

---

---

1. —

30

2. —

3. —

4. —

5. —

6. —

7. —

8. —

|                                     |             |  |                |           |
|-------------------------------------|-------------|--|----------------|-----------|
|                                     |             |  |                |           |
|                                     |             |  |                |           |
|                                     |             |  |                |           |
|                                     | 205         |  |                |           |
|                                     | 13933581897 |  | —              | 223600    |
|                                     | 205         |  |                |           |
|                                     |             |  |                | [2018]169 |
|                                     |             |  |                | [C3415]   |
| m <sup>2</sup>                      | 39996       |  | m <sup>2</sup> | 2000      |
|                                     | 12000       |  | 90             | 0.75%     |
|                                     | —           |  | 2020 8         |           |
| “ ”                                 |             |  |                |           |
|                                     |             |  |                |           |
|                                     |             |  |                |           |
| /                                   | 5100        |  | /              | —         |
| /                                   | 70          |  | /              | —         |
| /                                   | —           |  | /              | —         |
| <input checked="" type="checkbox"/> |             |  |                |           |
| “ ”                                 |             |  |                |           |
| A                                   |             |  |                |           |
|                                     |             |  |                |           |

**1**

1-1

**1-1**

|   |  |  | t   | t  |         |    |  |
|---|--|--|-----|----|---------|----|--|
| 1 |  |  | 404 | 15 | -       | 3# |  |
| 2 |  |  | 100 | 10 | 1000kg/ |    |  |

**2**

**1-2**

| 1 |  | —           | 1 |
|---|--|-------------|---|
| 2 |  | —           | 1 |
| 3 |  | XLD-50A 30A | 2 |
| 4 |  | 3T          | 2 |

1

2018 6 11 12000

205

39996m<sup>2</sup>

23990m<sup>2</sup>

2020 8

400t

[2018]169

400

600

1000

50

300

1-4

**1-4**

|  |         |   |     |
|--|---------|---|-----|
|  |         |   |     |
|  | [C3415] |   | _69 |
|  |         | - |     |

2

[C3415]

[2018]169

(2019 )

(2012 )

2012

[2015]118

3

205

118° 51 46.75

34° 8 0.03

5

[2006]81

[C3415]

4 “ ”

1

2020

1

“

”

15

811

2

2500m

1-5

1-5

|   |  |  |       |   |  |
|---|--|--|-------|---|--|
|   |  |  |       |   |  |
| 1 |  |  | 2500m | — |  |

[2018]74

8

2

PM<sub>10</sub> PM<sub>2.5</sub>

GB3838-2002 IV

GB3096—2008 3

3

4

2015

[2015]19

[2015]19

2017 162

6

**1-6**

|   |         |         |
|---|---------|---------|
|   |         |         |
| 1 | ) (2019 | (2019 ) |
| 2 |         | [C3415] |

3 2012



2

70 kWh/a

3

2

9.86m

1

4

9

3#

5#

2#

4#

3#

2#

4#

5#

3

10

“ ”

[2017]30

“ ”

11

1

HJ2.2-2018

AERSCREEN

3#

0.00464mg/m<sup>3</sup>

1.03%

1%

10%

2

HJ2.3<02c8>Tj-36.2799 -1.3)NOQPM#tEgE.8%ã

4

HJ964-2018

—  
”

39996m<sup>2</sup> 5hm<sup>2</sup>

5

[C3415]

HJ610-2016

A

—  
“K

\_71

— ”

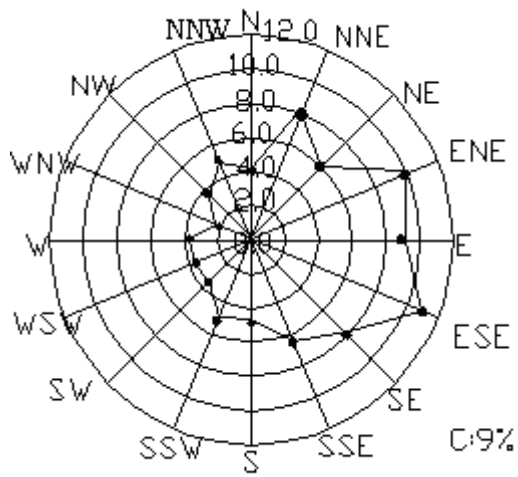
**1**

35

2298

204

| 2-1 |      |          |
|-----|------|----------|
|     |      | 13.8     |
|     |      | 38       |
|     |      | -18      |
|     | m/s  | 2.39     |
|     | mbar | 1015.9   |
|     |      | 75       |
|     |      | 76       |
|     |      | 1580.3   |
|     |      | 458.7    |
|     |      | 937      |
|     |      | 42       |
|     |      | 1        |
|     |      | 8        |
|     |      | SE10.71% |



2-1

4

29

60

59.14

1100

1400

70

6000

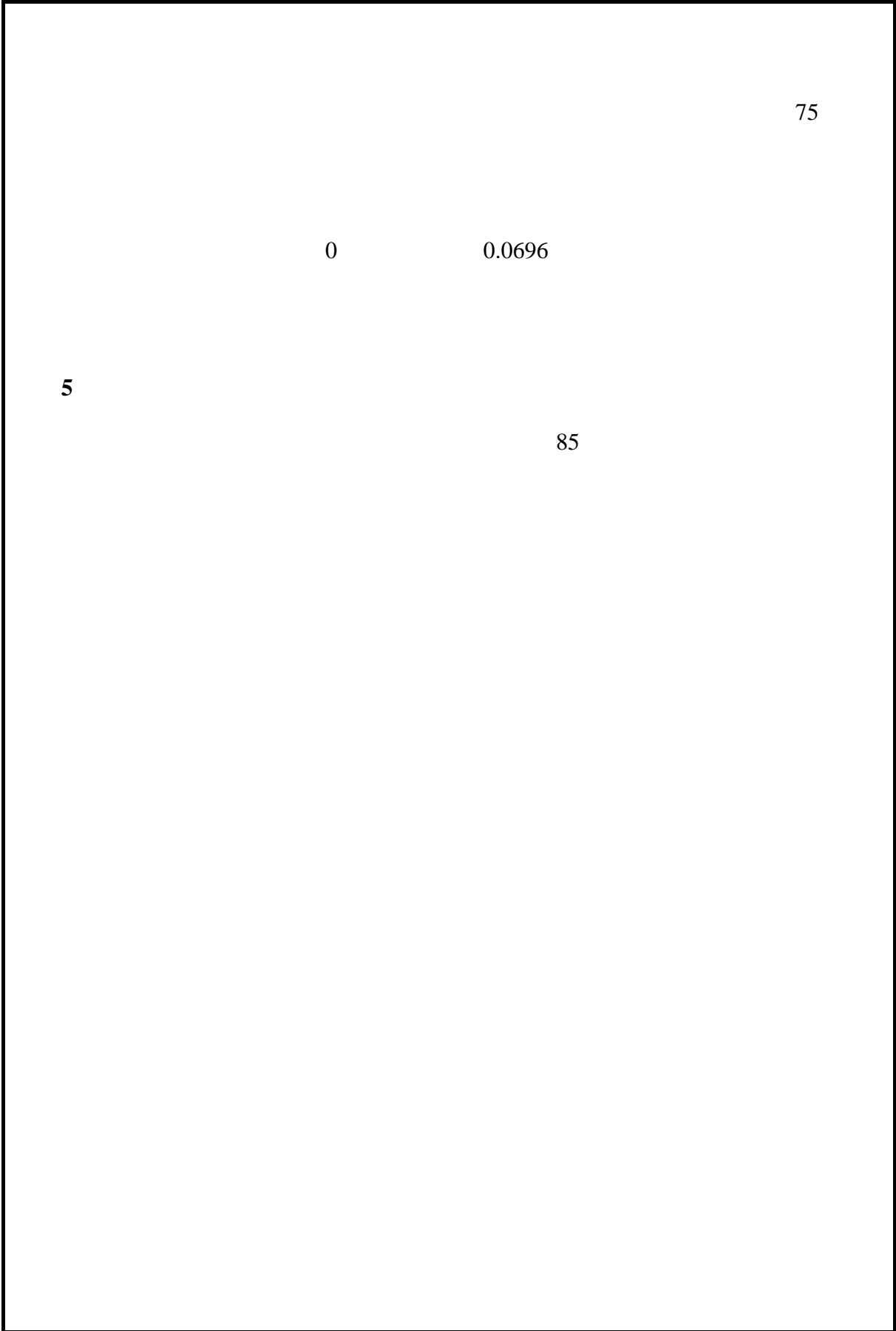
/

7000

/

10.76

4.25



|        |        |        |       |        |        |
|--------|--------|--------|-------|--------|--------|
| 2019   |        | 950.17 |       | 47.9   |        |
|        | 24633  |        |       | 248.61 |        |
| “      | ”      | 2019   |       |        |        |
|        | 2019   |        | 84    |        | 75     |
| 72     |        | 1.08   |       |        | 884.76 |
| 25.17  |        | 39.52  |       | 18.97% | 10.56% |
| 12.30% |        |        | 360   | 270    | 180    |
|        |        | 154    | 10    | 9      | 1      |
|        |        |        | “     | ”      | 2019   |
|        | 248.6  |        |       |        |        |
|        |        |        |       | 2      |        |
|        |        |        |       | 2.91   | 69%    |
|        |        | 45.5%  | 45.3% |        |        |
|        |        | “      | ”     |        |        |
|        | 1089.7 |        |       | 15     | “ ”    |
| 64     |        | 16     | “     | ”      | “ ”    |
|        | “      | ”      | “     | ”      | “ ”    |

“ + ” 3.4

3000

“ ” “ ” “ ”

300 1920

205

2001 6 2006 “ ”

“ ” 6

[2006]81

24.5km<sup>2</sup> 21.5km<sup>2</sup> 3.0km<sup>2</sup>

- -

205

2008 1 24.5km<sup>2</sup>

[2008]17

2013

1



205

[2006]81

2008 1

[2008]17

2

24.5km<sup>2</sup>

24.5km<sup>2</sup>

14.3km<sup>2</sup>

7.2km<sup>2</sup>

21.5km<sup>2</sup>

3.0km<sup>2</sup>

3.0km<sup>2</sup>

3

40 m<sup>3</sup>/d

4

A.

3 m<sup>3</sup>/d                      4.9 m<sup>3</sup>/d                      5.1 m<sup>3</sup>/d

“ + A<sup>2</sup>/O  
+ ” GB18918-

2002

1 A

B.

2006

3 m<sup>3</sup>/d  
GB18918-2002

1 A

16km<sup>2</sup>

4.5km<sup>2</sup>

“ ”

” ”

A.

134.86                      3.5                      3 75 /  
2 15MW                      1×15MW                      3.32×106GJ 2011



1

2019

2019

3-1

3-1

|                   |    |     |      | %      |  |
|-------------------|----|-----|------|--------|--|
| SO <sub>2</sub>   |    | 17  | 60   | 28.3   |  |
| NO <sub>2</sub>   |    | 33  | 40   | 82.5   |  |
| PM <sub>10</sub>  |    | 104 | 70   | 148.6  |  |
| PM <sub>2.5</sub> |    | 44  | 35   | 125.71 |  |
| O <sub>3</sub>    | 8  | 120 | 160  | 75     |  |
| CO                | 24 | 827 | 4000 | 20.7   |  |

2019

O<sub>3</sub>

8

CO 24

GB3095-2012

PM<sub>10</sub>

PM<sub>2.5</sub>

GB3095-2012

2

2019

2019

2002)

2019

(GB3838-2002)

**3**

2019

(GB3096-2008) 3

3-2 3-3

3-2

| X/m   |       | Y/m |  | m    |             |
|-------|-------|-----|--|------|-------------|
| 6712  | 37784 |     |  | 42   | 3#          |
| 85.22 | 66.43 |     |  | 140m | 1750 / 6125 |

(5km  
×  
5km)

GB3095-  
2012

1

GB3095-2012

4-1

4-1

| SO <sub>2</sub>  |    |  | 0.06 | mg/m <sup>3</sup> | GB3095-2012 |
|------------------|----|--|------|-------------------|-------------|
|                  | 24 |  | 0.15 |                   |             |
|                  | 1  |  | 0.50 |                   |             |
| NO <sub>2</sub>  |    |  | 0.04 |                   |             |
|                  | 24 |  | 0.08 |                   |             |
|                  | 1  |  | 0.20 |                   |             |
| TSP              |    |  | 0.2  |                   |             |
|                  | 24 |  | 0.3  |                   |             |
| PM <sub>10</sub> |    |  | 0.07 |                   |             |
|                  | 24 |  | 0.15 |                   |             |
| CO               | 24 |  | 4    |                   |             |
|                  | 1  |  | 10   |                   |             |
| O <sub>3</sub>   | 8  |  | 0.16 |                   |             |
|                  | 1  |  | 0.2  |                   |             |

2

2003 3

GB3838-2002 IV

SS

SL63-94

4-2

4-2

mg/L PH

| 1 | pH  | 6 9  | GB3838-2002 | 1 |
|---|-----|------|-------------|---|
| 2 | COD | ≤30  |             |   |
| 3 |     | ≤1.5 |             |   |
| 4 |     | ≤1.5 |             |   |
| 5 |     | ≤0.3 |             |   |
| 6 | SS  | ≤60  | SL63-94     |   |

3

GB3096-2008

3

GB3096-2008

2

4-3

| <b>4-3</b> |           | <b>dB(A)</b> |
|------------|-----------|--------------|
| 3          | $\leq 65$ | $\leq 55$    |
| 2          | $\leq 60$ | $\leq 50$    |



|  |                   |      |     |  |                   |              |
|--|-------------------|------|-----|--|-------------------|--------------|
| 1<br>(GB16297-1996)                                    |                   |      |     |  |                   |              |
| 4-4  |                   |      |     |  |                   |              |
| 4-4  |                   |      |     |  |                   |              |
|  |                   | kg/h |     |  |                   |              |
|  | mg/m <sup>3</sup> | m    |     |  | mg/m <sup>3</sup> |              |
|  | 120               | 15   | 3.5 |  | 1.0               | GB16297-1996 |
| 2  |                   |      |     |  |                   |              |
| GB8978-1996  |                   |      |     |  |                   |              |
| GB18918-2002      1      A      4-5                    |                   |      |     |  |                   |              |
| 4-5      (pH      mg/L)                                |                   |      |     |  |                   |              |
|  |                   | mg/L |     |  | mg/L              |              |
| pH   |                   | 6 9  |     |  | 6 9               |              |
| COD  |                   | ≤500 |     |  | ≤50               |              |
| SS   |                   | ≤400 |     |  | ≤10               |              |
|  |                   | ≤35* |     |  | ≤5(8)             |              |
|  |                   | ≤45* |     |  | ≤15               |              |
|  |                   | ≤8*  |     |  | ≤0.5              | P            |
| * GB/T31962-2015      1      B      ;                  |                   |      |     |  |                   |              |
| 12      ≤12  |                   |      |     |  |                   |              |
| 3  |                   |      |     |  |                   |              |
| GB12348 2008      3                                    |                   |      |     |  |                   |              |
| 4-6  |                   |      |     |  |                   |              |
| 4-6      dB A  |                   |      |     |  |                   |              |
|  |                   |      |     |  |                   |              |
|  | 3                 |      | 65  |  |                   | 55           |
| 4  |                   |      |     |  |                   |              |
| GB18599-2001      2013      (      2013      36      ) |                   |      |     |  |                   |              |
| GB18597-2001      2013      (      2013                |                   |      |     |  |                   |              |
| 36      )  |                   |      |     |  |                   |              |

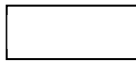
| 4-7 |                       | t/a        |           |                           |                            |
|-----|-----------------------|------------|-----------|---------------------------|----------------------------|
|     |                       |            |           |                           |                            |
|     |                       | 2.441      | 2.417     | 0                         | 0.024                      |
|     |                       | 0.009      | 0         | 0                         | 0.009                      |
|     | m <sup>3</sup> /a     | 3600       | 0         | 3600                      | 3600                       |
|     | COD                   | 1.08       | 0.54      | 0.54                      | 0.18                       |
|     | SS                    | 0.72       | 0.36      | 0.36                      | 0.036                      |
|     |                       | 0.09       | 0         | 0.09                      | 0.018                      |
|     |                       | 0.144      | 0         | 0.144                     | 0.054                      |
|     |                       | 0.01       | 0         | 0.01                      | 0.0018                     |
|     |                       | 54         | 54        | 0                         | 0                          |
|     |                       | 3.917      | 3.917     | 0                         | 0                          |
|     |                       | 0.5        | 0.5       | 0                         | 0                          |
| 1   | 3600m <sup>3</sup> /a | COD0.54t/a | SS0.36t/a | NH <sub>3</sub> -N0.09t/a | 0.144t/a                   |
|     |                       |            |           |                           | 0.01t/a                    |
|     |                       |            |           |                           | 3600m <sup>3</sup> /a      |
|     |                       |            |           |                           | COD0.18t/a                 |
|     |                       |            |           |                           | SS0.036t/a                 |
|     |                       |            |           |                           | NH <sub>3</sub> -N0.018t/a |
|     |                       |            |           |                           | 0.054t/a                   |
|     |                       |            |           |                           | 0.0018t/a                  |
| 2   |                       |            |           |                           | 0.024t/a                   |
| 3   |                       |            |           |                           |                            |



4

5-2

/



**5-2**

1

2

/

110~150

10min

3

4

N

G1

S

5

/

/

G2

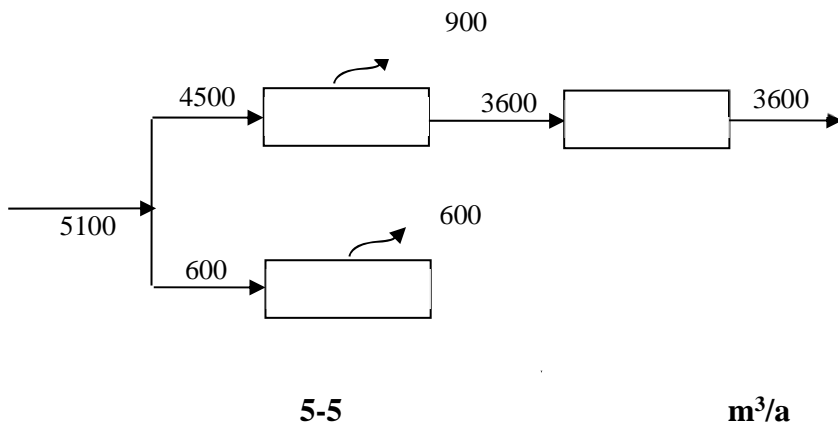
N

5-1

**5-1**

|  |    |   |  |
|--|----|---|--|
|  |    |   |  |
|  | G1 |   |  |
|  | G2 | / |  |
|  | N  |   |  |
|  | S  |   |  |
|  | —  |   |  |
|  | —  |   |  |
|  | —  |   |  |
|  | —  |   |  |
|  | —  |   |  |

|                      |            |                           |           |          |  |                       |                      |
|----------------------|------------|---------------------------|-----------|----------|--|-----------------------|----------------------|
| 1                    |            |                           |           |          |  |                       |                      |
| 2                    |            |                           |           |          |  | SS                    |                      |
| 3                    |            |                           |           | COD      |  | SS                    |                      |
| 4                    |            |                           |           |          |  |                       |                      |
| 1                    |            |                           |           |          |  |                       |                      |
| 1                    |            |                           |           |          |  |                       |                      |
| 2009                 | 300        | 300                       |           | 50L/     |  |                       | GB50015-             |
| 4500m <sup>3</sup>   |            |                           |           |          |  | 3600m <sup>3</sup> /a |                      |
|                      | 0.8        |                           |           |          |  |                       | COD                  |
| 300mg/L              | SS 200mg/L | NH <sub>3</sub> -N 25mg/L | TN 40mg/L | TP 4mg/L |  |                       |                      |
| 2                    |            |                           |           |          |  |                       |                      |
|                      |            |                           |           | 2012     |  |                       | 1L/m <sup>2</sup> ·d |
| 600m <sup>3</sup> /a |            | 2000m <sup>2</sup>        |           | 300      |  |                       |                      |
|                      |            |                           |           |          |  |                       |                      |
|                      |            | 5-5                       |           |          |  |                       |                      |



**5-2**

|  | m <sup>3</sup> /a |     |        |       |        |       | (mg/l) |  |
|--|-------------------|-----|--------|-------|--------|-------|--------|--|
|  |                   |     | (mg/l) | (t/a) | (mg/l) | (t/a) |        |  |
|  | 3600              | COD | 300    | 1.08  | 150    | 0.54  | 500    |  |
|  |                   | SS  | 200    | 0.72  | 100    | 0.36  | 400    |  |
|  |                   |     | 25     | 0.09  | 25     | 0.09  | 35     |  |
|  |                   |     | 40     | 0.144 | 40     | 0.144 | 45     |  |
|  |                   |     | 4      | 0.01  | 4      | 0.01  | 8      |  |

2

1

3#

1500h

1‰

400t/a

0.4t/a

15m

FQ01

6000m<sup>3</sup>/h

99%

99%

3#

0.396t/a 0.264kg/h 44mg/m<sup>3</sup>

0.004t/a 0.0037kg/h

2

1%

200t/a

1500h/a

3#

2t/a

15m FQ01 6000m<sup>3</sup>/h  
 99% 3# 2t/a 1.333kg/h  
 222.222mg/m<sup>3</sup>  
 3  
 1‰ 50t/a  
 0.05t/a 1200h/a  
 15m FQ01 6000m<sup>3</sup>/h  
 90% 99% 3#  
 0.045t/a 0.038kg/h 6.25mg/m<sup>3</sup> 3#  
 0.005t/a 0.004kg/h  
 5-3 5-4

**5-3**

|  | m <sup>3</sup> /h | mg/m <sup>3</sup> | kg/h  | t/a   | %  | mg/m <sup>3</sup> | kg/h | t/a | FQ01 | m | m | m |
|--|-------------------|-------------------|-------|-------|----|-------------------|------|-----|------|---|---|---|
|  |                   |                   |       |       |    |                   |      |     |      |   |   |   |
|  |                   | 222.222           | 1.333 | 2     | 99 |                   |      |     |      |   |   |   |
|  |                   | 6.25              | 0.038 | 0.045 | 99 |                   |      |     |      |   |   |   |

**5-4**

|  | (kg/h) | (t/a) | — | (kg/h) | (t/a) | 4800 | (m <sup>2</sup> ) | (m) |
|--|--------|-------|---|--------|-------|------|-------------------|-----|
|  |        |       |   |        |       |      |                   |     |
|  | 0.004  | 0.005 | — |        |       |      |                   |     |

1500h 1200h

**3**

75~90 dB(A)

**5-5**

**dB(A)**

| 1 |  | 75~85 | 1 | 30m | + | 25dB |
|---|--|-------|---|-----|---|------|
| 2 |  | 75~90 | 1 | 30m | + | A    |



4

1

S

30%

1.5t/a

0.5t/a

2.417t/a

300

300

0.5kg/

.d

45t/a

90%

0.10kg/ · (

20%)

9t/a

2

GB34330-2017

5-6

5-6

| 5-6 |  |  |  |  |       |   |  |              |
|-----|--|--|--|--|-------|---|--|--------------|
|     |  |  |  |  | t/a   |   |  |              |
| 1   |  |  |  |  | 1.5   | √ |  | GB34330-2017 |
| 2   |  |  |  |  | 2.417 | √ |  |              |
| 3   |  |  |  |  | 0.5   | √ |  |              |
| 4   |  |  |  |  | 45    | √ |  |              |
| 5   |  |  |  |  | 9     | √ |  |              |

3

5-7



|    |     |              | mg/m <sup>3</sup>   | t/a    | mg/m <sup>3</sup> | (kg/h)  | (t/a) |      |
|----|-----|--------------|---------------------|--------|-------------------|---------|-------|------|
|    |     |              | 44                  | 0.396  | 2.725             | 0.016   | 0.024 | FQ01 |
|    |     | 222.222      | 2                   |        |                   |         |       |      |
|    |     | 6.25         | 0.038               |        |                   |         |       |      |
| 3# |     | —            | 0.009               | —      | 0.007             | 0.009   |       |      |
|    |     |              | (m <sup>3</sup> /a) | (mg/l) | (t/a)             | (mg/l)  | (t/a) |      |
|    | COD | 3600         | 300                 | 1.08   | 150               | 0.54    |       |      |
|    | SS  |              | 200                 | 0.72   | 100               | 0.36    |       |      |
|    |     |              | 25                  | 0.09   | 25                | 0.09    |       |      |
|    |     |              | 40                  | 0.144  | 40                | 0.144   |       |      |
|    |     |              | 4                   | 0.01   | 4                 | 0.01    |       |      |
|    |     |              | (t/a)               | (t/a)  | (t/a)             | (t/a)   |       |      |
|    |     | 45           | 45                  | 0      | 0                 |         |       |      |
|    |     | 9            | 9                   | 0      | 0                 |         |       |      |
|    |     | 1.5          | 0                   | 1.5    | 0                 |         |       |      |
|    |     | 2.417        | 0                   | 2.417  | 0                 |         |       |      |
|    |     | 0.5          | 0.5                 | 0      | 0                 |         |       |      |
|    |     |              |                     |        |                   | 75-90dB |       |      |
|    |     | GB12348-2008 |                     | 3      |                   |         |       |      |

1

100m

4 5

70%

7-1

4 5

TSP

20 50m

7-1

mg/m<sup>3</sup>

|     |  | 5m    | 20m  | 50m  | 100m |
|-----|--|-------|------|------|------|
| TSP |  | 10.14 | 2.89 | 1.35 | 0.86 |
|     |  | 2.01  | 1.40 | 0.67 | 0.60 |

**2**

1

2

3

4

5

**3**

“ ”

4

GB12523-2011

7-2

7-2

m

|   |  | dB   |      |      |      |      |      |
|---|--|------|------|------|------|------|------|
|   |  | 55dB | 60dB | 65dB | 70dB | 75dB | 85dB |
| 1 |  | 190  | 120  | 75   | 40   | 22   | --   |
| 2 |  | 190  | 120  | 75   | 42   | 25   | --   |
| 3 |  | 200  | 110  | 66   | 37   | 21   | --   |
| 4 |  | 80   | 44   | 25   | 14   | 10   | --   |

100

300-400

1

GB12523-2011

2

pH 9

3

4

5

1

1

HJ

2.3-2018

7-3

7-3

|   |  |         |                            |
|---|--|---------|----------------------------|
|   |  |         |                            |
|   |  |         | Q/ m <sup>3</sup> /d<br>W/ |
|   |  | Q≥20000 | W≥600000                   |
|   |  |         |                            |
| A |  | Q 200   | W 6000                     |
| B |  |         |                            |

B

2

3600m<sup>3</sup>/a

GB8978-1996 4

B/C

COD

SS

50%

20m<sup>3</sup>/d

≤10<sup>-7</sup>cm/s

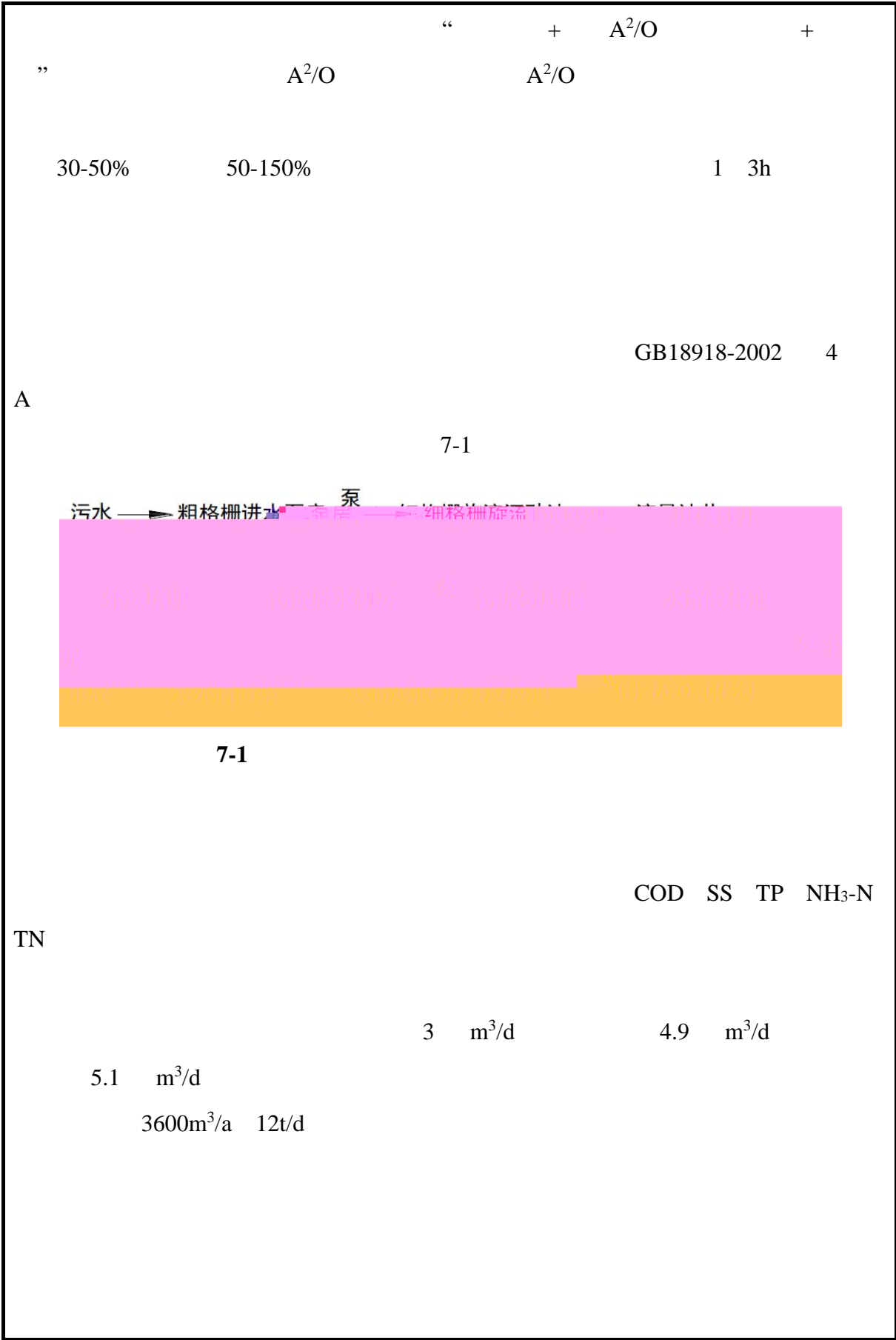
COD 150mg/L SS

100mg/L NH<sub>3</sub>-N 25mg/L

40mg/L

4mg/L

3





4

**7-4**

|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|

1

COD  
SS

01

**7-6**

|   |       |        |         |
|---|-------|--------|---------|
|   |       |        |         |
|   |       |        | /(mg/L) |
| 1 | WS-01 | COD SS | COD     |
|   |       |        | SS      |
|   |       |        |         |
|   |       |        |         |
|   |       |        |         |
|   |       |        | 500     |
|   |       |        | 400     |
|   |       |        | 35      |
|   |       |        | 45      |
|   |       |        | 8       |

**7-7**

|   |       |     |        |         |       |
|---|-------|-----|--------|---------|-------|
|   |       |     | / mg/L | / t/d   | / t/a |
| 1 | WS-01 | COD | 150    | 0.0018  | 0.54  |
|   |       | SS  | 100    | 0.0012  | 0.36  |
|   |       |     | 25     | 0.0003  | 0.09  |
|   |       |     | 40     | 0.0005  | 0.144 |
|   |       |     | 4      | 0.00003 | 0.01  |
|   |       | COD |        |         | 0.54  |
|   |       | SS  |        |         | 0.36  |
|   |       |     |        |         | 0.09  |
|   |       |     |        |         | 0.144 |
|   |       |     |        |         | 0.01  |

**7-9**

|  |                                     |
|--|-------------------------------------|
|  |                                     |
|  | <input checked="" type="checkbox"/> |
|  |                                     |
|  | <input checked="" type="checkbox"/> |





20-50 $\mu$ m

5-10 $\mu$ m

5 $\mu$ m

( ) ( )

99

FQ01

0.016kg/h

2.725mg/m<sup>3</sup>

GB16297-1996 2

2

HJ2.2-2018

AERSCREEN

7-10

7-11

**7-10**

|      | <b>m</b> | <b>m</b> | <b>m/s</b> | <b>K</b> | <b>h</b> |  | <b>kg/h</b> |
|------|----------|----------|------------|----------|----------|--|-------------|
| FQ01 | 15       | 0.4      | 13.26      | 298      | 1500     |  | 0.016       |

**7-11**

|    |           |            | m | m | m  | m  | h    |  |  | <b>Kg/h</b> |
|----|-----------|------------|---|---|----|----|------|--|--|-------------|
|    | <b>X</b>  | <b>Y</b>   |   |   |    |    |      |  |  |             |
|    | m         | m          |   |   |    |    |      |  |  |             |
| 3# | 671386.52 | 3778701.40 | 5 | 8 | 80 | 60 | 2000 |  |  | 0.007       |

AERSCREEN

7-12

**7-12**

|   |  |     |  |  |  |  |  |  |  |  |
|---|--|-----|--|--|--|--|--|--|--|--|
|   |  |     |  |  |  |  |  |  |  |  |
| / |  | /   |  |  |  |  |  |  |  | U  |
|   |  |     |  |  |  |  |  |  |  | 65   |
|   |  | /   |  |  |  |  |  |  |  | 38   |
|   |  | /   |  |  |  |  |  |  |  | -18  |
|   |  |     |  |  |  |  |  |  |  |  |
|   |  |     |  |  |  |  |  |  |  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
|   |  | /m  |  |  |  |  |  |  |  | /  |
|   |  |     |  |  |  |  |  |  |  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
|   |  | /km |  |  |  |  |  |  |  | /  |
|   |  | /°  |  |  |  |  |  |  |  | /  |

7-13

**7-13**

| <b>7-13</b> |                          |           |                          |           |
|-------------|--------------------------|-----------|--------------------------|-----------|
|             | <b>FQ01</b>              |           | <b>3#</b>                |           |
| <b>/m</b>   | <b>/mg/m<sup>3</sup></b> | <b>/%</b> | <b>/mg/m<sup>3</sup></b> | <b>/%</b> |
| 25          | 9.67E-04                 | 0.21      | 4.04E-03                 | 0.90      |
| 50          | 8.55E-04                 | 0.19      | 4.58E-03                 | 1.02      |
| 75          | 7.98E-04                 | 0.18      | 3.00E-03                 | 0.67      |
| 100         | 8.99E-04                 | 0.2       | 2.06E-03                 | 0.46      |
| 200         | 5.41E-04                 | 0.12      | 8.08E-04                 | 0.18      |
| 300         | 3.66E-04                 | 0.08      | 4.65E-04                 | 0.1       |
| 400         | 2.67E-04                 | 0.06      | 3.14E-04                 | 0.07      |
| 500         | 2.05E-04                 | 0.05      | 2.31E-04                 | 0.05      |
| 600         | 1.63E-04                 | 0.04      | 1.80E-04                 | 0.04      |
| 700         | 1.34E-04                 | 0.03      | 1.46E-04                 | 0.03      |
| 800         | 1.15E-04                 | 0.03      | 1.22E-04                 | 0.03      |
| 900         | 1.02E-04                 | 0.02      | 1.04E-04                 | 0.02      |
| 1000        | 9.14E-05                 | 0.02      | 8.97E-05                 | 0.02      |
| 1100        | 8.24E-05                 | 0.02      | 7.90E-05                 | 0.02      |
| 1200        | 7.48E-05                 | 0.02      | 7.01E-05                 | 0.02      |
| 1300        | 6.83E-05                 | 0.02      | 6.28E-05                 | 0.01      |
| 1400        | 6.26E-05                 | 0.01      | 5.68E-05                 | 0.01      |
| 1500        | 5.77E-05                 | 0.01      | 5.17E-05                 | 0.01      |
| 1600        | 5.34E-05                 | 0.01      | 4.73E-05                 | 0.01      |
| 1700        | 4.96E-05                 | 0.01      | 4.36E-05                 | 0.01      |
| 1800        | 4.63E-05                 | 0.01      | 4.04E-05                 | 0.01      |
| 1900        | 4.33E-05                 | 0.01      | 3.76E-05                 | 0.01      |
| 2000        | 4.06E-05                 | 0.01      | 3.51E-05                 | 0.01      |
| 2100        | 3.82E-05                 | 0.01      | 3.29E-05                 | 0.01      |
| 2200        | 3.60E-05                 | 0.01      | 3.10E-05                 | 0.01      |
| 2300        | 3.40E-05                 | 0.01      | 2.93E-05                 | 0.01      |
| 2400        | 3.22E-05                 | 0.01      | 2.78E-05                 | 0.01      |
| 2500        | 3.06E-05                 | 0.01      | 2.63E-05                 | 0.01      |
| Pmax<br>%   | 1.03E-03                 | 0.23      | 4.64E-03                 | 1.03      |
| m           | 20                       |           | 47                       |           |

Pmax 3#

0.00464mg/m<sup>3</sup> Pmax 1.03% 1% 10% 47m

HJ2.2-2018

AERSCREEN Pi i i

10% D10% Pi

$$P_i = \frac{C_i}{C_{0i}} \times 100\%$$

Pi— i %

Ci— i mg/m<sup>3</sup>

C0i— i mg/m<sup>3</sup>

**7-14**

|  |                             |
|--|-----------------------------|
|  | P <sub>max</sub> ≥ 10%      |
|  | 1% ≤ P <sub>max</sub> < 10% |
|  | P <sub>max</sub> < 1%       |

**7-15**

|  |      |  | mg/m <sup>3</sup> | P <sub>max</sub><br>% | m  |
|--|------|--|-------------------|-----------------------|----|
|  | FQ01 |  | 1.03E-03          | 0.23                  | 20 |
|  | 3#   |  | 4.64E-03          | 1.03                  | 47 |

1.03% 1% 10% HJ2.2-2018

4



| 7-16 |      |   |                        |        |       |
|------|------|---|------------------------|--------|-------|
|      |      |   | /<br>mg/m <sup>3</sup> | / kg/h | / t/a |
| /    | /    | / | /                      | /      | /     |
|      |      | / | /                      | /      | /     |
| 1    | FQ01 |   | 2.725                  | 0.016  | 0.024 |
|      |      |   |                        |        | 0.024 |
|      |      |   |                        |        | 0.024 |

| 7-17 |    |  |   |  |              |                        |          |
|------|----|--|---|--|--------------|------------------------|----------|
|      |    |  |   |  |              | /<br>mg/m <sup>3</sup> | /<br>t/a |
| 1    | 3# |  | / |  | GB16297-1996 | 1.0                    | 0.009    |
|      |    |  |   |  |              |                        | 0.009    |

| 7-18 |  |       |
|------|--|-------|
|      |  | / t/a |
| 1    |  | 0.033 |

5

7-19

**7-19**

|  |                                  |  |                                     |  |
|--|----------------------------------|--|-------------------------------------|--|
|  |                                  | <input type="checkbox"/>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                   |
|  |                                  | =50km <sup>□</sup>   | =5~50km <sup>□</sup>                | =5km <sup>☑</sup>                          |
|  | SO <sub>2</sub> +NO <sub>x</sub> | ≥2000t/a <sup>□</sup>  | 500~2000t/a <sup>□</sup>            | <500t/a <sup>☑</sup>                       |
|  |                                  | SO <sub>2</sub> NO <sub>2</sub> PM <sub>10</sub> PM <sub>2.5</sub> CO O <sub>3</sub> | /                                   | PM2.5 <sup>□</sup><br>PM2.5 <sup>☑</sup>   |
|  |                                  | <input checked="" type="checkbox"/>  | <input type="checkbox"/>            | D <sup>□</sup><br><input type="checkbox"/> |
|  |                                  | <input type="checkbox"/>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                   |

|  |    |  |  |                                     |  |                                      |  |
|--|----|--|--|-------------------------------------|--|--------------------------------------|--|
|  |    | 2019   |  |                                     |  |                                      |  |
|  |    | <input type="checkbox"/>                                     |  |                                     | <input checked="" type="checkbox"/>          |                                      | <input type="checkbox"/>               |
|  |    | <input type="checkbox"/>                                     |  |                                     | <input checked="" type="checkbox"/>          |                                      |  |
|  |    | <input checked="" type="checkbox"/>                          | <input type="checkbox"/>               | <input checked="" type="checkbox"/> | <input type="checkbox"/>                     | <input type="checkbox"/>             | <input type="checkbox"/>               |
|  |    | AERMOD <input type="checkbox"/>                              | ADMS <input type="checkbox"/>          | AUSTAL2000 <input type="checkbox"/> | EDMS/AEDT <input type="checkbox"/>           | CALPUFF <input type="checkbox"/>     | <input type="checkbox"/>               |
|  |    | $\geq 50\text{km}$ <input type="checkbox"/>                  |  |                                     | $5\sim 50\text{km}$ <input type="checkbox"/> |                                      | $=5\text{km}$ <input type="checkbox"/> |
|  |    |  |  |                                     |  | PM2.5 <input type="checkbox"/>       | PM2.5 <input type="checkbox"/>         |
|  |    | C $\leq 100\%$ <input type="checkbox"/>                      |  |                                     | C $>100\%$ <input type="checkbox"/>          |                                      |  |
|  |    |  | C $\leq 10\%$ <input type="checkbox"/> | C $>10\%$ <input type="checkbox"/>  |  |                                      |  |
|  |    |  | C $\leq 30\%$ <input type="checkbox"/> | C $>30\%$ <input type="checkbox"/>  |  |                                      |  |
|  | 1h | h C $\leq 100\%$ <input type="checkbox"/>                    |  |                                     | C $>100\%$ <input type="checkbox"/>          |                                      |  |
|  |    | C <input type="checkbox"/>                                   |  |                                     |  | C <input type="checkbox"/>           |  |
|  |    | $k \leq -20\%$ <input type="checkbox"/>                      |  |                                     |  | $k > -20\%$ <input type="checkbox"/> |  |
|  |    |  |  |                                     | <input checked="" type="checkbox"/>          |                                      | <input type="checkbox"/>               |
|  |    |  |  |                                     | <input checked="" type="checkbox"/>          |                                      | <input checked="" type="checkbox"/>    |
|  |    | <input checked="" type="checkbox"/> <input type="checkbox"/> |  |                                     |  |                                      |  |
|  |    | ) m  |  |                                     |  |                                      |  |
|  |    | SO <sub>2</sub> :<br>( )t/a                                  | NO <sub>x</sub> :<br>( )t/a            | :                                   | (0.033)t/a                                   | VOCs:<br>( )t/a                      |  |
| “ <input type="checkbox"/> ” “ <input checked="" type="checkbox"/> ” “ ” |    |  |  |                                     |  |                                      |  |
| 6  |    |  |  |                                     |  |                                      |  |
| 7  |    |  |  |                                     |  |                                      |  |
| GB/T3840-1991  |    |  |  |                                     |  |                                      |  |

$C_m$   
 L  $m$   
 R  $m$  S  
 $m^2$   $r = S/\pi$   $1/2$   
 A B C D

3

75

90dB A

3

- HJ2.4-2009

$$L_{p(r)} = L_{p(r_0)} + 20 \lg \left( \frac{r}{r_0} \right)$$

$L_{p(r)}$        $r$       A      dB A  
 $L_{p(r_0)}$  —       $r_0$       A      dB A  
 $r$       m  
 $r_0$       m  
 $L_w$       A       $L_{AW}$

$$L_{p(r)} = L_w + 20 \lg(r) - 8$$

$$L_{Tp} = 10 \lg \left[ \sum_{i=1}^n 10^{0.1 L_{p_i}} \right]$$

7-22

7-22

**dB(A)**

|  | 32.0 | 65 |  |
|--|------|----|--|
|  | 50.6 | 65 |  |
|  | 28.6 | 65 |  |
|  | 46.3 | 65 |  |

GB12348-2008 3

4

7-23

7-23

|   |  |  |      |            | (t/a) |  |
|---|--|--|------|------------|-------|--|
|   |  |  |      |            |       |  |
| 1 |  |  | 61   | /          | 1.5   |  |
| 2 |  |  | 84   | /          | 2.417 |  |
| 3 |  |  | HW08 | 900-214-08 | 0.5   |  |
| 4 |  |  | 99   | /          | 45    |  |
| 5 |  |  | 99   | /          | 9     |  |

5m<sup>2</sup>

GB18597-2001

0.5t/a

250kg 1

0.5m<sup>2</sup>

0.5m<sup>2</sup>

5m<sup>2</sup>

HW08

2

JS1301OOI278-7

1

JS13000OI553

7-24

7-24

|  |  |      |            |    |                 |  |       |  |
|--|--|------|------------|----|-----------------|--|-------|--|
|  |  |      |            |    |                 |  |       |  |
|  |  | HW08 | 900-214-08 | 3# | 5m <sup>2</sup> |  | 0.25t |  |

“ ”  
 “ ”

5

-

HJ964-2018

A

-

-

“

”

39996m<sup>2</sup>

5hm<sup>2</sup>

7-25

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

205



2

HJ 819-2017

1

“ ”

3

7-27

7-27

|  |  |        |  |                        |
|--|--|--------|--|------------------------|
|  |  |        |  |                        |
|  |  | COD SS |  | GB8978-1996            |
|  |  |        |  | GB/T31962-<br>2015 1 B |



|  |      |        |  |                   |
|--|------|--------|--|-------------------|
|  |      | COD SS |  | —                 |
|  | FQ01 |        |  | GB16297-1996      |
|  |      |        |  |                   |
|  | 1    |        |  | GB12348 2008<br>3 |

8

7-28

7-28 “ ”

|  |                                       |  |              |    |   |
|--|---------------------------------------|--|--------------|----|---|
|  |                                       |  |              |    |   |
|  |                                       | 1<br>99%<br>6000m <sup>3</sup> /h  | GB16297-1996 | 10 |   |
|  | COD SS<br>NH <sub>3</sub> -N<br>TN TP |  | GB8978-1996  | 20 |   |
|  |                                       |  |              | 10 |   |
|  |                                       | 50m <sup>2</sup>   | 100%         | 10 |   |
|  |                                       | 5m <sup>2</sup>  |              |    |   |
|  |                                       | 2000m <sup>2</sup>   | —            | 20 |   |
|  |                                       |  | 1            | 10 |   |
|  |                                       |  |              | 10 |   |
|  |                                       | 3# 50m   |              | —  |   |
|  |                                       | 3600m <sup>3</sup> /a<br>COD0.54t/a SS0.36t/a NH <sub>3</sub> -N0.09t/a 0.144t/a<br>0.01t/a 3600t/a<br>COD0.18t/a SS0.036t/a NH <sub>3</sub> -N0.018t/a<br>0.018t/a 0.054t/a 0.0018t/a<br>0.024t/a |              | —  |   |
|  |                                       |  |              | 90 | — |

9

90

0.75%

7-

29

|  |   |                  |    |
|--|---|------------------|----|
|  |   |                  |    |
|  |   | 1                | 10 |
|  |   | 5m <sup>3</sup>  | 20 |
|  |   |                  | 10 |
|  |   | 50m <sup>2</sup> | 10 |
|  | 1 | 5m <sup>2</sup>  | 20 |
|  |   | 3                |    |

|  |           |              |                              |                     |
|--|-----------|--------------|------------------------------|---------------------|
|  |           |              |                              |                     |
|  |           |              | 1                            | (GB16297-1996)      |
|  |           |              | 99%<br>6000m <sup>3</sup> /h |                     |
|  |           | COD SS<br>TP |                              | GB8978-1996         |
|  | —         | —            | —                            | —                   |
|  |           |              |                              |                     |
|  |           |              |                              |                     |
|  |           |              |                              |                     |
|  | 75 90dB A |              |                              | GB12348-2008<br>1 3 |
|  |           |              | —                            |                     |
|  |           |              |                              |                     |

1

2018 6 11

12000

205

39996m<sup>2</sup>

23990m<sup>2</sup>

2020 8

400t

[2018]169

400

600

1000

50

300

2

[C3415]

[2018]169

(2019 )

(2012 )

2012

[2015]118

3

205

[2006]81

[C3415]

4

PM<sub>10</sub> PM<sub>2.5</sub>

GB3838-2002

IV

5

1

15m

FQ01

(GB16297-1996)

3#

50m

2

3600m<sup>3</sup>/a

GB18918-2002

A

3

4

75

90dB A

GB12348-2008

1 3

6

2020 6 1

<http://www.jssthj.com/news/1036.html>

10

7

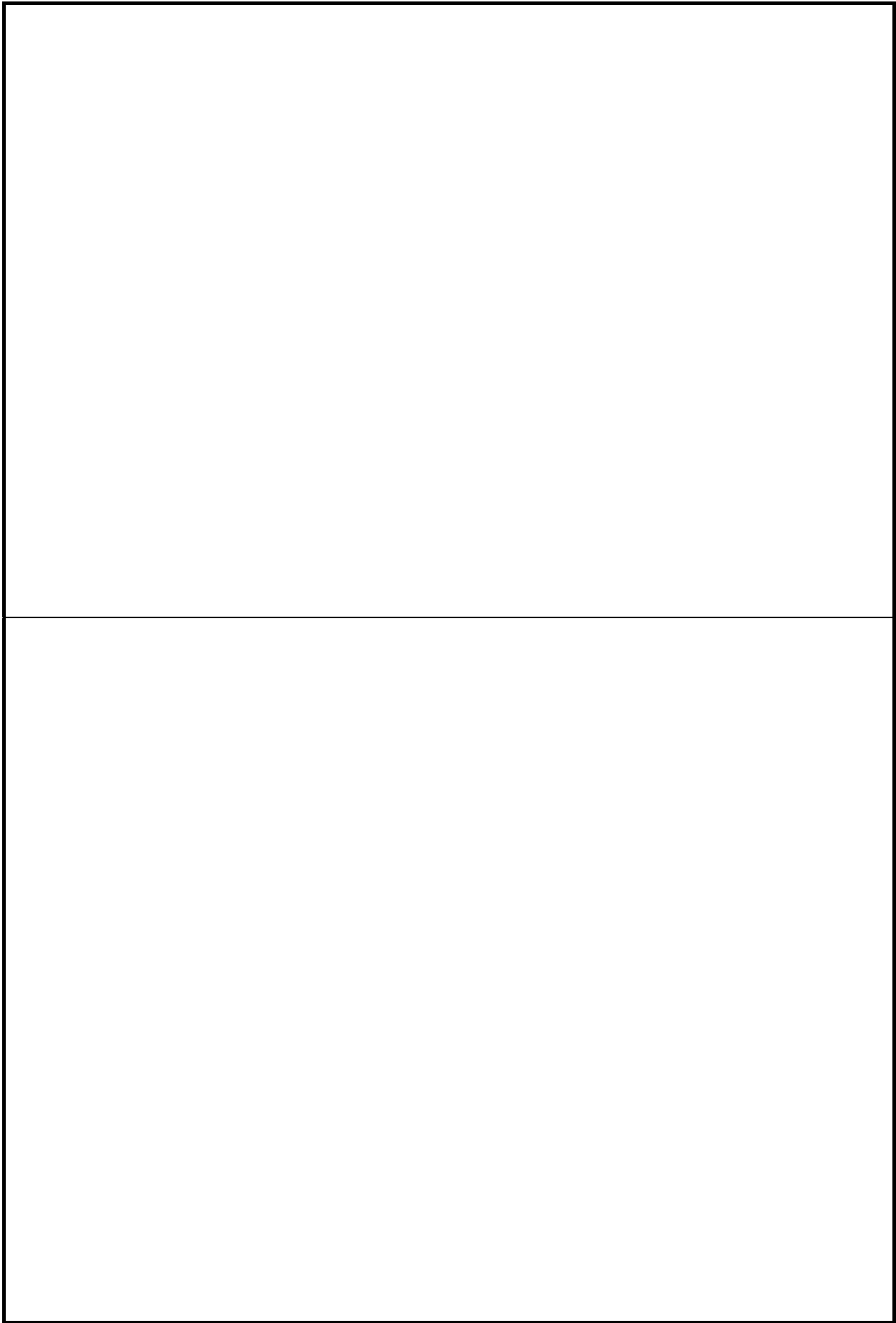
|                            |          |                       |            |            |                           |
|----------------------------|----------|-----------------------|------------|------------|---------------------------|
| 1                          |          | 3600m <sup>3</sup> /a | COD0.54t/a | SS0.36t/a  | NH <sub>3</sub> -N0.09t/a |
| 0.144t/a                   | 0.01t/a  |                       | 3600t/a    | COD0.18t/a | SS0.036t/a                |
| NH <sub>3</sub> -N0.018t/a | 0.054t/a | 0.0018t/a             |            |            |                           |

2 0.024t/a

3

1 “ ”

2 [1997]122



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

- 1
- 2
- 3
- 4
- 5
- 6

1~2

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