

COURSE MEASUREMENT REPORT

- REPORT FOR INTERNATIONAL CERTIFIED COURSE -

INFORMATION ABOUT EVENT AND COURSE
Event: 3-Sjøersløpet
Technical Organiser: GTI Friidrettsklubb
City/Place: Stavanger, Norway
Date of Arrangement: 04.November 2023
Date and time for measurement: 02.July 2023 – 14:15
Measured distance(s): Half Marathon
Length of calibration course: 306,71 m
Terrain: Flat <input type="checkbox"/> Slightly hilly <input type="checkbox"/> Hilly <input checked="" type="checkbox"/> Terrain <input type="checkbox"/>
Type of course route: Closed loop <input checked="" type="checkbox"/> Back and forth <input type="checkbox"/> A to B <input type="checkbox"/> Other <input type="checkbox"/>
Race surface: Majority firm gravel around 3 lakes
Elevation Start - Finish: Same
Description of start: Bicycle road outside Siddishallen, 84,5 m after finish line
Description of finish: Bicycle road outside Stavanger Forum Expo gate 3, at lamppost
Distance, in a straight line, between start & finish: 84,5 m
Start and Finish marked: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Km-markings: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Measurement direction: Running direction <input checked="" type="checkbox"/> Opposite running direction <input type="checkbox"/>
National record can be approved: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

CONTACT INFORMATION		
	Measured by:	Organizer:
Contact person:	Erling Hiorth	Johannes Økland
Phone:	+47 91337338	+47 47238439
Email:	Erling.hiorth@gmail.com	lop@gti-friidrett.no

It is hereby confirmed that the course has been measured by an A- or B certified international certified course measurer from Norwegian Athletics. The course is measured in accordance with AIMS and Norwegian athletics regulations, and the distance(s) has the minimum reported length(s). The survey is valid for 5 years, except if the route is changed.

19 July 2023 *Erling Hiorth*

Date

Signature by Course measurer

Date

Signature by AIMS

Norwegian Athletic Federation

Ullevaal stadion
Sognsveien 75 J, 0840 Oslo, NORWAY
E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26

3-Sjøersløpet

Half Marathon
Stavanger Norway
04.Nov 2023

CALIBRATION COURSE AND PROCEDURE	
Length of measuring tape (steel measuring tape only)	50 m
Length of calibration course 1st measurement	306,72 m
Length of calibration course 2nd measurement	306,72 m
Possible 3rd measure (max. 1 cm diff per 100m 1 st and 2 nd)	No
Average of measurements before adjustments	306,72 m
Temperature (road or measuring tape)	17 C
Adjustment cf. $D-(D*(1+(temp-20)*0,0000115))$	- 0,011 m
Measured calibration distance after adjustment	306,71 m
Distance from start/finish to calibration distance	500 m

CALIBRATION INFORMATION - (max 8 counts difference of 1000 m between 4 measurements, ie 2 counts of 300m and 3 count of 400m)						
	Pre-measurement:			Post measurement:		
	Date and Time: 02.July 14:15			Date and Time: 02.July 16:45		
	Start	End	Diff.	Start	End	Diff.
1st measure	47038	50573	3535	326400	329935	3535
2nd measure	50573	54110	3537	329935	333469	3534
3rd measure	54110	57645	3535	333469	337005	3536
4th measure	57645	61181	3536	337005	340540	3535

	Pre measurement	Post measurement	
Average (1+2+3+4) / 4	3535,75	3535,00	Today's constant. Either highest or average of before and after measurement
Constant 1 km	11528,012	11525,567	
Addn. +1‰	11,528	11,526	
Measurement constant (rounded)	11540	11537	11539

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MEASUREMENT PROCEDURE		
Measurement constant	11539	
Measured Distance	Counter	Description of place
	72500	Finish line
110 (not applicable)	73769	Pre-calculated start
4575,1	126561	Beginning of Hålandsvannet (lake)
7000,0	207334	End of Hålandsvannet (lake)
4734,2	261962	Beginning of walking path Stokka (new route)
1131,8	275022	End of walking path Stokka (new route)
3631,3	316923	Finish line
21072,4 m		Total measured without adjustments
	350300	Pre-calculated start line (110 m from finish)
25,5	350594	New start line (84,5 m from finish line)
25,5 m		Total measured adjustments
21097,9 m		Total measured course

CONCLUSION OF MEASUREMENT

1. General information about race course and start/finish
 - The course consist of a closed loop, except 84,5 m between start and finish
 - Pre measurement performed 26.May to define lenght of loop and pre-calculated distance between start and finish
2. Measurement of calibration course
 - Tjensvoll Gravlund, 500 m from start, straight / flat asphalt walking path
 - Measured in accordance with procedure, 3 persons, both ways independant
 - Fixed points at both ends, no adjustment on ground, temp calculations done
3. Calibration of bicycle
 - Calibrated in accordance with procedure, 4 measures, devation 2 count ok
4. Measurement of the course
 - Started from permanent marked finish line to pre-calculated start line
 - Marked temporary start line
 - Measured from start to finish, shortest possible route
5. Post calibration of bicycle
 - Same procedure, 4 measures, devation 2 count ok
6. Course adjustments
 - Based on pre- and post calibration, new start line was calculated and permanently marked on ground
7. Overall length of the course
 - The course is not shorter than half marathon
8. Additional info
 - See attached pictures with course map, start/finish line and exposition area
 - Forum Expo holds the official registration, stands and all services for runners

Norwegian Athletic Federation

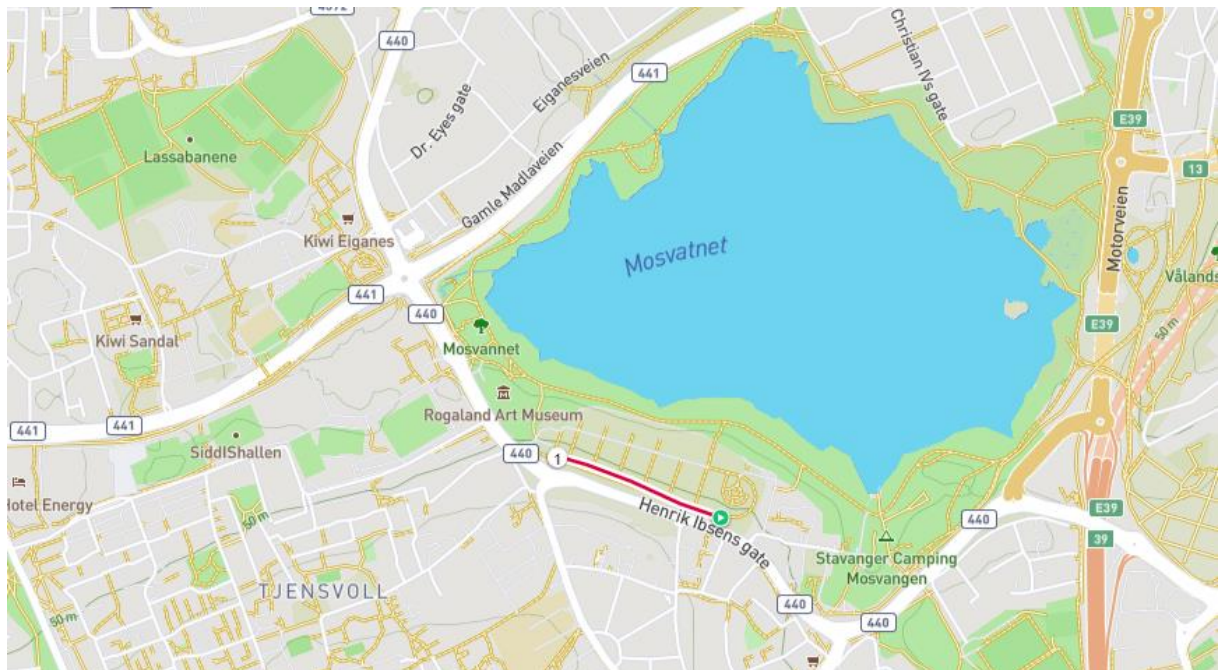
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CALIBRATION COURSE MAP

The calibration course is located about 500 m from start and finish point of the race.



The calibration course was measured by A-measurer in June 2022 together with C-measurer and the race manager.

Permanent nails and marks on ground at both ends.

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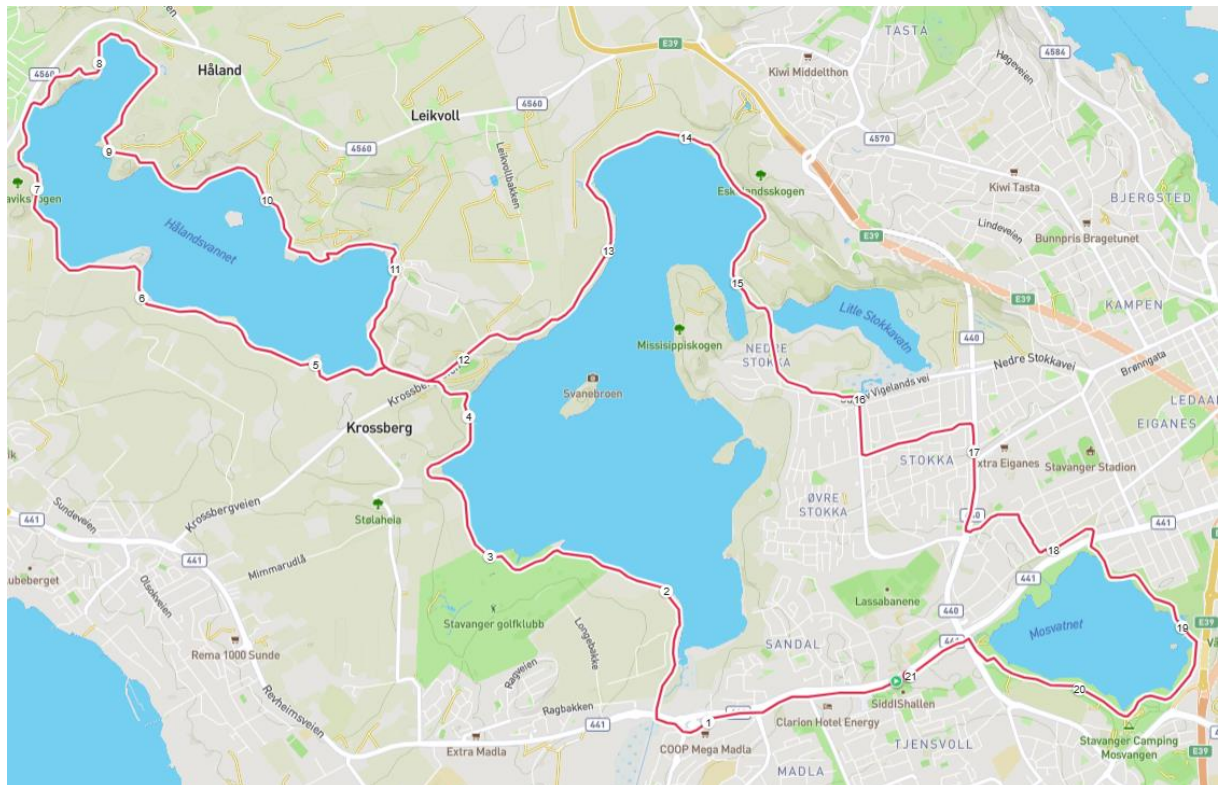
COURSE MAP & DESCRIPTION

The course has two changes from AIMS approved report from 2022:

- Walking path at Stokka, left turn half way up the Christian Skredsvigs vei / outside Gerhard Munthes vei 23
- Shortest route around the lake of Mosvannet
- Adjusted start line to accommodate above changes

Shortest route to be followed.

Fences, cones and guards will be used to ensure runners follow the right course



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PICTURES

Start line - Siddishallen



Finish line - Forum Expo



Distance between start/finish is 84,5 m

Start – finish area on cycle path outside Forum Expo / Siddishallen

Forum Expo is the race centre with registration, stands and services for runners

