



ИЗПЪЛНИТЕЛНА АГЕНЦИЯ ПО ОКОЛНА СРЕДА - СОФИЯ
РЕГИОНАЛНА ЛАБОРАТОРИЯ - ПЛОВДИВ

Ул. "Перушица" № 1, e-mail: ecolab_plovdiv@mail.bg, Телефон/Факс: 032/642 723

Sheet 1

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TESTING PROTOCOL

No. 1301/2010

Date: 08.10.2010

Accredited testing laboratory

Certificate No 69LI/valid until 30.11.2012

Issued by the Bulgarian Accreditation Service -

Executive Agency at the Ministry of Economy, Energy and Tourism

1. Air

3336.10 - emissions, Varhushka village (41°27,068'N ; 25°38,994' E)

17:00 hrs./29.09.2010÷17:00 hrs./30.09.2010

(name of product; type of component for testing and describing; sampling site)

2. Company which requested the testing: BALKAN MINERAL AND MINING EAD, Contract No. 4/27.09.2010, Order No. 14/27.09.2010

(name of the Company, No. and date of the sampling protocol)

3. 3 Method of testing: ISO 4224, ISO 13694, ISO 10498, ISO 7996

(name and no. of the standards or validated methods)

4. Date of receiving of samples for testing in the laboratory: 27/09/2010

5. Quantity of tested samples: -

(quantity of samples/ and their mass)

6. Date/period of the testing: 27.10.2010

**MANAGER OF THE INDEPENDENT
LABORATORY**

Eng. Stanka Chokova

(family name, signature, seal)

7. TEST RESULTS:

Type of testing/characteristics	Carbon oxide (CO)	Ozone	Sulfur dioxide		Nitric oxide	Nitrogen dioxide
Standard/validated method	ISO 4224	ISO 13694	ISO 10498		ISO 7996	ISO 7996
Unit	mg/m ³	μg ³ m3	μg ³ m3		μg ³ m3	μg ³ m3
Parameter value and tolerance parameter	10 /sq. 8 krs./	120 /sq. 8 krs./	350 Average Hourly Rate	125 Avera ge Daily Rate	-	200 Average Hourly Rate
Regulation No.	12/15.07.2010					
Flow Number	CO	O ₃	SO ₂		NO	NO ₂

Test results (below detection) within the scope of accreditation

Year	Month	Day hours	Hour	CO	O ₃	SO ₂	NO	NO ₂
2010	09	29	1800	<0.3*	69 ±1	<9*	<9*	<9*
2010	09	29	1900	0.4 ± 0.1	68 ±1	<9*	<9*	<9*
2010	09	29	2000	0.5 ± 0.1	61 ±1	11 ± 1	<9*	<9*
2010	09	29	2100	0.4 ± 0.1	62 ±1	10 ± 1	<9*	<9*
2010	09	29	2200	0.4 ± 0.1	62 ±1	<9*	<9*	<9*
2010	09	29	2300	0.3 ± 0.1	69 ±1	<9*	<9*	<9*
2010	09	29	2400	0.3 ± 0.1	68 ±1	<9*	<9*	<9*
2010	09	30	0100	0.3 ± 0.1	65 ±1	<9*	<9*	<9*
2010	09	30	0200	0.3 ± 0.1	62 ±1	<9*	<9*	<9*
2010	09	30	0300	0.3 ± 0.1	50 ±1	<9*	<9*	<9*
2010	09	30	0400	<0.3*	53 ±1	<9*	<9*	<9*
2010	09	30	0500	<0.3*	44 ±1	<9*	<9*	<9*
2010	09	30	0600	<0.3*	36 ±1	<9*	<9*	<9*
2010	09	30	0700	<0.3*	48 ±1	<9*	<9*	<9*
2010	09	30	0800	<0.3*	49 ±1	<9*	<9*	<9*
2010	09	30	0900	0.7 ± 0.1	46 ±1	<9*	<9*	14 ± 1
2010	09	30	1000	0.5 ± 0.1	59 ±1	<9*	<9*	<9*
2010	09	30	1100	0.3 ± 0.1	77 ±1	<9*	<9*	<9*
2010	09	30	1200	0.3 ± 0.1	78 ±1	<9*	<9*	<9*
2010	09	30	1300	<0.3*	84 ±1	<9*	<9*	<9*
2010	09	30	1400	0.4 ± 0.1	92 ±1	<9*	<9*	<9*
2010	09	30	1,500	0.3 ± 0.1	96 ±1	<9*	<9*	<9*
2010	09	30	1600	<0.3*	86 ±1	<9*	<9*	<9*
2010	09	30	1700	<0.3*	87 ±1	<9*	<9*	<9*

8. Additional Information

Meteorological parameters						
Type of testing/characteristics	Air temperature	Air pressure	Wind direction	Wind speed	Relative humidity	Sunshine duration
Unit of measurement	°C	mBar	-	m/s	%	W/m ²
Flow Number	Temp	Baro	WDIR	SPEED	Humid	Solar

Additional information - meteorological parameters

Year	Month	Day hours	Hour	Temp	Baro	WDIR	SPEED	Humid	Solar
2010	09	27	1600	25.1	983	10	2.25	43.2	500.5
2010	09	27	1700	24.8	983	10	3.00	42.3	404.2
2010	09	27	1800	23.9	984	10	2.05	47.6	207.7
2010	09	27	1900	22.1	984	10	1.05	56.0	50.6
2010	09	29	1800	16.3	969	15	2.85	88.2	27.0
2010	09	29	1900	14.0	969	15	2.35	100.0	13.9
2010	09	29	2000	13.6	970	15	1.30	100.0	11.7
2010	09	29	2100	13.7	970	14	0.40	100.0	11.6
2010	09	29	2200	13.6	971	15	1.65	100.0	11.7
2010	09	29	2300	13.3	971	15	0.60	100.0	11.5
2010	09	29	2400	13.3	971	14	1.15	97.2	11.5
2010	09	30	0100	12.9	971	1	1.45	94.8	11.2
2010	09	30	0200	12.3	972	1	1.30	92.1	10.7
2010	09	30	0300	11.6	972	8	0.30	94.6	11.0
2010	09	30	0400	11.5	973	8	0.75	92.3	10.9
2010	09	30	0500	11.0	973	10	0.65	93.2	10.7
2010	09	30	0600	10.6	973	10	0.85	98.8	11.1
2010	09	30	0700	10.3	973	9	0.25	100.0	10.5
2010	09	30	0800	10.8	974	15	0.75	77.8	30.8
2010	09	30	0900	10.3	975	10	0.55	85.1	175.9
2010	09	30	1000	11.5	976	9	0.60	81.6	296.1
2010	09	30	1100	14.4	976	16	2.15	57.0	637.5
2010	09	30	1200	15.7	976	15	1.85	52.3	735.9
2010	09	30	1300	16.3	976	15	2.25	46.8	800.6
2010	09	30	1400	17.4	976	1	1.70	43.7	872.7
2010	09	30	1,500	17.8	975	4	1.55	43.8	648.6
2010	09	30	1600	17.9	976	3	0.20	44.6	302.2
2010	09	30	1700	17.4	975	16	1.25	48.5	109.9

LEGEND: * the measured value is less than the limit for the determining of the method.

NOTE : The data from p. 8 are received by using non-calibrated methods for measurement and are beyond the scope for accreditation.
 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:

Eng. Hr. Angelov
 (family name, signature)

MANAGER OF THE INDEPENDENT LABORATORY:

Eng. St. Chokova
 (family name, signature)