

COURSE MEASUREMENT REPORT

Stavanger Half Marathon 2022



SUMMARY SHEET

EVENT: **STAVANGER HALF MARATHON**

LOCATION: **STAVANGER, NORWAY**

DATE: **27 AUGUST 2022**

Promoting Organisation: GTI Friidrettsklub

Name & Address of race director: Johannes Økland
GTI Friidrettsklub, PB 478, Sentrum,
N – 4002 Stavanger, Norway

Email: lob@gti-friidrett.no

Distance: **Half marathon course is not less than 21,097.5 m**

Measured by: **Peer Jensen, Denmark**

Date: **11 June 2022**

Measurement method: **Jones counter (counting backwards) mounted on bicycle wheel**

Elevation, if not same, of: START 0 m FINISH 0 m

Distance, in a straight line, between start & finish: 0 m

Description of the Course

- i) Terrain: **hilly**
- ii) Race surface: **tarmac and gravel roads**
- iii) Course configuration: **closed loop**
- iiii) Start point: **Stavanger Torv, 2 m southeast of statue of Alexander L. Kielland**
- iiii) Finish point: **Stavanger Torv, 2 m southeast of statue of Alexander L. Kielland**

Measurement Details

- i) Section of road available: **The two first kilometres out of town the whole road can be used. The bicycle path must be used if there is such. On the gravel roads and on the tarmac bicycle roads in the parks the entire width is available. On Grannesveien between km 13 and 14 the runners may not use the pavement but must stay on the road. Cones and guards will be placed where the runners cross the roads.**
- ii) Line to be taken at turns: **Shortest possible route.**

SIGNED: *Peer Jensen* DATE: 2022-06-20

STEEL TAPING DATA

EVENT: *STAVANGER HALF MARATHON*

LOCATION: *STAVANGER, NORWAY*

DATE: *27 AUGUST 2022*

Calibration course

Name of calibration course: Cemetery road along Henrik Ibsens Gate – se map.

City/town and State: Stavanger, Norway, about 3 km from the start and finish line.

Date: 11 June 2022

Start time: 11:00

Finish time: 11:30

Pavement temperature: Start 17 °C Finish 17 °C Average 17 °C

Measurements and calculations:

First measurement. 50.00 m x 6 = 300.00 m + 6.72 m

Second measurement. 50.00 m x 6 = 300.00 m + 6.72 m

Average raw (uncorrected) measurement of course 306.72 m

Temperature correction.

Correction factor = $1 - (3 * 0.0000115) = 0.9999655$

$306.72 \times 0.9999655 = 306.71$ m

Final (adjusted) length of calibration course 306.71 m

Pre-measurement

Date/Time 11 June 2022 14:20

Temp. 17 °C

Start	End	Reading
-------	-----	---------

121600	124931	3331
--------	--------	------

124900	128232	3332
--------	--------	------

128200	131531	3331
--------	--------	------

131500	134831	3331
--------	--------	------

Average 3331.25

Working Constant 10861.24/km

+ 1 ‰ 11.86/km

Pre-measurement constant 10873/km

Post-measurement

Date/Time 11 June 2022 19:35

Temp. 17 °C

Start	End	Reading
-------	-----	---------

462800	466132	3332
--------	--------	------

466100	469433	3333
--------	--------	------

469400	472732	3332
--------	--------	------

472700	476033	3333
--------	--------	------

Average 3332.50

Working Constant 10865.31/km

+ 1 ‰ 10.87/km

post-measurement constant 10876/km

Measurement working constant: **10873/km**

Constant for the Day (average): **10874.50/km**

CALIBRATION COURSE MAP

EVENT: *STAVANGER HALF MARATHON*

LOCATION: *STAVANGER, NORWAY*

DATE: *27 AUGUST 2022*



The calibration course is located about 3 km from start and finish point of the race

MEASUREMENT PROCEDURE

EVENT: *STAVANGER HALF MARATHON*

LOCATION: *STAVANGER, NORWAY*

DATE: *27 AUGUST 2022*

Measurement working constant: **10873**

**Measurement of half marathon course. We were measuring in the running direction.
Start 16:25. End 18:30**

Counter	Counts	Distance	Fix point
185500	0	0 m	Stavanger Torv at statue of Alexander K. Kielland
318019	132519	12,188 m	Sola – road work starts
321079	135579	12,469 m	Sola – road work ends
361388	175888	16,176.50	5 km race starts
415778	230278	21,178.50	Stavanger Torv. Start and finish line

With the average constant the length of the course is $230278/10874.50 = 21,176$ m which means that the course is $(21,176-21,097.50) = 78.50$ m too long

It was not possible to find those metres to make the course much shorter, but by using the pavement instead of the road between km 13 and 14 the runners earn 5 to 10 metres.

The road work part is $469-188 = 281$ m. This part will probably be 50 m shorter after road work ends in 2023. This change will be measured by a local Norwegian measurer.

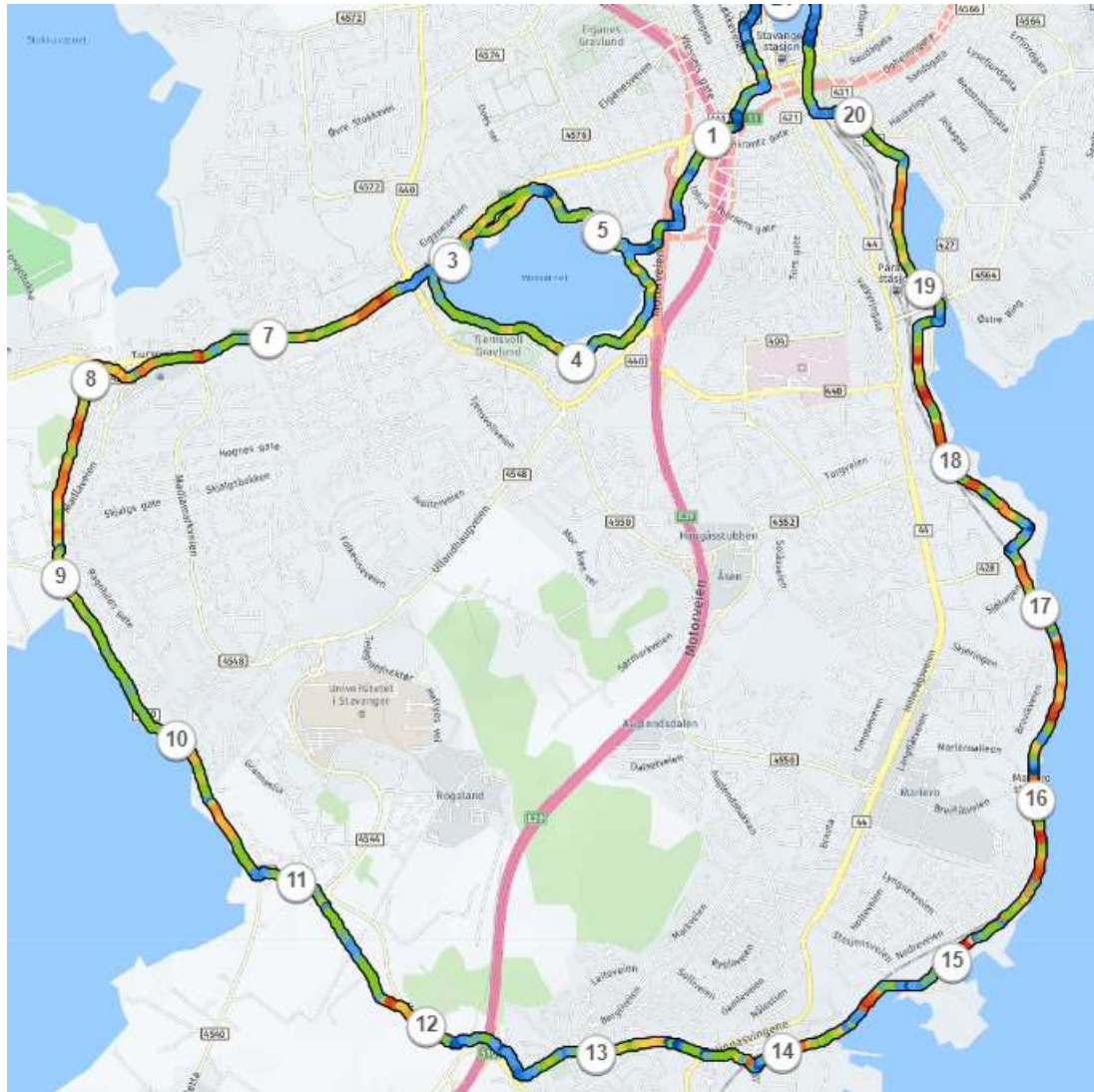
The full marathon course is a combination of Stavanger Half Marathon and 3-Sjøers Løpet. Because 3-Sjøers Løpet course is 5 m too short the full marathon course is 73.50 m too long.

MAP of half marathon course

EVENT: ***STAVANGER HALF MARATHON***

LOCATION: ***STAVANGER, NORWAY***

DATE: ***27 AUGUST 2022***

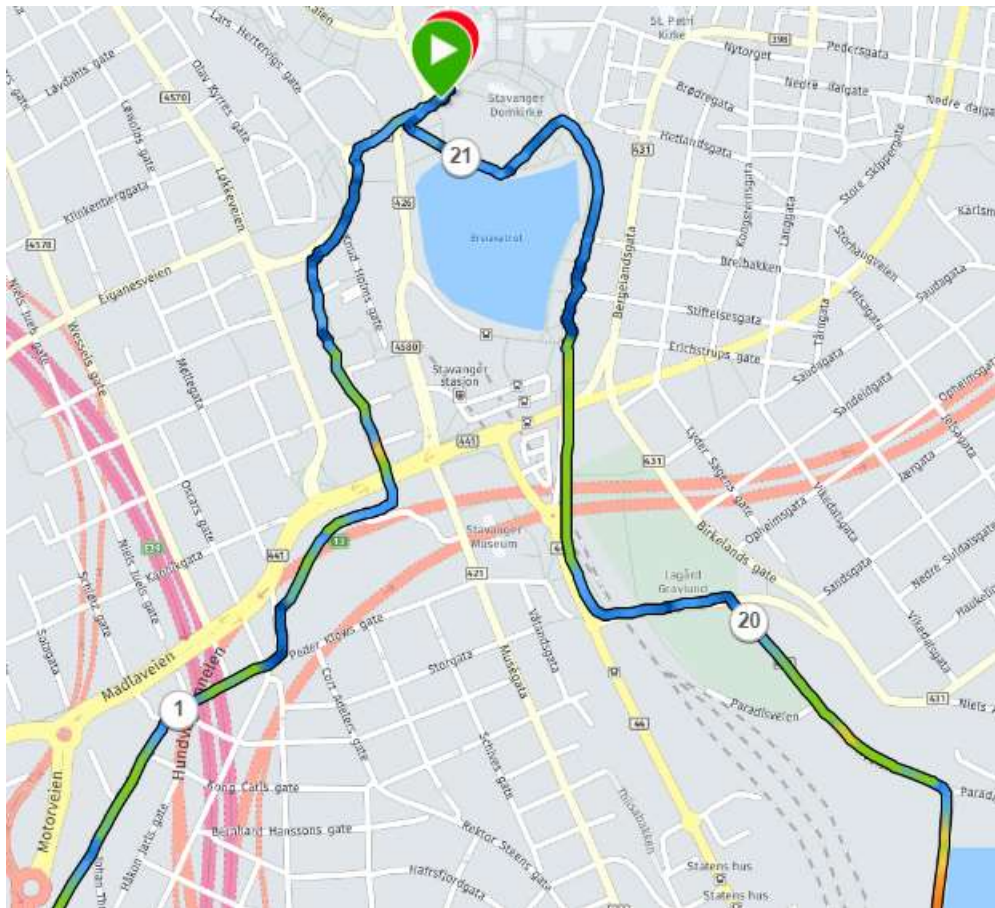


MAP of first and last kilometer of half marathon course

EVENT: ***STAVANGER HALF MARATHON***

LOCATION: ***STAVANGER, NORWAY***

DATE: ***27 AUGUST 2022***

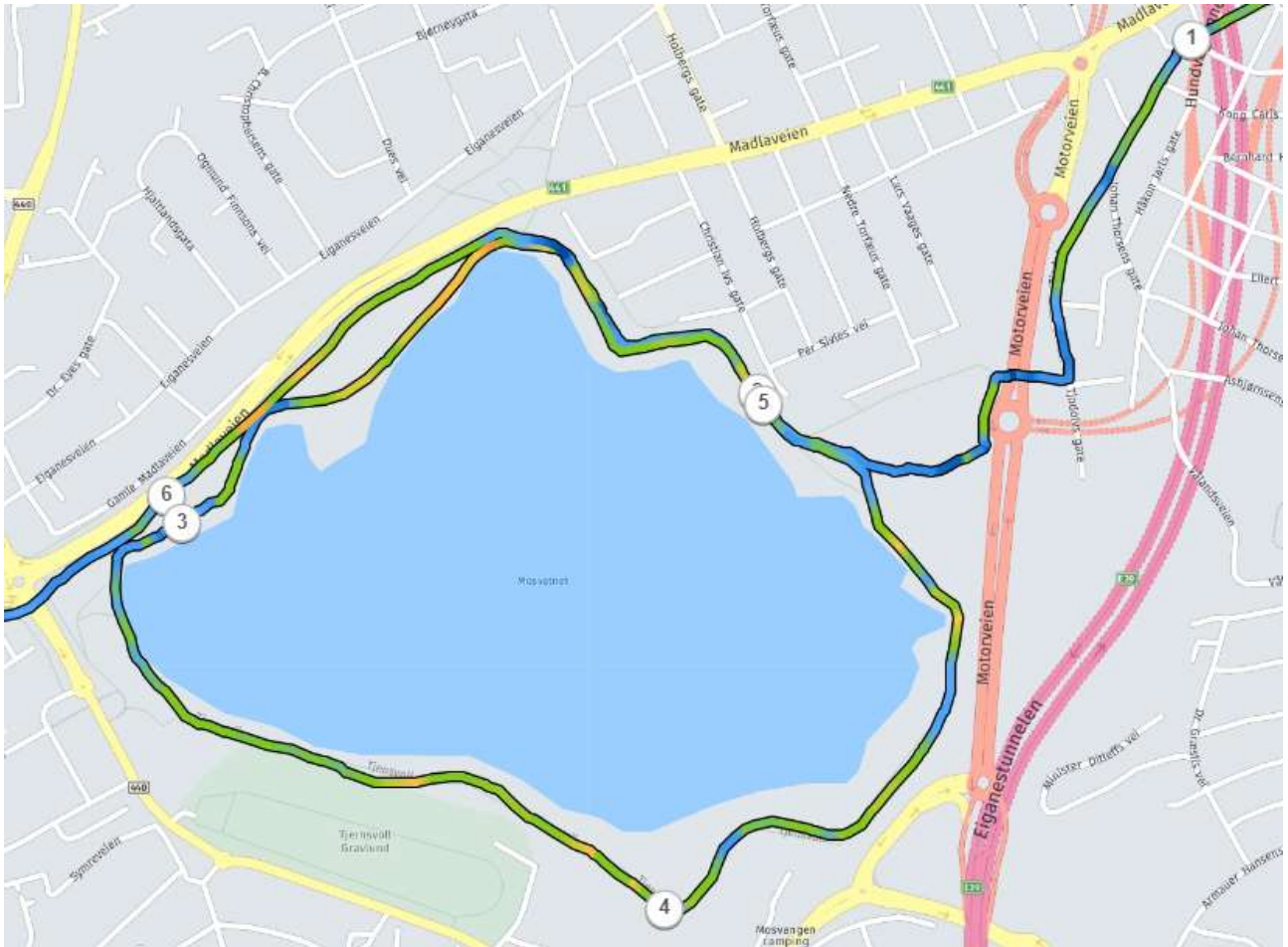


MAP of Mosvatnet

EVENT: ***STAVANGER HALF MARATHON***

LOCATION: ***STAVANGER, NORWAY***

DATE: ***27 AUGUST 2022***



MAP of whole marathon course

EVENT: *STAVANGER HALF MARATHON*

LOCATION: *STAVANGER, NORWAY*

DATE: *27 AUGUST 2022*



MAP of start and finish area

EVENT: ***STAVANGER HALF MARATHON***

LOCATION: ***STAVANGER, NORWAY***

DATE: ***27 AUGUST 2022***

