

INSTITUTE FOR PUBLIC HEALTH OF SERBIA
" Dr. Milan Jovanović Batut"

CENTER FOR HYGIENE AND HUMAN ECOLOGY

Beograd St. Dr. Subotića 5

Telephone 011/2684-566 lok. 191 - 197

Tel.fax 011/2685 140

W.number: 563

Date: 19.11.2008.

SPECIALIST OPINION OF HYGIENE CORRECTNESS ON ANALYZED SAMPLE

Company: PK PLAVA ZVEZDA

Address: str. Proleterska 7. 22 204 Salaš Noćajski

Name shipment: Natural mineral water

No. demand : 8066/*1 by 03.11.2008.

Category demand: physical-chemical and bacterium parameter

Date sample: 04.11.2008.

Date receipt: 05.11.2008.

SAMPLE MARKER

- Sample number 8717- sample of natural mineral water, well "SN1" Salaš Noćajski

Results of laboratory analyzed

Results of laboratory analyzed sample are given in annex and making component of specialist opinion.

SPECIALIST OPINION

On the base of laboratory results and specialist advisement it is ratified that named water sample lab. No. 8717 under controlled physical-chemical and bacterium parameter is **FULFILING REQUIREMENTS** written bylaw of quality and other requirements for natural mineral water, natural well water and fresh water (Sl. L. SCG no. 53/05).

AUTHORIZED PERSON,
Dr. Dragana Jovanovic, spec.hyg.

Analyze report	No.: 2642
natural mineral water	Date: 19.11.2008.

APPLICATOR DATA		
Aplicator name: PK PLAVA ZVEZDA		
Adress: Salaš Nočajski		
Tel.: 063 565 090	Fax: 022 650 252	www.plavazvezda.com
Number and application date: from 03.11.2008., our No. 8066/*1 to 03.11.2008.		

SAMPLE DATA	
Sample identification: well "SN1" Salas Nocajski 8717	
Manufacturer - owner: PK PLAVA ZVEZDA	
Other amples (show if important)	
Importer:	
Shipping:	
Manufacturer country:	
Package deliverer:	
Sampling executor: institute technician	Sampling date: 04.11.2008.
Date of sample reception: 05.11.2008.	
Demanded analyze: (named as: health requirement, quality...)	

Reference: (show if details of sampling or other specific parametars are needne)
B,C, special opinion

REPORT ONLY REFERS TO DONED ANALYZE

WITHOUT LABORATORY APPROVAL REPORT OF ANALYZE CAN BE MULTIPLICATE ONLY AS COMPLEX

CENTER COMMISSIONER FOR HYGIENE
AND HUMAN ECOLOGY

Dr. Dušica Nikosavić, spec.hygiene

**CENTE FOR HYGIENE AND HUMAN ECOLOGY
LABORATORY DEPARTMENT - SECTION FOR ECOTOXICOLOGY**

RESULTS OF SENSORED,PHYSICAL AND CHEMICAL ANALYZES

Sample term: Sample of natural mineral water, well SN1
Identification marker of sample: 8717
Date of analyze completion: 19.11.2008.

Overall data of sample

Sample of natural mineral water, well SN1, sampled 04.11.2008. & marked by No.: 8717/pv 868

Analyzed parametars	Modul	Result	Mark method
Water temperature	°C	38,5 ± 0,1	UP-501
Air temperature	°C	22,0 ± 0,1	UP-501
Color	Pt-Co scale	<5	UP-536 #
Smell		no smell	UP-537 #
Limpidity	NTU	0,26 ± 0,05	UP-502
pH value		7,5 ± 0,1	UP-503
Electroconductivity on 20°C	µS/cm	450 ± 40	UP-507
Ammonia, NH ₄	mg/l	2,9 ± 0,2	UP-511
Nitrite, NO ₂	mg/l	<0,005	UP-523
Nitrate, NO ₃	mg/l	<0,5	UP-521
Chloride, Cl	mg/l	4,7 ± 0,4	UP-521
Sulphate, SO ₄	mg/l	5,6 ± 0,5	UP-521
Evaporate residual on 180°C	mg/l	306 ± 10	UP-505
KMnO ₄ expediture	mg/l	3,5 ± 0,3	UP-506
Total alkalnity	ml n/10 HCL	56 ± 5	UP-509
Hydrogencarbonate, HCO ₃	mg/l	342 ± 20	UP-509
Total hardness	dH	4,8 ± 0,5	UP-510
Fluorid, F	mg/l	0,18 ± 0,02	UP-521
Solute oxygen, O ₂	mg/l	1,1 ± 0,5	UP-508
Carbondioxide, CO ₂	mg/l	39.6	UP-529 #
Orthophosphate, PO ₄ -P	mg/l	<0,02 ± 0,1	UP-514

Hydrogenphosphate, HPO ₄	mg/l	0,06±0,03	UP-514
Silicate, SiO ₂	mg/l	8,1 ± 0,5	UP-520
Iodine, I	mg/l	<0,5	UP-535 #
Bromine, Br	mg/l	<0,5	UP-521
Specific parametars			
Cyanide	mg/l	<0,01	UP-512
Phenol	mg/l	<0,001	UP-532 #
Detergent, anion	mg/l	<0,01	UP-531 #
Total ionols and oils	mg/l	<0,01	UP-522
Mineral oils	mg/l	<0,01	UP-518
Metal contents			
Calcium, Ca	mg/l	21 ± 0,2	UP-916 #
Magnesium, Mg	mg/l	8 ± 0,1	UP-917 #
Iron, Fe	mg/l	0,146 ± 0,005	UP-907
Manganese, Mn	mg/l	0,042 ± 0,005	UP-904
Sodium, Na	mg/l	82.7	UP-916 #
Potassium, K	mg/l	3.44	UP-917 #
Plumb, Pb	mg/l	<0,01	UP-901
Cooper, Cu	mg/l	<0,01	UP-902
Aluminium, Al	mg/l	<0,05	UP-543 #
Zink, Zn	mg/l	<0,01	UP-903
Chrome, Cr	mg/l	<0,01	UP-905
Cadmium, Cd	mg/l	<0,001	UP-906
Nickle, Ni	mg/l	<0,01	UP-919
Arsenic, As	mg/l	0.004	UP-908
Mercury, Hg	mg/l	<0,001	UP-909
Contents of organichlorine insecticide			
Hexachlorobenzene (HCB)	µg/l	<0,01	UP-801
Aldrine/Dieldrine	µg/l	<0,01	UP-801
DDT	µg/l	<0,01	UP-801
Heptachlor/Heptachlorepo	µg/l	<0,01	UP-801
Lindane	µg/l	<0,01	UP-801

Policyclic Aromatic Hydrocarbons			
Overall	µg/l	<0,2	UP-801
Benzo (A) pirenene	µg/l	<0,01	UP-801
Aromatics hydrocarbons:			
Benzene	µg/l	<1	UP-803
Toluen	µg/l	<7	UP-803
Etilbenzene	µg/l	<2	UP-803
Xylenes	µg/l	<5	UP-803
PCBs - polychlorinated biphenyls:			
Identified as PCB mix 525	µg/l	<0,5	UP-801

Reference: 1. Results of radioactivity measuring on water sample no./lab. no. 8717/868-pv are sowed in report of Institute for work medicine no.801/08 from 11.11.2008., that is annexed with this report and making component of it.

2. Physical-chemical parameters are foreseen bylaw of quality and other requirements for natural mineral water, natural well water and fresh water (Sl. L. SCG br. 53/05).

3. Marker # belong to noaccreditation method.

4. Analyze results refers to the laboratory sample.

Responsible analyst:

Nikolina Tomašević, grad. chem.

Miroslav Radosavljević, spec. tox.

Svetlana Labus-Blagojević, spec. bio.

Chief department for ecotoxicology,

Dejan
Natić,
grad.
chem.

Chief department of laboratory,

Snežana Đuranović, spec. chem.

**CENTER FOR HYGIENE AND HUMAN ECOLOGY
LABORATORY DEPARTMENT - SECTION FOR SANITAR MICROBIOLOGY**

RESULTS OF BACTERIUM ANALYZES

Sample term: Natural mineral water - Well SN1
Identification mark of sample: 8717
Date of analyze completion: 10.11.2008.

Analyzed	Modul	Result	Mark method
Number of aerobic mesophilic bacteria on 37°C in 1	ml	0	UP-419
Number of aerobic bacteria on 22°C in 250 MF	ml	0	UP-419
Altogether coliform bacteria in 250 MF	ml	0	UP-420
Presence of Escherichia salts in 250 MF	ml	-	UP-421
Presence of Enterococcus fecal source in 250 MF	ml	-	UP-422
Presence of Pseudomonas aeruginosa in 250 MF	ml	-	UP-423
Presence of Sulforeducing clostridia in 250 MF	ml	-	UP-424

Legend: + finded
- not finded

Comment: **CORRESPOND** to next regulations: **LAW OF QUALITY AND OTHER REQUIREMENTS FOR NATURAL MINERAL WATER, NATURAL WELL WATER AND FRESH WATER official gazette of SERBIA AND MONTENEGRO no.53/205. clause 8.**

Analyst:
Milan Radović spec.micr. of food

Chief of department:
Milan Radović spec.micr. of food

Chief of laboratory section:
Snežana Đuranović spec.chem.