

第 4 章 振動

- 4.1 環境振動現地調査結果…………… 資 4-1-1
- 4.2 道路交通振動現地調査結果…………… 資 4-2-1
- 4.3 地盤卓越振動数調査結果…………… 資 4-3-1

振動測定結果総括表

測定地点：NO.4

測定日：2016.8.2~3

単位：dB

時間の区分	時台	1時間平均値(L _{Amax} は最大値)						時間区分平均値(L _{Amax} は最大値)					
		L _{V5}	L _{V10}	L _{V50}	L _{V90}	L _{V95}	L _{Vmax}	L _{V5}	L _{V10}	L _{V50}	L _{V90}	L _{V95}	L _{Vmax}
昼	8	25.9	24.1	24.0	24.0	24.0	51.2	26.4	24.3	24.0	24.0	24.0	69.1
	9	30.1	26.3	24.0	24.0	24.0	60.6						
	10	28.8	24.8	24.0	24.0	24.0	61.5						
	11	25.3	24.0	24.0	24.0	24.0	50.7						
	12	25.7	24.1	24.0	24.0	24.0	54.6						
	13	26.5	24.5	24.0	24.0	24.0	60.2						
	14	25.1	24.0	24.0	24.0	24.0	53.9						
	15	25.2	24.0	24.0	24.0	24.0	48.7						
	16	22.4	24.0	24.0	24.0	24.0	50.3						
	17	30.9	24.0	24.0	24.0	24.0	69.1						
間	18	26.3	24.0	24.0	24.0	24.0	51.1						
	19	24.0	24.0	24.0	24.0	24.0	51.1						
	20	24.0	24.0	24.0	24.0	24.0	45.8						
	21	24.0	24.0	24.0	24.0	24.0	42.1						
	22	24.0	24.0	24.0	24.0	24.0	41.5						
	23	24.0	24.0	24.0	24.0	24.0	45.6						
	0	24.0	24.0	24.0	24.0	24.0	36.8						
	1	24.1	24.0	24.0	24.0	24.0	34.5						
	2	24.0	24.0	24.0	24.0	24.0	39.0						
	3	24.1	24.0	24.0	24.0	24.0	47.6						
間	4	24.0	24.0	24.0	24.0	24.0	33.6						
	5	24.2	24.0	24.0	24.0	24.0	40.4						
	6	24.2	24.0	24.0	24.0	24.0	43.2						
	7	27.3	24.0	24.0	24.0	24.0	48.8						

振動測定結果総括表

測定地点：NO.1

測定日：2016.8.2~3

単位：dB

時間の区分	時台	1時間平均値(L _{Amax} は最大値)						時間区分平均値(L _{Amax} は最大値)						
		L _{V5}	L _{V10}	L _{V50}	L _{V90}	L _{V95}	L _{Vmax}	L _{V5}	L _{V10}	L _{V50}	L _{V90}	L _{V95}	L _{Vmax}	
昼	8	30.2	25.3	24.0	24.0	24.0	71.8	31.0	25.2	24.1	24.0	24.0	83.4	
	9	34.7	25.7	24.0	24.0	24.0	79.3							
	10	36.7	26.6	24.0	24.0	24.0	76.9							
	11	30.1	25.2	24.0	24.0	24.0	71.6							
	12	28.9	25.3	24.0	24.0	24.0	72.1							
	13	32.2	24.9	24.0	24.0	24.0	83.4							
	14	27.9	24.0	24.0	24.0	24.0	69.8							
	15	34.9	24.2	24.0	24.0	24.0	73.6							
	16	31.5	25.6	24.0	24.0	24.0	73.3							
	17	31.5	25.1	24.0	24.0	24.0	65.0							
間	18	27.3	24.9	24.2	24.0	24.0	67.5							
	19	26.5	25.8	24.6	24.0	24.0	68.5							
	夜	20	24.6	24.1	24.0	24.0	24.0	63.4	25.0	24.1	24.0	24.0	24.0	72.7
		21	24.0	24.0	24.0	24.0	24.0	34.3						
		22	24.2	24.0	24.0	24.0	24.0	64.7						
		23	24.0	24.0	24.0	24.0	24.0	34.1						
		0	24.0	24.0	24.0	24.0	24.0	38.2						
		1	24.0	24.0	24.0	24.0	24.0	28.6						
		2	24.0	24.0	24.0	24.0	24.0	62.5						
		3	24.8	24.3	24.0	24.0	24.0	68.6						
4		24.8	24.3	24.0	24.0	24.0	38.4							
5		24.0	24.0	24.0	24.0	24.0	65.6							
間	6	24.0	24.0	24.0	24.0	24.0	66.6							
	7	33.6	24.6	24.0	24.0	24.0	72.7							

騒音測定結果総括表

測定地点：NO.2

測定日：2016.8.2~3

単位：dB

時間区分平均値における L_{Aeq} は、エネルギー平均値である。

時間の区分	時台	1時間平均値 (L_{Amax} は最大値)							時間区分平均値 (L_{Amax} は最大値)													
		L_{Aeq}	L_{A5}	L_{A10}	L_{A50}	L_{A90}	L_{A95}	L_{Amax}	L_{Aeq}	L_{A5}	L_{A10}	L_{A50}	L_{A90}	L_{A95}	L_{Amax}							
昼	6	54.8	53.4	47.9	40.2	38.9	38.8	83.9	60	61.0	56.9	48.1	45.0	44.3	95.9							
	7	60.0	64.5	58.7	43.9	39.6	39.3	89.1														
	8	60.3	63.2	58.0	43.6	39.2	38.9	87.8														
	9	58.9	60.2	56.3	51.5	48.5	47.9	86.4														
	10	58.7	62.8	58.8	52.6	49.7	49.1	82.6														
	11	66.6	67.5	65.1	57.1	51.9	51.2	95.9														
	12	57.5	60.6	56.2	52.0	49.6	49.2	77.1														
	13	56.7	59.3	54.0	49.1	46.7	46.2	82.2														
	14	57.2	59.4	54.9	47.6	45.3	44.9	85.1														
	15	58.1	60.8	54.5	43.5	41.9	41.6	84.7														
間	16	59.9	62.3	56.4	44.1	42.4	42.1	85.9														
	17	61.9	66.4	62.5	52.8	48.3	47.1	84.7														
	18	58.3	63.8	61.4	51.4	46.5	45.0	83.9														
	19	55.1	60.3	58.3	49.2	44.7	43.0	84.6														
	20	53.3	58.8	56.3	47.5	45.1	43.7	84.8														
	21	48.5	53.2	50.7	44.2	41.9	41.1	81.0														
夜	22	47.6	53.0	50.3	46.2	42.7	42.0	80.1								47	45.7	43.8	41.4	40.4	40.2	80.1
	23	49.4	49.5	47.3	43.7	42.7	42.3	79.3														
	24	41.6	42.3	41.9	41.0	40.5	40.3	68.6														
	1	41.6	41.4	41.0	40.3	39.9	39.8	67.9														
	2	44.1	41.5	40.8	40.1	39.7	39.6	71.7														
	間	3	45.3	43.8	41.8	40.0	39.5	39.4	75.1													
		4	49.2	47.6	43.2	40.3	39.3	39.2	76.8													
		5	46.5	46.7	44.1	39.9	39.1	39.0	71.9													

振動測定結果総括表

測定地点：NO.3

測定日：2016.8.2~3

単位：dB

時間の区分	時台	1時間平均値(L _{Amax} は最大値)						時間区分平均値(L _{Amax} は最大値)					
		L _{V5}	L _{V10}	L _{V50}	L _{V90}	L _{V95}	L _{Vmax}	L _{V5}	L _{V10}	L _{V50}	L _{V90}	L _{V95}	L _{Vmax}
昼 間	7	28.7	24.7	24.0	24.0	24.0	53.8	26.0	24.2	24.0	24.0	24.0	66.2
	8	27.0	24.7	24.0	24.0	24.0	52.1						
	9	28.5	24.3	24.0	24.0	24.0	56.6						
	10	28.5	25.1	24.0	24.0	24.0	55.6						
	11	24.9	24.0	24.0	24.0	24.0	66.2						
	12	25.2	24.0	24.0	24.0	24.0	51.9						
	13	26.0	24.0	24.0	24.0	24.0	53.1						
	14	24.2	24.0	24.0	24.0	24.0	49.9						
	15	24.8	24.0	24.0	24.0	24.0	49.3						
	16	25.8	24.0	24.0	24.0	24.0	47.0						
	17	24.9	24.0	24.0	24.0	24.0	47.0						
	18	24.0	24.0	24.0	24.0	24.0	34.8						
夜 間	19	24.0	24.0	24.0	24.0	24.0	34.9	24.1	24.0	24.0	24.0	24.0	41.7
	20	24.0	24.0	24.0	24.0	24.0	40.2						
	21	24.0	24.0	24.0	24.0	24.0	34.1						
	22	24.0	24.0	24.0	24.0	24.0	27.5						
	23	24.0	24.0	24.0	24.0	24.0	29.2						
	0	24.0	24.0	24.0	24.0	24.0	31.5						
	1	24.0	24.0	24.0	24.0	24.0	24.0						
	2	24.0	24.0	24.0	24.0	24.0	24.0						
	3	24.0	24.0	24.0	24.0	24.0	28.6						
	4	24.0	24.0	24.0	24.0	24.0	35.5						
	5	24.0	24.0	24.0	24.0	24.0	41.7						
	6	25.3	24.2	24.0	24.0	24.0	40.9						

地盤卓越振動数

地点：NO.1

単位：dB

台数	周波数(Hz)																				
	1	1.25	1.6	2	2.5	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100
1	26.0	22.4	27.6	32.1	29.2	34.8	32.6	39.9	38.3	39.3	39.4	45.6	46.5	45.4	40.4	36.1	31.1	30.5	27.3	23.4	19.9
2	20.0	26.2	20.8	28.3	27.0	31.1	35.0	38.5	37.4	35.7	37.8	43.7	44.0	45.2	40.4	35.8	32.8	33.0	30.1	25.6	21.4
3	23.2	19.2	25.2	31.1	29.2	30.1	36.1	38.5	40.2	39.2	37.7	47.1	45.6	44.1	39.3	36.3	32.1	29.6	26.2	22.6	19.4
4	26.6	29.5	28.3	34.0	27.3	27.1	34.2	40.2	40.2	38.5	40.5	43.0	44.7	45.2	39.4	35.4	30.9	30.4	27.9	23.9	20.6
5	30.4	28.2	31.8	34.5	33.6	35.7	38.9	35.8	37.2	36.3	40.6	46.0	47.5	44.8	39.7	35.8	33.5	31.1	27.5	24.5	20.0
6	23.7	27.0	28.6	32.6	29.4	33.8	33.1	39.5	39.1	39.0	39.2	44.6	45.4	45.7	41.3	36.9	33.5	30.9	28.7	25.6	22.3
7	23.9	22.9	27.3	34.6	33.2	33.3	37.5	34.7	39.0	39.5	38.3	44.7	47.5	43.3	40.3	34.6	31.9	29.9	27.5	24.3	19.5
8	27.0	27.1	26.9	28.0	32.3	33.7	36.9	37.8	37.1	38.6	40.6	47.3	45.0	41.3	40.1	34.7	30.7	28.9	27.1	22.4	17.8
9	16.7	26.6	27.6	21.8	30.4	29.8	36.0	37.4	37.2	37.1	42.2	47.9	45.4	44.5	39.3	34.6	31.7	29.2	27.2	23.0	18.2
10	29.9	24.7	34.9	32.1	33.8	30.0	34.5	36.5	36.5	36.6	39.2	44.2	48.1	41.3	39.9	35.9	31.3	29.8	26.6	23.7	19.3

地盤卓越振動数 16.15

地点：NO.2

台数	周波数(Hz)																				
	1	1.25	1.6	2	2.5	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100
1	0.0	1.1	5.1	11.6	17.1	22.1	20.7	18.3	23.1	28.3	33.6	32.3	30.8	35.5	37.3	32.0	26.6	25.1	26.1	21.1	14.1
2	2.3	4.8	6.0	5.4	3.6	15.0	16.3	13.6	19.1	24.2	29.5	32.4	36.4	34.1	34.6	33.9	29.0	27.7	25.6	20.5	14.6
3	1.9	2.7	7.0	12.7	9.2	17.8	17.7	18.3	14.2	21.3	19.5	29.8	27.9	34.5	29.8	26.4	26.9	27.5	26.6	22.6	21.8
4	3.8	8.0	11.8	15.0	12.2	11.5	16.4	23.3	22.4	26.3	30.4	27.8	33.0	33.0	39.6	32.2	27.6	26.5	24.5	22.3	16.0
5	10.7	11.2	10.2	6.0	12.8	23.0	28.3	23.9	15.8	27.7	28.5	30.2	33.8	36.3	36.0	35.8	29.7	27.4	26.9	23.0	16.3
6	9.0	11.8	12.3	11.5	6.5	12.4	20.8	18.9	19.9	22.3	28.6	31.6	30.7	36.4	34.7	35.8	32.0	24.6	24.5	18.7	13.5
7	11.0	5.3	-2.8	8.6	13.9	9.2	18.4	22.1	25.1	26.2	27.6	28.8	35.9	32.5	33.1	31.8	28.0	27.1	25.9	19.6	12.7
8	5.4	3.8	2.5	5.3	12.3	12.1	19.3	22.4	23.1	25.6	30.9	28.8	33.7	36.7	36.2	32.5	27.1	28.2	25.2	20.6	16.2
9	0.7	8.4	12.3	11.4	12.0	10.1	21.6	24.0	20.4	23.2	23.3	32.4	40.6	37.5	32.3	33.4	28.4	23.9	20.3	20.6	13.9
10	-1.4	4.2	16.4	24.1	24.5	23.8	28.2	25.7	25.3	19.9	26.0	37.2	41.1	32.5	31.7	28.3	22.7	20.4	23.1	18.4	11.7

地盤卓越振動数 19.4

地点：NO.3

台数	周波数(Hz)																				
	1	1.25	1.6	2	2.5	3.15	4	5	6.3	8	10	12.5	16	20	25	31.5	40	50	63	80	100
1	10.7	13.5	14.9	19.1	18.9	21.5	27.7	27.3	26.5	32.3	35.2	42.3	37.1	38.1	33.6	29.7	25.3	21.7	16.6	16.6	13.0
2	3.0	6.2	7.2	10.5	11.5	15.0	17.3	21.4	29.0	35.9	44.7	40.1	37.5	35.4	32.9	29.2	24.8	21.1	16.2	12.7	8.7
3	4.2	1.9	3.7	5.3	11.1	20.2	16.4	17.0	32.5	37.4	39.9	37.7	39.8	33.7	29.8	26.7	24.1	21.8	16.4	15.2	11.7
4	1.4	5.3	4.0	10.0	8.5	7.0	14.5	13.8	19.8	22.4	35.2	40.3	39.9	33.8	32.1	28.6	25.9	18.9	15.2	11.3	6.6
5	0.8	5.7	10.4	9.9	10.1	11.5	13.4	16.8	21.5	18.8	33.2	40.2	40.7	39.8	27.4	27.5	21.5	20.7	14.8	11.0	6.8
6	4.6	7.4	6.5	9.9	9.1	15.9	18.6	23.9	30.3	34.7	38.4	38.6	42.3	33.3	31.2	28.8	26.4	21.0	16.0	10.5	9.0
7	7.9	0.5	9.0	9.1	10.4	11.2	17.8	21.1	25.3	36.2	39.5	40.4	38.7	37.4	33.7	32.5	28.8	22.3	18.0	10.6	9.4
8	-4.1	6.8	12.7	16.0	18.8	20.2	21.8	27.8	27.3	31.8	39.6	40.1	43.6	39.9	31.8	29.9	29.2	23.8	16.7	12.1	9.1
9	18.1	17.9	13.4	15.2	17.0	22.4	19.1	16.9	29.8	38.8	43.8	39.8	38.4	35.0	33.2	30.3	26.3	25.5	17.6	11.4	11.0
10	-1.4	6.5	5.5	4.6	12.0	14.1	19.5	14.5	25.3	36.1	42.3	41.4	39.0	35.9	34.0	31.8	28.2	24.5	20.1	14.9	12.1

地盤卓越振動数 12.55

