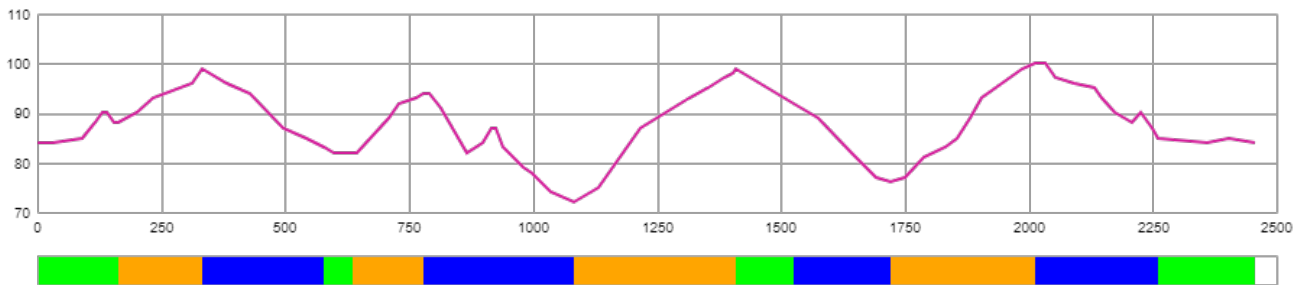




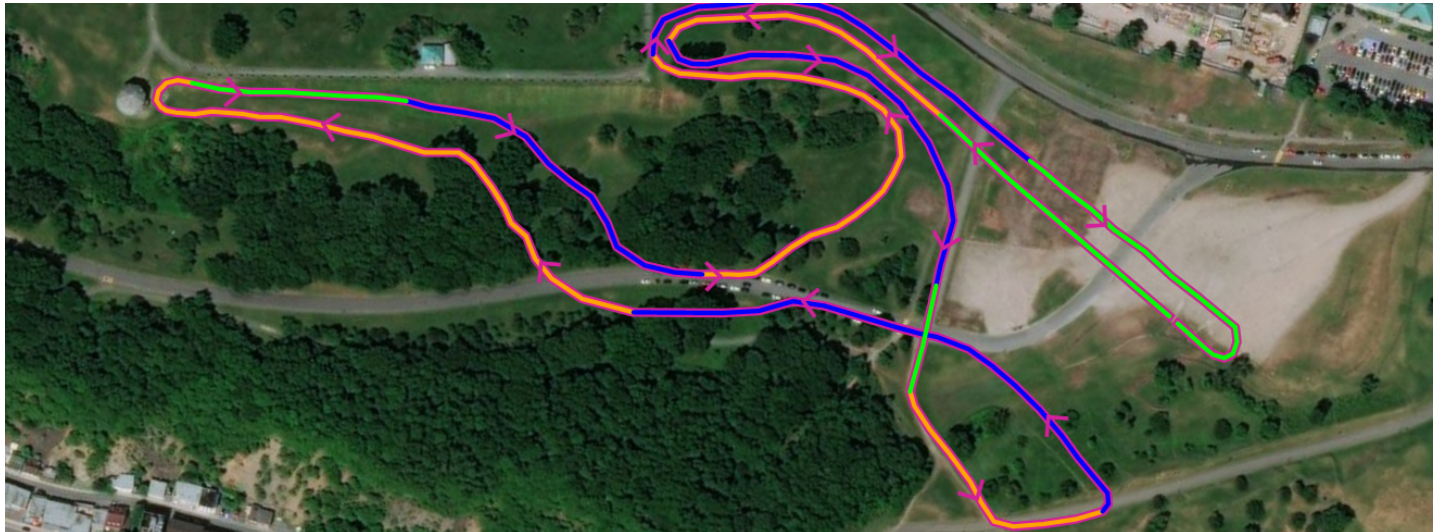
CERTIFICATE  
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE  
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number: **WC18/89.02/2.5**  
(2) Name of the competition site: **Plaines d'Abraham**  
(3) Name of city/region: **Quebec City**  
(4) Organizer: **Gestev**  
(5) National ski association: **Canadian Ski and Snowboard Assoc. CSSA**  
(6) Contact person in the organizing committee: **Serge Veuthey**  
(7) Homologation inspector: **Al Maddox**  
(8) Name of course: **2.5 km**  
(9) Competition level for course: **WC**

Course length:	2,454m	Height difference (HD):	28m	Lowest point:	72m
Course category:	D	Maximum climb (MC):	27m	Highest point:	100m
		Total climb (TC):	88m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre  
FIS International Ski Federation  
Blochstrasse 2 / Postfach  
CH - 3653 Oberhofen

FIS Stamp



FIS Homologation  
Responsible

Aalberg, John

Date of Issue  
17.10.2018  
Valid until  
30.06.2023

## (10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	4	74	84.1
- descents	4	7	8.0
- undulated terrain	4	7	8.0

## (11) Stadium area:

		Indoor working room:	
Fixed stadium area	no	Timekeeping	yes
Fixed building	no	Announcer	yes
Temporary stadium	yes	Jury	yes
Temporary building	yes	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		
Skitesting area along course/near stadium	yes		
Warm up track near the stadium	yes		

## (12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes	yes	yes	yes	yes
Course suitable for following competition formats with					
a) Classical technique	yes				yes
b) Free technique	yes				yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)					

## (13) Possibility of snow making:

The entire course requires extensive snow making in order to manage give the climbs and descents the required gradients and banking. In addition the coverage of the overpasses requires lots of snow. This need is a contracted service by the OC

## (14) Map Material:

Very good

## (15) Source of accurate elevation data:

LiDar based point data for entire area with 1 m contours

## (16) Safety considerations:

The downhill at distance 1600 m to 1700 m will require some padding around the trees

## (17) General remarks:

The elevations have been adjusted for the placement of overpasses for spectator access and trail crossings.

This course is designed to be used as a first lap in a MS 15 k followed by 3 times 3.3 km loop.

This course is homologated as a loop (start line to start line) adding the finish corridor would increase the length by 180 m. when determining the total race distance.

## (18) Date of first inspection: 2018/10/15

## (19) Date of final inspection: 2018/10/15

## (20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	total			0			0.0% part of TC
B-climb	1	164	11	11	3.8 - 15.3	6.5	
	2	636	12	12	3.0 - 13.1	8.4	
	3	1,082	27	27	5.3 - 14.0	8.3	
	4	1,721	24	24	3.5 - 17.0	8.2	
	total			74			84.1% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			7			8.0% part of TC
	total climb			88			