



Survey afdeling
Baggerbedrijf De Boer bv
Dr. Langeveldplein 11 3361HE Sliedrecht
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Meetresultaten

Verticale waarnemingen (in m t.o.v. NAP)

		TO	Kwartaal 4 2014	Kwartaal 1 2015	Kwartaal 2 2015	Kwartaal 3 2015	Kwartaal 4 2015	Kwartaal 1 2016	Kwartaal 2 2016	Kwartaal 3 2016	Kwartaal 4 2016	Kwartaal 1 2017	Kwartaal 2 2017	Kwartaal 3 2017	Kwartaal 4 2017
Relatief	Puntnr.	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut	Absoluut
	2	2.978	2.973	2.972	2.974	2.975	2.973	2.972	2.972	-	-	-	-	-	-
1	3	2.864	2.861	2.856	2.858	2.857	2.856	2.857	2.857	-	-	-	-	-	-
2	4	2.967	2.967	2.962	2.963	2.964	2.963	2.962	2.962	-	-	-	-	-	-
3	5	2.972	2.972	2.966	2.967	2.968	2.967	2.967	2.968	-	-	-	-	-	-
4	6	3.006	3.013	3.001	3.002	3.001	3.001	3.001	3.001	-	-	-	-	-	-
5	7	3.033	3.011	3.023	3.023	3.022	3.023	3.023	3.024	-	-	-	-	-	-
6	9	3.539	3.532	3.532	3.532	3.531	3.532	3.532	3.533	-	-	-	-	-	-
7	10	3.536	3.530	3.529	3.528	3.528	3.529	3.528	3.529	-	-	-	-	-	-
8	11	3.358	3.352	3.353	3.353	3.353	3.354	3.353	3.354	-	-	-	-	-	-
9	12	3.298	3.292	3.288	3.287	3.287	3.287	3.287	3.288	-	-	-	-	-	-
10	12->2	2.981	2.972												
11	1A	2.864			2.866	2.867	2.866	2.866	2.866	2.865	2.864	2.864	2.863	2.863	2.862
12	2A	2.793			2.795	2.795	2.795	2.794	2.794	2.794	2.792	2.792	2.792	2.791	2.790
13	3A	2.774			2.775	2.776	2.774	2.774	2.774	2.773	2.774	2.773	2.772	2.770	2.770
14	4A	2.817			2.818	2.819	2.818	2.817	2.818	2.817	2.815	2.816	2.816	2.813	2.814
15	5A	2.694			2.696	2.696	2.695	2.695	2.695	2.694	2.692	2.693	2.692	2.690	2.691
16	6A	2.830			2.830	2.829	2.830	2.830	2.832	2.830	2.828	2.830	2.829	2.826	2.828
17	7A	2.772			2.774	2.774	2.773	2.773	2.774	2.773	2.772	2.773	2.772	2.769	2.771
18	8A	3.200			3.201	3.202	3.201	3.200	3.202	3.200	3.198	3.200	3.199	3.195	3.197
19	9A	3.249			3.250	3.249	3.249	3.249	3.250	3.249	3.246	3.248	3.248	3.245	3.246
20	10A	3.214			3.215	3.214	3.216	3.214	3.216	3.214	3.212	3.213	3.213	3.210	3.211
21	11A	3.015			3.014	3.015	3.015	3.014	3.015	3.014	3.013	3.014	3.013	3.011	3.011
22	12A	2.934			2.934	2.933	2.934	2.934	2.934	2.933	2.932	2.933	2.933	2.931	2.931
23	13A	2.952			2.952	2.952	2.952	2.952	2.952	2.950	2.948	2.949	2.949	2.948	2.948
24	Bolder 1	3.922			3.922	3.922	3.922	3.922	3.922	3.920	3.920	3.921	3.921	3.919	3.919
25	Bolder 2	3.808			3.810	3.812	3.811	3.808	3.811	3.810	3.808	3.811	3.810	3.808	3.810

Horizontale waarnemingen (Projectie RD in m)

	T0		Kwartaal 4 2014		Kwartaal 1 2015		Kwartaal 2 2015		Kwartaal 3 2015		Kwartaal 4 2015		Kwartaal 1 2016		Kwartaal 2 2016		Kwartaal 3 2016	
Puntnr.	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
2	97567.989	411976.678	97567.990	411976.674	97567.985	411976.676												
3	97810.139	412040.844	97810.149	412040.875	97810.144	412040.874												
4	98051.534	412104.777	98051.530	412104.772	98051.520	412104.777												
5	98293.527	412168.731	98293.512	412168.725	98293.517	412168.729												
6	98435.594	412272.886	98435.576	412272.879	98435.571	412272.876												
7	98457.663	412439.608	98457.670	412439.611	98457.664	412439.606												
9	98174.596	412618.365	98174.617	412618.362	98174.614	412618.357												
10	97934.022	412550.229	97934.033	412550.226	97934.032	412550.219												
11	97693.549	412481.863	97693.564	412481.860	97693.558	412481.859												
12	97452.790	412413.591	97452.800	412413.595	97452.795	412413.593												
1A	97348.177	411942.165					97348.174	411942.176	97348.174	411942.157	97348.172	411942.165	97348.177	411942.171	97348.180	411942.167	97348.185	411942.170
2A	97571.705	411978.359					97571.697	411978.363	97571.696	411978.346	97571.700	411978.356	97571.698	411978.353	97571.699	411978.352	97571.704	411978.356
3A	97814.443	412042.576					97814.442	412042.569	97814.439	412042.557	97814.449	412042.572	97814.441	412042.572	97814.448	412042.572	97814.450	412042.571
4A	98054.605	412106.156					98054.599	412106.172	98054.599	412106.140	98054.604	412106.160	98054.595	412106.163	98054.602	412106.165	98054.605	412106.162
5A	98296.186	412170.446					98296.191	412170.456	98296.184	412170.431	98296.185	412170.440	98296.181	412170.436	98296.186	412170.438	98296.185	412170.441
6A	98455.964	412442.902					98455.965	412442.908	98455.968	412442.907	98455.968	412442.903	98455.959	412442.904	98455.965	412442.908	98455.964	412442.902
7A	98435.941	412275.294					98435.936	412275.296	98435.937	412275.296	98435.938	412275.294	98435.936	412275.292	98435.940	412275.299	98435.937	412275.301
8A	98346.840	412597.715					98346.839	412597.716	98346.844	412597.718	98346.842	412597.713	98346.839	412597.706	98346.840	412597.714	98346.838	412597.705
9A	98171.989	412616.663					98171.984	412616.657	98171.995	412616.667	98171.995	412616.661	98171.987	412616.657	98171.988	412616.663	98171.988	412616.658
10A	97930.840	412548.221					97930.832	412548.220	97930.840	412548.221	97930.840	412548.225	97930.839	412548.213	97930.837	412548.225	97930.832	412548.219
11A	97690.284	412479.866					97690.284	412479.876	97690.290	412479.873	97690.290	412479.874	97690.284	412479.864	97690.288	412479.871	97690.285	412479.873
12A	97449.792	412411.638					97449.788	412411.639	97449.794	412411.635	97449.793	412411.638	97449.788	412411.635	97449.793	412411.639	97449.792	412411.639
13A	97268.269	412349.516					97268.277	412349.512	97268.276	412349.508	97268.277	412349.517	97268.274	412349.512	97268.274	412349.516	97268.273	412349.509



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Horizontale waarnemingen (Projectie RD in m) (vervolg)

Puntnr.	Kwartaal 4 2016		Kwartaal 1 2017		Kwartaal 2 2017		Kwartaal 3 2017		Kwartaal 4 2017	
	X	Y	X	Y	X	Y	X	Y	X	Y
2										
3										
4										
5										
6										
7										
9										
10										
11										
12										
1A	97348.179	411942.168	97348.179	411942.161	97348.183	411942.165	97348.185	411942.168	97348.177	411942.159
2A	97571.695	411978.351	97571.704	411978.355	97571.699	411978.355	97571.708	411978.360	97571.699	411978.352
3A	97814.442	412042.569	97814.449	412042.572	97814.447	412042.585	97814.451	412042.545	97814.455	412042.583
4A	98054.598	412106.159	98054.604	412106.163	98054.602	412106.160	98054.611	412106.152	98054.612	412106.159
5A	98296.180	412170.434	98296.187	412170.438	98296.188	412170.431	98296.183	412170.424	98296.190	412170.438
6A	98455.965	412442.904	98455.968	412442.905	98455.966	412442.902	98455.983	412442.898	98455.968	412442.901
7A	98435.934	412275.298	98435.940	412275.299	98435.936	412275.308	98435.941	412275.271	98435.946	412275.294
8A	98346.840	412597.711	98346.834	412597.710	98346.838	412597.707	98346.845	412597.715	98346.845	412597.713
9A	98171.988	412616.661	98171.985	412616.660	98171.986	412616.659	98171.988	412616.666	98171.990	412616.666
10A	97930.834	412548.219	97930.832	412548.221	97930.834	412548.221	97930.837	412548.217	97930.837	412548.221
11A	97690.286	412479.870	97690.280	412479.869	97690.284	412479.867	97690.283	412479.877	97690.285	412479.866
12A	97449.791	412411.640	97449.786	412411.634	97449.783	412411.631	97449.786	412411.638	97449.795	412411.652
13A	97268.274	412349.516	97268.268	412349.511	97268.268	412349.517	97268.275	412349.515	97268.275	412349.518

Toetsing meetresultaten huidig kwartaal

Puntnr.	Kwartaal 4 2017			
	Horizontale waarnemingen		Verticale waarnemingen	
	oxy [mm]	Voldoet	sz	Voldoet
			sluitfout[mm]	
2			0.14	JA
3				
4				
5				
6				
7				
9				
10				
11				
12				
1A	0.14	JA		
2A	0.10	JA		
3A	0.10	JA		
4A	0.10	JA		
5A	0.10	JA		
6A	0.00	JA		
7A	0.10	JA		
8A	0.10	JA		
9A	0.00	JA		
10A	0.14	JA		
11A	0.14	JA		
12A	0.10	JA		
13A	0.10	JA		



Deformatie

Puntnr.	Kwartaal 4 2014 t.o.v. T0				Kwartaal 1 2015 t.o.v. T0				Kwartaal 2 2015 t.o.v. T0				Kwartaal 3 2015 t.o.v. T0				Kwartaal 4 2015 t.o.v. T0				Kwartaal 1 2016 t.o.v. T0			
	dX	dY	dZ		dX	dY	dZ		dX	dY	dZ		dX	dY	dZ		dX	dY	dZ		dX	dY	dZ	
2	0.001	-0.004	-0.005		-0.004	-0.003	-0.006				-0.004				-0.003				-0.005				-0.006	
3	0.010	0.031	-0.003		0.005	0.031	-0.008				-0.006				-0.005				-0.007				-0.008	
4	-0.004	-0.005	0.001		-0.014	0.000	-0.005				-0.004				-0.003				-0.004				-0.005	
5	-0.015	-0.006	0.000		-0.010	-0.002	-0.006				-0.005				-0.004				-0.005				-0.005	
6	-0.018	-0.007	0.008		-0.022	-0.010	-0.005				-0.004				-0.005				-0.005				-0.005	
7	0.007	0.003	-0.022		0.000	-0.002	-0.010				-0.010				-0.011				-0.010				-0.010	
9	0.021	-0.003	-0.007		0.017	-0.008	-0.007				-0.007				-0.008				-0.007				-0.007	
10	0.011	-0.003	-0.006		0.009	-0.010	-0.007				-0.008				-0.008				-0.007				-0.008	
11	0.015	-0.003	-0.006		0.010	-0.003	-0.005				-0.005				-0.005				-0.004				-0.005	
12	0.010	0.004	-0.007		0.005	0.001	-0.010				-0.011				-0.011				-0.011				-0.011	
1A									-0.002	0.011	0.002		-0.003	-0.008	0.003		-0.005	0.000	0.002		0.000	0.006	0.002	
2A									-0.008	0.004	0.002		-0.010	-0.012	0.002		-0.005	-0.003	0.002		-0.007	-0.006	0.001	
3A									-0.001	-0.008	0.001		-0.005	-0.019	0.002		0.005	-0.004	0.000		-0.003	-0.005	0.000	
4A									-0.006	0.016	0.001		-0.006	-0.015	0.002		-0.001	0.004	0.001		-0.010	0.008	0.000	
5A									0.005	0.010	0.002		-0.002	-0.015	0.002		-0.001	-0.006	0.001		-0.005	-0.010	0.001	
6A									0.001	0.006	0.000		0.005	0.005	-0.001		0.004	0.001	0.000		-0.005	0.001	0.000	
7A									-0.005	0.002	0.002		-0.004	0.002	0.002		-0.004	0.000	0.001		-0.005	-0.002	0.001	
8A									-0.001	0.002	0.001		0.004	0.003	0.002		0.002	-0.002	0.001		-0.001	-0.008	0.000	
9A									-0.005	-0.005	0.001		0.006	0.004	0.000		0.005	-0.001	0.000		-0.003	-0.006	0.000	
10A									-0.008	-0.001	0.001		0.000	0.000	0.000		0.001	0.004	0.002		-0.001	-0.008	0.000	
11A									0.000	0.009	-0.001		0.006	0.007	0.000		0.006	0.008	0.000		0.000	-0.003	-0.001	
12A									-0.003	0.001	0.000		0.003	-0.003	-0.001		0.001	0.000	0.000		-0.003	-0.003	0.000	
13A									0.009	-0.005	0.000		0.007	-0.008	0.000		0.008	0.000	0.000		0.005	-0.005	0.000	

Deformatie (vervolg)

Puntnr.	Kwartaal 2 2016 t.o.v. T0				Kwartaal 3 2016 t.o.v. T0				Kwartaal 4 2016 t.o.v. T0				Kwartaal 1 2017 t.o.v. T0				Kwartaal 2 2017 t.o.v. T0				Kwartaal 3 2017 t.o.v. T0			
	dX	dY	dZ		dX	dY	dZ		dX	dY	dZ		dX	dY	dZ		dX	dY	dZ		dX	dY	dZ	
2			-0.006				-				-				-				-				-	
3			-0.007				-				-				-				-				-	
4			-0.005				-				-				-				-				-	
5			-0.004				-				-				-				-				-	
6			-0.005				-				-				-				-				-	
7			-0.009				-				-				-				-				-	
9			-0.006				-				-				-				-				-	
10			-0.007				-				-				-				-				-	
11			-0.004				-				-				-				-				-	
12			-0.010				-				-				-				-				-	
1A	0.003	0.002	0.002		0.008	0.005	0.001		0.002	0.003	0.000		0.002	-0.004	0.000		0.007	-0.001	-0.001		0.008	0.003	-0.001	
2A	-0.006	-0.007	0.001		-0.001	-0.002	0.001		-0.010	-0.008	-0.001		-0.002	-0.004	-0.001		-0.007	-0.003	-0.001		0.003	0.001	-0.002	
3A	0.004	-0.004	0.000		0.007	-0.005	-0.001		-0.001	-0.008	0.000		0.005	-0.004	-0.001		0.004	0.009	-0.002		0.008	-0.032	-0.004	
4A	-0.003	0.010	0.001		0.000	0.007	0.000		-0.007	0.004	-0.002		-0.001	0.007	-0.001		-0.004	0.004	-0.001		0.006	-0.003	-0.004	
5A	0.000	-0.008	0.001		-0.001	-0.005	0.000		-0.006	-0.013	-0.002		0.000	-0.008	-0.001		0.002	-0.015	-0.002		-0.003	-0.022	-0.004	
6A	0.002	0.006	0.002		0.000	0.000	0.000		0.002	0.002	-0.002		0.004	0.003	0.000		0.003	-0.001	-0.001		0.020	-0.004	-0.004	
7A	-0.001	0.005	0.002		-0.004	0.006	0.001		-0.007	0.003	0.000		-0.001	0.005	0.001		-0.005	0.013	0.000		0.000	-0.024	-0.003	
8A	0.000	-0.001	0.002		-0.002	-0.010	0.000		0.000	-0.004	-0.002		-0.006	-0.005	0.000		-0.002	-0.007	-0.001		0.005	0.001	-0.005	
9A	-0.002	0.000	0.001		-0.002	-0.005	0.000		-0.001	-0.001	-0.003		-0.005	-0.003	-0.001		-0.003	-0.004	-0.001		-0.001	0.003	-0.004	
10A	-0.003	0.004	0.002		-0.008	-0.002	0.000		-0.006	-0.002	-0.002		-0.008	0.000	-0.001		-0.006	0.000	-0.001		-0.002	-0.004	-0.004	
11A	0.004	0.004	0.000		0.001	0.007	-0.001		0.002	0.004	-0.002		-0.004	0.003	-0.001		0.000	0.001	-0.002		0.000	0.011	-0.004	
12A	0.002	0.001	0.000		0.001	0.001	-0.001		-0.001	0.002	-0.002		-0.006	-0.004	-0.001		-0.009	-0.007	-0.001		-0.006	0.000	-0.003	
13A	0.006	-0.001	0.000		0.004	-0.007	-0.002		0.005	0.000	-0.004		-0.001	-0.006	-0.003		-0.001	0.001	-0.003		0.006	-0.002	-0.004	



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Deformatie (vervolg)

Puntnr.	Kwartaal 4 2017 t.o.v. T0		
	dX	dY	dZ
2			-
3			-
4			-
5			-
6			-
7			-
9			-
10			-
11			-
12			-
1A	0.000	-0.006	-0.002
2A	-0.007	-0.007	-0.003
3A	0.012	0.006	-0.004
4A	0.007	0.004	-0.003
5A	0.004	-0.008	-0.003
6A	0.005	-0.001	-0.002
7A	0.005	0.000	-0.001
8A	0.005	-0.001	-0.003
9A	0.000	0.003	-0.003
10A	-0.003	0.001	-0.003
11A	0.001	0.000	-0.004
12A	0.003	0.014	-0.003
13A	0.006	0.001	-0.004



Absolute Hoogten t.o.v. NAP Oude meetpunten (spijkers)

LEGENDA



