
2017 9 19

1. — 30
2. —
3. —
4. —
5. —

6. —

7. —
8. —

	13962558902		—	—
				[2017]43
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C552
	60000			
	1832.6		80	4.4%
			2019 1	
	()		()	
			1-4	1-6
/	807		/	/
/	100		/	/
/	/			/
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	507t/a	2127.3t/a GB18918-2002 A

()

1

) , () ,

2017 5 5

[2017]43

1

2

1832.6

80 4.4%

16

60000m²

330

7920

2019 1

3

3 500

50

: 3 3 6 2

1-1

1-1

PTA		50	0	50	/

4

1-2 1-3

1-2

		221.46m			
	8.8m	500t 2.5m	3	206m	45m
	10t	3	3	6	2
		0.8 m ²			

8

2

3

“

”

4

[2013]113

E

4

5

GB18918-2002

A

6

7

8

“

”

“

”

2018

5000mg/kg

2019

55000mg/kg

2017

“

”

9

“

”

30°45' 31°14' 120°21' 120°54'

23

8 318 205

60

1

2 4

42.87

31.6

9 15

/

“

1990 ”

1992 160

50

10%

2-1

2-1

1			15.8
			39.0
			-6.6
2			2.5m/s
			32.1m/s
3			101.6kPa
4			1069mm
5			SE 17.2%
			NW 5.4%
			SE 10.8%
6			2200h

533.13km²

160.6km²

30.1

26

4.1-2

3507

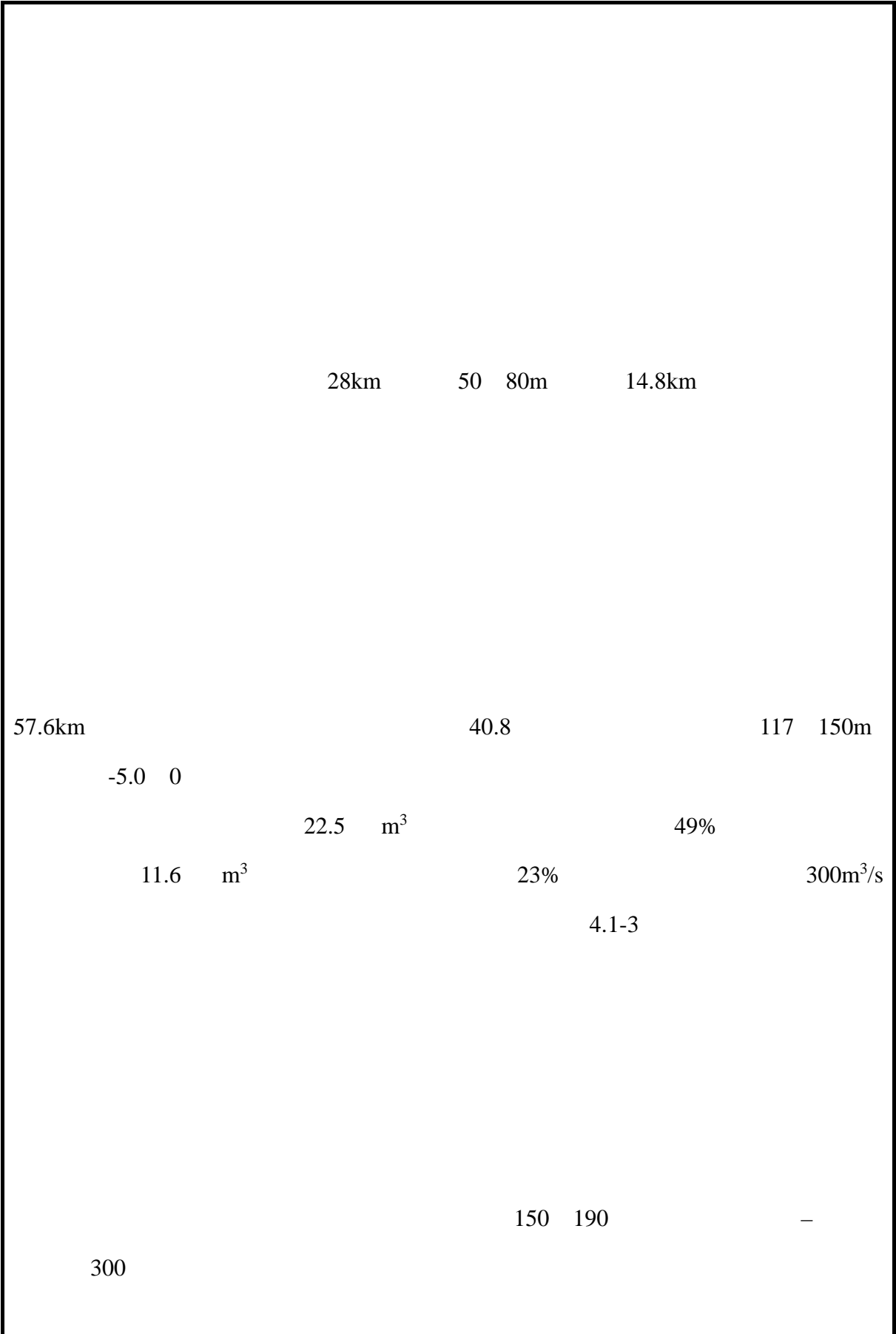
0.7m

538 m³

3658

0.8m

561 m³



1000 5000 / 5000
/ 150
30 50

60

1 / 1 3 /

3 /

1 /

200 8000 /

10 500 /

30

20

PTA

20

G1 G1
 0.5 2017 3 6 12 3-1 3-2
 NO₂ SO₂ PM₁₀
 GB3095-2012
3-1 SO₂ NO₂

					mg/m ³
		mg/m ³	%		
G3	SO ₂	0.017~0.054	0	/	0.5
	NO ₂	0.02~0.05	0	/	0.2

3-2 PM₁₀

		mg/m ³	%		mg/m ³
G3	PM ₁₀	0.109~0.129	0	/	0.15

GB3838-2002

20

W1 500 2017 3
 9 3 11 pH
 COD SS

3-3 mg/L pH

		pH		COD	SS		
W1		7.86	8	27.15	13.5	0.11	2
		6~9	10	30	60	1.5	0.1

20

Z2 Z3 Z4

Z2 Z3 Z4

2017 3 9 3 10

GB3096-2008 3

3-4

š

0 Đ 7±°zÔđ

1

GB3095-2012

4-1

		mg/Nm ³	
SO ₂		0.06	GB3095-2012
	24	0.15	
	1	0.50	
NO ₂		0.04	
	24	0.08	
	1	0.20	
PM ₁₀		0.07	
	24	0.15	
		2.0	

2

GB3838-2002

4-2

4-2

mg/L pH

	pH	COD				BOD ₅			SS
	6~9	30	10	0.3	1.5	6	0.5	3	60

3

GB3096-2008 4a

GB3096-2008 3

4-3

4-3

dB(A)

3		65
4	4a	70
		55
		55

1

SO₂ NO_x

GB16297-1996 2

4-4

	mg/m ³
	1.0
SO ₂	0.40
NO _x	0.12
	4.0

N kw

2

pH COD

DB32/1072-2007

3

DB32/1072-2007

BOD₅ SS

GB18918-2002

A

4-5

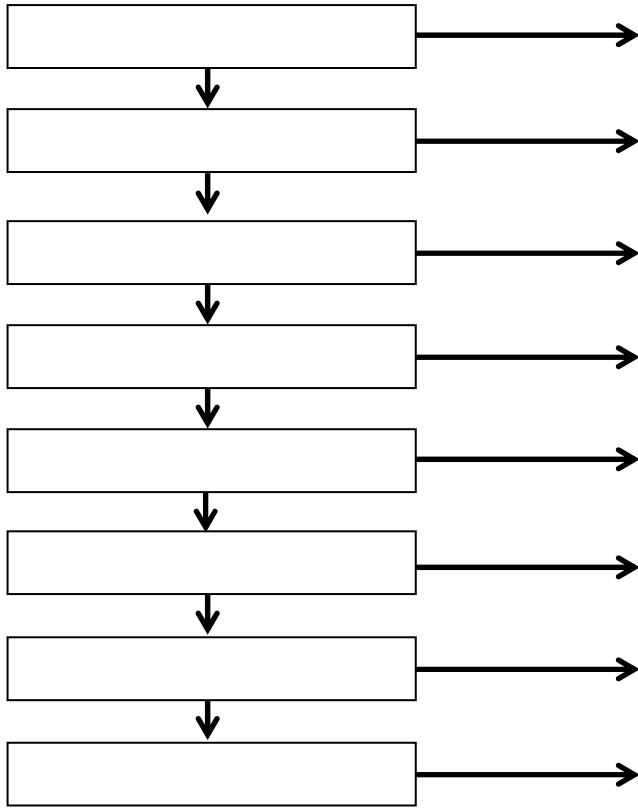
4-5

mg/L

	pH	COD	BOD ₅	SS						
	6-9	500	300	400	35	8.0	40	200	4000	20
	6-9	60	10	10	5()	0.5	15	30	—	1

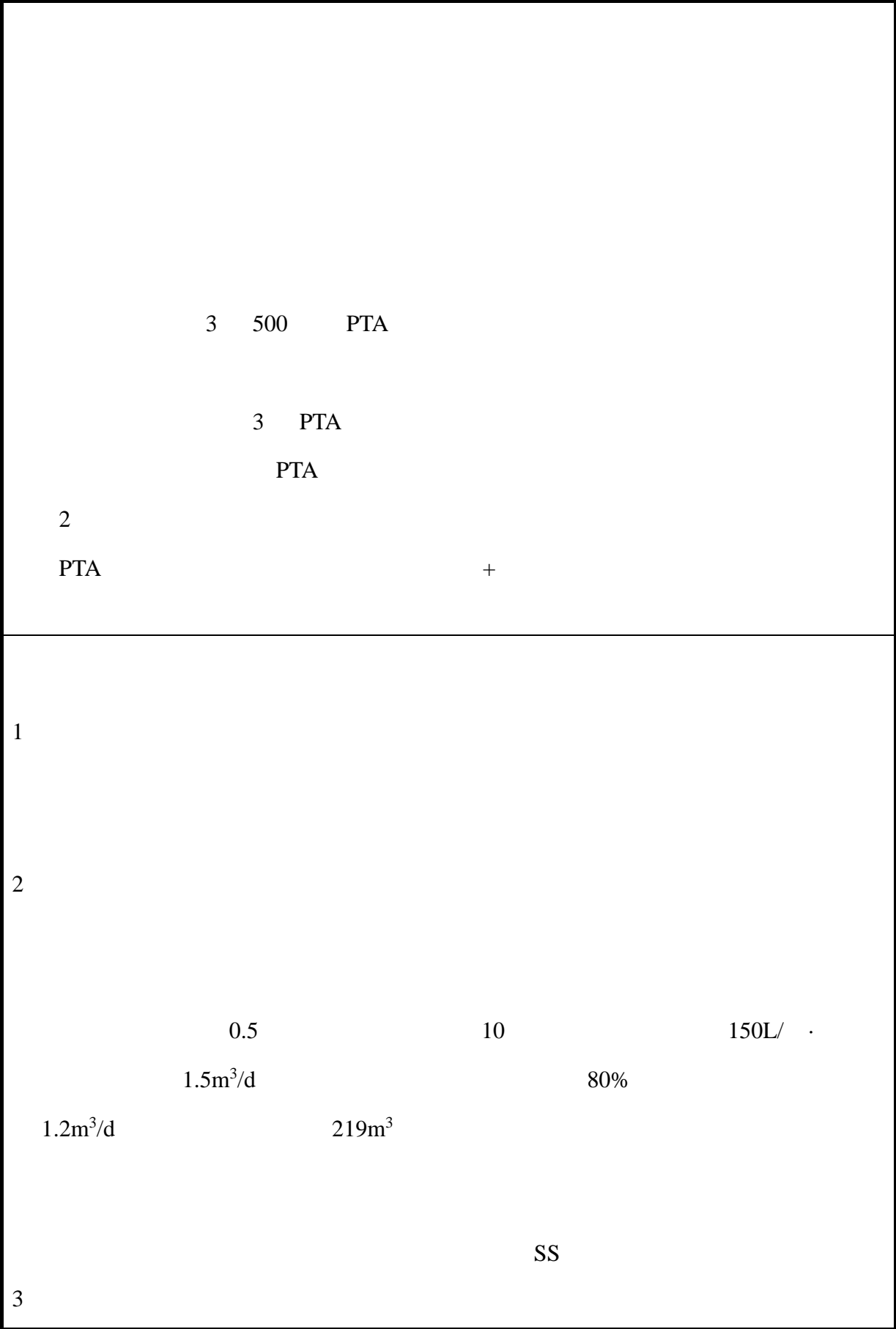
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5-1



5-1

:



4

0.5kg/ .d

5kg/d

912.5Kg

5

1.

PTA

PTA

NOx 1340.44g/100km SO₂

97.82g/100km

134.04g/100km

500m/

20t

+

75 /

5-1

5-1

		SO ₂	NO _x	
	kg/d	0.037	0.503	0.050
	t/a	0.01	0.166	0.016

2.

JTS149-1-2007

450t/a
1978

5000mg/L

1973

5-2

5-2

t	/	t/d	t/a	mg/L	COD mg/L
500 PTA	3	0.27	450	5000	400
	/	/	450	/	/

190L/d

152L/d

500

6

2127.3t/a

3L/m²

577.5m²

7700m²

100

173.25m³/a

2310m³/a

16

120L/d

1.92t/d

0.8

1.536t/d

COD 400mg/L SS 200mg/L

35mg/L

4mg/L

$$Q = \psi \cdot q \cdot F$$

Q

L/s

ψ

F

hm²

q

L/s·hm²

$$q = 167 \times i$$

q——

L/s·hm²

i——

mm/min

P——

1

t——

15min

3.7-5

182.29L/s·hm²

196.87L/s

10

15

1771.83m³/a

SS COD

5-3

5-3

	m ³ /a									
			mg/L	t/a		mg/L	t/a			
507		COD	400	0.203		/	2634.3		2634.3 COD 0.158 SS 0.026 NH ₃ -N 0.013 TP 0.0013	
		SS	300	0.152		COD	400			1.053
			35	0.018		SS	150			0.395
			4	0.002			25			0.066
2127.3		COD	400	0.851		4	0.0265			
		SS	300	0.638						
			35	0.075						
			4	0.0085						
173.25		COD	200	0.034		—	100	0.017		
		SS	200	0.034		—	100	0.017		
1771.83		COD	200	0.354		COD	100	0.177		
		SS	200	0.354		SS	100	0.177		
472.3			5000	2.362			15	0.0071		
		COD	400	0.189		COD	50	0.024		

5.28t/a

16

1.0kg/(·)

2.25t/a

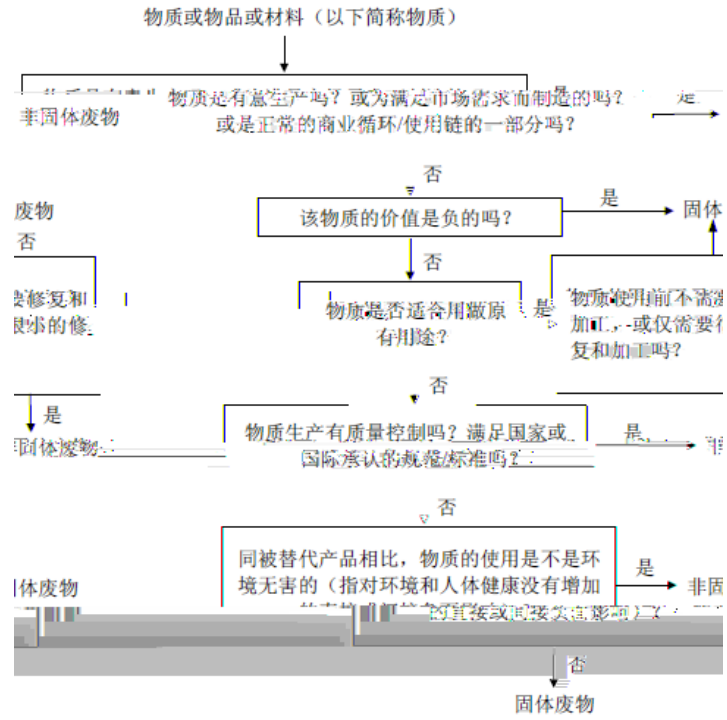
1.5kg/(·)

10kg

3.0t/a

1

5



5-2

5-5

5-5

					/			
1					5.28			
2					2.25			
3					3.0			

5-6

5-6

								/
1					-	-	-	5.28
2					-	-	-	2.25
3					-	-	-	3.0
								10.53

4

5-7

5-7

				(dB)	
1		10t-16m		85	3
2		20t		75 80	4
3		500	/	75 90	/

	()								
		CO	0.101t/a	0.101t/a	—	—	—		
		SO ₂	0.012 t/a	0.012 t/a					
		NO _x	0.166 t/a	0.166 t/a					
			0.016 t/a	0.016 t/a					
			507	2634.3	—	—	10		
		COD	400mg/L 0.203t/a	400 mg/ 1.053t/a					
		SS	300mg/L 0.152t/a	40 mg/L 0.105 t/a					
			35mg/L 0.018t/a	25 mg/L 0.066 t/a					
			4mg/L 0.002t/a	1.5 mg/L 0.004 t/a					
			2127.3						
		COD	400 mg/L 0.851t/a						
		SS	300 mg/L 0.638 t/a						
			35 mg/L 0.075 t/a						
			4 mg/L 0.0085 t/a						
			—	—	—	—			
			5.28	5.28					
			2.25	2.25					
			3.0	3.0					
		1							
		2							
		3							
		4							
		5							
		6							

1.

2.

3.

100m

4.

5.

SS

6.

[2013]113

4

1.

SO₂ NO_x

COD 23.1~23.5mg/L COD 0.11mg/L COD
 22.3mg/L COD 0.11mg/L COD 22.2~22.3mg/L
 COD 0.01mg/L

3.

75-95dB(A)

(HJ2.4-2009)

(Leqg)

$$L_{eqg} = 10 \lg \left(\frac{1}{T} \sum_i t_i 10^{0.1L_{Ai}} \right)$$

L_{eqg} — dB(A)

L_{Ai} —i A dB(A)

T — s

t_i —i T s

(Leq)

$$L_{eq} = 10 \lg (10^{0.1L_{eqg}} + 10^{0.1L_{eqb}})$$

L_{eqg} — dB(A)

L_{eqb} — dB(A)

a. (Adiv) (Aatm) (Agr)

(Abar) (Amisc) r0

(63Hz 8KHz 8) $L_p(r_0)$ (r0)

(r) 8

$$L_p(r) = L_p(r_0) - A_{div} + A_{atm} + A_{gr} + A_{misc}$$

b. A $L_A(r)$ 8

A ($L_A(r)$)

$$L_A(r) = 10 \lg \left[\sum_{i=1}^8 10^{0.1(L_{pi}(r) - \Delta L_i)} \right]$$

$L_{pi}(r)$ — (r) i dB
 L_i — i A dB

7-4 dB(A)

		Z2	Z3	Z4
		36.13	39.77	40.85
		52.8	50.9	51.1
		52.89	51.22	51.49
		70	65	65
		36.13	39.77	40.85
		46.9	45.2	45.5
		47.24	46.29	46.78
		55	55	55

- 1.
- 2.

Z2 Z3 Z4

45.28dB(A)

(GB12348-2008)

4.

7-5

		t/a				
		5.28		—	—	
		2.25		—	—	
		3.0		—	—	
		10.53				

5.

PTA

100

10

293

0.79%

1

2

3

4

VTS

VTS

“

AIS ”

5

6

7

8

9

	()			
		SO ₂ NO _x		GB16297-1996
		COD NH ₃ -N SS TP TN		
		COD		
	/	/	/	/
			/	
	/			
1				
2				
3				
4				
5				
6				

“ ”

780

4.1%

7-8 “ ”

	360	750	330	
			/	/
		COD SS		/
	/	/	/	5
		COD SS		0
		COD	/	
			GB12348- 2008	
				/
			/	
	50m			/

1									
500t	3			PTA	PTA				50
	PTA								
		1832.6				80			16
	330					7920			
2									
								20	
	G1			G1					
0.5		2017	3	6	12			3-1	3-2
						NO ₂	SO ₂		PM ₁₀
						GB3095-2012			
								GB3838-2002	
								20	
	W1				500				2016
16									2
								pH	COD
SS									
								20	
	Z3	Z4							
	3								
	1								
	2								

507t/a

2127.3t/a

3

4

GB12348-2008

4

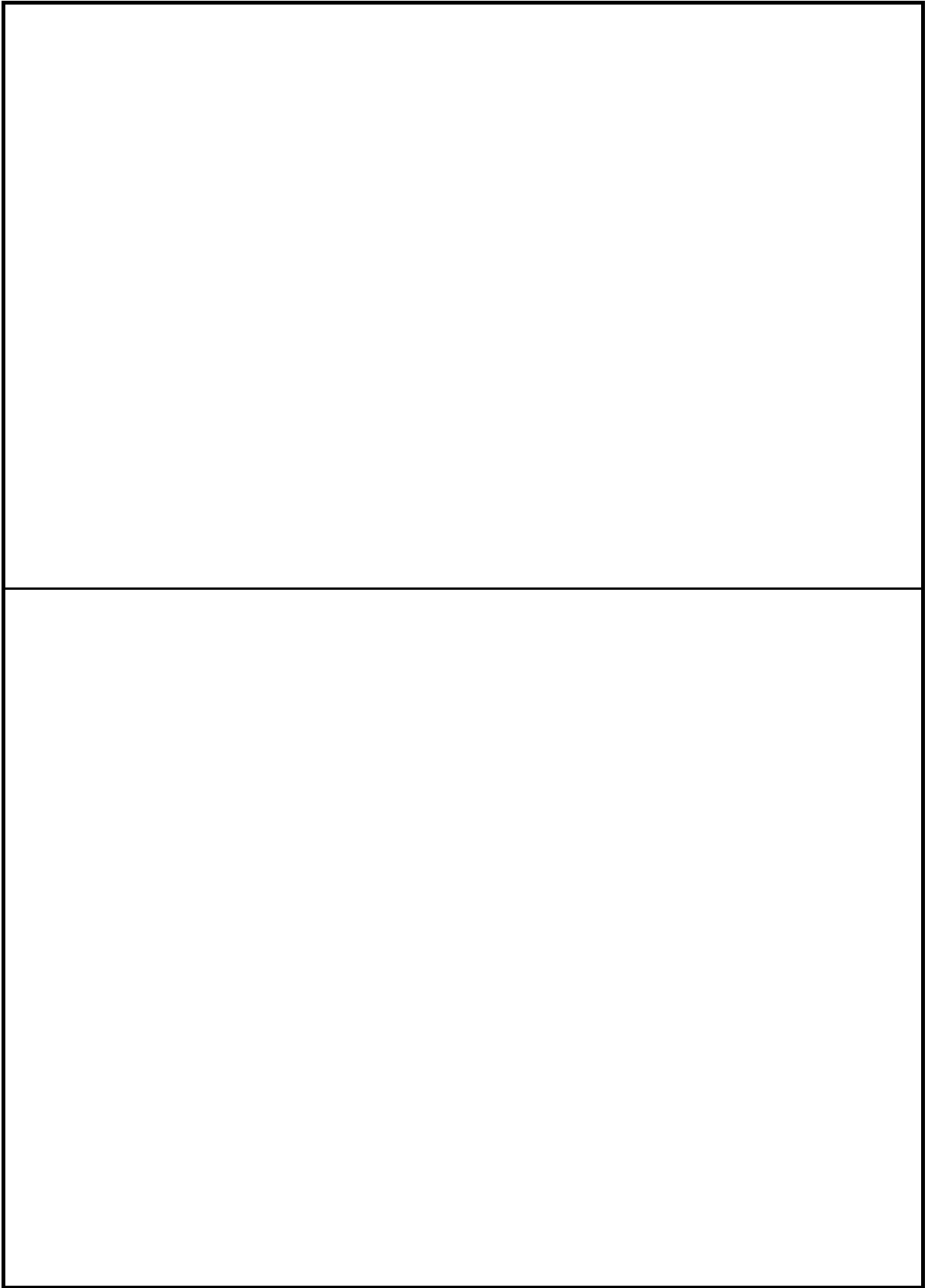
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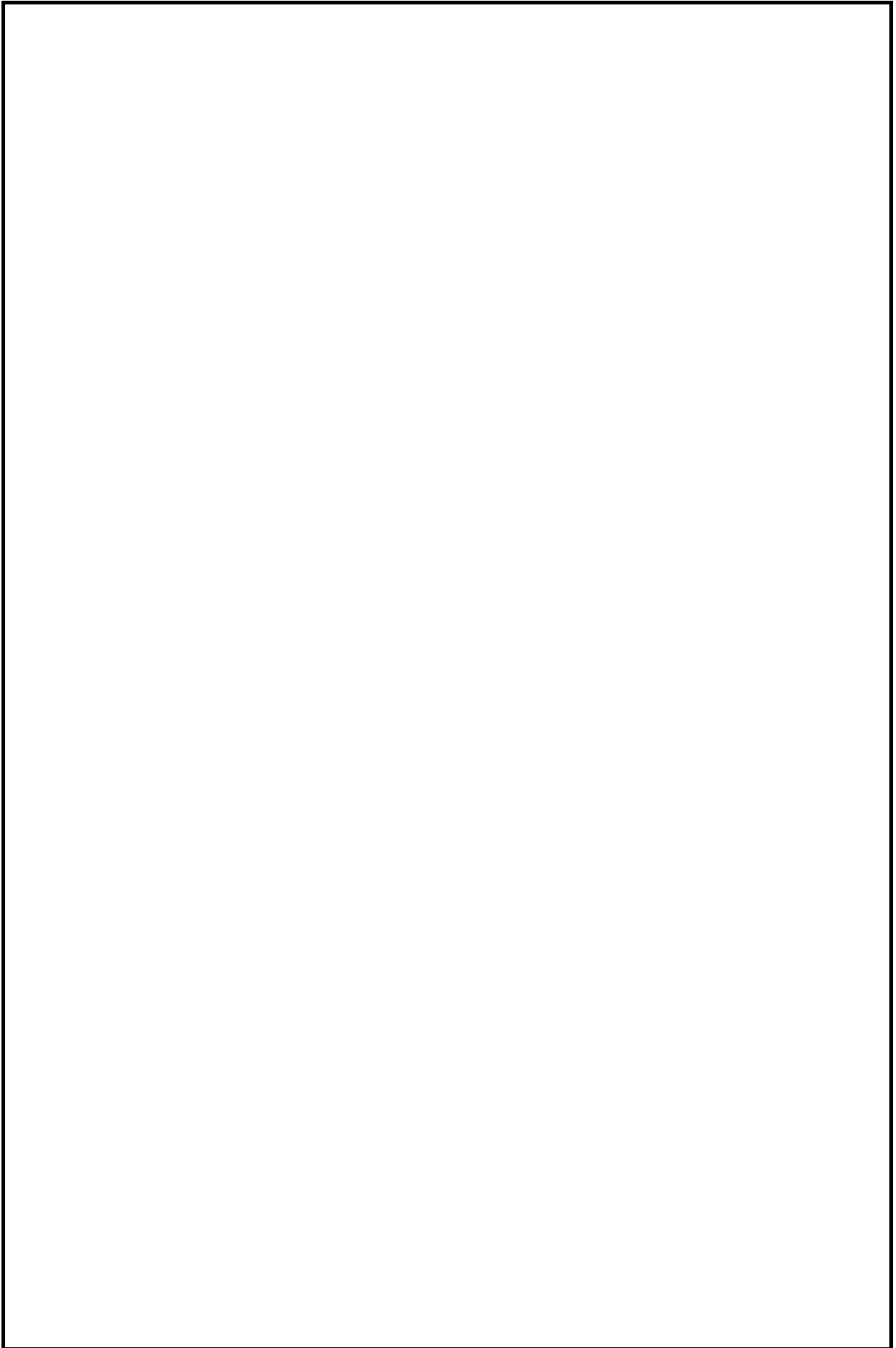
1

“ ”

2

3





1
2
10
1
2
3
4

1-2

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.