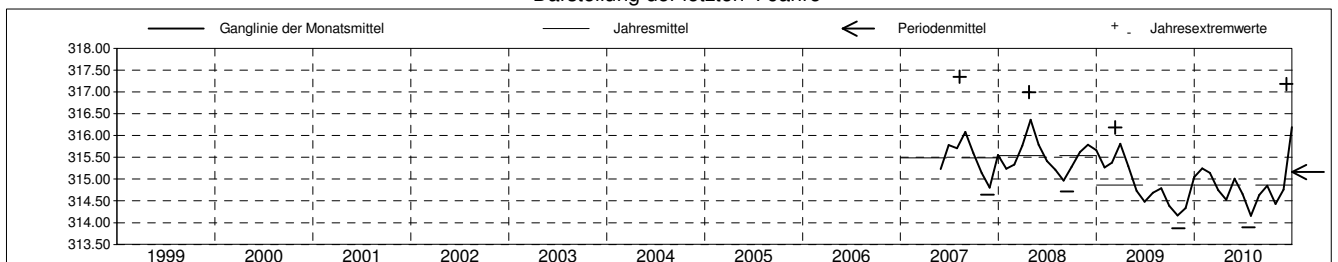
Amt für Umweltschutz und Energie  
 Kanton Basel-Landschaft  
 Koordinaten: 623090.81 / 258597.09

2010	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	316.24	314.88	315.29 +	314.72	314.30 -	314.85	314.47 +	314.19	315.56 +	314.41	314.47	314.91	1
2	316.33 +	314.78	315.23	314.74	314.38	314.80	314.41	314.15	315.50	314.43	314.44	314.87	2
3	316.27	314.75 -	315.19	314.77	314.45	314.75	314.36	314.15	315.45	314.42	314.38	314.82	3
4	316.16	314.84	315.13	314.78 +	314.49	314.69	314.35	314.13	315.39	314.41	314.36	314.78	4
5	316.07	314.86	315.08	314.78 +	314.52	314.64	314.34	314.12	315.33	314.40	314.34	314.75 -	5
Tagesmittel													
6	315.93	315.14	315.03	314.77	314.64	314.61	314.31	314.18	315.26	314.39	314.33	314.93	6
7	315.79	315.28	314.97	314.75	314.71	314.60	314.27	314.18	315.21	314.37	314.33	316.24	7
8	315.66	315.37	314.91	314.72	314.74	314.57	314.23	314.16	315.16	314.32	314.35	316.89	8
9	315.51	315.43 +	314.84	314.69	314.76	314.52	314.18	314.12	315.08	314.29	314.32	317.13	9
10	315.36	315.42	314.77	314.67	314.91	314.48	314.16	314.07	315.01	314.28	314.29	317.16 +	10
11	315.22	315.39	314.71	314.65	315.06	314.45	314.16	314.02 -	314.96	314.26 -	314.27 -	317.10	11
12	315.09	315.32	314.67	314.62	315.16	314.44	314.13	314.04	314.91	314.27	314.36	317.01	12
13	314.99	315.27	314.62	314.58	315.38	314.43	314.13	314.11	314.87	314.29	314.57	316.87	13
14	314.93	315.20	314.57	314.55	315.64	314.43	314.10	314.10	314.81	314.27	314.57	316.72	14
Max. +	314.86	315.13	314.53	314.56	315.71 +	314.43	314.06	314.54	314.76	314.33	314.55	316.57	15
16	314.82 -	315.05	314.52	314.54	315.69	314.40 -	314.04	314.73	314.72	314.36	314.93	316.44	16
17	314.84	315.00	314.52	314.52	315.63	314.41	314.04	315.14	314.67	314.42	315.32	316.31	17
18	314.92	314.98	314.51	314.50	315.55	314.67	314.06	315.35	314.62	314.47	315.36 +	316.19	18
19	314.92	315.03	314.49 -	314.48	315.47	314.90	314.02	315.28	314.59	314.47	315.34	316.07	19
Min. -	314.90	315.11	314.50	314.46	315.38	315.00 +	313.97	315.17	314.56	314.54	315.32	316.07	20
21	314.88	315.12	314.55	314.42	315.30	314.99	313.93 -	315.07	314.50	314.55	315.29	316.13	21
22	314.89	315.12	314.60	314.36	315.21	314.94	313.95	314.98	314.46	314.48	315.22	316.24	22
23	314.92	315.17	314.60	314.30	315.13	314.90	314.04	314.89	314.44 -	314.41	315.15	316.47	23
24	314.93	315.23	314.60	314.30	315.06	314.84	314.13	314.84	314.44 -	314.50	315.09	316.56	24
25	314.92	315.25	314.59	314.30	314.98	314.80	314.12	314.80	314.51	314.61 +	315.03	316.59	25
26	314.90	315.31	314.59	314.29	314.91	314.75	314.09	314.73	314.65	314.61 +	314.98	316.55	26
27	314.88	315.33	314.60	314.27	314.85	314.71	314.08	314.67	314.62	314.61 +	315.03	316.48	27
28	314.86	315.32	314.67	314.26	314.81	314.66	314.09	315.21	314.56	314.58	315.01	316.39	28
29	314.86		314.73	314.24 -	314.77	314.60	314.18	315.53	314.49	314.55	314.97	316.30	29
30	314.91		314.73	314.25	314.77	314.54	314.25	315.58	314.44 -	314.52	314.94	316.25	30
31	314.91		314.71		314.87		314.22	315.60 +		314.50		316.22	31
Monatsmittel	315.25	315.15	314.74	314.53	315.01	314.66	314.16 -	314.64	314.85	314.43	314.76	316.19 +	
Maximum	316.34	315.45	315.31	314.80	315.72	315.02	314.50 -	315.62	315.59	314.65	315.37	317.18 +	
Datum	02.01	09.02	01.03	04.04	15.05	20.06	01.07	30.08	01.09	25.10	17.11	09.12	
Amplitude	1.56	0.73	0.84	0.60	1.47	0.64	0.60	1.66	1.19	0.43	1.13	2.46	
Jahr 2010	Mittel	314.86 m ü.M.		Maximum	317.18 (09.Dez)		Minimum	313.90 (22.Jul)		Amplitude	3.28 m		



Periode	2007 - 2010												
Monatsmittel	315.25	315.29	315.44	315.40	315.19	315.08	314.94	315.12	315.03	314.84 -	314.92	315.62 +	
Maximum	316.34	315.73 -	316.18	316.99	316.50	316.46	316.03	317.35 +	316.30	316.78	316.76	317.18	
Jahr	2010	2009	2009	2008	2008	2007	2007	2007	2008	2008	2008	2010	
Minimum	314.78 +	314.72	314.47	314.21	314.25	314.31	313.90	313.96	314.21	313.90	313.88 -	314.52	
Jahr	2010	2010	2010	2010	2010	2009	2010	2010	2009	2009	2009	2009	
Amplitude	1.56	0.78 -	0.87	1.30	1.47	1.23	1.39	2.13	1.58	1.79	1.42	2.46 +	
Jahr	2010	2009	2008	2008	2010	2007	2009	2007	2008	2008	2008	2010	
Periode	Mittel	315.16 m ü.M.		Maximum	317.35 (09.Aug 2007)		Minimum	313.88 (02.Nov 2009)		Amplitude	3.47 m		

Darstellung der letzten 4 Jahre



**Grundwassertemperatur**



Frenketal

Liestal

Abstichpunkt:

OK Terrain:

39.G.10

327.17

327.35

Bus Altmarkt

m ü.M.

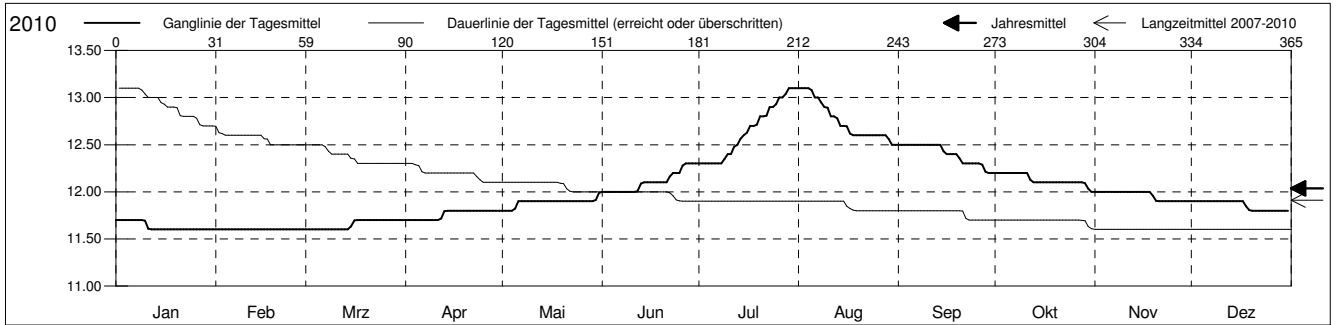
m ü.M.

**Amt für Umweltschutz und Energie**

**Kanton Basel-Landschaft**

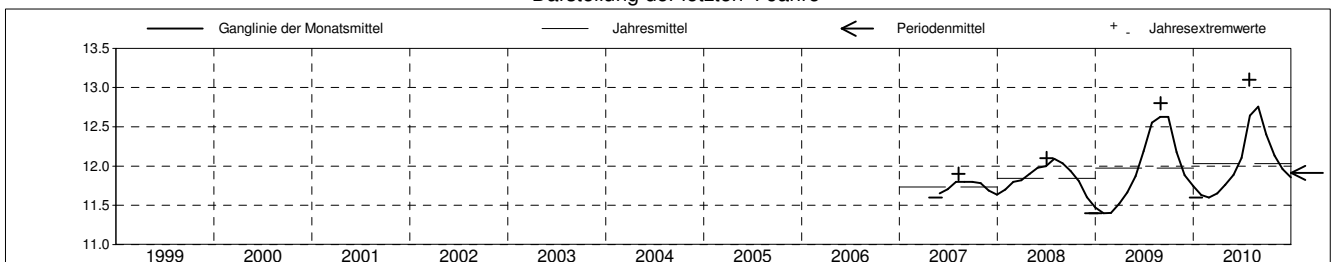
Koordinaten: 623090.81 / 258597.09

2010	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	11.7 +	11.6 +	11.6 -	11.7 -	11.8 -	12.0 -	12.3 -	13.1 +	12.5 +	12.2 +	12.0 +	11.9 +	1
2	11.7 +	11.6 +	11.6 -	11.7 -	11.8 -	12.0 -	12.3 -	13.1 +	12.5 +	12.2 +	12.0 +	11.9 +	2
3	11.7 +	11.6 +	11.6 -	11.7 -	11.8 -	12.0 -	12.3 -	13.1 +	12.5 +	12.2 +	12.0 +	11.9 +	3
4	11.7 +	11.6 +	11.6 -	11.7 -	11.8 -	12.0 -	12.3 -	13.1 +	12.5 +	12.2 +	12.0 +	11.9 +	4
5	11.7 +	11.6 +	11.6 -	11.7 -	11.8 -	12.0 -	12.3 -	13.1 +	12.5 +	12.2 +	12.0 +	11.9 +	5
Tagesmittel													
6	11.7 +	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.3 -	13.0	12.5 +	12.2 +	12.0 +	11.9 +	6
7	11.7 +	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.3 -	13.0	12.5 +	12.2 +	12.0 +	11.9 +	7
8	11.7 +	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.3 -	12.9	12.5 +	12.2 +	12.0 +	11.9 +	8
9	11.7 +	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.4	12.9	12.5 +	12.2 +	12.0 +	11.9 +	9
10	11.7 +	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.4	12.9	12.5 +	12.2 +	12.0 +	11.9 +	10
11	11.6 -	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.4	12.8	12.5 +	12.2 +	12.0 +	11.9 +	11
12	11.6 -	11.6 +	11.6 -	11.7 -	11.9	12.0 -	12.5	12.8	12.5 +	12.1	12.0 +	11.9 +	12
13	11.6 -	11.6 +	11.6 -	11.8 +	11.9	12.1	12.5	12.8	12.5 +	12.1	12.0 +	11.9 +	13
14	11.6 -	11.6 +	11.6 -	11.8 +	11.9	12.1	12.6	12.7	12.5 +	12.1	12.0 +	11.9 +	14
15	11.6 -	11.6 +	11.6 -	11.8 +	11.9	12.1	12.6	12.7	12.4	12.1	12.0 +	11.9 +	15
Max. +													
16	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.1	12.6	12.7	12.4	12.1	12.0 +	11.9 +	16
17	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.1	12.7	12.6	12.4	12.1	12.0 +	11.9 +	17
18	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.1	12.7	12.6	12.4	12.1	12.0 +	11.8 -	18
19	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.1	12.7	12.6	12.4	12.1	12.0 +	11.8 -	19
20	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.1	12.8	12.6	12.4	12.1	11.9 -	11.8 -	20
Min. -													
21	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.1	12.8	12.6	12.3	12.1	11.9 -	11.8 -	21
22	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.2	12.8	12.6	12.3	12.1	11.9 -	11.8 -	22
23	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.2	12.9	12.6	12.3	12.1	11.9 -	11.8 -	23
24	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.2	12.9	12.6	12.3	12.1	11.9 -	11.8 -	24
25	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.2	12.9	12.6	12.3	12.1	11.9 -	11.8 -	25
26	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.3 +	13.0	12.6	12.3	12.1	11.9 -	11.8 -	26
27	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.3 +	13.0	12.6	12.3	12.1	11.9 -	11.8 -	27
28	11.6 -	11.6 +	11.7 +	11.8 +	11.9	12.3 +	13.0	12.6	12.2 -	12.1	11.9 -	11.8 -	28
29	11.6 -		11.7 +	11.8 +	11.9	12.3 +	13.1 +	12.6	12.2 -	12.1	11.9 -	11.8 -	29
30	11.6 -		11.7 +	11.8 +	11.9	12.3 +	13.1 +	12.5 -	12.2 -	12.0 -	11.9 -	11.8 -	30
31	11.6 -		11.7 +		12.0 +		13.1 +	12.5 -		12.0 -		11.8 -	31
Monatsmittel	11.6 -	11.6 -	11.7	11.8	11.9	12.1	12.6	12.8 +	12.4	12.1	12.0	11.9	
Maximum	11.7	11.6 -	11.7	11.8	12.0	12.3	13.1 +	13.1 +	12.5	12.2	12.0	11.9	
Datum	01.01	01.02	15.03	12.04	30.05	26.06	28.07	01.08	01.09	01.10	01.11	01.12	
Minimum	11.6 -	11.6 -	11.6 -	11.7	11.8	12.0	12.3	12.5 +	12.2	12.0	11.9	11.8	
Datum	10.01	01.02	01.03	01.04	01.05	01.06	01.07	29.08	27.09	29.10	19.11	18.12	
Amplitude	0.1	0.0 +	0.1	0.1	0.2	0.3	0.8	0.6	0.3	0.2	0.1	0.1	
Jahr 2010	Mittel	12.0 °C		Maximum	13.1 (28.Jul)		Minimum	11.6 (10.Jan)		Amplitude	1.5 °C		



Periode	2007 - 2010												
Monatsmittel	11.6 -	11.6 -	11.7	11.8	11.8	12.0	12.3 +	12.3 +	12.2	12.0	11.8	11.7	
Maximum	11.8 -	11.8 -	11.9	12.0	12.0	12.4	13.1 +	13.1 +	12.8	12.3	12.0	11.9	
Jahr	2008	2008	2008	2008	2008	2009	2010	2010	2009	2009	2009	2010	
Minimum	11.4 -	11.4 -	11.4 -	11.6	11.6	11.7	11.8 +	11.8 +	11.8 +	11.7	11.5	11.4 -	
Jahr	2009	2009	2009	2009	2007	2007	2007	2007	2007	2007	2008	2008	
Amplitude	0.2	0.1 -	0.2	0.2	0.2	0.4	0.8 +	0.6	0.5	0.3	0.2	0.1 -	
Jahr	2008	2009	2009	2009	2009	2009	2010	2010	2009	2009	2008	2008	
Periode	Mittel	11.9 °C		Maximum	13.1 (28.Jul 2010)		Minimum	11.4 (16.Dez 2008)		Amplitude	1.7 °C		

Darstellung der letzten 4 Jahre



# Grundwasserspiegel im Frenketal

Station 39.G.10 Liestal

Opm 219632

Bus Altmarkt

Koordinaten: 623'090.8 / 258'597.1

Messwerte: Grundwasserspiegel  
Temperatur

OK. Terrain  
327.35 m ü.M.

OK.Rohr  
327.17 m ü.M.

FA GM

Grundwasserspiegel

Kies-Schotter

10.00	<b>317.35</b>	<b>Maximum</b>
14.80		09.08.2007 13.1 °C
12.19	<b>315.27</b>	<b>Mittelwert</b>
12.61		<b>2007-2010</b> 11.9 °C
13.47	<b>313.88</b>	<b>Minimum</b>
11.33		02.11.2009 11.4 °C

Sondenhöhe = 310.17

4.5" HPE-Rohr  
geschliffen von 304.31 bis 315.74m ü.M.

302.55

Fels

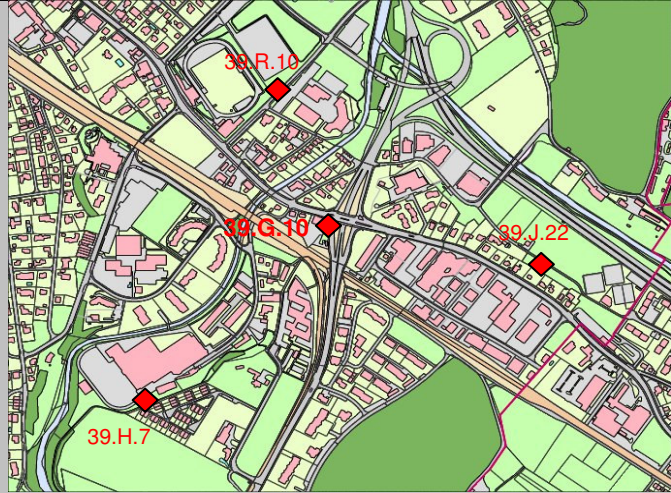
Opalinus-  
ton (Dogger)

UK. Sondierung  
301.35

FA= Flurabstände

GM= Grundwassermächtigkeit in m

## Kartenausschnitt Liestal



## Situationsplan Liestal

