TESTING LABORATORY DIRECTORATE

EUROTEST CONTROL EAD

1797 Sofia, 16 G. M. Dimitrov Blvd., phone: (02) 9651 600;
phone/fax (02) 8720 596; www.eurotest-control.bg, e-mail: lgi@inet.bg

Accredited Testing and Calibration Laboratory
certified by the Bulgarian Accreditation Service, reg. No. 3-LIK, valid by Oct 31, 2011

PROTOCOL
OF TESTING

No. 4145/29.04.2010

1 Surface waters and groundwaters…….....…….....….....….....
(product name, type, make, etc.)

2 Company which requested the testing: Balkan Mineral and Mining EAD - the samples are provided by a representative of.....

Eurotest Control EAD through protocol no. 369/13.04.2010 in accordance with BNS ISO 5667.....
(name and address of the company, no. and date of the protocol for collection of samples)

3 Method of testing: BNS 3424/81; BNS EN 27888/00; BNS 3775/87; BNS 3413/77; BNS ISO 7150-1/02; .....

BNS EN ISO 10304-1/09; ETC V3I1/7.2.3-9/02; BNS EN ISO 6878/05; BNS 15398/81; BNS ISO 6703-1/02; .....

BNS EN 1483/07; BNS EN ISO 11885/09; BNS 12578/75; BNS EN ISO 9377-2/04 – the parameters are specified in item 7.1 of the protocol…….....
(name and no. of the standards or validated methods)

4 Date of receipt of the samples for testing in the laboratory, request ref. no. 518/15.04.2010 .....

5 Number of tested samples: 7 water samples collected from groundwaters, Ada Tepe area .....
(production no., number, and mass of the samples,

Krumovgrad Region.….....
number of samples shipments, import invoice no., date of production)

6 Date/period of the testing: Apr 15, 2010 to Apr 29, 2010.....…….....

DIRECTOR OF

TESTING LABORATORY DIRECTORATE: ……
Yu. Akrabova

7. TEST RESULTS

7.1. Testing/measurements within the scope of accreditation

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		7.35 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	μS/cm	BNS EN 27888/00		677 ± 20	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		7.49 ± 0.75	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		1.91 ± 0.19	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		<0.013	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	ATDDTG-001,	0.69 ± 0.07	<50.0	Standard
8	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 910, from	0.19 ± 0.02	<5.0	Standard
9	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	49.5 ± 5.0	<250	Standard
11	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	7.4 ± 0.7	<250	Standard
12	Sodium (Na)	mg/dm^3	BNS 15398/81		7.0 ± 0.7	<200	Standard
13	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14	Mercury (Hg)	μg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15	Cadmium (Cd)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		0.0033 ± 0.0003	<2.0	Standard
17	Nickel (Ni)	μg/dm^3	BNS EN ISO 11885/09		<2.0	<20	Standard
18	Lead (Pb)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19	Selenium (Se)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20	Chromium (Cr)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<10	Standard
21	Aluminum (Al)	μg/dm^3	BNS EN ISO 11885/09		10.6 ± 1.1	<50	Standard
22	Iron (Fe)	μg/dm^3	BNS EN ISO 11885/09		50.1 ± 5.0	<200	Standard
23	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		0.0676 ± 0.0068	<5.0	Standard
24	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.0046 ± 0.0005	<1.0	Standard
25	Antimony (Sb)	μg/dm^3	BNS EN ISO 11885/09		<5.0	<5.0	Standard
26	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		5.18 ± 0.52	<80	Standard
28	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		141.5 ± 14.2	<150	Standard
29	Uranium (natural)	mg/dm^3	BNS 12578/75		<0.001	<0.06	Standard
30	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		<0.02	-	Standard

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		7.27 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	μS/cm	BNS EN 27888/00		615 ± 18	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		5.65 ± 0.57	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		1.20 ± 0.12	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		<0.013	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	ATDDTG-002[a],	<0.10	<50.0	Standard
8	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 911, from	0.17 ± 0.02	<5.0	Standard
9	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	35.0 ± 3.5	<250	Standard
11	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	12.1 ± 1.2	<250	Standard
12	Sodium (Na)	mg/dm^3	BNS 15398/81		18.5 ± 1.9	<200	Standard
13	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14	Mercury (Hg)	μg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15	Cadmium (Cd)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		0.0049 ± 0.0005	<2.0	Standard
17	Nickel (Ni)	μg/dm^3	BNS EN ISO 11885/09		2.0	<20	Standard
18	Lead (Pb)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19	Selenium (Se)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20	Chromium (Cr)	μg/dm^3	BNS EN ISO 11885/09		4.2 ± 0.4	<10	Standard
21	Aluminum (Al)	μg/dm^3	BNS EN ISO 11885/09		48.3 ± 4.8	<50	Standard
22	Iron (Fe)	μg/dm^3	BNS EN ISO 11885/09		67.6 ± 6.8	<200	Standard
23	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		0.0095 ± 0.0010	<5.0	Standard
24	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.0103 ± 0.0010	<1.0	Standard
25	Antimony (Sb)	μg/dm^3	BNS EN ISO 11885/09		5.3 ± 0.5	<5.0	Standard
26	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		28.87 ± 2.89	<80	Standard
28	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		65.6 ± 6.7	<150	Standard
29	Uranium (natural)	mg/dm^3	BNS 12578/75		<0.001	<0.06	Standard
30	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		0.10 ± 0.01	-	Standard

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		7.30 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	µS/cm	BNS EN 27888/00		779 ± 23	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		6.73 ± 0.67	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		1.42 ± 0.14	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		<0.013	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	ATDDTG-004,	1.46 ± 0.15	<50.0	Standard
8	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 912, from	0.26 ± 0.03	<5.0	Standard
9	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	58.0 ± 5.8	<250	Standard
11	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	14.5 ± 1.5	<250	Standard
12	Sodium (Na)	mg/dm^3	BNS 15398/81		33.3 ± 3.3	<200	Standard
13	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14	Mercury (Hg)	µg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15	Cadmium (Cd)	µg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		0.0057 ± 0.0006	<2.0	Standard
17	Nickel (Ni)	µg/dm^3	BNS EN ISO 11885/09		<2.0	<20	Standard
18	Lead (Pb)	µg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19	Selenium (Se)	µg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20	Chromium (Cr)	µg/dm^3	BNS EN ISO 11885/09		3.5 ± 0.4	<10	Standard
21	Aluminum (Al)	µg/dm^3	BNS EN ISO 11885/09		22.7 ± 2.3	<50	Standard
22	Iron (Fe)	µg/dm^3	BNS EN ISO 11885/09		179.3 ± 17.9	<200	Standard
23	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		0.0098 ± 0.0010	<5.0	Standard
24	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.0421 ± 0.0042	<1.0	Standard
25	Antimony (Sb)	µg/dm^3	BNS EN ISO 11885/09		<5.0	<5.0	Standard
26	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		35.32 ± 3.53	<80	Standard
28	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		76.7 ± 7.7	<150	Standard
29	Uranium (natural)	mg/dm^3	BNS 12578/75		0.0010 ± 0.0006	<0.06	Standard
30	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		<0.02	-	Standard

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		6.80 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	µS/cm	BNS EN 27888/00		353 ± 11	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		2.67 ± 0.27	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		1.56 ± 0.16	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		<0.013	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	ATDDTG-005,	0.15 ± 0.02	<50.0	Standard
8	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 913, from	0.17 ± 0.08	<5.0	Standard
9	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	45.2 ± 4.5	<250	Standard
11	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	13.9 ± 1.4	<250	Standard
12	Sodium (Na)	mg/dm^3	BNS 15398/81		17.1 ± 1.7	<200	Standard
13	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14	Mercury (Hg)	µg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15	Cadmium (Cd)	µg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		0.0054 ± 0.0005	<2.0	Standard
17	Nickel (Ni)	µg/dm^3	BNS EN ISO 11885/09		<2.0	<20	Standard
18	Lead (Pb)	µg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19	Selenium (Se)	µg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20	Chromium (Cr)	µg/dm^3	BNS EN ISO 11885/09		2.0 ± 0.2	<10	Standard
21	Aluminum (Al)	µg/dm^3	BNS EN ISO 11885/09		50.4 ± 5.0	<50	Standard
22	Iron (Fe)	µg/dm^3	BNS EN ISO 11885/09		74.4 ± 7.4	<200	Standard
23	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		0.0050 ± 0.0005	<5.0	Standard
24	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.0103 ± 0.0010	<1.0	Standard
25	Antimony (Sb)	µg/dm^3	BNS EN ISO 11885/09		<5.0	<5.0	Standard
26	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		16.11 ± 1.61	<80	Standard
28	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		26.92 ± 2.69	<150	Standard
29	Uranium (natural)	mg/dm^3	BNS 12578/75		<0.001	<0.06	Standard
30	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		<0.02	-	Standard

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		7.25 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	µS/cm	BNS EN 27888/00		570 ± 17	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		5.58 ± 0.56	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		0.99 ± 0.10	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		<0.013	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	KRW 002(AT),	2.9 ± 0.3	<50.0	Standard
8	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 914, from	0.21 ± 0.02	<5.0	Standard
9	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	52.1 ± 5.2	<250	Standard
11	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	6.0 ± 0.6	<250	Standard
12	Sodium (Na)	mg/dm^3	BNS 15398/81		11.7 ± 1.2	<200	Standard
13	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14	Mercury (Hg)	µg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15	Cadmium (Cd)	µg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		0.0035 ± 0.0004	<2.0	Standard
17	Nickel (Ni)	µg/dm^3	BNS EN ISO 11885/09		<2.0	<20	Standard
18	Lead (Pb)	µg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19	Selenium (Se)	µg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20	Chromium (Cr)	µg/dm^3	BNS EN ISO 11885/09		3.0 ± 0.3	<10	Standard
21	Aluminum (Al)	µg/dm^3	BNS EN ISO 11885/09		11.2 ± 1.1	<50	Standard
22	Iron (Fe)	µg/dm^3	BNS EN ISO 11885/09		19.4 ± 1.9	<200	Standard
23	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		0.0010 ± 0.0001	<5.0	Standard
24	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.0131 ± 0.0013	<1.0	Standard
25	Antimony (Sb)	µg/dm^3	BNS EN ISO 11885/09		<5.0	<5.0	Standard
26	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		18.16 ± 1.82	<80	Standard
28	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		81.8 ± 8.2	<150	Standard
29	Uranium (natural)	mg/dm^3	BNS 12578/75		<0.001	<0.06	Standard
30	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		<0.02	-	Standard

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		7.21 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	μS/cm	BNS EN 27888/00		530 ± 16	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		4.83 ± 0.48	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		1.06 ± 0.11	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		074 ± 0.007	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	AT spring,	4.3 ± 0.4	<50.0	Standard
8/	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 915, from	0.21 ± 0.02	<5.0	Standard
9/	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10/	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	30.6 ± 3.1	<250	Standard
11/	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	16.0 ± 1.6	<250	Standard
12/	Sodium (Na)	mg/dm^3	BNS 15398/81		14.4 ± 1.4	<200	Standard
13/	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14/	Mercury (Hg)	μg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15/	Cadmium (Cd)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16/	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		0.0035 ± 0.0004	<2.0	Standard
17/	Nickel (Ni)	μg/dm^3	BNS EN ISO 11885/09		<2.0	<20	Standard
18/	Lead (Pb)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19/	Selenium (Se)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20/	Chromium (Cr)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<10	Standard
21/	Aluminum (Al)	μg/dm^3	BNS EN ISO 11885/09		21.4 ± 2.1	<50	Standard
22/	Iron (Fe)	μg/dm^3	BNS EN ISO 11885/09		41.3 ± 4.1	<200	Standard
23/	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		0.0085 ± 0.0009	<5.0	Standard
24/	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.0126 ± 0.0013	<1.0	Standard
25/	Antimony (Sb)	μg/dm^3	BNS EN ISO 11885/09		<5.0	<5.0	Standard
26/	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27/	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		16.63 ± 1.66	<80	Standard
28/	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		69.2 ± 6.9	<150	Standard
29/	Uranium (natural)	mg/dm^3	BNS 12578/75		<0.001	<0.06	Standard
30/	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		<0.02	-	Standard

#	Parameter	Unit of measurement	Standards/validated methods	Sample no. according to Sample Logbook	Test results (value, below detection)	Parameter value and tolerance	Test conditions
1	2	3	4	5	6	7	8
						In accordance with Order 1/2007	
1	pH	pH units	BNS 3424/81		7.57 ± 0.10	6.5÷9.5	Standard
2	Electrical conductivity	μS/cm	BNS EN 27888/00		1028 ± 31	<2000	Standard
3	Total hardness	mgeqv/dm^3	BNS 3775/87		4.83 ± 0.48	<12	Standard
4	Permanganate oxidisable C	mgO_2/dm^3	BNS 3413/77		1.06 ± 0.11	-	Standard
5	Ammonium (NH_4^+)	mg/dm^3	BNS ISO 7150-1/02		0.83 ± 0.08	<0.50	Standard
6	Nitrites (NO_2^-)	mg/dm^3	BNS EN ISO 10304-1/09	Water sample	<0.05	<0.50	Standard
7	Nitrites (NO_3^-)	mg/dm^3	BNS EN ISO 10304-1/09	ATDDEX 025	<0.10	<50.0	Standard
8	Fluorides (F)	mg/dm^3	ETC V3I1/7.2.3-9/02	lab no. 916, from	0.53 ± 0.05	<5.0	Standard
9	Phosphates (PO_4^{3-})	mg/dm^3	BNS EN ISO 6878/05	groundwaters -	<0.10	<0.50	Standard
10	Sulfates (SO_4^{2-})	mg/dm^3	BNS EN ISO 10304-1/09	Ada Tepe area,	66.0 ± 6.6	<250	Standard
11	Chlorides (as Cl^-)	mg/dm^3	BNS EN ISO 10304-1/09	Krumovgrad region	108.7 ± 10.9	<250	Standard
12	Sodium (Na)	mg/dm^3	BNS 15398/81		140.0 ± 14.0	<200	Standard
13	Cyanide (total) (CN^-)	mg/dm^3	BNS ISO 6703-1/02		<0.002	<0.01	Standard
14	Mercury (Hg)	μg/dm^3	BNS EN 1483/07		<1.0	<1.0	Standard
15	Cadmium (Cd)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<5.0	Standard
16	Copper (Cu)	mg/dm^3	BNS EN ISO 11885/09		<0.0030	<2.0	Standard
17	Nickel (Ni)	μg/dm^3	BNS EN ISO 11885/09		<2.0	<20	Standard
18	Lead (Pb)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
19	Selenium (Se)	μg/dm^3	BNS EN ISO 11885/09		<10	<10	Standard
20	Chromium (Cr)	μg/dm^3	BNS EN ISO 11885/09		<1.0	<10	Standard
21	Aluminum (Al)	μg/dm^3	BNS EN ISO 11885/09		11.2 ± 1.1	<50	Standard
22	Iron (Fe)	μg/dm^3	BNS EN ISO 11885/09		1846 ± 185	<200	Standard
23	Zinc (Zn)	mg/dm^3	BNS EN ISO 11885/09		<0.0010	<5.0	Standard
24	Boron (B)	mg/dm^3	BNS EN ISO 11885/09		0.1178 ± 0.0118	<1.0	Standard
25	Antimony (Sb)	μg/dm^3	BNS EN ISO 11885/09		<5.0	<5.0	Standard
26	Arsenic (As)	mg/dm^3	BNS EN ISO 11885/09		<0.010	<0.05	Standard
27	Magnesium (Mg)	mg/dm^3	BNS EN ISO 11885/09		31.37 ± 3.14	<80	Standard
28	Calcium (Ca)	mg/dm^3	BNS EN ISO 11885/09		44.97 ± 4.50	<150	Standard
29	Uranium (natural)	mg/dm^3	BNS 12578/75		<0.001	<0.06	Standard
30	Petroleum products	mg/dm^3	BNS EN ISO 9377-2/04		<0.02	-	Standard

NOTE I: If required, the protocol of testing may include opinions and interpretations of the tests (conclusions are not allowed) only if compliant with the regulations in item 5.10.5 of BNS EN ISO/IEC 17025.
NOTE II: The test results refer only to the tested samples. Excerpts of the protocol of testing should not be copied without the written consent of the testing laboratory.

PERSONS WHO CARRIED OUT THE TESTING: .....……
S. Dimitrova, Eng.
.....……
V. Nedelcheva
.....……
El. Velichkova
.....……
K. Lyubenova, Eng.
.....……
R. K. Krasteva, Eng.

DEPARTMENT MANAGER:.....
Hr. Stanchev, Eng.

DIRECTOR OF TESTING LABORATORY DIRECTORATE: …….....
Yu. Akrabova