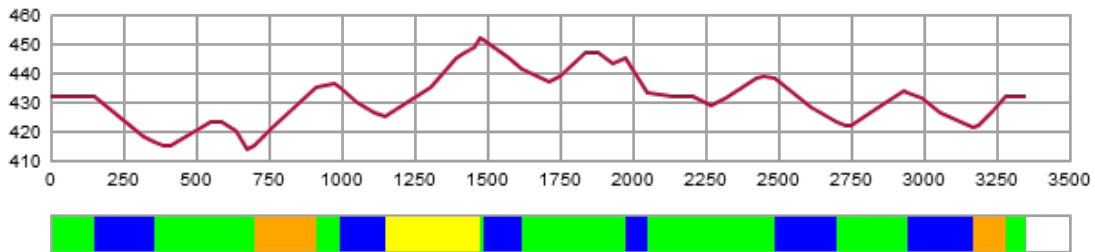




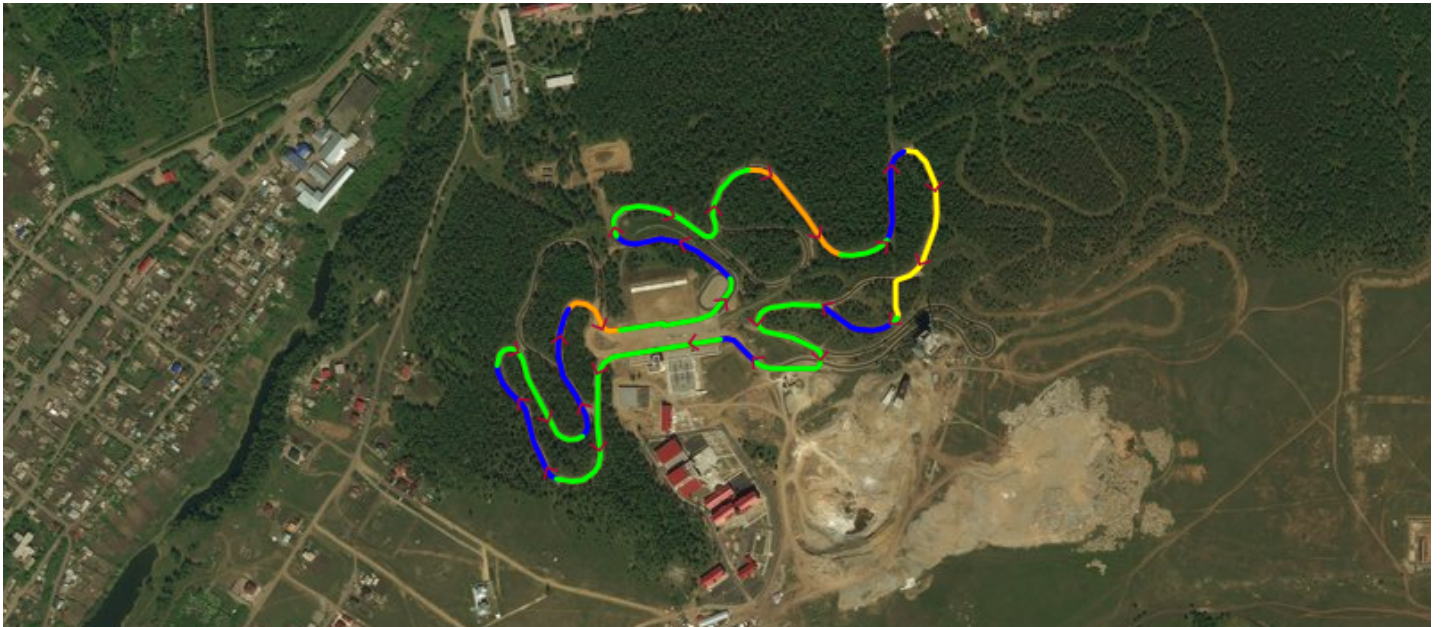
**CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE**

(1) Registration number:	17/53.10/3.3
(2) Name of the competition site:	National ski center
(3) Name of city/region:	Schuchinsk
(4) Organizer:	Cross-country Skiing Federation of Kazakhstan
(5) National ski association:	KAZ
(6) Contact person in the organizing committee:	Oleg Kolomeyets
(7) Homologation inspector:	Andrey Arsenyev
(8) Name of course:	3,3 without bridge
(9) Competition level for course	COC

Course length:	3,348m	Height difference (HD):	38m	Lowest point:	414m
Course category:	D	Maximum climb (MC):	27m	Highest point:	452m
		Total climb (TC):	102m		



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
01.11.2017
Valid until
30.06.2022

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	27	26.5
- shorter climbs	2	31	30.4
- descents	6	0	0.0
- undulated terrain	10	44	43.1

(11) Stadium area:

Fixed stadium area	yes
Fixed building	yes
Temporary stadium	no
Temporary building	no
Good infrastructure (access, parking, media, etc.)	yes
Skitesting area along course/near stadium	yes
Warm up track near the stadium	yes

Indoor working room:

Timekeeping	yes
Announcer	yes
Jury	yes
Race office	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
Course suitable for following competition formats with					
a) Classical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these mearures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding.

(16) Safety considerations:

All downhill are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb ■	1	1,150	27	27	4.7 - 16.9	8.3	
	total			27			26.5% part of TC
B-climb ■	1	701	20	20	9.2 - 10.0	9.4	
	2	3,168	11	11	5.7 - 12.3	10.0	
	total			31			30.4% part of TC
C-climb ■	total			0			0.0% part of TC
undulated terrain ■	total			44			43.1% part of TC
	total climb			102			