



Agenția pentru Protecția Mediului Maramureș

Nr.: 10045/19.10.2017
Către: Primaria Municipiului Baia Mare
În atenția: Domnului Primar Cătălin Cherecheș
Doamnei Arhitect Șef Izabella Morth
Spre știință: Doamna Mariana Popescu
Referitor la: Informații necesare pentru elaborarea hărții de zgomot

**Domnule Primar,
Doamnă Arhitect Șef,**

Ca urmare a adresei d-voastră nr. 36720/12.10.2017, înregistrată la APM Maramureș cu nr. 10045/12.10.2017, referitoare la solicitarea de informații necesare elaborării hărții de zgomot a Municipiului Baia Mare, vă transmitem informațiile solicitate, astfel:

1. Date meteo

Datele meteorologice (temperatură, presiune, umiditate, viteză, direcția vântului -medie anuală) au fost înregistrate în 4 stații automate de monitorizare a calității aerului din aglomerarea Baia Mare (MM2, MM3, MM4, MM5) care sunt dotate cu instrumente/echipamente meteo. Datele au fost validate de către APM Maramureș. Lipsa de date pentru unele perioade ale anului la indicatorii monitorizați este cauzată de defecțiunile apărute în funcționarea echipamentelor.

Station:		MM-2 - Validate data				
year:		2016				
months	W.Dir. °nord	W.Speed m/s	Temp. °C	Rel.Hum %	Baromet hPa	Sol.Rad W/m2
Jan			0	84	988	23
Feb			7	80	986	47
Mar			8	66	984	90
Apr			15	63	983	159
May	220	0.8	18	60	986	180
Jun	220	0.8	24	60	989	195
Jul	206	0.8	25	58	990	195
Aug	188	0.7	24	59	991	191
Sep	188	0.6	20	62	991	145
Oct	203	0.5	10	77	993	61
Nov	203	0.6	6	76	992	44
Dec	189	0.5	-2	81	1000	25
average	202.125	0.6625	12.91667	68.83333	989.4167	112.9167



Station: MM-3 - Validate data						
year: 2016						
months	W.Dir. °nord	W.Speed m/s	Temp. °C	Rel.Hum %	Baromet hPa	Sol.Rad W/m2
Jan			-2	96	967	23
Feb			6		966	52
Mar			7		964	89
Apr			13		964	144
May	235	1.3	16	74	968	167
Jun	250	1.2	22	78	971	161
Jul	254	1.3	23	74	973	164
Aug	246	1.2	22	75	974	138
Sep	234	1.2	17	78	973	98
Oct	230	1.1	8	87	974	45
Nov	211	1.1	4	86	972	38
Dec	201	0.9	-4	86	981	24
average	232.625	1.1625	11	81.55556	970.5833	95.25

Station: MM-4 - Validate data						
year: 2016						
months	W.Dir. °nord	W.Speed m/s	Temp. °C	Rel.Hum %	Baromet hPa	Sol.Rad W/m2
Jan						
Feb						
Mar						
Apr						
May						
Jun	111	1.6	26	75	986	237
Jul	111	2	25	69	987	237
Aug	99	2	24	71	988	208
Sep	100	2.3	20	69	988	157
Oct	119	1.7	10	82	990	66
Nov	122	1.7	5	81	988	47
Dec	121	1.1	-2	84	997	29
average	111.8571	1.771429	15.42857	75.85714	989.1429	140.1429

Station: MM-5 - Validate data						
year: 2016						
months	W.Dir. °nord	W.Speed m/s	Temp. °C	Rel.Hum %	Baromet hPa	Sol.Rad W/m2
Jan						
Feb						
Mar						
Apr						
May						
Jun	89	0.6	26	75	981	274
Jul	65	0.7	24	74	981	239
Aug	65	0.7	23	76	982	208



Sep	135	0.8	19	76	982	150
Oct	143	0.8	9	87	984	63
Nov	149	0.8	4	83	982	43
Dec	164	0.6	-3	84	991	25
average	115.7143	0.714286	14.57143	79.28571	983.2857	143.1429

Wind direction and speed: frequency distribution (%)
Station: MM-2 - Validate data - monitoring period: 01/01/2016 - 31/12/2016

Stability class: All

Total hours:
8784

Valid data: 4373

Sectors	Speed classes (m/s)							Total	Average speed (m/s)
	0 - 0,5	0,5 - 2	2 - 4	4 - 6	6 - 9	9 - 12	12 - 100		
<i>calm</i>	1.60							1.60	
NORTH	25.84	1.83	0.00	0.00	0.00	0.00	0.00	27.67	0.38
NNE	53.28	10.52	0.00	0.00	0.00	0.00	0.00	63.80	0.42
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
EAST	2.74	16.24	0.00	0.00	0.00	0.00	0.00	18.98	0.96
ESE	4.57	29.27	0.00	0.00	0.00	0.00	0.00	33.84	0.90
SE	18.75	30.19	0.00	0.00	0.00	0.00	0.00	48.94	0.67
SSE	57.17	116.85	1.83	0.00	0.00	0.00	0.00	175.85	0.79
SOUTH	74.32	104.05	0.91	0.00	0.00	0.00	0.00	179.28	0.69
SSW	51.22	20.35	0.23	0.00	0.00	0.00	0.00	71.80	0.46
SW	39.10	16.92	0.23	0.00	0.00	0.00	0.00	56.25	0.46
WSW	22.64	25.15	0.23	0.00	0.00	0.00	0.00	48.02	0.66
WEST	19.67	28.36	2.29	0.00	0.00	0.00	0.00	50.31	0.81
WNW	10.06	9.15	1.14	0.00	0.00	0.00	0.00	20.35	0.67
NW	18.29	18.98	0.46	0.00	0.00	0.00	0.00	37.73	0.61
NNW	78.44	85.98	1.14	0.00	0.00	0.00	0.00	165.56	0.70
<i>variable</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	477.70	513.83	8.46	0.00	0.00	0.00	0.00	1000	
Average speed (m/s)	0.35	0.94	2.35						0.67



Wind direction and speed: frequency distribution (%)
Station: MM-3 - Validate data - monitoring period: 01/01/2016 - 31/12/2016

Stability class: All

Total hours:
8784

Valid data:
3632

Sectors	Speed classes (m/s)							Total	Average speed (m/s)
	0 - 0,5	0,5 - 2	2 - 4	4 - 6	6 - 9	9 - 12	12 - 100		
<i>calm</i>	3.30							3.30	
NORTH	10.46	4.68	0.00	0.00	0.00	0.00	0.00	15.14	0.49
NNE	12.67	5.51	0.00	0.00	0.00	0.00	0.00	18.17	0.48
NE	1.65	0.28	0.00	0.00	0.00	0.00	0.00	1.93	0.41
ENE	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.30
EAST	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.26
ESE	2.48	0.83	0.00	0.00	0.00	0.00	0.00	3.30	0.39
SE	9.91	21.48	0.55	0.00	0.00	0.00	0.00	31.94	0.81
SSE	42.95	189.43	44.60	0.28	0.00	0.00	0.00	277.26	1.32
SOUTH	30.56	73.51	9.64	0.00	0.00	0.00	0.00	113.71	1.05
SSW	22.03	10.74	0.28	0.00	0.00	0.00	0.00	33.04	0.50
SW	18.17	14.32	1.10	0.00	0.00	0.00	0.00	33.59	0.68
WSW	19.27	15.97	0.28	0.00	0.00	0.00	0.00	35.52	0.66
WEST	19.55	22.58	3.58	0.00	0.00	0.00	0.00	45.70	0.82
WNW	21.20	41.02	10.46	0.28	0.00	0.00	0.00	72.96	1.07
NW	14.87	57.82	28.08	1.10	0.00	0.00	0.00	101.87	1.55
NNW	43.23	117.02	49.28	1.93	0.28	0.00	0.00	211.73	1.33
<i>variable</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	273.13	575.17	147.85	3.58	0.28	0.00	0.00	1000	
Average speed (m/s)	0.34	1.15	2.54	4.65	6.02				1.15



Wind direction and speed: frequency distribution (%)
Station: MM-4 - Validate data - monitoring period: 01/01/2016 - 31/12/2016

Stability class: All

Total hours:
8784

Valid data: 4228

Sectors	Speed classes (m/s)							Total	Average speed (m/s)
	0 - 0,5	0,5 - 2	2 - 4	4 - 6	6 - 9	9 - 12	12 - 100		
<i>calm</i>	0.00							0.00	
NORTH	2.13	0.47	0.00	0.00	0.00	0.00	0.00	2.60	0.41
NNE	8.51	40.68	134.11	39.26	0.00	0.00	0.00	222.56	2.96
NE	5.20	43.52	99.57	22.94	0.00	0.00	0.00	171.24	2.69
ENE	10.17	76.87	41.15	4.97	0.00	0.00	0.00	133.16	1.79
EAST	9.70	36.66	4.49	0.00	0.00	0.00	0.00	50.85	1.04
ESE	9.22	16.56	1.66	0.00	0.00	0.00	0.00	27.44	0.83
SE	15.37	13.95	0.00	0.00	0.00	0.00	0.00	29.33	0.61
SSE	17.27	17.74	0.00	0.00	0.00	0.00	0.00	35.00	0.60
SOUTH	17.74	31.69	0.00	0.00	0.00	0.00	0.00	49.43	0.70
SSW	21.29	52.74	0.24	0.00	0.00	0.00	0.00	74.27	0.80
SW	18.21	78.05	6.39	0.00	0.00	0.00	0.00	102.65	1.03
WSW	13.25	70.72	9.70	0.00	0.00	0.00	0.00	93.66	1.17
WEST	1.66	2.60	0.00	0.00	0.00	0.00	0.00	4.26	0.55
WNW	0.95	1.18	0.00	0.00	0.00	0.00	0.00	2.13	0.48
NW	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.35
NNW	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.30
<i>variable</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	152.08	483.44	297.30	67.17	0.00	0.00	0.00	1000	
Average speed (m/s)	0.36	1.11	3.04	4.37					1.79



Wind direction and speed: frequency distribution (%)
Station: MM-5 - Validate data - monitoring period: 01/01/2016 - 31/12/2016

Stability class: All

Total hours:
8784

Valid data: 2370

Sectors	Speed classes (m/s)							Total	Average speed (m/s)
	0 - 0,5	0,5 - 2	2 - 4	4 - 6	6 - 9	9 - 12	12 - 100		
<i>calm</i>	4.22							4.22	
NORTH	11.39	86.92	0.00	0.00	0.00	0.00	0.00	98.31	0.84
NNE	64.14	154.85	1.27	0.00	0.00	0.00	0.00	220.25	0.75
NE	0.84	0.84	0.00	0.00	0.00	0.00	0.00	1.69	0.65
ENE	5.49	7.59	0.00	0.00	0.00	0.00	0.00	13.08	0.74
EAST	19.83	24.47	0.00	0.00	0.00	0.00	0.00	44.30	0.67
ESE	46.84	49.37	1.27	0.00	0.00	0.00	0.00	97.47	0.61
SE	54.43	80.17	0.42	0.00	0.00	0.00	0.00	135.02	0.67
SSE	50.63	114.35	0.42	0.00	0.00	0.00	0.00	165.40	0.72
SOUTH	28.69	75.95	0.84	0.00	0.00	0.00	0.00	105.49	0.80
SSW	18.14	33.33	0.42	0.00	0.00	0.00	0.00	51.90	0.77
SW	2.53	8.02	0.42	0.00	0.00	0.00	0.00	10.97	1.02
WSW	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.29
WEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NNW	5.91	44.73	0.42	0.00	0.00	0.00	0.00	51.05	0.96
<i>variable</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	313.92	680.59	5.49	0.00	0.00	0.00	0.00	1000	
Average speed (m/s)	0.34	0.91	2.32						0.74





