Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no Phone: +47 94 83 33 26

10 km Egersund, Norway 02.March 2024

COURSE MEASUREMENT REPORT

| - KEP | ORT FOR INTERNATIO | MAL CEKT | IFIED COURSE - | |
|--|---|---|----------------------------------|--|
| INFORMATION A | BOUT EVENT AND COURSE | | | |
| Event: Egersund | Half Marathon | | | |
| Technical Organis | ser: Egersund Idrettsklubb Fr | iidrettsavdelii | ng | |
| City/Place: Egers | und, Norway | | | |
| Date of Arrangen | nent: 02.March 2024 | | | |
| Date and time fo | r measurement: 31.Oct 2023 | 3, 1 pm – final | adjustment 06.Nov, 10:30 am | |
| Measured distan | ce(s): 10 km (part of 21 km r | ace course) | | |
| Length of calibrat | tion course: 300,0 m | | | |
| Race surface: As Elevation Start - I Description of start Description of fin Distance, in a strastart and Finish n Km-markings: Ye Measurement dis | pute: Closed loop Back a phalt Finish: Zero (same start/finis art: Espeland Hallen, outside lish: Same as start aight line, between start & finarked: Yes No Description: Running direction and be approved: Yes No No Description | h) , permanent n nish: Zero point Opposite ru | mark on ground | |
| | | | | |
| CONTACT INFORM | MATION | | | |
| | Measured by: | Organi | zer: | |
| Contact person: | Erling Hiorth | Gunna | r Kvassheim | |
| Phone: | +47 91337338 | +47 46 | +47 46808961 | |
| Email: | Erling.hiorth@lyse.net | gkvass | heim@gmail.com | |
| international certi accordance with A | IMS and Norwegian athletics | orwegian Athl regulations, a | etics. The course is measured in | |
| 10.november 2023 | B Erling Hiorth | | | |
| Date Sign | nature by Course measurer | Date | Signature by AIMS | |

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| CALIBRATION COURSE AND PROCEDURE | | | |
|---|-----------------------------|--|--|
| Length of measuring tape (steel measuring tape only) | 50 m | | |
| Length of calibration course 1st measurement | 300,00 m | | |
| Length of calibration course 2nd measurement | 300,01 m | | |
| Possible 3rd measure (max. 1 cm diff per 100m 1 st and 2 nd) | No | | |
| Average of measurements before adjustments | 300,005 m | | |
| Temperature (road or measuring tape) | 5 degree | | |
| Adjustment cf. D-(D*(1+(temp-20)*0,0000115) | - 0,052 m temp | | |
| Measured calibration distance after adjustment | 300,003 m (+5 cm on ground) | | |
| Distance from start/finish to calibration distance | 1,1 km | | |

| 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: 31.Oct 13:20 | | | Date and Time: 31.Oct 15:30 | | | |
| | Start | End | Diff. | Start | End | Diff. | |
| 1st measure | 11400 | 14861 | 3461 | 12600 | 16063 | 3463 | |
| 2nd measure | 14861 | 18323 | 3462 | 16063 | 19527 | 3464 | |
| 3rd measure | 18323 | 21786 | 3463 | 19527 | 22990 | 3463 | |
| 4th measure | 21786 | 25248 | 3462 | 22990 | 26454 | 3464 | |

| | Pre | Post | |
|--------------------------------|-------------|-------------|---|
| | measurement | measurement | |
| Average (1+2+3+4) / 4 | 3462,0 | 3463,5 | Today's constant. Either highest or average of before and after measurement |
| Constant 1 km | 11539,875 | 11554,875 | |
| Addn. +1‰ | 11,54 | 11,54 | |
| Measurement constant (rounded) | 11551,415 | 11556,42 | 11554 |

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| MEASUREMENT PROCEDURE | | | | |
|-----------------------|----------------|---|--|--|
| Measurement constant | 11554 | | | |
| Measured Distance | Counter | Description of place | | |
| | 50000 | Start outside Espeland Hallen | | |
| 178,6 | 52063 | Intermediate mark 1a – corner (see note 1) | | |
| 4.820,6 | 107760 | 5 km – turning point 10 km race | | |
| | 171016 | Turning point 21 km | | |
| | 234300 | 5 km – turning point 10 km race | | |
| 4.815,8 | 289942 | Intermediate mark 1b – corner | | |
| 181,7 | 292041 | Finish – same as start (see note 1) | | |
| | | | | |
| 9.996,7 m | | Total measured without adjustments | | |
| | | | | |
| 3,1 | -178,6m+181,7m | Note 1 – Return, changed crossing over road | | |
| -48 | Steel tape | Turning point half way moved | | |
| -48 | Steel tape | Turning point half way moved (back and forth) | | |
| F0 | Steel tape | Adjusted start line | | |
| 50 | Steer tape | Aujusteu start iirie | | |
| 50 | Steel tape | Adjusted finish line (back and forth) | | |
| | - | • | | |
| | - | • | | |
| 50 | - | Adjusted finish line (back and forth) | | |

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CONCLUSION OF MEASUREMENT

- 1. General information about race course and start/finish
 - Main measurement 31.Oct. with reqd. adjustments 06.Nov.
 - The course has turning point half way and is part of the 21 km race
 - Number of participants in 2023 was 200 runners

2. Measurement of calibration course

- 1,1 km in straight line from start/finish, straight/flat cycle path on asphalt
- Measured in accordance with procedure, 2 persons
- Marked at both ends, adjusted for temperature and adjusted +5cm on ground

3. Calibration of bicycle

- Calibrated in accordance with procedure, 4 measures, devation 2 count ok

4. Measurement of the course

- Started from pre-set start to turning point 5 km half way, continued towards turning point for 21 km and passed 5 km turning point on return to start=finish
- Measurement of the course is sum of back and forth between 5 km and start

5. Post calibration of bicycle

- Same procedure, 4 measures, devation 1 count ok

6. Course adjustments

- Crossing of road 100 m after start, straight over to walking path, +3,1m x1
- Turning point 5 km adjusted by -48 m, reducing 96 m to the course
- Start/finish line adjusted by +50m, adding 100 m to the course

7. Overall length of the course

- The course is not shorter than 10.000 m

8. Additional info

- The organizer will set up fences 1st 150 m to walking path
- Pedestrian crossing to be used after 500 m
- Cycle path to be used 1st 3,1 km
- From 3,1 km to turning point at 5 km, the course is to follow left side of main road, same side of road both ways. Measurement is done 0,3 m from white side line / edge of road both ways.
- Guards and cones are to be placed at 3,1 km, 4,5 km and turning after 5 km to ensure no road crossing nor short cuts are taken.

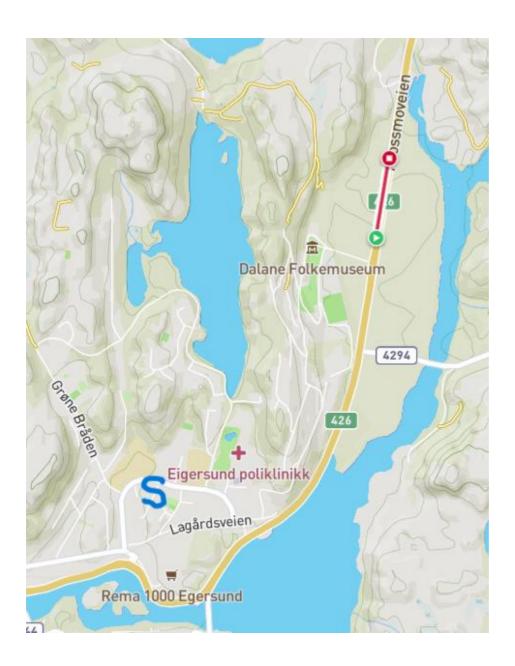
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CALIBRATION COURSE MAP



Ullevaal stadion

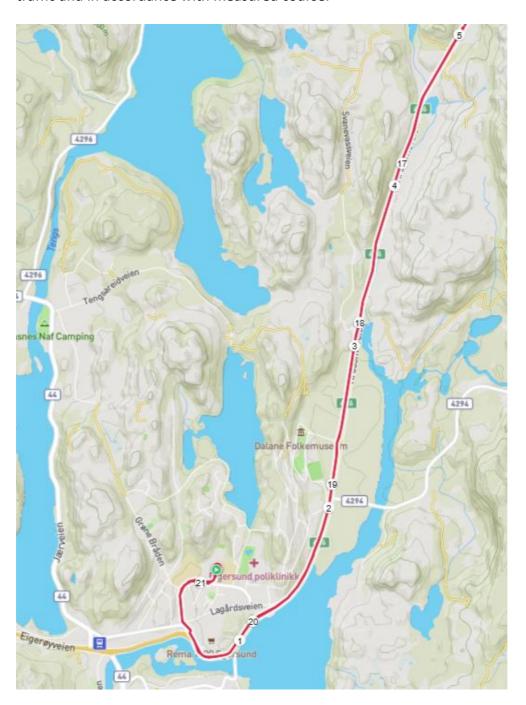
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COURSE MAP & DESCRIPTION

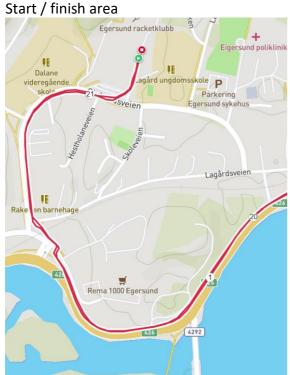
After 3,1 km on cycle path, all runners shall keep the left side of the road towards the turning point, and stay on the same side on return. This is for safety precausion due to open traffic and in accordance with measured course.



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Start / finish – marked on ground



Turning point 100 m from start/finish



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