

Attachment 1

“ACOUSTIC MEASUREMENTS REPORT”

AREA INFORMATION

Beginning date of campaign _____

Location: _____ Address _____

Stairs N.: _____ Floor: _____ Internal N.: _____ Tel: _____

Applicant(s) : _____

Technician(s) – Operator(s) _____

Participant(s) - Observer(s): _____

Notes: _____

ATMOSPHERIC CONDITIONS

☐ SUITABLE ☐ UNSUITABLE

Wind speed (m/s): _____ Wind direction: _____

Notes: _____

ACOUSTIC CLASSIFICATION PLAN

Acoustic Zone Classification:

Class I ☐ Class II ☐ Class III ☐ Class IV ☐ Class V ☐ Class VI ☐

Absolute value of the zone:

DIURNAL (06:00-22:00 hr): _____

NOCTURNAL (22:00-06:00 hr): _____

No acoustically classified territory:

Zone A ☐ Zone B ☐ Exclusively industrial zone ☐ National territory ☐

Absolute value of the zone:

DIURNAL (06:00-22:00 hr): _____

NOCTURNAL (22:00-06:00 hr): _____

Location Plan

Sketch of sampling area (mapping, measuring points, noise sources, etc.)

Description of the measuring point

MICROPHONE POSITIONING

☐ INTERNAL

Microphone height from ground: _____

Microphone distance from walls: _____

Microphone distance from noise source: _____

☐ EXTERNAL

Microphone height from ground: _____

Microphone distance from walls: _____

Microphone distance from noise source: _____

DISTURBING SOURCE OF NOISE

Typology of the source:

- ☐ FIXED SONOROUS SOURCE
- ☐ VEHICULAR TRAFFIC
- ☐ RAILWAYS TRAFFIC
- ☐ AIRPORT TRAFFIC

Description of the source: _____

Noise measuring equipment

MONITORING BOX: ☐ YES ☐ NO N°: _____

Instrument	Manufacturer	Model	Serial Number	Calibration date
1) PHONOMETER				
MICROPHONE				
2) PHONOMETER				
MICROPHONE				
3) PHONOMETER				
MICROPHONE				
4) PHONOMETER				
MICROPHONE				
5) PHONOMETER				
MICROPHONE				
CALIBRATOR				

CALIBRATION LEVELS

Instrument	Start of survey (dB):	End of survey (dB):	Difference (dB):
1) PHONOMETER			
2) PHONOMETER			
3) PHONOMETER			
4) PHONOMETER			
5) PHONOMETER			

FIXED SONOROUS SOURCES

ACOUSTIC POLLUTION AND MEASUREMENTS - WORKING GROUPS

Description of noise source _____

Typology of activity _____

Owner Name _____

Company name _____

Address _____ n° _____

Town _____ Tel.: _____

Working hours: _____

Notes: _____

INTERNAL LIFE AMBIENT

AMBIENT NOISE (L_A)

☐ IMMISSION NOISE (air-borne) ☐ TRANSMITTED NOISE (solid way)

CONTINUOUS CYCLE PLANT ☐ YES ☐ NO

DIFFERENTIAL CRITERION IMMISSION ☐ YES ☐ NO

☐ Reference Time DIURNAL (06:00-22:00 hr)

☐ Reference Time NOCTURNAL (22:00-06:00 hr)

☐ Observation Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

☐ Measuring Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

WINDOWS	T_O Observation time (minutes)	T_M Measuring time (minutes)	L_A L_{Aeq} dB(A)
OPEN			
CLOSED			

☐ Negligible noise, therefore acceptable

☐ Applicability of the Immission Differential Level

IMPULSIVE EVENTS

WINDOWS	L_{AImax} dB(A)	L_{ASmax} dB(A)	$L_{AImax} - L_{ASmax}$ dB	Event Number per hour
OPEN				
CLOSED				

PARTIAL TIME NOISE

	Duration (in minutes)	Reduction
Noise duration <15 minutes		-5 dB
Noise duration 15 to 60 minutes		-3 dB

CORRECT AMBIENT NOISE

WINDOWS	L_A L_{Aeq} dB(A)	CORRECTIONS				L_A Correct dB(A)
		K_I	K_T (see frequency analysis)	K_B (see frequency analysis)	T_P	
OPEN						
CLOSED						

RESIDUAL NOISE (L_R)

☐ IMMISSION NOISE (air-borne) ☐ TRANSMITTED NOISE (solid way)

☐ Reference Time DIURNAL (06:00-22:00 hr)

☐ Reference Time NOCTURNAL (22:00-06:00 hr)

☐ Observation Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

☐ Measuring Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

WINDOWS	T_O Observation Time (minutes)	T_M Measuring time (minutes)	L_R L_{Aeq} dB(A)
OPEN			
CLOSED			

IMPULSIVE EVENTS

WINDOWS	L_{AImax} dB(A)	L_{ASmax} dB(A)	$L_{AImax} - L_{ASmax}$ dB	Event Number per hour
OPEN				
CLOSED				

CORRECT RESIDUAL NOISE

WINDOWS	L_R L_{Aeq} dB(A)	CORRECTIONS			L_R Correct dB(A)
		K_I	K_T (see frequency analysis)	K_B (see frequency analysis)	
OPEN					
CLOSED					

IMMISSION DIFFERENTIAL LEVEL (L_D)

WINDOWS	T_R D. (06:00-22:00 hr) N. (22:00-06:00 hr)	L_D Limit dB	L_D (measured) L_A (correct) – L_R (correct) dB
OPEN			
CLOSED			

OUTDOOR LIVING AMBIENT

AMBIENT NOISE ($L_{Aeq,TR}$)

CONTINUOUS CYCLE PLANT

☐ YES

☐ NO

☐ Reference Time DIURNAL (06:00-22:00 hr)

☐ Reference Time NOCTURNAL (22:00-06:00 hr)

☐ Observation Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

☐ Measuring Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

$L_{Aeq,TR}$ DIURNAL (06:00-22:00 hr): _____ dB (A)

$L_{Aeq,TR}$ NOCTURNAL (22:00-06:00 hr): _____ dB (A)

Notes: _____

ROAD NOISE

- ☐ NEWLY SET UP ROAD
- ☐ EXISTING ROADS AND SIMILAR

TYPE OF ROAD:

- ☐ A (Motorway)
- ☐ B (Main extra urban road)
- ☐ C (Secondary extra urban road)
- ☐ D (Fast running urban road)
- ☐ E (Local urban road)
- ☐ F (Local road)

ACOUSTIC REFERENCE ZONES FOR NEWLY SET UP RAODS

(per type of road):

- ☐ A 250 m
- ☐ B 250 m
- ☐ C: ☐ 250 m ☐ 150 m
- ☐ D 100 m
- ☐ E 30 m
- ☐ F 30 m

ACOUSTIC REFERENCE ZONES FOR EXISTING ROADS AND SIMILAR
(per zoned areas):

☐ Zone A (for road types A, B and C)

☐ Zone B (for road types A, B and C)

☐ 100 m Zone (for road type D)

☐ 30 m Zone (for road types E and F)

☐ Reference Time DIURNAL (06:00-22:00 hr)

☐ Reference Time NOCTURNAL (22:00-06:00 hr)

☐ Observation Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

☐ Measuring Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

Equivalent levels (Daily and Weekly Average) dB(A)		
	Diurnal (6.00-22.00 hr)	Nocturnal (22.00-6.00 hr)
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		
<i>Weekly Average</i>		

Notes: _____

RAILWAY NOISE

☐ NEWLY SET UP INFRASTRUCTURE WITH DESIGNED SPEED >200 Km/h

☐ Reference Zone (250 m)

☐ Outer Zone

☐ EXISTING INFRASTRUCTURE AND NEWLY SET UP
WITH DESIGNED SPEED <200 Km/h

☐ Zone A (100 m)

☐ Zone B (150 m)

☐ Outer Zone

☐ Reference Time DIURNAL (06:00-22:00 hr)

☐ Reference Time NOCTURNAL (22:00-06:00 hr)

☐ Observation Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

☐ Measuring Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

Microphone elevation from ground: _____

Distance from rail line middle to the measuring point _____

LAeq,TR (6-22): _____ **dB** **Diurnal Event Number :** _____

LAeq,TR (22-6): _____ **dB** **Nocturnal Event Number :** _____

Total Event Number : _____

Note: _____

AIRPORT NOISE

ACOUSTIC CHARACTERIZATION OF THE INNER AIRPORT

(Zoned areas):

- ☐ Zone A
- ☐ Zone B
- ☐ Zone C
- ☐ Outer Zones

☐ Reference Time DIURNAL (06:00-22:00 hr)

☐ Reference Time NOCTURNAL (22:00-06:00 hr)

☐ Observation Time:

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

from _____ (hr) date _____ to _____ (hr) date _____

Measuring Time (3 weeks)

1) from _____ (hr) date _____ to _____ (hr) date _____

L_{VAd},TR (06-23 hr): _____ dB Diurnal Event Number : _____

L_{VAn},TR (23-06 hr): _____ dB Nocturnal Event Number : _____

L_{VAj},TR (00-24 hr): _____ dB Total Event Number : _____

2) from _____ (hr) date _____ to _____ (hr) date _____

L_{VAd},TR (06-23 hr): _____ dB Diurnal Event Number : _____

L_{VAn},TR (23-06 hr): _____ dB Nocturnal Event Number : _____

L_{VAj},TR (00-24 hr): _____ dB Total Event Number : _____

3) from _____ (hr) date _____ to _____ (hr) date _____

L_{VAd},TR (06-23 hr): _____ dB Diurnal Event Number : _____

L_{VAn},TR (23-06 hr): _____ dB Nocturnal Event Number : _____

L_{VAj},TR (00-24 hr): _____ dB Total Event Number : _____

Notes: _____
