

# Level Report

Report created: 26-07-2023 13:15:05

## Project Details

### General

Project Name: 237162 - Hoogtemeting op en nabij stuw Junne  
 Owner: [REDACTED]  
 Lead Surveyor: [REDACTED]  
 Date Created: 26-07-2023 12:09:20  
 Last Accessed: 26-07-2023 12:09:20  
 Application Software: Infinity 4.1.0

### Customer Details

Customer Name: Waterschap Vechtstromen  
 Contact Person: [REDACTED]  
 Number: +31 (0) 6 [REDACTED]  
 Email: [REDACTED]@vechtstromen.nl  
 Skype: -  
 Website: [www.vechtstromen.nl](http://www.vechtstromen.nl)

### Master Coordinate System

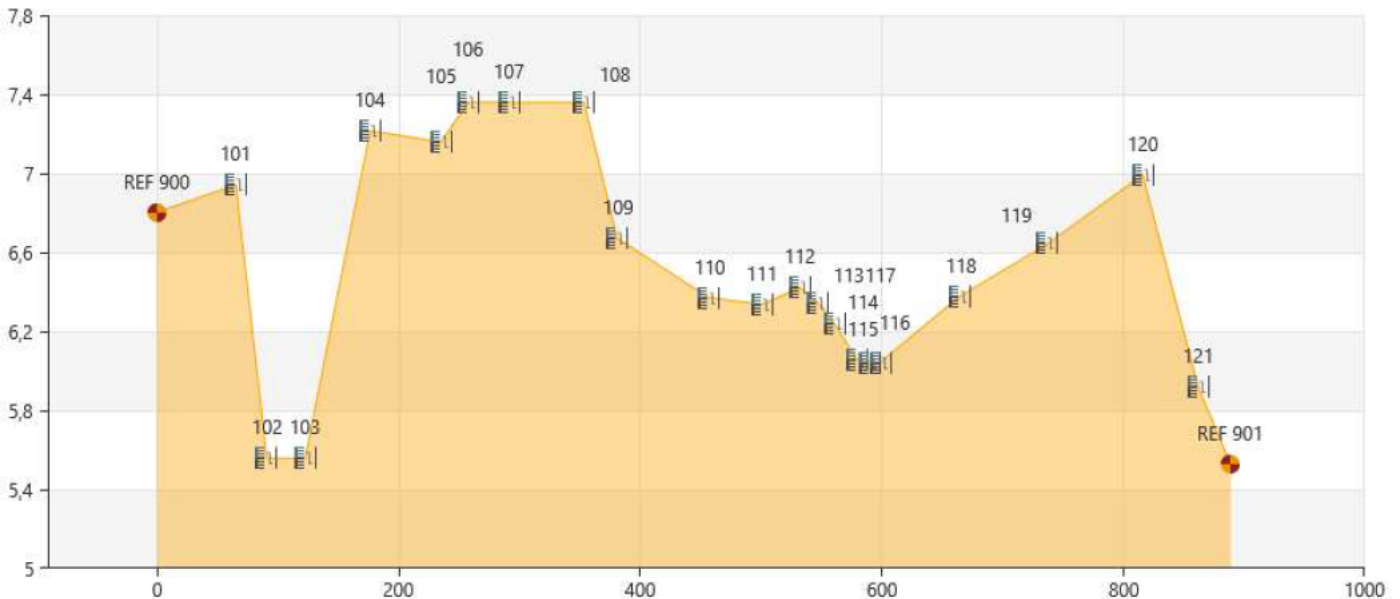
Coordinate System Name: None  
 Transformation Type: -  
 Residual Distribution: -  
 Ellipsoid: -  
 Projection Type: -  
 Geoid Model: -  
 CSCS Model: -

Path: C:\Users\[REDACTED]\Documents\Leica Geosystems\Infinity\Projects\237162 - Hoogtemeting op en nabij stuw Junne\237162 - Hoogtemeting op en nabij stuw Junne.iprj...

Size: 0,3 MB

Comments: -

## Level Line Id: Hermeting 24 juli 2023



### General

Date/Time: 26-7-2023 13:14:09  
 Staff One Id: [REDACTED]  
 Staff Two Id: [REDACTED]  
 Start Point: REF 900  
 End Point: REF 901  
 Instrument Type:  
 Method: BF  
 Stations: 22  
 Observations: 44

### Results

Height Difference: -1,2780 m  
 Length: 889,2384 m  
 Misclosure: -0,0006 m  
 Height Error / Point: 0,0000 m  
 Total Distance Balance: 0,7391 m  
 Total Station Difference: -

### Processing Parameters

Adjustment Method: By Distance  
 Staff Corrections: Not Applied

### Points

Point Id	Date/Time	Height [m]	ΔHeight [m]	SD [m]
REF 900	26-7-2023 12:10:31	6,8030	-	-
1	26-7-2023 13:14:14	6,8878	0,0848	0,0000

2	26-7-2023 13:14:16	6,8798	0,0768	0,0000
3	26-7-2023 13:14:18	6,8764	0,0734	0,0000
4	26-7-2023 13:14:20	6,8466	0,0436	0,0000
101	26-7-2023 13:14:22	6,9425	0,1395	0,0001
102	26-7-2023 13:14:26	5,5582	-1,3843	0,0001
9	26-7-2023 13:14:30	4,9195	-0,6387	0,0001
10	26-7-2023 13:14:32	4,8327	-0,7255	0,0001
7	26-7-2023 13:14:34	4,9086	-0,6496	0,0001
8	26-7-2023 13:14:36	4,9172	-0,6410	0,0001
5	26-7-2023 13:14:38	4,7824	-0,7758	0,0001
6	26-7-2023 13:14:40	4,8636	-0,6946	0,0001
103	26-7-2023 13:14:42	5,5583	0,0001	0,0001
11	26-7-2023 13:14:46	7,1926	1,6343	0,0001
12	26-7-2023 13:14:48	7,1838	1,6255	0,0001
14	26-7-2023 13:14:50	7,1601	1,6018	0,0001
104	26-7-2023 13:14:52	7,2160	1,6577	0,0001
13	26-7-2023 13:14:56	7,1470	-0,0690	0,0001
105	26-7-2023 13:14:58	7,1586	-0,0574	0,0001
15	26-7-2023 13:15:02	7,3330	0,1745	0,0001
106	26-7-2023 13:15:04	7,3598	0,2012	0,0001
16	26-7-2023 13:15:08	7,3307	-0,0291	0,0001
22	26-7-2023 13:15:10	7,2731	-0,0866	0,0001
21	26-7-2023 13:15:12	7,2849	-0,0749	0,0001
23	26-7-2023 13:15:14	7,2304	-0,1294	0,0001
24	26-7-2023 13:15:16	7,2260	-0,1338	0,0001
20	26-7-2023 13:15:18	7,2371	-0,1227	0,0001
107	26-7-2023 13:15:20	7,3599	0,0001	0,0001
19	26-7-2023 13:15:24	7,2375	-0,1224	0,0001
18	26-7-2023 13:15:26	7,2646	-0,0953	0,0001
17	26-7-2023 13:15:28	7,1725	-0,1874	0,0001
108	26-7-2023 13:15:30	7,3596	-0,0003	0,0001
109	26-7-2023 13:15:34	6,6723	-0,6872	0,0001
110	26-7-2023 13:15:38	6,3717	-0,3006	0,0002
28	26-7-2023 13:15:42	6,3498	-0,0219	0,0002
26	26-7-2023 13:15:44	6,3556	-0,0161	0,0002
111	26-7-2023 13:15:46	6,3370	-0,0347	0,0002
27	26-7-2023 13:15:50	6,3950	0,0581	0,0002
112	26-7-2023 13:15:52	6,4229	0,0859	0,0002
30	26-7-2023 13:15:56	6,5675	0,1446	0,0002
31	26-7-2023 13:15:58	6,3019	-0,1210	0,0002
113	26-7-2023 13:16:00	6,3426	-0,0803	0,0002
29	26-7-2023 13:16:04	6,4684	0,1259	0,0002
32	26-7-2023 13:16:06	6,1868	-0,1558	0,0002
33	26-7-2023 13:16:08	6,1744	-0,1682	0,0002
114	26-7-2023 13:16:10	6,2378	-0,1048	0,0002
34	26-7-2023 13:16:14	6,0348	-0,2029	0,0002
115	26-7-2023 13:16:16	6,0568	-0,1809	0,0002
35	26-7-2023 13:16:20	6,2122	0,1554	0,0002
116	26-7-2023 13:16:22	6,0433	-0,0135	0,0002
37	26-7-2023 13:16:26	6,0775	0,0342	0,0002
36	26-7-2023 13:16:28	6,3031	0,2598	0,0002
117	26-7-2023 13:16:30	6,0433	0,0000	0,0002
118	26-7-2023 13:16:34	6,3798	0,3364	0,0002
119	26-7-2023 13:16:38	6,6443	0,2645	0,0002
120	26-7-2023 13:16:42	6,9921	0,3478	0,0002
121	26-7-2023 13:16:46	5,9164	-1,0757	0,0002
REF 901	26-7-2023 12:10:39	5,5250	-0,3914	-

#### Line Tolerances

Allowable Misclosure  $E = a + b \sqrt{L}$

a: 0,0020 m  
b: 0,0030 m/ $\sqrt{\text{km}}$

L (Level Line Length): 0,8892 km

Height Error / Point: 0,0005 m

Total Distance Balance: 10,0000 m

#### Observation Tolerances

Double Observation Check: 0,0010 m

Station Difference: 0,0003 m

Max. Sight Distance: 50,0000 m

Min. Ground Clearance: 0,1000 m

#### Point Height Tolerances

Height Spread: 0,0200 m

Max. Difference From Fixed: 0,0100 m

Height:

#### Booking Sheet

Point Id	Type	BS [m]	IS [m]	FS [m]	Rise [m]	Fall [m]	Hz Dist. [m]	$\Delta$ Height [m]	$\Delta$ Height Corr. [m]	Height [m]	Remark
REF 900		-	-	-	-	-	-	0,0000	0,0000	6,8030	
REF 900	BS1	1,4298	-	-	-	-	33,0602	-	-	-	
1	IS	-	1,3450	-	0,0848	-	15,2176	-	-	6,8878	
2	IS	-	1,3529	-	-	0,0080	16,8932	-	-	6,8798	
3	IS	-	1,3564	-	-	0,0034	28,1909	-	-	6,8764	

4	IS	-	1,3862	-	-	0,0298	27,2119	-	-	6,8466	-
101	FS1	-	-	1,2903	0,0958	-	32,6109	-	-	-	-
101		-	-	-	-	-	-	0,1394	0,0000	6,9425	-
101	BS1	1,1819	-	-	-	-	15,1963	-	-	-	-
102	FS1	-	-	2,5662	-	1,3843	10,3007	-	-	-	-
102		-	-	-	-	-	-	-1,3843	0,0000	5,5582	-
102	BS1	1,1476	-	-	-	-	15,9301	-	-	-	-
9	IS	-	1,7862	-	-	0,6387	11,8239	-	-	4,9195	-
10	IS	-	1,8730	-	-	0,0868	15,7775	-	-	4,8327	-
7	IS	-	1,7971	-	0,0759	-	14,8534	-	-	4,9086	-
8	IS	-	1,7886	-	0,0086	-	14,7625	-	-	4,9172	-
5	IS	-	1,9233	-	-	0,1348	27,2691	-	-	4,7824	-
6	IS	-	1,8421	-	0,0812	-	30,7071	-	-	4,8636	-
103	FS1	-	-	1,1475	0,6946	-	15,9329	-	-	-	-
103		-	-	-	-	-	-	0,0001	0,0000	5,5583	-
103	BS1	2,8234	-	-	-	-	28,6147	-	-	-	-
11	IS	-	1,1891	-	1,6343	-	11,4363	-	-	7,1926	-
12	IS	-	1,1979	-	-	0,0088	12,9391	-	-	7,1838	-
14	IS	-	1,2216	-	-	0,0237	19,7651	-	-	7,1601	-
104	FS1	-	-	1,1657	0,0559	-	25,1801	-	-	-	-
104		-	-	-	-	-	-	1,6577	0,0000	7,2160	-
104	BS1	1,2212	-	-	-	-	7,2843	-	-	-	-
13	IS	-	1,2902	-	-	0,0690	9,2380	-	-	7,1470	-
105	FS1	-	-	1,2787	0,0116	-	51,1797	-	-	-	-
105		-	-	-	-	-	-	-0,0575	0,0000	7,1586	-
105	BS1	1,6310	-	-	-	-	12,0552	-	-	-	-
15	IS	-	1,4566	-	0,1745	-	11,2784	-	-	7,3330	-
106	FS1	-	-	1,4298	0,0267	-	10,7187	-	-	-	-
106		-	-	-	-	-	-	0,2012	0,0000	7,3598	-
106	BS1	1,3420	-	-	-	-	16,7207	-	-	-	-
16	IS	-	1,3710	-	-	0,0291	14,1598	-	-	7,3307	-
22	IS	-	1,4286	-	-	0,0576	8,2796	-	-	7,2731	-
21	IS	-	1,4169	-	0,0117	-	11,7983	-	-	7,2849	-
23	IS	-	1,4714	-	-	0,0545	8,8120	-	-	7,2304	-
24	IS	-	1,4758	-	-	0,0044	13,9869	-	-	7,2260	-
20	IS	-	1,4647	-	0,0111	-	16,1671	-	-	7,2371	-
107	FS1	-	-	1,3419	0,1228	-	16,7153	-	-	-	-
107		-	-	-	-	-	-	0,0001	0,0000	7,3599	-
107	BS1	1,3547	-	-	-	-	31,2083	-	-	-	-
19	IS	-	1,4771	-	-	0,1224	13,0650	-	-	7,2375	-
18	IS	-	1,4500	-	0,0271	-	10,5263	-	-	7,2646	-
17	IS	-	1,5421	-	-	0,0921	7,0568	-	-	7,1725	-
108	FS1	-	-	1,3551	0,1870	-	31,0834	-	-	-	-
108		-	-	-	-	-	-	-0,0004	0,0000	7,3596	-
108	BS1	0,8221	-	-	-	-	22,2687	-	-	-	-
109	FS1	-	-	1,5094	-	0,6873	5,2075	-	-	-	-
109		-	-	-	-	-	-	-0,6873	0,0000	6,6723	-
109	BS1	1,1979	-	-	-	-	44,3126	-	-	-	-
110	FS1	-	-	1,4985	-	0,3007	31,3980	-	-	-	-
110		-	-	-	-	-	-	-0,3007	0,0001	6,3717	-
110	BS1	1,2821	-	-	-	-	29,5438	-	-	-	-
28	IS	-	1,3040	-	-	0,0219	18,8576	-	-	6,3498	-
26	IS	-	1,2982	-	0,0058	-	27,0540	-	-	6,3556	-
111	FS1	-	-	1,3168	-	0,0187	14,4960	-	-	-	-
111		-	-	-	-	-	-	-0,0348	0,0000	6,3370	-
111	BS1	1,3235	-	-	-	-	21,6732	-	-	-	-
27	IS	-	1,2654	-	0,0581	-	15,5937	-	-	6,3950	-
112	FS1	-	-	1,2376	0,0278	-	9,9813	-	-	-	-
112		-	-	-	-	-	-	0,0859	0,0000	6,4229	-
112	BS1	0,8816	-	-	-	-	8,5996	-	-	-	-
30	IS	-	0,7370	-	0,1446	-	3,2695	-	-	6,5675	-
31	IS	-	1,0026	-	-	0,2657	2,3568	-	-	6,3019	-
113	FS1	-	-	0,9620	0,0407	-	6,6198	-	-	-	-
113		-	-	-	-	-	-	-0,0803	0,0000	6,3426	-
113	BS1	0,9235	-	-	-	-	5,6525	-	-	-	-
29	IS	-	0,7976	-	0,1259	-	2,7574	-	-	6,4684	-
32	IS	-	1,0793	-	-	0,2816	2,8849	-	-	6,1868	-
33	IS	-	1,0917	-	-	0,0124	8,4744	-	-	6,1744	-
114	FS1	-	-	1,0283	0,0634	-	7,7665	-	-	-	-
114		-	-	-	-	-	-	-0,1048	0,0000	6,2378	-
114	BS1	1,1715	-	-	-	-	11,4681	-	-	-	-
34	IS	-	1,3745	-	-	0,2029	8,2145	-	-	6,0348	-
115	FS1	-	-	1,3525	0,0220	-	7,1830	-	-	-	-

115		-	-	-	-	-	-	-0,1810	0,0000	6,0568	
115	BS1	1,2863	-	-	-	-	3,6817	-	-	-	
35	IS	-	1,1309	-	0,1554	-	10,0783	-	-	6,2122	
116	FS1	-	-	1,2998	-	0,1689	6,3729	-	-	-	
116		-	-	-	-	-	-	-0,0135	0,0000	6,0433	
116	BS1	1,4419	-	-	-	-	4,4807	-	-	-	
37	IS	-	1,4077	-	0,0342	-	4,9800	-	-	6,0775	
36	IS	-	1,1821	-	0,2256	-	4,9604	-	-	6,3031	
117	FS1	-	-	1,4419	-	0,2598	4,4844	-	-	-	
117		-	-	-	-	-	-	0,0000	0,0000	6,0433	
117	BS1	1,5491	-	-	-	-	26,9756	-	-	-	
118	FS1	-	-	1,2127	0,3364	-	39,2786	-	-	-	
118		-	-	-	-	-	-	0,3364	0,0000	6,3798	
118	BS1	1,4796	-	-	-	-	30,7539	-	-	-	
119	FS1	-	-	1,2152	0,2645	-	41,6467	-	-	-	
119		-	-	-	-	-	-	0,2645	0,0001	6,6443	
119	BS1	1,7257	-	-	-	-	39,0554	-	-	-	
120	FS1	-	-	1,3780	0,3478	-	39,4633	-	-	-	
120		-	-	-	-	-	-	0,3478	0,0001	6,9921	
120	BS1	0,8489	-	-	-	-	22,2210	-	-	-	
121	FS1	-	-	1,9246	-	1,0757	23,9133	-	-	-	
121		-	-	-	-	-	-	-1,0757	0,0000	5,9164	
121	BS1	1,3624	-	-	-	-	14,2322	-	-	-	
REF 901	FS1	-	-	1,7539	-	0,3914	12,7169	-	-	-	
REF 901		-	-	-	-	-	-	-0,3914	0,0000	5,5250	