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http://www.kman.gov.cn/c/2022-05-31/5983991.shtml

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http://www.kman.gov.cn/c/2022-08-24/6147759.shtml

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(24) ([2016]31 2016.5.28)

(25) ([2015]17 2015.4.2)

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(27) (4) 2019 1 1

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(29) ([2017]84) 2017 11 15

(30) (2017 81)

(31) [2015]178

(32) ([2006]394)2006 7 6

(33) ([2018]11)

(34) ([2017]88)

(35) (2022) ([2022]7)

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1.1.3

(1) (HJ2.1-2016)

(2) (HJ2.2-2018)

(3) (HJ2.3-2018)

(4) (HJ610-2016)

(5) (HJ2.4-2021)

(6) (HJ19-2022)

(7) (HJ169-2018)

(8) ( ) (HJ964-2018)

(9) (HJ 819-2017)

(10) (GB18218-2018)

(11) (HJ 884-2018)

(12)

(HJ 1119-2020)

(13) (HJ 953-2018)

(14) (GB18599-2020)

(15) (GB/T 39198-2020)

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(HJ944-2018)

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1.4.1

1.4.1-1

1.4.1-1

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1.4.2

1.4.2-1

1.4.2-1

1			SO_2 NO_2 PM_{10} $PM_{2.5}$ CO O_3 TSP NH_3 H_2S [a] TVOC
			TSP SO_2 NO_x PM_{10} [a] TVOC
2			A Leq
			A Leq
3			pH COD_{cr} BOD_5
4			pH
5			pH 1,1- 1,2- 1,1- -1,2- -1,2- 1,2- 1,1,1,2- 1,1,2,2- 1,1,1- 1,1,2- 1,2,3- 1,2- 1,4- + 2- [a] [a] [b] [k] [a h] [1,2,3-cd]
			[a]
6		( ) ( ) ( )	
7			CO CH_4 SO_2

1.5

1.5.1

1

(GB3095-2012) SO_2 NO_2 CO O_3 PM_{10} $PM_{2.5}$ TSP [a]

(GB3095-2012) NH_3 H_2S TVOC

(HJ2.2-2018) D D.1

1.5.1-1

1.5.1-1

GB3095-2012	(SO_2)		60	μg/m³
		24	150	
		1	500	
	(NO_2)		40	
		24	80	
		1	200	
	(NO_x)		50	
		24	100	
		1	250	
	(TSP)		200	
		24	300	
	(PM_{10})		70	
		24	150	
	($PM_{2.5}$)		35	
		24	75	
	(CO)	24	4	mg/m³
		1	10	
	(O_3)	8	160	μg/m³
		1	200	
	[a] (BaP)		0.001	
		24	0.0025	
HJ2.2-2018 D	TVOC	8	600	
	NH_3	1	200	
	H_2S	1	10	
		1	2.0	mg/m³
		1	0.0637	
		24	0.0507	

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(2014) (2014 5) (

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(GB3838-2002) 1.5.1-2

1.5.1-2 **(mg/L)**

1	pH( )	6-9	(GB3838-2002)
2		≥3	
3		≤10	

4	COD_{Cr}	≤30	
5	BOD_5	≤6	
6		≤1.5	
7		≤0.3	
8		≤1.5	
9		≤1.0	
10		≤2.0	
11		≤1.5	
12		≤0.02	
13		≤0.1	
14		≤0.001	
15		≤0.005	
16	( )	≤0.05	
17		≤0.05	
18		≤0.2	
19		0.01	
20		≤0.5	
21		≤0.3	
22		≤0.5	
23	(/L)	≤20000	

3

(GB/T 14848-2017)III

1.5.1-3

1.5.1-3

22		≤1.0	
23		≤0.001	
24		≤0.01	
25		≤0.01	
26		≤0.005	
27	( )	≤0.05	
28		≤0.01	

4

(GB3096-2008) 3

(GB3096-2008) 2

1.5.1-4

1.5.1-4 **dB(A)**

2	60	50
3	65	55

5

- (GB36600-2018)

( ) (GB15618-2018)

1.5.1-5 1.5.1-6

1.5.1-5 **( )** **mg/kg**

	65	172		53	183
	38	82		270	1000
	60	140	1,1,1,2-	10	100
	18000	36000		28	280
	800	2500	-	570	570
	900	2000		640	640
	5.7	78		1290	1290
	37	120	1,1,2,2-	6.8	50
	0.43	4.3	1,2,3-	0.5	5
1,1-	66	200	1,4-	20	200
	616	2000	1,2-	560	560
-1,2-	54	163		260	663
1,1-	9	100	2-	2256	4500
-1,2-	596	2000		76	760

	0.9	10		70	700
1,1,1-	840	840	[a]	15	151
	2.8	36		1293	12900
	4	40	[b]	15	151
1,2-	5	21	[k]	151	1500
	2.8	20	[a]	1.5	15
1,2-	5	47	[1,2,3-cd]	15	151
	1200	1200	[a,h]	1.5	15
1,1,2-	2.8	15		4500	9000

1.5.1-6 ( ) mg/kg

	pH≤5.5	**5.5 pH≤6.5**	**6.5 pH≤7.5**	**pH 7.5**
1	0.3	0.4	0.6	0.8
	0.3	0.3	0.3	0.6
2	0.5	0.5	0.6	1.0
	1.3	1.8	2.4	3.4
3	30	30	25	20
	40	40	30	25
4	80	100	140	240
	70	90	120	170
5	250	250	300	350
	150	150	200	250
6	150	150	200	200
	50	50		

1.5.2-4

		(mg/m³)			
		( )			
		200			
( ) ( )		200	50		(GB 9078-1996)
		200			
		200			2 3 4
(GB 9078-1996) 4.6 **4.6.1** ( ) 15m **4.6.2** 1997 1 1 ( ) ( ) 4.6.1 4.6.3 **4.6.3** ( ) 200m 4.6.1 4.6.2 ( ) 3m **4.6.4** ( ) 4.6.1 4.6.2 4.6.3 ( ) 50% **25m** **28m** **(GB 16297-1996) 2** **30m**					

(3) (GB13271-2014) 2

1.5.2-5

		20mg/m³		(GB13271-2014) 2
	SO_2	50mg/m³		
	NOx	200mg/m³		
		≤1		
(GB13271-2014) 4.5 8 200m 3m **25m** **28m**				

(4) (DB5301/T 50-2021)

2

1.5.2-6

		(mg/m³)	
		1.0	

2

(1)

1.5.2-7

1.5.2-7 **mg/L**

pH( )	6-9
COD_{cr}	≤350
BOD_5	≤100
SS	≤300
	≤27
	≤40
	≤10
	≤10
	≤0.15
	≤20

(2)

(GB/T 19923-2005) ( )

1.5.2-8

1.5.2-8

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(GB/T 19923-2005)

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(GB12348-2008)3

1.5.2-9 **(leq[dB(A)])**

3	65	55

4

(1)

(GB18599-2020)

(2) (GB18597-2001)

1.6

1.6.1

1

(HJ2.2-2018) 5.3

A AERSCREEN

a P_{max} $D_{10\%}$

P_i i

10% D10% P_i

$$= \frac{}{0}{}^{3}100\%$$

P_i- i %

C_i- i 1h μg/m^3

C_{0i}- i μg/m^3

b

1.6.1-1

	P_{max}≥10%
	1%≤P_{max}<10%
	P_{max}<1%

c

(HJ2.2-2018)

AERSCREEN 1.6.1-2

1.6.1-2

/	/	
	( )	35.7
		32.8°C
		-7.8°C
	(m)	90
	/km	/
	/º	/

5.2.1.2 5.2.1-13 5.2.1-14

(HJ2.2-2018)

AERSCREEN

⅓ (HJ2.2-2018· № ∞ ˘

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1.6.2

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(HJ2.3-2018)

1.6.2-1

	Q/(m³/d)
	W/( )

(GB/T 19923-2005) (

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1.7-2

B

2

B

(HJ2.3-2018)

1.6.3

1

(1)

(HJ610-2016) “ A ” “ J

-69 ”

(2)

(HJ610-2016)

1.6.3- F”s DiG2"8

1#

(3)

(HJ610-2016)

1.

	GB 3096 1 2 3dB(A)-5dB(A)
	GB 3096 3 4 3dB(A) (3dB(A))

2

(HJ2.4-2021) 200

1.6.5

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(H964-2018)

0.2km

1.6.6

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(HJ19-2022)

1.6.6-1

1.6.6-1

	a)
	b) c) d) HJ 2.3 e) HJ 610 HJ 964 f) 20km^2 ( )

1.2km^2

				*
*				

(HJ 169-2018) C

(Q)

Q

(Q)

$$= \frac{1}{1} + \frac{2}{2} + \cdots$$

q_1 $q_2 \cdots q_n$— (t)

Q_1 $Q_2 \cdots Q_n$— (t)

1

Q≥1 Q (1)1≤Q 10 (2)10≤Q 100 (3)Q≥100

(HJ 169-2018) B

1.6.7-2

1.6.7-2 (Q)

		CAS	**Q(t)**	**q(t)**	**q/Q**
1		7647-01-0	7.5	1.537	0.2049
2		7664-93-9	10	0.202	0.0202
3		7697-37-2	50	0.824	0.0165
4		67-64-1	10	0.052	0.0052
5		7722-84-1	100	0.226	0.0023
6		64-17-5	50	5	0.1
7		1310-73-2	50	10	0.2
8	CO	630-08-0	7.5	/	/
9	CH_4	74-82-8	10	/	/
10	SO_2	7446-09-5	2.5	/	/
11		8006-14-2	10	/	/
12		/	2500	10	0.004
13		/	2500	200	0.08
					0.6331

Q=0.6331 1 I

2

(HJ169-2018)

(1)

(2)

1.7

1.7-1 1.7-6

1

(GB3095-2012)

1.7-1

3

1.7-1

/m			**/m**
X	**Y**		
4	896		300
819	739		710
1623	426		960
1383	39		560
1352	-514		470
-1448	1052		1040
641	-1976		1360
-466	-1924		1280
234	2504		2020
-1542	-2185		2070
-3130	-2436		3400
-1521	-3313		3040
-1510	-4389		4050
-3558	-3647		4520
-3537	1731		3110
328	3329		2890
338	3673		3260
-361	4102		3640
1926	4216		4330
2678	3966		5010
4214	4227	” - v	

(2014) -

55.2km

(GB3838-2002)

2

1.7-2

			(m)	
			250	(GB3838-2002)
	(-)		3000	

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1.7-3

1.7-3

1.9-1

1.9-1

2

2.1

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1200000

1800.24 1700.19

703598 1251942

20

(B

BC BC BC) (

220KV) (

1 2) 10

(BC BC

BC) ( )

(3 4)

32 2022 11 15

2025 7 15 16 2022 11 15

2024 3 15 16 2024 3 16 2025 7

15

2.2

	1	15m	16100m^2

16100m^2

2.5-1

	1	15m	17940m^2

17940m^2

2.5-1

	1	23.8m	-

-

2.5-1

-

1 9m 2400m^2
2400m^2
2 9m 3000m^2
6000m^2

2 9m 3160m^2
6320m^2

		5400m^2			
2		5400m^2	6	23.8m	900m^2
3		5400m^2	6	23.8m	900m^2
4		5400m^2	6	23.8m	900m^2
		3600m^2	2	9m	1800m^2
		4320m^2	2	9m	2160m^2
1	DA001		+	+1 (H30m φm)	
	DA002		+	+1 (H30m φm)	
	DA003		+	+1 (H30m φm)	
	DA004		+	+1 (H30m φm)	
	DA005		+	+1 (H30m φm)	
	DA006		+	+1 (H30m φm)	
	DA007		+	+1 (H30m φm)	
	DA008		+	+1 (H30m φm)	
	DA009		+	+1 (H30m φm)	
	DA010		+	+1 (H30m φm)	
	DA011		+	+1 (H30m φm)	
	DA012		+	+1 (H30m φm)	
	DA013		+	+1 (H30m φm)	
	DA014		+RTO	+1 (H30m φm)	
	DA015		+RTO	+1 (H30m φm)	
	DA016		+	+	+1 (H30m φm)
	DA017		+	+	+1 (H30m φm)
	DA018		+	+ +1 (H30m φm)	
	DA019		+	+1 (H30m φm)	
	DA020		+	+1 (H30m φm)	
	DA021			+1 (H30m φm)	
	DA022			+1 (H30m φm)	
2	DA023		+	+1 (H30m φm)	
	DA024		+	+1 (H30m φm)	
	DA025		+	+1 (H30m φm)	
	DA026		+	+1 (H30m φm)	
	DA027		+	+1 (H30m φm)	
	DA028		+	+1 (H30m φm)	
	DA029		+	+1 (H30m φm)	
	DA030		+	+	+1 (H30m φm)
	DA031		+	+ (H3	

	DA032	+	+1 (H30m φm)
	DA033	+	+1 (H30m φm)
	DA034	+	+1 (H30m φm)
	DA035	+	+1 (H30m φm)
	DA036	+	+1 (H30m φm)
	DA037	+	+1 (H30m φm)
	DA038	+	+1 (H30m φm)
	DA039	+	+1 (H30m φm)
	DA040	+	+1 (H30m φm)
	DA041	+	+1 (H30m φm)
3	DA042	+	+1 (H30m φm)
	DA043	+	+1 (H30m φm)
	DA044	+	+1 (H30m φm)
	DA045	+RTO	+1 (H30m φm)
	DA046	+RTO	+1 (H30m φm)
	DA047	+	+ +1 (H30m φm)
	DA048	+	+ +1 (H30m φm)
	DA049	+	+ +1 (H30m φm)
	DA050	1 (H30m φm)	

1 130m^3 1 432m^3

(GB/T 19923-2005)

( )

2880m^2 1

6000m^3 ( )

(GB/T 19923-2005)

( )

2880m^2 1

6000m^3 ( )

1

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			≥6m ≤1.0×10^{-7}cm/s	
			≥1.5m ≤1.0×10^{-7}cm/s	
			220kV	
		180000m^2		-

“ ”

2.4

2.4.1

		(t/a)	
1		200000	
2		100000	
		300000	/

(GB/T

ppm	≤20	≤50	≤100
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
+ + + + ppm	0.1	0.1	0.5~1.5
ppm	≤20	≤20	≤20
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5	≤5	≤5
ppm	≤5		

7	137.8kw	3	3	3
8	318 /400kw	24	/	24
9	260 /270kw	24	/	24
10	45kw	12	/	12
11	5ks	20	20	20
12				

10

( )

220kv 10kv

( )

2.6.3

1

(1)

(2)

(3)

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2

2.7

2.7.1

1

2

“ ”

6000m^3

(GB/T 19923-2005)

( )

1)

2)

(GB/T 19923-2005) ( )

2.7.2

220kV

220kV 110kV 10KV

( )

UPS

UPS (220VAC/50Hz)

UPS

( )

UPS 30 UPS

40KVA( ) UPS

(220VAC 24VDC)

DCS

2.7.3

1

( ) 10

( )

3μm

1mg/m^3

10mg/m^3(8ppm(w))

500-800kPa(G)

800kPa(G)

2

150m^3/h

18 2700m^3/h 2138.4 m^3/a 4

RTO

30m^3/h 95.04 m^3 2233.44 m^3

20m^3/a 8 m^3/a

2 4t/h 120

Nm^3/a

2361.44 m^3

3

(

) 2.7.3-1 2.7.3-1

2.7.3-1

1	2
2	2
2.1	2

2.7.3-1

4

20

2.7.4

1

( )

(1)

2.7.4-1

				(t/a)	
1				269810	
2				260234	
3				24636	
4				19876	
5				1392.21	
				575948.21	

(2)

15

(3)

2

( )

(1)

2.7.4-2

(t/a)

1

2.7.6

15

12 9 6

1

1144176.21 575948.21 50.34%

568228 49.66%

2.7.6-1

		/	575948.21	
1		/	269810	
2		/	260234	
3		/	24636	
4		/	19876	
5		/	1392.21	
1		/	300000	
2		/	268228	

2

1144176.21 575948.21 (

) 568228

2.8

2.8.1

1

(90%)+ (99%)

(99.9%)

(99%)+ (99%)

2

“ +RTO

” 92% ([a])98%

98%

3

SO_2 NOx

+

-4430 ( ) 80%

70% NOx

2.8.2

1

6000m^3

2

3

1)

2)

(GB/T 19923-2005)

( )

1 65m^3/h

2.8.2-1

2.9

2.9.1

1

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(5)

(6)

(7)

28

2.9.2

4L™b

2

2.10-1

1		3	
2		15	
3		5	
4		183	
5		2701	
6	PMC	763	
7		6	
8		58	
9		222	
10		9	
11		30	18
12	¢	5	
		4000	

2.11

2.11-1

2.11-1

3

3.1

3.1.1

3.1-1

1	/	178738.30	89369.15
2	/	173952.84	8 52.84

3		0.4MPa		/	3527915.2
4		0.1-0.4MPa	Nm^3	/	2589.84
5		0.1-0.4MPa	Nm^3	/	2597.84
6		/		/	20

3.1.2

3.1-3

/(g/m³)≥	2.13	2.13	2.12
/%( )≤	0.41	1.10	0.70
/%( )≤	8.32	8.90	10.30
/%( )≤	0.38	0.29	0.44
/%( )≤		0.15	
(600)(CET)/(10-6/)≤	1.0	1.30.	

90-97% 1.5-8%

25-30% 1.5-2

0.5% 11%

2

1400

(1 2)

1 2 (1

2) 2 1 (

3)

3.2.1-1

1 10

1

( )

( )

(WG1)

+

12 1 +1

WG1-1 WG1-12 (N1)

(S1) (S2)

2

(1)

+

(WG2)

(G1-G8) (WG3)

+

24 2 1 +1

WG2-1 WG2-12 +

+30m 3 1 +1

+1 30m DA001-DA008

( ) 24

1 WG3-1

WG3-24 (N1) (N2)

(S1)

(2)

∫

(WG6)

(G10-G17) (WG7)

(WG8) (WG9)

+ 24

1 +1

WG6-1 WG6-24 + +30m

3 1 +1 +1 30m

DA010-DA017 (

) 24

1 WG7-1 WG7-24

( ) 24

1

WG8-1 WG8-24 + D1

) RTO

(

)

(

)

(WG13)

+

24 1 +1

WG13-1 WG13-24 (G18)

SO_2 NOx [a]

+1 RTO +1 30m (DA018)

+113 ∧ _ p’@ ´À W™ƒ ²L

â‘ ¶à`$- B@ ³ABÖ5ž +1 P P

(N5) (N8)

(S1)

1

( )

(1)

300mm-500mm

700mm

(2)

26000kVA

3000 3-6

(3)

BC

2

/ (WG14) (G22-G25)

(WG15) (WG16) (WG17)

(WG18) (WG19) (WG20)

/ + 8

1 +1

WG14-1 WG14-8 + +

+30m 24 6 1

+1 +1 30m DA022-DA025

+ 16

1 +1

WG15-1 WG15-16 ( )

16 1

WG16-1 WG16-16 +

64 1 +1

WG17-1 WG17-64

( ) 32

1 WG18-1

WG18-32 ( )

32 1

WG19-1 WG19-32 (

) 32

1 WG20-1 WG20-32

(W1) (W2)

(N1) (N5) (N6) (N7) (N9) (N10)

(N11) (S1)

(S2) (S5) (S6) (S7)

100 (3-6)

400-550

(WG21) (WG22)

(WG23) (G26)

(G27-G29) +

6 1 +1

WG21-1 WG21-6 +

6 1 +1

WG22-1 WG22-6

+ 18

1 +1

WG23-1 WG23-18 +1 RTO +1

30m (DA026) +

+30m 9 3 1 +1

+1 30m DA027-DA029

(W1) (N1) (N3) (N5)

(N8) (S1)

1000-1150

WG27-1 WG27-18

( ) 18 1

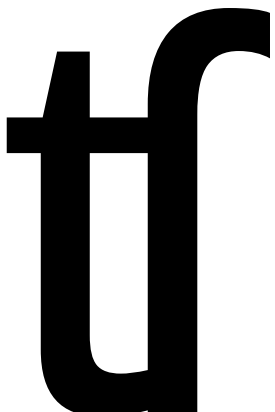
WG28-1 WG28-18

+ 144

2 1 +1

3.2.2-1 1

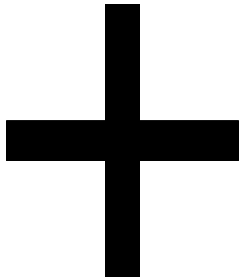
G1 + +1 (H30m tʃ m



G21				+1 (H30m φm	DA021
G22				+ +1 (H30m φm	DA022
G23				+ +1 (H30m φm	DA023
G24		SO_2 NOx		+ +1 (H30m φm	DA024
G25				+ +1 (H30m φm	DA025
G26					

WG4 +

WG5 ( )



WG26		+	
WG27		+	
WG28		( )	
WG29		+	/
WG30		+	
WG31		( )	
WG32		( )	
W1			/ /
W2	SS COD		/ /
W3			/ /
W4	-		/ /
W5	COD TP TN		/ /
W6			/ /
S1			/ /
S2			/ /
S3			/ /
S4			/ /
S5			/ /
S6			/ /
S7			/ /
S8			/ /

3.2.2.2 2

3.2.2-2 **2**

2

1

2

(30t)

¨ Ъ ɔ Ý ɔ

2 1 +1

WG1-1 WG1-2 (N1)

(S1) (S2)

2

2

(150)

6%

(G1 G2)

+ +30m

8 4 1 +1 +1 30m

DA034 DA035 (W1)

(N1)

(S1)

3

(1)

+

(WG2)

(G3-G10) (WG3)

(WG4) (WG5)

+ 16

2 1 +1

WG2-1 WG2-8 + +30m

2 1 +1 +1 30m

DA036-DA043 (

) 16

1 WG3-1 WG3-16

( )

16 1 WG4-1

WG4-16 +

18 2 1 +1

WG5-1 WG5-9

(W1) (N1) (N2) (N3)

(S1) (S3)

(2)

(WG6)

(WG7) +

6 1

+1 WG6-1 WG6-6

( ) 6

1 WG7-1 WG7-6

(N4)

(3)

( )

( )

(WG8)

(G11) (WG9)

+ 3

1 +1 WG8-1 WG8-3

+ +30m

3 3 1 +1 +1 30m

(DA044) ( )

6 1

WG9-1 WG9-6 (W1)

(N1) (N5)

(S1) (S2)

1

100 (3-5)

(WG10)

+

12 3 1 +1

WG10-1 WG10-4 (N1)

(N4) (S1)

2

( )

600 2 (

) RTO

ڪ ? þ ڑ

3

B

(G13-G15)

+ +30m

12 4 1 +1 +1 30m

DA046-DA048 (N1)

(N3) (N7)

(S1)

1

( )

(1)

300mm-500mm

700mm

(2)

26000kVA

3000 3-6

(3)

BC

2

/ (WG12) (G16-G19)

(WG13) (WG14) (WG15)

(WG16) (WG17) (WG18)

/ + 8

1 +1

WG12-1 WG12-8 + +

+30m 24 6 1

+1 +1 30m DA049-DA052

+ 16

1 +1

WG13-1 WG13-16 ( )

16 1

WG14-1 WG14-16

64 1 +1

WG15-1 WG15-64

( ) 32

1 WG16-1

WG16-32 ( )

32 1

G1 -1 WG1 -32(

WG21-1 WG21-18 +1 RTO +1
30m (DA026) +
+30m 9 3 1 +1
+1 30m DA053-DA055
(W1) (N1) (N3) (N4)
(N7) (S1)

1000-1300

(GW22) (G24
G25) (WG23) (G26 G27)
+ 6
1 +1 WG22-1
WG22-6 + +30m 3
1 +1 +1 30m DA056-DA057
+ 6
1 +1
WG23-1 WG23-6 + +30m
6 3 1 +1 +1 30m
DA058-DA059 (W1)
(N1) (N3)
(S1) (S4)

ppm

10-20μm

(WG24)

(WG25) (WG26) (WG27)

(WG28) (WG29) (WG30)

+

18 1

+1 WG24-1 WG24-18

+

18 1 +1

WG25-1 WG25-18

( ) 18 1

WG26-1 WG26-18

+ 144

2 1 +1 WG27-1

WG27-72 +

36 1 +1

WG28-1 WG28-36

( ) 72

1 WG29-1 WG29-72

( )

72 1

WG30-1 WG30-72 (N1) (N3)

(N4) (N8) (N9)

(S1) (S6) (S7)

(N11)

(W3)

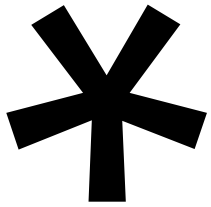
(W4) (S8) (W5)

(W6) (S9)

(S10)

3.2.2-2 2

G1			+	+1	(H30m φm)	DA034
G2			+	+1	(H30m φm)	DA035
G3			+	+1	(H30m φm)	DA036
G4			+	+1	(H30m φm)	DA037
G5			+	+1	(H30m φm)	DA038
G6			+	+1	(H30m φm)	DA039
G7			+	+1	(H30m φm)	DA040
G8			+	+1	(H30m φm)	DA041
G9		+	+	+1	(H30m φm)	DA042





		G19				+ + +1 (H30m φm)		DA052
		G20		SO_2 NOx [a]		+RTO +1 (H30m φm)		DA026
		G21				+ +1 (H30m φm)		DA053
		G22				+ +1 (H30m φm)		DA054
		G23				+ +1 (H30m φm)		DA055
		G24		SO_2 NOx [a]		+ + +1 (H30m φm)		DA056
		G25				+ + +1 (H30m φm)		DA057
		G26				+ +1 (H30m φm)		DA058
		G27				+ +1 (H30m φm)		DA059
		WG1				+		/
		WG2				+		/
		WG3				( )		
		WG4				( )		
		WG5				+		
		WG6				+		
		WG7				( )		
		WG8				+		
		WG9				( )		

WG10		+
WG11		+
WG12	/	+
WG13		+
WG14		( )
WG15		+ /
WG16		( )
WG17		( )
WG18		( )
WG19		+
WG20		+ /
WG21		+
WG22		+
WG23		+ /
WG24		+
WG25		+
WG26		( )
WG27		+ /
WG28		+
WG29		( )
WG30		( )

		W4		-			/	/
		W5		COD TP TN			/	/
		W6					/	/
		S1					/	/
		S2					/	/
		S3					/	/
		S4					/	/
		S5					/	/
		S6					/	/
		S7					/	/
		S8					/	/
		S9					/	/
		S10					/	/
		N1		Leq(A)			/	/
		N2		Leq(A)			/	/
		N3		Leq(A)			/	/
		N4		Leq(A)			/	/
		N5		Leq(A)			/	/

		N6		Leq(A)			/	/
		N7		Leq(A)			/	/
		N8		Leq(A)			/	/
		N9		Leq(A)			/	/
		N10		Leq(A)			/	/
		N11		Leq(A)			/	/

3.2.2.3 3

3.2.2-3 3

3

1

3 /

/

( ) /

(WG1)

+

12 1 +1

WG1-1 WG1-12 (N1)

(S1) (S2)

2

(1) /

/

+

( )

( )

(WG4)

(G9) (WG5)

+ 3

1 +1 WG4-1 WG4-3

+ +30m

3 3 1 +1 +1 30m

(DA068) ( )

6 1

WG5-1 WG5-6 (W1)

(N1) (N3)

(S1) (S2)

3

( )

( )

/

(8±0.1um)

(WG6)

(G10-G17) (WG7)

(WG8) (WG9)

+ 24

1 +1

WG6-1 WG6-24 + +30m

3 1 +1 +1 30m

DA069-DA076 (

) 24

1 WG7-1 WG7-24

( ) 24

1

WG8-1 WG8-24 +

12 1 +1

WG9-1 WG9-12

(W1) (N1) (N4) (N5)

(S1) (S3)

4 WG9- ç ¤$À) à0²@ñ"BHö\š û$û •Lò&B à ¿° Õ P ’ÅıÂDûO]@ Z ™,TÉ ü!¿´ð ‰€1,

1

/

/

100 (3-5)

(WG12)

+

12 3 1 +1

WG12-1 WG12-4 (N1)

(N6) (S1)

2

( ) غ سخ _

(

)

(

)

(WG13)

+

24 1 +1

WG13-1 WG13-24 (G18)

SO_2 NOx [a]

+1 RTO +1 30m (DA077)

(W1) (N1) (N7)

(S1) (S4)

3

B

(G19-G21)

+ +30m

12 4 1 +1 +1 30m

DA078-DA080 (N1)

(N5) (N8)

(S1)

1

( )

(1)

300mm-500mm

700mm

(2)

26000kVA

3000 3-6

(3)

BC

2

/ (WG14) (G22-G25)
(WG15) (WG16) (WG17)
(WG18) (WG19) (WG20)
/ + 8
1 +1
WG14-1 WG14-8 + +
+30m 24 6 1
+1 +1 30m DA081-DA084
+ 16
1 +1
WG15-1 WG15-16 ( )
16 1
WG16-1 WG16-16 +
64 1 +1
WG17-1 WG17-64
( ) 32
1 WG18-1
WG18-32 ( )
32 1
WG19-1 WG19-32 (
) 32
1 WG20-1 WG20-32
(W1) (W2)
(N1) (N5) (N6) (N7) (N9) (N10)
(N11) (S1)
(S2) (S5) (S6) (S7)

100 (3-6)

400-550

(WG21) (WG22)

(WG23) (G26)

(G27-G29) +

6 1 +1

WG21-1 WG21-6 +

6 1 +1

WG22-1 WG22-6

+ WGà

WG24-6 + +30m 3

1 +1 +1 30m DA089-DA090

+ 6

1 +1

WG25-1 WG25-6 + +30m

6 3 1 +1 +1 30m

DA091-DA092 (W1)

(W2) (N1) (N5) %ظ 1 È

1 +1 WG29-1
WG29-40 +
20 1 +1
WG30-1 WG30-20 (
) 40
1 WG31-1 WG31-40
( )
40 1
WG32-1 WG32-42 (N1) (N5) (N6)
(N9) (N10)
(S1) (S6) (S7)

(N12)
(W3)
(W4) (S8) (W5)
(W6) (S9)
(S10)
3

G21			+1 (H30m φm)	DA080
G22			+ +1 (H30m φm)	DA081
G23			+ +1 (H30m φm)	DA082
G24		SO_2 NOx	+ +1 (H30m φm)	DA083
G25			+ +1 (H30m φm)	DA084
G26				

WG26 +

WG27 +

WG28 ( )

WG29 + /

WG30 +

WG31 ( )

WG32 ( )

W1

SS COD - Ā

3.3

3.3.1

1

3.3-1 **1**

2

3.3-2 **2**

3

3.3-3 3

3.3.2

3.4.2.2

(GB/T 19923-2005) ( )

(GB/T 19923-2005) (

)

3.3.2-1 (m^3/d)

3.3.2-2 **(m^3/d)**

3.4

3.4.1

1

16

16 3.4-1

3.4-1

2

(1)

( )

a

$$Q=2.1(V_{50} \quad V_0)^3 e^{-1.023w}$$

Q-- kg/t·a

V_{50}-- 50 m/s

V_0-- m/s

W-- %

Q

NO_x

CO 3.4.1-3

3.4.1-3

38.35m^3

SS 500mg/L

47m^3(1.2)

SS

600

(DB53/T168-2019)

50L/ ·d 30m^3/d 80%

24m^3/d

20L/ (·)

12m^3/d

15m^3 44m^3

44m^3

1

NMHC

SO_2 NO_x

1

(1)

“

” 0.1kg/t-

3.4.2-1

(3)

“ ” 22-1

0.12kg/t( )

3.4.2-3

		(t/a)		**(kg/h)**	**(t/a)**			**(kg/h)**	**(t/a)**		
1		W	-								

19	G20	46606.0743	0.1kg/t	4000	147.1151	0.5885	4.6606	+	90%	99%	1.3240	0.0053	0.0419	DA020
	G21	46606.0743	0.1kg/t	4000	147.1151	0.5885	4.6606	+	90%	99%	1.3240	0.0053	0.0419	DA021
21	G27	36969.5624	0.1kg/t	4000	116.6969	0.4668	3.6970	+	90%	99%	1.0503	0.0042	0.0333	DA027
22	G28	36969.5624	0.1kg/t	4000	116.6969	0.4668	3.6970	+	90%	99%	1.0503	0.0042	0.0333	DA028
23	G29	36969.5624	0.1kg/t	4000	116.6969	0.4668	3.6970	+	90%	99%	1.0503	0.0042	0.0333	DA029
24	G32													

		(t/a)		**h)**	**g/m³)**	**g/h)**	**(t/a)**					**(kg/h)**	**(t/a)**
1		WG2	173935.4447	0.0065kg/t	12×1500	7.9506	0.1428	1.1306		+	99%+99%	1.4×10^{-5}	0.0001
2		WG4	8212	0.0065kg/t	3×1500	1.4977	0.0067	0.0534					

61.5373kg/h 487.3753t/a 62.1980kg/h 492.6084/a

( ) [a] 0.10-0.15g/t- 0.15g

[a] /t- [a] 9.3×10^{-6}kg/h 7.4×10^{-5}t/a

b.

0.15% 140028.2654t/a 26.5205kg/h 210.0424t/a

c.

“ + +RTO ”

60%

421.5905t/a

RTO

3.4.2-7

	+		
	60%	80%	≥92%

	60%	98%	≥98%
		98%	≥98%
		98%	≥98%

1.9358kg/h 15.3316t/a

1.2440kg/h 9.8522t/a [a] 1.9×10^{-7}kg/h 1.5×10^{-6}t/a 1.1201kg/h 8.8711t/a

d.

23.76 Nm^3/a SO_2

NOx SO_2 NOx (2021 24)-4430 ( )

1.2kg/ m^3

3.4.2-8

	Nm^3/ m^3-	107753		107753
SO_2	kg/ m^3-	0.02S		0.02S
NOx	kg/ m^3-	15.87		15.87
	kg/ m^3-	1.2		1.2
(S) (S) mg/m^3 (S) 200mg/m^3 S=200				

20mg/m^3

(2021 24)-4430 ( )

3.4.2-9 RTO

		SO_2		NOx	
(kg/h)	**(t/a)**	**(kg/h)**	**(t/a)**	**(kg/h)**	**(t/a)**
0.0036	0.029	0.0012	0.009	0.0476	0.377

3.4.2-10

40% 40%

23.76 Nm^3/a SO_2

NOx

3.4.2-11 RTO

		SO_2		**NOx**	
(kg/h)	**(t/a)**	**(kg/h)**	**(t/a)**	**(kg/h)**	**(t/a)**
0.0036	0.029	0.0012	0.009	0.0476	0.377

3.4.2-12

		(m^3/h)										
			(mg/m^3)	**(kg/h)**	**(t/a)**			**(mg/m^3)**	**(kg/h)**	**(t/a)**	**(mg/m^3)**	**(kg/h)**	
G26		80000	263.0080	21.0406	166.6419	+RTO	92%	21.0406	1.6833	13.3314	200	/	DA026
	SO_2		0.0142	0.0011	0.009		/	0.0142	0.0011	0.009	550	15	
	NOx		0.5950	0.0476	0.377		/	0.5950	0.0476	0.377	240	4.4	
	NMHC		606.0876	48.4870	384.0171		98%	12.1218	0.9697	7.6803	120	53	
			777.4754	62.1980	492.6084		98%	15.5495	1.2439	9.8522	50	/	
	[a]		1.2×10^{-5}	9.3×10^{-6}	7.4×10^{-5}		98%	9.3×10^{-7}	1.9×10^{-7}	1.5×10^{-6}	0.0003	0.29×10^{-3}	

(GB 9078-1996) SO_2

NOx [a] (GB 16297-1992)

3

(1)

800 CO CH_4

CO 12%-74.2% CO

CO

CO

CH_4 CO_2 H_2O

CO_2 H_2O

(2)

1300 2000 2800-3000

SO_2

SO_2 NOx (HJ 1119-2020)

E = ä
=1
= 3

E - t/a

E_i- i t/a

n 1

Q- ( ) t/a 13.9790 t/a

a- t/ t

3.4.2-13

					(t/a)
	( )			3.2	44.7328
			SO_2	12.8	178.9312
			NOx	7.68	107.3587

-4430 ( ) 80%

70%

3.4.2-14

		(m^3/h)	**(mg/m^3)**	**(kg/h)**	**(t/a)**			**(mg/m^3)**	**(kg/h)**	**(t/a)**	**(mg/m^3)**	**(kg/h)**	
			14.1202	1.4120	11.1832		70%	4.2361	0.4236	3.3550	200	/	
G22	SO_2	100000	56.4808	5.6481	44.7328	+	80%	11.2962	1.1296	8.9466	550	15	DA022
	NOx		33.8885	3.3888	26.8397		/	33.8885	3.3888	26.8397	240	4.4	

			14.1202	1.4120	11.1832			70%	4.2361	0.4236	3.3550	200	/		
G24	SO_2	100000	56.4808	5.6481	44.7328	+		80%	11.2962	1.1296	8.9466	54 Â		DA024	

624.0211t/a

(3)

718.2 Nm^3/a SO_2 NOx

SO_2 NOx (2021 24)-4430 ( )

1.2kg/ m^3

3.4.2-15

3.4.2-18 1

			(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**
DA001	G1		137.2588	0.2745	2.1742	1.2353	0.0025	0.0196
DA002	G2		137.2588	0.2745	2.1742	1.2353	0.0025	0.0196
DA003	G3		137.2588	0.2745	2.1742	1.2353	0.0025	0.0196
DA004	G4		137.2588	0.2745	2.1742	1.2353	0.0025	0.0196
DA005	G5		137.2588	0.2745	2.1742	1.2353	0.0025	0.0196
DA006	G6		137.2588	0.2745	2.1742	1.2353	0.0025	0.0196

			777.4754	62.1980	492.6084	15.5495	1.2439	9.8522
		[a]	1.2×10^{-5}	9.3×10^{-6}	7.4×10^{-5}	9.3×10^{-7}	1.9×10^{-7}	1.5×10^{-6}
DA019	G19		147.1151	0.5885	4.6606	1.3240	0.0053	0.0419
DA020	G20		147.1151	0.5885	4.6606	1.3240	0.0053	0.0419
DA021	G21		147.1151	0.5885	4.6606	1.3240	0.0053	0.0419
			772.8974	**28.2897**	**224.0532**	**30.4962**	**2.1378**	**16.9314**
		SO_2	**0.0142**	**0.0011**	**0.009**	**0.0142**	**0.0011**	**0.009**
		NOx	**0.5950**	**0.0476**	**0.377**	**0.5950**	**0.0476**	**0.377**
		NMHC	**769.2161**	**61.5373**	**487.3753**	**15.3843**	**1.2307**	**9.7475**
			777.4754	**62.1980**	**492.6084**	**15.5495**	**1.2439**	**9.8522**
		[a]	1.2×10^{-5}	$9.3\times10^{-}$				

		SO_2	**225.9232**	**22.5924**	**178.9312**	**45.1848**	**4.5184**	**35.7864**
		NOx	**135.554**	**13.5552**	**107.3588**	**135.554**	**13.5552**	**107.3588**
			263.0080	21.0406	166.6419	21.0406	1.6833	13.3314
		SO_2	0.0142	0.0011	0.009	0.0142	0.0011	0.009
		NOx	0.5950	0.0476	0.377	0.5950	0.0476	0.377
DA026	G26	NMHC	606.0876	48.4870	384.0171	12.1218	0.9697	7.680

J

		NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985
			378.0575	37.8058	299.4216	7.5612	0.7561	5.9884
		[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}
DA032	G32		173.3840	0.6935	5.4928	1.5605	0.0062	0.0494
DA033	G33		173.3840	0.6935	5.4928	1.5605	0.0062	0.0494
			904.9172	**57.2020**	**453.0398**	**47.7728**	**4.4776**	**35.4632**
		SO_2	**0.3624**	**0.0362**	**0.2870**	**0.3624**	**0.0362**	**0.2870**
		NOx	**14.3902**	**1.4390**	**11.3970**	**14.3902**	**1.4390**	**11.3970**
			756.115	**75.6116**	**598.8432**	**15.1224**	**1.5122**	**11.9768**
		[a]	**1.1×10**					

WG6	0.1427	1.1303	0.000014	0.0001
WG7	2.0748	16.4327	0.0021	0.0164
WG8	0.5597	4.4327	0.0006	0.0044
WG9	0.4663	3.6934	0.000047	0.0004
WG10	0.1124	0.8900	0.000011	0.0001
WG11	2.0746	16.4306	0.0021	0.0164
	10.5359	**83.4443**	**0.00778667**	**0.0615053**
WG12	0.1157	0.9166	0.000012	0.0001
WG13	0.1157	0.9166	0.000012	0.0001
	0.2314	**1.8332**	**0.000024**	**0.0002**
WG14	3.5260	27.9263	0.0004	0.0028
WG15	1.7607	13.9445	0.0002	0.0014
WG16	2.1126	16.7318	0.0021	0.0167
WG17	1.7603	13.9415	0.0002	0.0014
WG18	1.6346	12.9460	0.0016	0.0129
WG19	0.2389	1.8919	0.0002	0.0019
WG20	0.2389	1.8919	0.0002	0.0019
	11.272	**89.2739**	**0.0049**	**0.039**
WG21	1.4138	11.1975	0.0001	0.0011
WG22	1.4137	11.1964	0.0001	0.0011
WG23	0.0919	0.7277	0.0000092	0.0001

	0.1812	**1.4349**	**0.0000181**	**0.000143**
WG26	1.3869	10.9845	0.0001	0.0011
WG27	1.3868	10.9834	0.0001	0.0011
WG28	1.6640	13.1788	0.0017	0.0132
WG29	1.3865	10.9810	0.0001	0.0011
WG30	1.2628	10.0010	0.0001	0.0010
WG31	0.0742	0.5873	0.0001	0.0006
WG32	0.0742	0.5873	0.0001	0.0006
	7.2354	**57.3033**		

3		WG12	139532.9359	0.1kg/t	8×3000	73.4075	1.7618	13.9533	+	99%	99%	/	0.0002	0.0014	
4		WG19	111975.8332	0.1kg/t	6×500	471.2788	1.4138	11.1976	+	99%	99%	/	0.0001	0.0011	
5		WG24	110055.3437	0.1kg/t	18×500	154.3986	1.3896	11.0055	+	99%	99%	/	0.0001	0.0011	

(2)

“ ” 0.1kg/t-

3.4.2-21

(t/a) **(m^3/h)** **(mg/m^3)** **(kg/h)** **(t/a)** **(mg/m^3)**

3.4.2-22

		(t/a)		(kg/h)	(t/a)				(kg/h)	(t/a)
1	WG3	136726.7745	0.12kg/t	2.0716	16.4072	(	)	99.9%	0.0021	0.0164
2	WG4	41973.4565	0.12kg/t	0.6360	5.0368	(	)	99.9%	0.0006	0.0050
3	WG7	136693.962	0.12kg/t	2.0711	16.4033	(	)	99.9%	0.0021	0.0164
4	WG9	8211.1254	0.12kg/t	0.1244	0.9853	(	)	99.9%	0.0001	0.0010
5	WG14	139505.0307	0.12kg/t	2.1137	16.7406	(	)	99.9%	0.0021	0.0167
6	WG16	107883.7092	0.12kg/t	1.6346	12.9460	(	)	99.9%	0.0016	0.0129
7	WG17	15795.3160	0.12kg/t	0.2393	1.8954	(	)	99.9%	0.0002	0.0019
8	WG18	15795.3160	0.12kg/t	0.2393	1.8954	(	)	99.9%	0.0002	0.0019
9	WG26	110033.3337	0.12kg/t	1.6672	13.2040	(	)	99.9%	0.0017	0.0132
10	WG29	4999.5634	0.12kg/t	0.0758	0.5999	(	)	99.9%	0.0000	

3		G5	22339.7629	0.1kg/t	2000	141.0339	0.2821	2.2340	+	90%	99%	1.2693	0.0025	0.0201		DA038
4		G6	22339.7629	0.1kg/t	2000	141.0339	0.2821	2.2340	+	90%	99%	1.2693	0.0025	0.0201		DA039
5		G7	22339.7629	0.1kg/t	2000	141.0339	0.2821	2.2340	+	90%	99%	1.2693	0.0025	0.0201		DA040
6		G8	22339.7629	0.1kg/t	2000	141.0339	0.2821	2.2340	+	90%	99%	1.2693	0.0025	0.0201		DA041
7		G9	22339.7629	0.1kg/t	2000	141.0339	0.2821	2.2340	+	90%	99%	1.2693	0.0025	0.0201		DA042
8		G10	22339.7629	0.1kg/t	2000	141.0339	0.2821	2.2340	+	90%	99%	1.2693	0.0025	0.0201		DA043
9		G11	8211.9466	0.1kg/t	1000	103.6862	0.1037	0.8212	+	90%	99%	0.9332	0.0009	0.0074		DA044
18		G13	46630.7036	0.1kg/t	4000	147.1929	0.5888	4.6631	+	90%	99%	1.3247	0.0053	0.0420		DA046
19		G14	46630.7036	0.1kg/t	4000	147.1929	0.5888	4.6631	+	90%	99%	1.3247	0.0053	0.0420		DA047
20		G15	46630.7036	0.1kg/t	4000	147.1929	0.5888	4.6631	+	90%	99%	1.3247	0.0053	0.0420		DA048
21		G21	37040.1928	0.1kg/t	4000	116.9198	0.4677	3.7040	+	90%	99%	1.0523	0.0042	0.0333		DA053
22		G22	37040.1928	0.1kg/t	4000	116.9198	0.4677	3.7040	+	90%	99%	1.0523	0.0042	0.0333		DA054
23		G23	37040.1928	0.1kg/t	4000	116.9198	0.4677	3.7040	+	90%	99%	1.0523	0.0042	0.0333		DA055
24		G26	55033.1752	0.1kg/t	4000	173.7158	0.6949	5.5033	+	90%	99%	1.5634	0.0063	0.0495		DA058
25		G27	55033.1752	0.1kg/t	4000	173.7158	0.6949	5.5033	+	90%	99%	1.5634	0.0063	0.0495		DA059
26		WG13	139518.9826	0.1kg/t	16×2000	55.0501	1.7616	13.9519	+	99%	99%	/	0.0002	0.0014		/
27		WG15	139488.2901	0.1kg/t	64×700	39.3129	1.7612	13.9488	+	99%	99%	/	0.0002	0.0014		/
28		WG20	111964.6356	0.1kg/t	6×2500	94.2463	1.4137	11.1965	+	99%	99%	/	0.0001	0.0011		/
29		WG25	110044.3382	0.1kg/t	18×1500	51.4611	1.3894	11.0044	+	99%	99%	/	0.0001	0.0011		/
30		WG27	110020.1297	0.1kg/t	72×700	27.5624	1.3891	11.0020	+	99%	99%	/	0.0001	0.0011		/

(5)

“ ” 0.0065kg/t

3.4.2-24

	(t/a)	**(m^3/h)**	**(mg/m^3)**	**(kg/h)**	**(t/a)**	**(kg/h)**	**(t/a)**
1							

(6)

“ ”

99% 0.0065kg/t

3.4.2-25

			(t/a)		**(m^3/h)**	**(mg/m^3)**	**(kg/h)**	**(t/a)**				**(mg/m^3)**	**(kg/h)**	**(t/a)**		
1		G1	89360.2131	0.0065kg/t	1000	36.6693	0.0733	17.8738	+	90%	99%	0.3300	0.0007	0.0052		DA034
2		G2	89360.2131	0.0065kg/t	1000	36.6693	0.0733	17.8738	+	90%	99%	0.3300	0.0007	0.0052		DA035

2

(1)

a.

40% 40%

0.4% 30%

		(m^3/h)											
			(mg/m^3)	**(kg/h)**	**(t/a)**			**(mg/m^3)**	**(kg/h)**	**(t/a)**	**(mg/m^3)**	**(kg/h)**	
			331.7277	26.5382	210.1827		92%	26.5382	2.1231	16.8146	200	/	
	SO_2		0.0142	0.0011	0.009		/	0.0142	0.0011	0.009	550	15	
G12	NOx	80000	0.5950	0.0476	0.377	+RTO	/	0.5950	0.0476	0.377	240	4.4	DA045
	NMHC		345.2236	27.6179	218.7337		98%	6.9045	0.5524	4.3747	120	53	

0.15% 111287.5098t/a 21.0772kg/h 166.9313t/a

c.

“ + +RTO ”

60% 395.7238t/a

1.8653kg/h 14.7733t/a

1.2440kg/h 9.8522t/a [a] 1.9×10^{-7}kg/h 1.5×10^{-6}t/a 0.4836kg/h 3.8301t/a

d.

23.76 Nm^3/a SO_2 NOx

SO_2 NOx 3.4.2-8

3.4.2-28 RTO

		SO_2		**NOx**	
(kg/h)	**(t/a)**	**(kg/h)**	**(t/a)**	**(kg/h)**	**(t/a)**
0.0036	0.029	0.0012	0.009	0.064	0.377

3.4.2-29

		(m^3/h)	**(mg/m^3)**	**(kg/h)**	**(t/a)**			**(mg/m^3)**	**(kg/h)**	**(t/a)**	**(mg/m^3)**	**(kg/h)**	

263.5105 21.0808

G20 80000

a- t/ t

3.4.2-30

		(t/a)
	3.2	44.7565
( )	SO_2	12.8

	NOx		33.9064	3.3906	26.8539		/	33.9064	3.3906	26.8539	240	4.4	

(GB 9078-1996) SO_2 NOx

(GB 16297-1992)

4

(1)

1000-1300 30%

(40% 60%) 111072.1015t/a

100 (3-6) 3% 3332.1630t/a 75.7309kg/h 599.7893t/a

( ) [a] 0.10-0.15g/t- 0.15g

[a] /t- [a] 1.1×10^{-5}kg/h 9.0×10^{-5}t/a

(2) ( )

0.4% 110472.3122t/a 55.7941kg/h 441.8892t/a

625.0071t/a

(3)

(GB 9078-1996) SO_2 NOx

(GB 16297-1992)

5

2

3.4.2-34 2

				(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**
DA034	G1			36.6693	0.0733	17.8738	0.3300	0.0007	0.0052
DA035	G2			36.6693	0.0733	17.8738	0.3300	0.0007	0.0052
DA036	G3			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA037	G4			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA038	G5			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA039	G6			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA040	G7			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA041	G8			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA042	G9			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA043	G10			141.0339	0.2821	2.2340	1.2693	0.0025	0.0201
DA044	G11			103.6862	0.1037	0.8212	0.9332	0.0009	0.0074
				1305.296	**2.5071**	**54.4408**	**11.7476**	**0.0223**	**0.1786**
DA045	G12			331.7277	26.5382	210.1827	26.5382	2.1231	16.8146
			SO_2	0.0142	0.0011	0.009	0.0142	0.0011	0.009
			NOx	0.5950	0.0476	0.377	0.5950	0.0476	0.377

		SO_2	0.1812	0.0181	0.1435	0.1812	0.0181	0.1435
		NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985
			378.6549	37.8655	299.8947	7.5731	0.7573	5.9979
		[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}
DA058	G26		173.7158	0.6949	5.5033	1.5634	0.0063	0.0495
DA059	G27		173.7158	0.6949	5.5033	1.5634	0.0063	0.0495
			906.4608	**57.2928**	**453.7578**	**47.8492**	**4.4848**	**35.519**
		SO_2	**0.3624**	**0.0362**	**0.287**	**0.3624**	**0.0362**	**0.287**
		NOx	**14.3902**	**1.439**	**11.397**	**14.3902**	**1.439**	**11.397**

WG5			0.6359	5.0362	0.0001	0.0005
WG6			0.1122	0.8886	0.000011	0.0001
WG7			2.0711	16.4033	0.0021	0.0164
WG8			0.0067	0.0534	0.00000067	0.0000053
WG9			0.1244	0.9853	0.0001	0.0010
			8.0614	**63.8463**	**0.00522667**	**0.0413053**
WG10			0.1156	0.9153	0.000012	0.0001
WG11			0.1156	0.9153	0.000012	0.0001
			0.2312	**1.8306**	**0.000024**	**0.0002**
WG12			3.5279	27.9411	0.0004	0.0028
WG13			1.7616	13.9519	0.0002	0.0014
WG14			2.1137	16.7406	0.0021	0.0167
WG15			1.7612	13.9488	0.0002	0.0014
WG16			1.6346	12.9460	0.0016	0.0129
WG17			0.2393	1.8954	0.0002	0.0019
WG18			0.2393	1.8954	0.0002	0.0019
			11.2776	**89.3192**	**0.0049**	**0.039**
WG19			1.4138	11.1976	0.0001	0.0011
WG20			1.4137	11.1965	0.0001	0.0011
WG21			0.0919	0.7277	0.0000092	0.0001
			2.9194	**23.1218**	**0.0002092**	**0.0023**
WG22			0.0912	0.7222	0.0000091	0.000072
WG23			0.0903	0.7154	0.000009	0.000072
			0.1815	**1.4376**	**0.0000181**	**0.000144**

3

78

			(t/a)		(kg/h)	(t/a)			(kg/h)	(t/a)	
1		WG3	176309.157	0.12kg/t	2.6714	21.1571	( )	99.9%	0.0027	0.0212	
2		WG5	8211.1254	0.12kg/t	0.1244	0.9853	( )	99.9%	0.0001	0.0010	
3		WG7	136863.459	0.12kg/t	2.0737	16.4236	( )	99.9%	0.0021	0.0164	
4		WG8	39405.7662	0.12kg/t	0.5971	4.7287	( )	99.9%	0.0006	0.0047	
5		WG11	136846.146	0.12kg/t	2.0734	16.4215	( )	99.9%	0.0021	0.0164	
6		WG16	139510.229	0.12kg/t	2.1138	16.7412	( )	99.9%	0.0021	0.0167	
7		WG18	107898.698	0.12kg/t	1.6348	12.9478	( )	99.9%	0.0016	0.0129	
8		WG19	15797.3950	0.12kg/t	0.2394	1.8957	( )	99.9%	0.002	0.0019	
9		WG20	15797.3950	0.12kg/t	0.2394	1.8957	( )	99.9%	0.002	0.0019	
10		WG28	109947.074	0.12kg/t	1.6659	13.1936	( )	99.9%	0.0017	0.0132	
11		WG31	4956.4431	0.12kg/t	0.0751	0.5948	( )	99.9%	0.0001	0.0006	
12		WG32	4956.4431	0.12kg/t	0.0751	0.5948	( )	99.9%	0.0001	0.0006	

(4)

“ ” h0h0

3		G3	22040.8487	0.1kg/t	2000	139.1468	0.2783	2.2041	+	90%	99%	1.2523	0.0025	0.0198		DA062
4		G4	22040.8487	0.1kg/t	2000	139.1468	0.2783	2.2041	+	90%	99%	1.2523	0.0025	0.0198		DA063
5		G5	22040.8487	0.1kg/t	2000	139.1468	0.2783	2.2041	+	90%	99%	1.2523	0.0025	0.0198		DA064
6		G6	22040.8487	0.1kg/t	2000	139.1468	0.2783	2.2041	+	90%	99%	1.2523	0.0025	0.0198		DA065
7		G7	22040.8487	0.1kg/t	2000	139.1468	0.2783	2.2041	+	90%	99%	1.2523	0.0025	0.0198		DA066
8		G8	22040.8487	0.1kg/t	2000	139.1468	0.2783	2.2041	+	90%	99%	1.2523	0.0025	0.0198		DA067
9		G9	8211.9466	0.1kg/t	1000	103.6862	0.1037	0.8212	+	90%	99%	0.9332	0.0009	0.0074		DA068
10		G10	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA069
11		G11	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA070
12		G12	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA071
13		G13	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA072
14		G14	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA073
15		G15	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA074
16		G16	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA075
17		G17	22305.8567	0.1kg/t	2000	139.1153	0.2782	2.2036	+	90%	99%	1.2520	0.0025	0.0198		DA076
18		G19	46632.4410	0.1kg/t	4000	147.1984	0.5888	4.6632	+	90%	99%	1.3248	0.0053	0.0420		DA078
19		G20	46632.4410	0.1kg/t	4000	147.1984	0.5888	4.6632	+	90%	99%	1.3248	0.0053	0.0420		DA079
20		G21	46632.4410	0.1kg/t	4000	147.1984	0.5888	4.6632	+	90%	99%	1.3248	0.0053	0.0420		DA080
21		G27	37011.2712	0.1kg/t	4000	116.8285	0.4673	3.7011	+	90%	99%	1.0515	0.0042	0.0333		DA086
22		G28	37011.2712	0.1kg/t	4000	116.8285	0.4673	3.7011	+	90%	99%	1.0515	0.0042	0.0333		DA087
23		G29	37011.2712	0.1kg/t	4000	116.8285	0.4673	3.7011	+	90%	99%	1.0515	0.0042	0.0333		DA088
24		G32	54990.0324	0.1kg/t	4000	173.5796	0.6943	5.4990	+	90%	99%	1.5622	0.0062	0.0495		DA091
25		G33	54990.0324	0.1kg/t	4000	173.5796	0.6943	5.4990	+	90%	99%	1.5622	0.0062	0.0495		DA092
26		WG15	139524.181	0.1kg/t	16×2000	55.0522	1.7617	13.9524	+	99%	99%	/	0.0002	0.0014		/

27		WG17	139493.488	0.1kg/t	64×700	39.3143	1.7613	13.9493	+	99%	99%	/	0.0002	0.0014	/
28		WG22	111979.621	0.1kg/t	6×2500	94.2589	1.4139	11.1980	+	99%	99%	/	0.0001	0.0011	/
29		WG27	109958.07	0.1kg/t	18×1500	51.4207	1.3884	10.9958	+	99%	99%	/	0.0001	0.0011	/
30		WG29	109933.881	0.1kg/t	72×700	27.5408	1.3881	10.9934	+	99%	99%	/	0.0001	0.0011	/

(5)

5		WG12	140934.794	0.0065kg/t	4×1500	19.2777	0.1157	0.9161	+	99%+99%	1.2×10^{-5}	0.0001	
6		WG13	140933.878	0.0065kg/t	24×1000	4.8194	0.1157	0.9161	+	99%+99%	1.2×10^{-5}	0.0001	
7		WG23	111968.423	0.0065kg/t	18×1000	5.1052	0.0919	0.7278	+	99%+99%	9.2×10^{-6}	0.0001	
8		WG24	111022.71	0.0065kg/t	6×3000	5.0621	0.0911	0.7216	+	99%+99%	9.1×10^{-6}	7.2×10^{-5}	
9		WG25	109980.78	0.0065kg/t	6×2000	7.5218	0.0903	0.7149	+	99%+99%	9.0×10^{-6}	7.1×10^{-5}	

2

(1)

a.

3.4.2-6 40% 40%

0.89% 0.4% 30% 64629.6712t

68094.9829t 4105.0700t 42.8073kg/h 339.0336t/a

62.1980kg/h 492.6084/a

( ) [a] 0.10-0.15g/t- 0.15g

[a] /t- [a] 9.3×10^{-6}kg/h 7.4×10^{-5}t/a

b.

0.15% 135998.0821t/a 25.7572kg/h 203.9971t/a

c.

“ + +RTO ”

60% 417.9633t/a

2.0606kg/h 16.3198t/a 1.2440kg/h 9.8522t/a

[a] 1.9×10^{-7}kg/h 1.5×10^{-6}t/a 0.8561kg/h 6.7807t/a

d.

23.76 Nm^3/a SO_2

NOx SO_2 NOx 3.4.2-8

3.4.2-41 RTO

		SO_2		**NOx**	
(kg/h)	**(t/a)**	**(kg/h)**	**(t/a)**	**(kg/h)**	**(t/a)**
0.0036	0.029	0.0012	0.009	0.064	0.377

3.4.2-42

	NMHC		433.1395	34.6512	274.4372		98%	8.6628	0.6930	5.4887	120	53	
			777.4754	62.1980	492.6084		98%	15.5495	1.2439	9.8522	50	/	
	[a]		1.2×10^{-5}	9.3×10^{-6}	7.4×10^{-5}		98%	9.3×10^{-7}	1.9×10^{-7}	1.5×10^{-6}	0.0003	0.29×10^{-3}	

(GB 9078-1996) SO_2

NOx [a] (GB 16297-1992)

3

(HJ 1119-2020)

$$E = \sum_{i=1}^{3}$$

E - t/a

E_i- i t/a

n 1

Q- ( ) t/a 13.9869 t/a

a- t/ t

3.4.2-45

				(t/a)

	( )			3.2	47.7581
			SO_2	12.8	179.0323
			NOx	7.68	107.4194

3

3.4.2-46

(m^3/h) **(mg/m^3)** **(kg/h)** **(t/h t**

(GB 16297-1992)

4

(1)

1000-1300 30%

(40% 60%) 111021.9885t/a

100 (3-6) 3% 3330.6597t/a 75.6968kg/h 599.5189t/a

( ) [a] 0.10-0.15g/t- 0.15g

[a] /t- [a] 1.1×10^{-5}kg/h 9.0×10^{-5}t/a

(2) ( )

0.4% 110422.4696t/a 55.7689kg/h 441.6899t/a

624.7253t/a

(3)

718.2 Nm^3/a SO_2 NOx

3.4.2-47

	Nm³/ m³-	107753
SO_2	kg/ m³-	0.02S
NOx	kg/ m³-	15.87
	kg/ m³-	1.2

20mg/m³

(2021 24)-4430 ( )

3.4.2-48

		SO_2		**NOx**	
(kg/h)	**(t/a)**	**(kg/h)**	**(t/a)**	**(kg/h)**	**(t/a)**
0.109	0.862	0.036	0.287	1.439	11.397

3.4.2-49

		(m³/h)	**(mg/m³)**	**(kg/h)**	**(t/a)**			**(mg/m³)**	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	
G30		100000	279.3888	27.9389	221.2760	+RTO	92%	22.3259	2.2326	17.6822	200	/	DA089

SO_2	0.1812	0.0181	0.1435		/	0.1812	0.0181	0.1435	550	15
NOx	7.1951	0.7195	5.6985		/	7.1951	0.7195	5.6985	240	4.4
	378.4842	37.8484	299.7595		98%	7.5697	0.7570	5.9950		

DA066	G7	139.1468	0.2783	2.2041	1.2523	0.0025	0.0198
DA067	G8	139.1468	0.2783	2.2041	1.2523	0.0025	0.0198
DA068	G9	103 3					

、 Ω0 I03- 3

		NMHC	**535.0909**	**42.8073**	**339.0336**	**10.7018**	**0.8561**	**6.7807**
			777.4754	**62.1980**	**492.6084**	**15.5495**	**1.2439**	**9.8522**
		[a]	**1.2×10^{-5}**	**9.3×10^{-6}**	**7.4×10^{-5}**	**9.3×10^{-7}**	**1.9×10^{-7}**	**1.5×10^{-6}**
			14.1282	1.4128	11.1895	4.2384	0.4238	3.3569
DA081	G22							

DA086	G27		116.8285	0.4673	3.7011	1.0515	0.0042	0.0333
DA087	G28		116.8285	0.4673	3.7011	1.0515	0.0042	0.0333
DA088	G29		116.8285	0.4673	3.7011	1.0515	0.0042	0.0333
			613.8452	**22.4707**	**177.968**	**24.2233**	**1.6981**	**13.4491**
		SO_2	**0.0142**	**0.0011**	**0.009**	**0.0142**	**0.0011**	**0.009**
		NOx	**0.5950**	**0.0476**	**0.377**	**0.5950**	**0.0476**	**0.377**
		NMHC	**433.1395**	**34.6512**	**274.4372**	**8.6628**	**0.6930**	**5.4887**
			777.4754	**62.1980**	**492.6084**	**15.5495**	**1.2439**	**9.8522**
		[a]	**1.2×10^{-5}**	**9.3×10^{-6}**	**7.4×10^{-5}**	**9.3×10^{-7}**	**1.9×10^{-7}**	**1.5×10^{-6}**
			279.3888	27.9389	221.2760	22.3259	2.2326	17.6822
		SO_2	0.1812	0.0181	0.1435	0.1812	0.0181	0.1435
DA089	G30	NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985
			378.4842	37.8484	299.7595	7.5697	0.7570	5.9952
		[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}
			279.3888	27.9389	221.2760	22.3259	2.2326	17.6822
		SO_2	0.1812	0.0181	0.1435	0.1812	0.0181	0.1435
DA090	G31	NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985
			378.4842	37.8484	299.7595			

		756.9684	**75.6968**	**599.519**	**15.1394**	**1.514**	**11.9904**
	[a]	**1.1×10^{-4}**	**1.1×10^{-5}**	**9.0×10^{-5}**	**2.4×10^{-7}**	**2.4×10^{-7}**	**1.9×10^{-6}**
		4669.6839	**117.4713**	**930.3745**	**139.656**	**9.9886**	**79.1124**
	SO_2	**226.4416**	**22.6436**	**179.3374**	**45.6012**	**4.5596**	**36.1114**
	NOx	**151.2106**	**15.0974**	**119.5702**	**151.2106**	**15.0974**	**119.5702**
	NMHC	**968.2304**	**77.4585**	**613.4708**	**19.3646**	**1.5491**	**12.2694**
		2311.9192	**200.0928**	**1584.7358**	**46.2384**	**4.0018**	**31.6948**
	[a]	**1.3×10^{-4}**	**3.0×10^{-5}**	**1.0×10^{-3}**	**2.1×10^{-6}**	**6.2×10^{-7}**	**4.9×10^{-6}**

3.4.2-51 **3**

	(kg/h)	**(t/a)**	**(kg/h)**	**(t/a)**
WG1	2.2266	17.6346	0.0002	0.0018
WG2	0.1447	1.1461	0.000014	0.0001
WG3	2.6714	21.1571	0.0027	0.0212
WG4	0.0067	0.0534	0.00000067	0.0000053
WG5	0.1244	0.9853	0.0001	0.0010

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WG13			0.1157	0.9161	0.000012	0.0001
			0.2314	**1.8322**	**0.000024**	**0.0002**
WG14			3.5280	27.9421	0.0004	0.0028
WG15			1.7617	13.9524	0.0002	0.0014
WG16			2.1138	16.7412	0.0021	0.0167
WG17			1.7613	13.9493	0.0002	0.0014
WG18			1.6348	12.9478	0.0016	0.0129
WG19			0.2394	1.8957	0.0002	0.0019
WG20			0.2394	1.8957	0.0002	0.0019
			11.2784	**89.3242**	**0.0049**	**0.039**
WG21			1.4140	11.1991	0.0001	0.0011
WG22			1.4139	11.1980	0.0001	0.0011
WG23			0.0919	0.7278	0.0000092	0.0001
			2.9198	**23.1249**	**0.0002092**	**0.0023**
WG24			0.0911	0.7216	0.0000091	0.000072
WG25			0.0903	0.7149	0.000009	0.000071
			0.1814	**1.4365**	**0.0000181**	**0.000143**
WG26			1.3885	10.9969	0.0001	0.0011
WG27			1.3884	10.9958	0.0001	0.0011
WG28			1.6659	13.1936	0.0017	0.0132
WG29			1.3881	10.9934	0.0001	0.0011
WG30			1.2628	10.0010	0.0001	0.0010
WG31			0.0751	0.5948	0.0001	0.0006
WG32			0.0751	0.5948	0.0001	0.0006

		7.2439	**57.3703**	**0.0023**	**0.0187**
		32.5274	**257.6139**	**0.0153**	**0.1226**

(DA093)

2 4t/h

6h

330 4000 30g

118.8t/a 3% 3.564t/a

(GB18483-2001)

3.4.2.2

1

8000m^3/h 3992m^3/h 11992m^3/h

160m^3/h+ 40m^3/h

79.84m^3/h+ 20m^3/h

3.4.2-54

(%)	**(m^3/h)**	**(m^3/h)**	**(m^3/d)**	**(m^3/a)**	**(%)**

			8000	**192000**	**63360000**		**160**	**3840**	**1267200**
3	80	10	24	576	190080	98%	0.48	11.52	3801.6
24	80	10	192	4608	1520640	98%	3.84	92.16	30412.8
24	80	15	288	6912	2280960	98%	5.76	138.24	45619.2
96	80	15	1152	27648	9123840				

3



2

8 1

4 1

30m^3

3 4 3.27m^3/d

1080m^3/a 1.82m^3/d 600m^3/a

5% 13.5m^3/d 4455m^3/a 7.5m^3/d

2475m^3/a

3

15840m^3/a

0.48m^3/d 158.4m^3/a

10% 4.80m^3/d 1584m^3/a

4

3.4.2-55 (m^3/a)

	1.2	
	60	
	6.5	
	504	

5

(DB53/T168-2019)

100L/(·d) 30L/(·d) 70L/(·d)

(1)

4000 300d 280m^3/d

90% 252m^3/d

(2)

120m^3/d 90%

108m^3/d

130m^3 432m^3

6

180000m^2

(DB53/T168-2019) 3L/(m^2·d) 540m^3/d

330d 180d 540m^3/d(97200m^3/a)

7

15min

$$q=700\times(1\quad 0.775\times\lg P)/(t+0)^{0.496}$$

Q=qF

q-- (/ ·)

P-- ( ) 5

t-- 60min

q 141.62L/s·hm^2 1200160m^2

50% 0.75 22946.07m^3/h

15min 5736.52m^3/

1 6000m^3

330d 180d 150d

900000m^3/a(2727.27m^3/d) 900000m^3/a(2727.27m^3/d)

3.4.2-56 (m^3/d)

		192000	4800	187200	3840	960	
		95808	2396.16	93411.84	1916.16	480	
		13.5	3.27	270	10.23	3.27	
		7.5	1.82	150	5.68	1.82	
		48	5.28	/	4.8	0.48	

	280	/	/	28	252	
	120	/	/	12	108	
( )	540	/	/	540	/	/
( )	/	/	2727.27	/	2727.27	

1

(2021 24)

3.4.2-57

(m^3/a)		**(mg/L)**	**(t/a)**	
118800	COD_{cr}	325	38.610	
	BOD_5	200	23.760	
		37.7	4.479	
		49.8	5.916	
		4.28	0.508	

2

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(GB/T 19923-2005) (

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3.4.2-58

(m^3/a)		**(mg/L)**	**(t/a)**	
477038.4	pH( )	6-7	/	
	COD_{cr}	500	238.5192	

	SS	300	143.1115	(GB/T 19923-2005)
	BOD_5	150	71.5558	(
		80	3.8164	)
		0.82	0.3912	
		8	3.8163	

3.4.2.3

(S1) (S2)

(S3) (S4) (S5) (S6) (S7)

(S8) (S9) (S10)

(2021) (15

(1)

4000 0.5kg/(· d)

660t/a

3.4.2-58

(t/a)

S4		T	HW11	309-001-11	4321.8877
S9		T/I	HW08	900-201-08	21.0
	4342.8877t/a				
S1	-	-	-	-	3333.1860
S2	-	-	-	-	6.0

3.4.2.4

65-85dB(A)

10-20dB(A)

3.4.3-59 dB(A)

( )

	1	**2**	**3**
/	8	/	75

			(kg/h)		
DA036			0.2821		1
DA081	SO_2		5.6513	ĭ ӄn	O

			4321.8877	
			21.0	
			3333.1860	
			6.0	
			118303.7900	
			4500.0	
			62209.0698	
			62209.0698	
			660.0	
			5.0	
			54.292	
			180.0	

3.7

3.7.1

“ ” 30%-40%

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3.7.2

3.7.3

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DCS

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DCS

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DCS DCS

1) DCS

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DCS

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3)

a.

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HG/T 20513-2014

DCS

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b.

c.

d.

e.

f.

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DCS

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([2013]3)

DCS

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GB/T19000 ISO9000

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DCS

HART (

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4-20mA DC

24VDC

220VDC

316

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(K S) (RTD Pt100)

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24VD.C

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pH

3.7.4

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30

3.8

3.8.1

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([2021]190)

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(1) “ ” ([2016]61)

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[2021]190 2021 10 19)

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(6) 10 (GB/T 32151.
10-2015)

3.8.2

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3.8-1

			91530181MA7MYLWH5E

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CO_2

CO_2

RTO 95.04 m^3

3 **CO_2**

372376.87 kWh/a

3.8.3

( )

( )

(

)

( )

1 **CO_2**

CO_2

$E_{CO_2} = \ddot{a}_{\text{å}\text{æ}\text{ç}}^{\text{ö}} \; 3 \; 3 \; 3 \frac{44}{12} \tilde{\text{õ}}_{\text{õ}}^{\text{ö}} \div$

GJ/ Nm^3

EF_i- i /GJ

3.8-2

	(Nm^3)	**(GJ/ GJ/Nm^3)**	**(tC/GJ)**	**(%)**	
	2266.4	389.31	15.3×10^{-3}	99	

CC =5.956443(tC/ m^3) E_{CO2-} =49003.847t

2。 2 ɣ u r K

(1)

(2) LED

0.9

0.9

(3)

(4)

(5) 2%

3%

(6)

(7)

(8)

(9)

(10)

(11)

3.8.5

2224751.183tCO_2

4

4.1

28km 102°8′-102°37′ 24°31′-25°6′
66.5km 46.4km 1301km^2 65%
35%

13km 32 171km^2

102°20′47.300″ 24°57′14.070″ 3.5km
320

1

4.2

4.2.1

1

66.5km 46.5km 1321km^2

2400m
1800-2100m 2617.7m
1690.2m 927.5m 1800m

-

2

3

2617.7

1680

1900-2000 <10°

500-1000 35°

“ V ”

1800-2200

4.2.2

1

11 4

1670 m^3

97km^2 42.9km^2

14.4km 1580 m^3

51.65km^2 12.2km 770 m^3

205km^2 3810 m^3

2

4.2.5

4 7 14 50

1700-2400

1800-2200

4.2.6

58.8% 76

23.3% 9.2

6 t 28-32%

4.3

4.3.1

4.3.1.1

CO 0.78(mg/m^3

NH_3		200	20-70	35.00	0.00	
H_2S		10	2-5	50.00	0.00	
NMHC		2000	390-790	39.50	0.00	
TVOC	8	600	83.8-110	18.33	0.00	
[a]		2.5×10^{-3}	1×10^{-7}L	/	/	

TSP NOx [a]

(GB3095-2012) NH_3 H_2S

TVOC (HJ2.2-2018) D

D.1 NMHC (

)

4.3.2

4.3.2.1

(2014) -

55.2km

(GB3838-2002)

2019 -

2018

2018 2018

2018

2020 -

2019

2019

2019

2021 - 2020

( ) ( )

( )

4.3.2-1 2019 -2021

	2019	**2020**	**2021**	

( ) ( )

(GB3838-2002) Ê2« « iXB"•XB"st5„"!¼Ÿ

Ê2«C

4.2-4 2020 12

	pH			**COD**	**BOD_5**																
		mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**MPN/L**
(mg/L)	8.04	7.3	0.06	37	5.0	1.38	0.39	5.07	0.004L	0.0003L	0.01L	0.005L	0.31	0.007	0.00004L	0.002L	0.0001L	0.002	0.05L	0.0004L	0.0016	/
	6-9	10	0.3	30	6	1.5	0.3	/	0.2	0.01	0.5	0.5	1.5	0.05	0.001	0.05	0.005	1.0	2.0	0.02	0.1	20000
				超标			**超标**	**/**														/
(mg/L)	8.37	6.2	0.1	24	6.9	2.06	0.26	6.78	0.004L	0.0011	0.01L	0.011	0.32	0.004L	0.00004L							

4.3.3

4.3.3.1

1

3 W1 W3

W1 W2 2022 8 9 -11

W3 ( )

(2021-2035) 1#

2

4.3.3-1

W1	E	102°20′30.97″		
	N	24°57′09.57″		
W2	E	102°20′47.04″	600m	
	N	24°57′51.94″		
W3	E	102°20′54.64″	900m	
	N	24°57′53.48″		

( )

(2021-2035) 1#

900m

2021 3 26 3

(HJ 610-2016)

3

W1 W2 pH

Cl^- SO_4^{2-} Na^+ K^+ Ca^{2+} Mg^{2+} CO_3^{2-} HCO^{3-}

W3 K^+ Na^+ Ca^{2+} Mg^{2+} CO_3^{2-} HCO^{3-} Cl^- SO_4^{2-} pH

47

4

W1 W2 2 1

W3 2 1

4.3.3.2

4.3.3-1 4.3.3-5

4.3.3-1 W1 mg/L

W1(ZK1)

2022.8.9 2022.8.10 2022.8.11

( )

	0.004L	0.004L	0.004L	≤0.05	
	5.1×10^{-4}	5.2×10^{-4}	5.2×10^{-4}	≤0.01	
	2.22	2.31	2.33	-	-
	51.2	51.2	51.1	-	-
	54.9	57.8	57.9	-	-
	36.4	36.5	36.4	-	-
				-	-
	368	376	378	-	-
	21.1	20.8	20.4	-	-
	41.0	40.3	40.2	-	-

4.3.3-2 W2 mg/L

	W2(ZK2)				
	2022.8.9	**2022.8.10**	**2022.8.11**		
( )	19.3	19.8	20.1	-	-
pH( )	7.4	7.5	7.5	6.5≤pH≤8.5	
	294	298	283	≤450	
	395	404	382	≤1000	
	21.9	21.0	22.8	≤250	
	4.9	5.6	5.8	≤250	
	0.03L	0.03L	0.03L	≤0.3	
	0.01L	0.01L	0.01L	≤0.10	
	3.9×10^{-4}	3.9×10^{-4}	3.8×10^{-4}	≤1.0	
	3.28×10^{-2}	3.25×10^{-2}	3.32×10^{-2}	≤1.0	
	0.002L	0.002L	0.002L	≤0.002	
	0.050L	0.050L	0.050L	≤0.3	
	1.00	0.98	1.04	≤3.0	
	0.06	0.04	0.04	≤0.50	
	0.02L	0.02L	0.02L	≤0.02	
(MPN/L)				≤3.0	
(/mL)	72	75	72	≤100	
	0.001	0.002	0.002	≤1.00	
	3.0	2.9	3.1	≤20.0	
	0.002L	0.002L	0.002L	≤0.05	
	0.08	0.07	0.08	≤1.0	
	1×10^{-4}L	1×10^{-4}L	1×10^{-4}L	≤0.001	
	4.1×10^{-4}	3.9×10^{-4}	4.0×10^{-4}	≤0.01	
	5×10^{-5}L	5×10^{-5}L	5×10^{-5}L	≤0.005	
	0.004L	0.004L	0.004L	≤0.05	
	9×10^{-5}L	9×10^{-5}L	9×10^{-5}L		

	2.19	2.13	2.10	-	-
	45.8	45.5	45.4	-	-
	59.7	58.7	57.8	-	-
	36.1	36.9	3.63	-	-
				-	-
	405	412	406	-	-
	9.62	9.38	8.82	-	-
	21.8	20.9	21.0	-	-

4.3.3-3 W3 mg/L

1#

	2021.3.26	**2021.3.27**		
pH ( )	7.41	7.43	6.5≤pH≤8.5	
( )	15.7	16.8	-	-
	6.1	6.0	≥5	
	356	391	≤100	

	0.010L	0.010L	≤0.01	
	0.001L	0.001L	≤0.005	
	0.05L	0.05L	≤0.02	
	0.03L	0.03L	≤0.3	
	0.01L	0.01L	≤0.1	
(μg/L)	1.4L	1.4L	≤10	
(μg/L)	1.4L	1.6	≤700	
(μg/L)	1.4L	1.4L	≤60	
(μg/L)	1.5L	1.5L	≤2.0	
	1.28	1.28	-	-
	15.6	15.6	-	-
	59.0	59.0	-	-
	31.9	31.8	-	-
	15.6	15.6	-	-
	62.3	62.4	-	-
	5L	5L	-	-
	258	263	-	-

W1 W2 W3

(GB/T14848-2017) III

S4 pH [a] 2

S5-S6 pH [a] 10

6 4 3

(S1-S3) 1 (S4) 2

(S5) (S6) 0-20cm 0-50cm

50-150cm 150-300cm

1

4.3.4-1 **S1** **mg/kg**

S1

/	**0-50cm**	**50-150cm**	**150-300cm**					
		2022 7 14						
	YNZKSC20220714007-S001	**YNZKSC20220714007-S002**	**YNZKSC20220714007-S003**					
pH( )	5.37	5.05	5.81	-	-	-	-	-
	12.8	17.3	13.5	60	140			
	0.14	0.20	0.09	65	172			
				5.7	78			
	37	33	39	18000	36000			
	177	232	203	800	2500			

1 1 2-	2.8	15
	2.8	20
1 2 3-	0.5	5
	0.43	4.3
	4	40
	270	1000
1 2-	560	560
1 4-	20	200
	28	280
	1290	1290
	1200	1200
-	570	570
	640	640
	76	760

	S2			S3			S4						
	0-50cm	50-150cm	150-300cm	0-50cm	50-150cm	150-300cm							
	2022 7 14												
pH( )	5.42	4.92	5.03	4.47	4.62	4.81	5.18	-	-	-	-	-	
[a]								1.5	15				

4.3.4-3 S5 S6 mg/kg

	S5			S6		
/	2022 7 14					
	YNZKSC20220714007-S011			YNZKSC20220714007-S012		
pH( )	5.32	pH≤5.5	-	6.13	5.5 pH≤6.5	-
	0.13	0.3		0.15	0.3	
	0.223	1.3		0.215	1.8	
	19.7	40		16.2	40	
	48	70		52	90	
	31	150		32	150	
	30	50		36	50	
	54	70		57	70	
	89	200		122	200	
[a]		0.55			0.55	

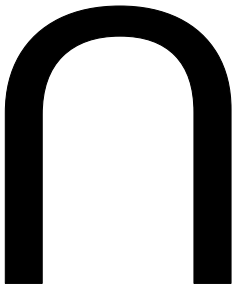
4.3.4-1 4.3.4-3 4 (3 1)

( ) (GB36600-2018) 2

(GB15618-2018)

4.3.5

4.3.5.1



2022 7 14

Leq dB(A)

6 N1-N4

N5-N6

2 2

(GB3096-2008)3

4.3.5.2 **4.3.5.2**

900-1000

“ ” “ ”

( ) 320

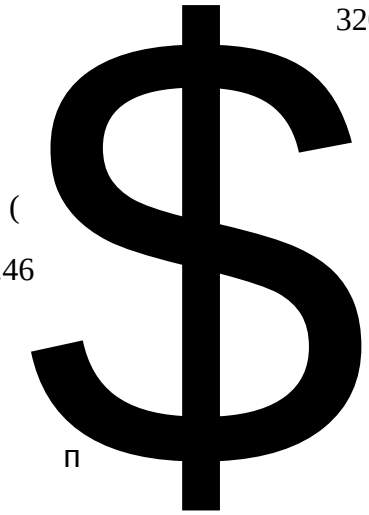
1

31.46 (

28.46

320 ( )

3 п





4.4.1-2 “ ”

		( )
1		1 2 → → (( )) 3 ( ) 4 ( ) 5
2		1 2 ( )
3		1 2 ( ) 3
-		

3 ( )

22

2

( )

4.4.1-3 ( )

( )

1

2

3

1

7

4.4.1-4

	( )

5 320

18 4 14

(

2021)

4.4.1-5 320

	( )
	( )

“ ”

( )

( ) “

” 320

1

(1)

@÷' Ð À

HÉ)ñ$!³Ob %Ú)ß v ² € ÐÒ]¢•ñ `0 `Ò @&B @ñPó Ä

1.3

m^3/d

1#

0.87 m^3/d

(0.14 m^3/d)

(8.0 m^3/d

) .

2)

3)

1

4)

4 1 2

1

(2)

1)

( ) 22.32 m^3/d

10.15 m^3/d

2 ( )

2.7 m^3/d

4.66 m^3/d(

3.82 m^3/d)

2)

2 0.4 $m^3/$ (

)

3)

4)

3

(3)

( )

1 9.57m^3/s

(4)

1

(1)

7 1 2

1 0.83 m^3/d

(1.0 m^3/d)

2 0.29 m^3/d 1# (

0.3 m^3/d)

1.65 m^3/d

(2.0 m^3/d)

0.75 m^3/d (

2.0 m^3/d)

0.91 m^3/d

(1.0 m^3/d)

3.71 m^3/d (

4.0 m^3/d)

1.85 m^3/d

(2.0 m^3/d)

4 3

3 3 4

(2)

3 7

(3)

d500-d1200

(GB/T 31962-2015)

A

2

(1)

d600

1

220kV			-	-				
220kV			-	-				
220kV			-	-				
220kV			-	-				
110kV			3×63	0.98				
110kV	1#		3×63	0.72				
110kV	2#		3×63	š 0.76	>		×	v š

110kV

100%

4

80%

4.4.2

30 /

(3)

(4) 2.5m

(5)

2

SO_2 NOx

CO

5.1.2

1

SS

38.35m^3/d

47m^3

2

600

30m^3/d 80% 24m^3/d

3/d7m ? d m x 3 3x 3x 24m 24m `

3

SS

5.1.3

(GB12523-2011)

70dB(A) 55dB(A)

5.1.3-1

5.1.3-1

		dB(A)
		85-95
		85-95
		70-80
		100-110
		90-95
		75-85
		70-80
		90-100
		90-100
		70-80

$$LA_{(r)} = LAref_{(ro)} - (A_{div} + A_{bar} + A_{atm} + A_{exc})$$

$LA_{(r)}$- r A dB(A)

$LAref_{(ro)}$- ro A dB(A)

A_{div}- A dB(A) Adiv=20lg(r/ro)

A_{bar}- A dB(A) 0

A_{atm}- A dB(A) Aatm=α(r/ro)/100 α 1.142

Aexc- A dB(A) Aexc=5lg(r/ro)

5.1.3-2

5.1.3-2 (dB(A))

300m

1

2

1800.24 **(**

6) ( )

(2021-2035) **(9)**

(M3)

3

2

1 ⁝ پ ÿ 80002 ÿ

4 ق

5

5.2

5.2.1

5.2.1.1

1

- (HJ2.2-2018)

2021

5.2.1-1

5.2.1-1

		(°)	**(°)**	**(km)**	**(m)**		
	(56863)	102.5E	24.92N	15.04	1893.4	2021	

χ `Ÿ Ψn

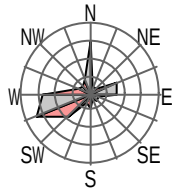
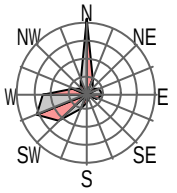
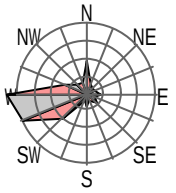
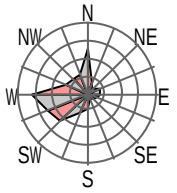
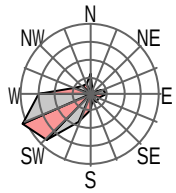
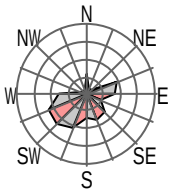
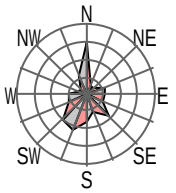
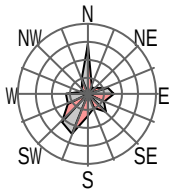
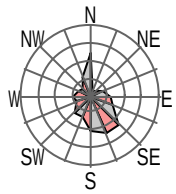
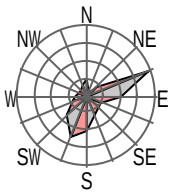
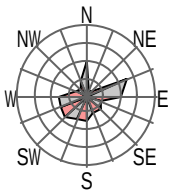
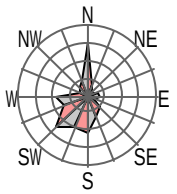
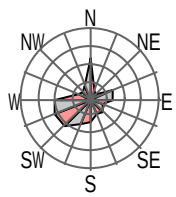
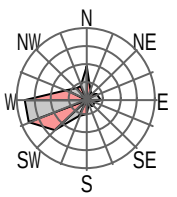
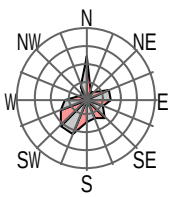
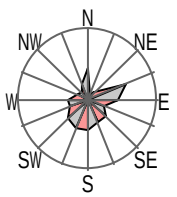
5.2.1-4 2020

5.2.1-5 2021

		m/s	**(%)**
	WSW	3.53	16.53
	N	1	21.13
	W	3.65	22.58
	W	3.36	15.69
	WSW	3.36	21.1
	SW	2.83	11.94
	N	1.18	15.05
	N	1.13	14.52
	N	0.92	12.36
	ENE	2.75	18.95
	ENE	2.72	12.36
	N	0.78	15.05
	WSW	3.47	17.71
	N	1.19	11.96
	ENE	2.67	11.77
	N	0.93	16.94
	N	1.01	11.75

N WSW

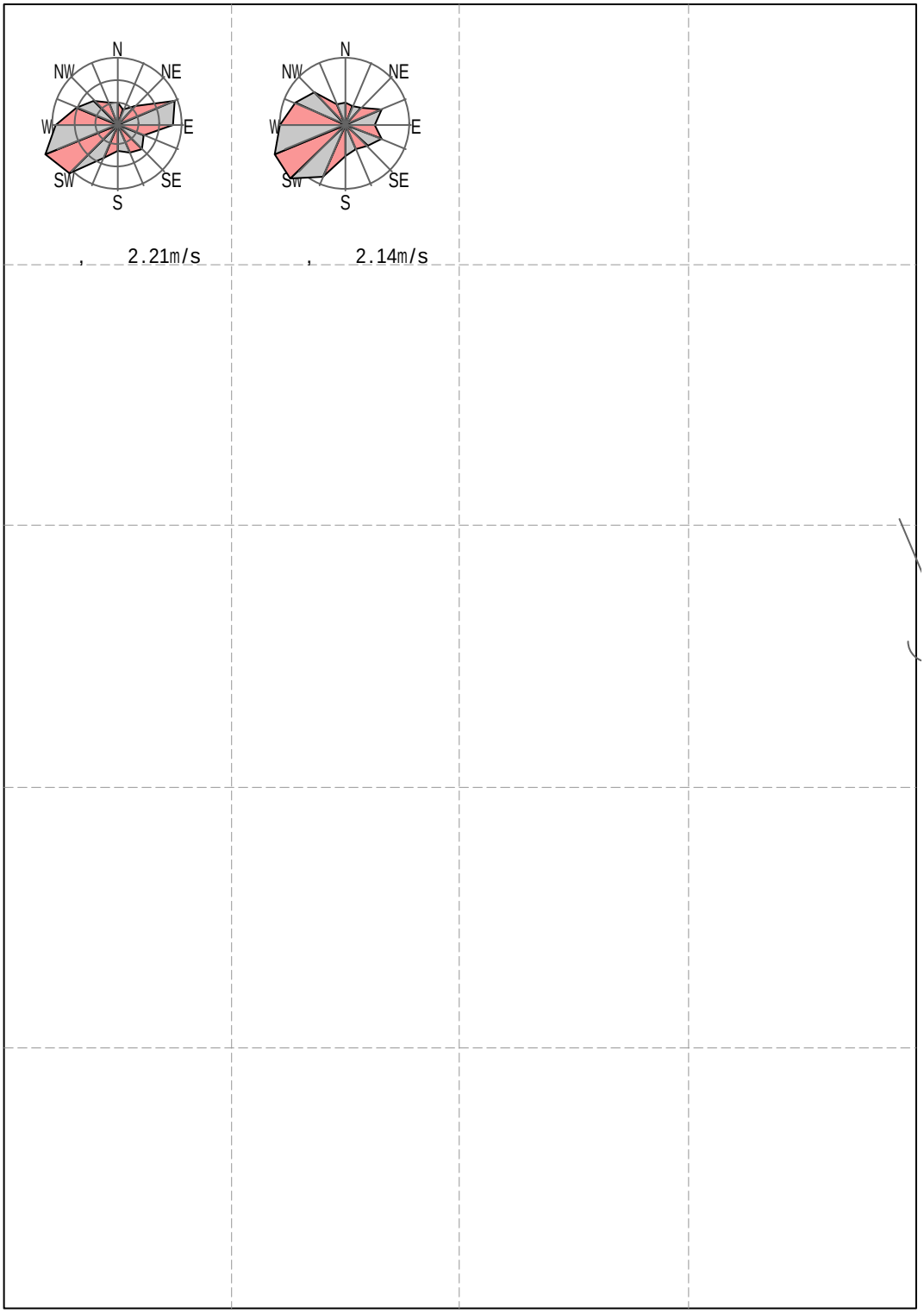
N ENE

 , 1.21%	 , 1.34%	 , 0.40%	 , 0.14%
 , 0.00%	 , 0.14%	 , 0.54%	 , 0.67%
 , 0.97%	 , 0.81%	 , 0.69%	 , 1.75%
 , 0.72%	 , 0.18%	 , 0.45%	 , 0.82%

1.52m/s 2.69m/s 1.85m/s

5.2.1-6 5.2-2

5.2.1-7 5.2-3 5.2.1-8 5.2-4



5.2-3 2021

5.2-4

5.2.1-6 2021

D

(B) 13.07%

5.2.1-11 2021 %

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
	15.36	2.93	1.76	2.9	3.02	2.07	1.7	1.26	3.5	1.79	2.84	4.68	4.93	1.72	1.88	4.01	3.52
	21.13	5.02	2.29	2.1	3.33	1.74	0.94	1.22	1.87	1.79	3.09	4.36	4.26	1.73	1.1	4.19	3.76
	8.79	2.86	1.46	0.83	3.19	1.78	1.49	1.59	1.77	0.9	2.72	5.37	6.19	1.97	1.55	2.58	2.82
	11.39	3.57	1.39	1.49	1.69	2	1.45	1.25	2.19	2	3.29	3.65	4.67	2.22	2.87	3.77	3.06
	5.12	0.99	0.57	1.27	2.54	1.48	1.36	0.87	1.49	3.06	4.93	6.28	4.5	1.92	1.49	2.03	2.49
	4.4	2.52	1.53	3.83	4.14	3.15	3.68	3.88	2.58	3.89	4.22	4.36	3.68	1.08	0.93	1.57	3.09
	12.75	2.79	1.72	2.52	3.14	3.08	4.39	2.38	2.93	3.86	3.48	2.55	2.65	2.07	1.77	3.69	3.49
	12.85	2.3	1.69	2.79	4.45	2.75	4.19	2.1	2.48	4.55	4.52	3.06	3.73	2.14	1.63	3.6	3.68
	13.43	2.04	1.66	1.81	4.18	4.42	6.01	5.35	5.34	3.51	3.51	2.11	3.79	2.59	2.7	5.73	4.26
	7	1.41	1.33	6.89	5.06	2.89	3.13	4.35	4.3	4.73	3.24	1.82	3.03	1.58	2.56	3.29	3.54
	11.44	1.49	1.56	4.54	5.19	3.1	3.66	4.1	5.45	3.86	2.81	2.74	2.83	2.03	2.12	4.44	3.84
	19.29	4.82	2.79	1.89	4.03	1.79	3.75	5.69	7.72	5.7	4.91	2.55	3.94	1.24	3.46	5.55	4.95
	8.39	2.46	1.12	1.18	2.35	1.74	1.38	1.18	1.78	1.97	3.65	5.1	5.11	1.99	1.95	2.75	2.76
	10.05	2.55	1.63	3.03	3.89	2.98	4.07	2.77	2.66	4.09	4.03	3.26	3.29	1.73	1.43	2.94	3.4
	10.49	1.61	1.34	4.41	4.71	3.46	4.18	4.31	4.83	3.92	3.08	2.15	2.77	2.06	2.42	4.44	3.76
	18.22	4.14	2.04	2.14	2.89	1.81	2.13	2.75	4.42	3.04	3.57	3.81	4.32	1.53	2.02	4.53	3.96
	11.63	2.66	1.43	2.67	3.45	2.5	2.9	2.65	3.24	3.2	3.53	3.5	3.66	1.63	1.81	3.48	3.37

5.2.1.2

1

121km^2 (0 0) 102.34488E

24.95313N

4

5.2.1-12

SO_2		20μg/m^3	60μg/m^3	(GB3095-2012)
	24	50μg/m^3	150μg/m^3	
	1	150μg/m^3	500μg/m^3	
NO_2		40μg/m^3	40μg/m^3	
	24	80μg/m^3	80μg/m^3	
	1	200μg/m^3	200μg/m^3	
PM_{10}		40μg/m^3	70μg/m^3	
	24	50μg/m^3	150μg/m^3	
TSP		80μg/m^3	200μg/m^3	
	24	120μg/m^3	300μg/m^3	
[a]	24	0.0025μg/m^3	0.0025μg/m^3	
		0.001μg/m^3	0.001μg/m^3	
	1	-	2000μg/m^3	
	1	-	63.7μg/m^3	

5

(1)

ف E ⅜ ﺝ ١ Ű

( )

1/2

6

5.2.1-13

5.2.1-14 5.2.1-15



DA072	59	220	1887	30	0.3	7.859503	25	0.0025	/	/	/	/	/
DA073	94	236	1886	30	0.3	7.859503	25	Ý 0Â-					

-129	304	1906	135	42	-54	12	0.0002
-79	334	1901	134	43	-54	12	0.0002
1	139	1892	88	54	-79	12	0.0002
-45	192	1893	127	36	-53	15	0.0078
3	221	1888	129	31	-50	15	0.0053
58	253	1882	128	36	-53	15	0.0079
23	93	1901	90	38	-61	23.8	0.00024
73	124	1901	89	39	-60	23.8	0.00024
128	757	1893	90	39	-61	23.8	0.00024
1	-296	1897	441	122	-52	25	0.0049
152	-204	1884	443	122	-52	25	0.0049
306	-119	1884	440	123	-52	25	0.0049
-203	-28	1920	140	21	67	15	0.0002
-77	48	1904	141	19	67	15	0.0002
498	-89	1887	152	39	73	15	0.0002
-230	17	1917	143	63	84	15	0.00002
-106	94	1900	141	65	85	15	0.00002

-DA018	-4	55	1902	30	1.3	16.74214	120	/	/	61.5373	62.1980	0.0000093
-DA036	-34	244	1884	30	0.3	7.859503	25	0.2821	/	/	/	/
-DA081	172	-45	1883	30	1.5	15.71901	120	/	5.6513	/	/	/

7

(HJ2.2-2018)8.7

(1)

(2)

(3)

1h

5.2.1-16

	+			
			1h	

8

(1)

EIAProA2018 srtm http //srtm.csi.cgiar.org/

EIAProA2018 DEM DEM

DEM

(HJ2.2-2018) 5.2.2-1

5.2.2-1

(2)

1 AERMET

5.2.1-17

				BOWEN	
1	0-360	(12 1 2)	0.5	0.5	0.5
2	0-360	(3 4 5)	0.12	0.3	1
3	0-360	(6 7 8)	0.12	0.2	1.3
4	0-360	(9 10 11)	0.12	0.4	0.8

(3)

(HJ2.2-2018)B.6.3.3

11km 11km B6.3.3

100m 8291 (26)

(4)NO_2

NO_2 2(ARM2) NO_2/NO_x

NO_x NO_2 ARM2 1 NO_x

NO_2/NO_x EPA

1 0.9 0.5

NO_2 NO_2 NO_x

5.2.1.3

26

5.2.1-18

/m

5.2.1-19 PM_{10}

			(µg/m^3)	(YYMMDDHH)	(µg/m^3)	%	
			3.80037	210716	150	2.53	
			0.70877		70	1.01	
			5.34215	210615	150	3.56	
			1.36337		70	1.95	
			5.40012	210330	150	3.6	
			0.81963		70	1.17	
			4.58621	210518	150	3.06	
			0.73834		70	1.05	
			2.85504	210315	150	1.9	
			0.46093		70	0.66	
			2.87041	210321	150	1.91	
			0.28195		70	0.4	
			2.32445	210723	150	1.55	
			0.30312		70	0.43	
			1.37373	210727	150	0.92	
			0.258		70	0.37	
			1.76721	211028	150	1.18	
			0.26101		70	0.37	
			1.0117	211205	150	0.67	
			0.18385		70	0.26	
			1.71983	211010	150	1.15	
			0.17981		70	0.26	
			0.85829	211120	150	0.57	
			0.13745		70	0.2	
			0.69198	211229	150	0.46	
			0.11931		70	0.17	
			1.24889	210613	150	0.83	
			0.12528		70	0.18	
			1.92738	210217	150	1.28	
			0.18668		70	0.27	
			1.46893	211028	150	0.98	
			0.20735		70	0.3	
			1.24221	211028	150	0.83	
			0.17571		70	0.25	
			0.91636	211218	150	0.61	
			0.12056		70	0.17	
			1.46249	211028	150	0.97	
			0.23981		70	0.34	
			1.71508	210702	150	1.14	
			0.25434		70	0.36	

95%	0.012787	210309	70	70.01279	150	46.68
95%	0.121033	210309	70	70.12103	150	46.75
95%	0.130096	211206	70	70.1301	150	46.75

5.2.1-1 PM_{10} 95%

5.2.1-2 PM_{10}

3

5.2.1-19

3.56%<100% 1.95%<30%

49.63%<100%

16.43%<30%

5.2.1-20 +

95% 47.23% 95%

61.23%

5.2.1-21 +

53.70%

68.19%

PM_{10}

<100% <30%

+

95%

	1.28315	210321	
	0.11023		
1	8.24461	21052607	5
	1.02495	210723	1
	0.14097		60
1	8.97097	21021909	500
	0.59751		

	0.1043		60	0.17
1	4.79669	21122709		

98%	0.0002	210206	13	13.0002	150	8.67
98%	0.000146	210206	13	13.00015	150	8.67
98%	0.000069	210206	13	13.00007	150	8.67
98%	0.026	210206	13	13.026		

5.2.1-22

1.79%<100% 1.74%<100%

0.82%<30%

39.15%<100% 24.78%<100%

8.97%<30%

5.2.1-23 +

98% 8.87% 98%

22.78%

5.2.1-24 +

13.08%

21.23%

SO_2

<100% <30%

+

98%

SO_2

5.2.1.6 NO_2

1

	1.20868		40	3.02
1	21.26817	21062407	200	10.63
	7.49561	210330	80	9.37
	1.16801		40	2.92
1	26.25514	21011210	200	13.13
	5.08062	210518	80	6.35
	0.73785		40	1.84
1	33.50891	21010509	200	16.75
	4.00118	210321	80	5
	0.35731		40	0.89
1	25.0681	21052607		

		1	17.96531	21012309	200	8.98	
			1.24058	211225	80	1.55	
			0.15376		40	0.38	
		1	17.37429	21122310	200	8.69	
			1.92991	211028	80	2.41	
			0.30854		40	0.77	
		1	15.08263	21122109	200	7.54	
			2.26682	210702	80	2.83	
			0.33013		40	0.83	
		1	14.91944	21122709	200	7.46	
			1.49966	210615	80	1.87	
			0.30836		40	0.77	
		1	18.00823	21080707	200	9	
			1.48647	210315	80	1.86	
			0.18584		40	0.46	
		1	13.97548	21072407	200	6.99	
			1.49134	210306	80	1.86	
			0.173		40	0.43	
		1	19.56072	21012309	200	9.78	
			1.48047	211225	80	1.85	
			0.16777		40	0.42	
		1	18.43252	21122310	200	9.22	
			2.14256	211028	80	2.68	
			0.33614		40	0.84	
		1	18.38039	21010109	200	9.19	
			2.31673	211028	80	2.9	
			0.37847		40	0.95	
	-692 -254	1	153.0967	21120806	200	76.55	
	8 -854		54.8344	210203	80	68.54	
	8 -754		10.2223		40	25.56	

5.2.1-26 NO_2 98%

-

(μg/m^3) (YYMMDDHH) (μg/m^3)

%	0.066366	210118	31	31.06637	80	38.83
%	1.117393	210116	30	31.11739	80	38.9
98%	0.005407	210118	31	31.00541	80	38.76
98%	0.030693	210118	31	31.03069	80	38.79
98%	0.002028	210118	31	31.00203	80	38.75
98%	0.007097	210118	31	31.0071	80	38.76
98%	0.000446	210118	31	31.00045	80	38.75
98%	0	210118	31	31	80	38.75
98%	1.025173	210116	30	31.02517	80	38.78
98%	0	210118	31	31	80	38.75
98%	0	210118	31	31	80	38.75
98%	0.000481	210118	31	31.00048	80	38.75
98%	0.005484	210118	31	31.00548	80	38.76
98%	0.047693	210118	31	31.04769	80	38.81
98%	0.275143	210128	8 31	31.3 Ŏ81		

0.15376	16.81096	16.96472	40	42.41
0.30854	16.81096	17.1195	40	42.8
0.33013	16.81096	17.14109	40	42.85
0.30836	16.81096	17.11932	40	42.8
0.18584	16.81096	16.9968	40	42.49
0.173	16.81096	16.98396	40	42.46
0.16777	16.81096	16.97873	40	42.45
0.33614	16.81096	17.1471	40	42.87
0.37847	16.81096	17.18943	40	42.97

5.2.1-6 NO_2

3

5.2.1-25

16.75%<100% 9.76%<100%

3.91%<30%

76.55%<100% 81.04%<100%

25.56%<30%

5.2.1-26 +

98% 40.48% 98%

83.96%

5.2.1-27 +

72.- %

NO_2

<100% <30%

+

98%

NO_2

5.2.1.7

1

5.2.1-28 +

5.2.1-29

5.2.1-28

(μg/m^3) (YYMMDDHH) (μg/m^3)

		1	2.95945	21122009	605	607.9595	2000	30.4	
		1	2.72838	21063007	605	607.7284	2000	30.39	
		1	3.08807	21062407	605	608.0881	2000	30.4	
		1	3.68312	21020809	605	608.6831	2000	30.43	
		1	4.217	21010509	605	609.217	2000	30.46	
		1	2.86348	21122311	605	607.8635	2000	30.39	
		1	3.37355	21072707	605	608.3735	2000	30.42	
		1	2.80195	21012309	605	607.8019	2000	30.39	
		1	3.14401	21021909	605	608.144	2000	30.41	
		1	2.36695	21042607	605	607.3669	2000	30.37	
		1	2.44632	21112008	605	607.4464	2000	30.37	
		1	1.83105	21071207	605	606.8311	2000	30.34	
		1	1.91718	21061304	605	606.9172	2000	30.35	
		1	2.15523	21021801	605	607.1552	2000	30.36	
		1	2.39268	21012309	605	607.3927	2000	30.37	
		1	2.06525	21012309	605	607.0652	2000	30.35	
		1	2.2305	21012309	605	607.2305	2000	30.36	
		1	2.09292	21010109	605	607.0929	2000	30.35	
		1	1.81753	21122109	605	606.8175	2000	30.34	
		1	1.82343	21122709	605	606.8234	2000	30.34	
		1	2.12323	21080707	605	607.1232	2000	30.36	
		1	1.46634	21052024	605	606.4664	2000	30.32	
		1	2.44195	21012309	605	607.442	2000	30.37	
		1	2.31501	21122310	605	607.315	2000	30.37	
		1	2.36901	21010109	605	607.369	2000	30.37	
	-592 -54	1	123.5178	21122524	605	728.5178	2000	36.43	

2

+

5.2.1-7

3

5.2.1-28

0.21%<100%

6.18%<100%

5.1.2-29 - +

30.46%

36.43%

<100%

+

NH_3

5.2.1.8

1

5.2.1-30

5.2.1-30

			(μg/m^3)	**(YYMMDDHH)**	**(μg/m^3)**	**%**	
		1	7.3399	21102409	63.7	11.52	

		1	6.46522	21122009	63.7	10.15	
		1	6.46354	21022618	63.7	10.15	
		1	7.38381	21062407	63.7	11.59	
		1	8.65366	21020809	63.7	13.59	
		1	9.97666	21010509	63.7	15.66	
		1	6.95467	21052607	63.7	10.92	
		1	8.14231	21122311	63.7	12.78	
		1	6.68197	21012309	63.7	10.49	
		1	7.68174	21021909	63.7	12.06	
		1	5.68813	21042607	63.7	8.93	
		1	5.86683	21112008	63.7	9.21	
		1	4.47206	21071207	63.7	7.02	
		1	5.64914	21061304	63.7	8.87	
		1	5.9828	21021801	63.7	9.39	
		1	5.81412	21012309	63.7	9.13	
		1	5.03402	21012309	63.7	7.9	
		1	5.47586	21012309	63.7	8.6	
		1	5.11133	21010109	63.7	8.02	
		1	4.46682	21122709	63.7	7.01	
		1	4.48688	21122709	63.7	7.04	
		1	5.1565	21122809	63.7	8.09	
		1	3.55182	21011210	63.7	5.58	
		1	5.99374	21012309	63.7	9.41	
		1	5.5461	21122310	63.7	8.71	
		1	5.72861	21010109	63.7	8.99	
	-592 146	1	22.3746	21120420	63.7	35.12	

2

5.2.1-8

3

5.2.1-30

15.66%<100%

35.12%<100%

<100%

5.2.1.9 [a]

1

+

5.2.1-31

5.2.1-31 [a]

-

	(μg/m^3)	**(YYMMDDHH)**	**(μg/m^3)**	**(μg/m^3)**	**(μg/m^3)**	**%( )**
1	0	/	0.00035	0.00035	0.0025	14

		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
		1	0	/	0.00035	0.00035	0.0025	14	
	-192 -754	1	0.00001	210203	0.00035	0.00036	0.0025	14.4	

2

\+ [a]

5.2.1-9 **[a]**

3

5.2.1-31 +

14%

14.4%

5.2 ‰ 0ʔ E ὃ

	1	14.33661	21021801	450	3.19
	1	14.87332	21012309	450	3.31
	1	12.86688	21012309	450	2.86
	1	14.09068	21012309	450	3.13
	1	12.83374	21010109	450	2.85
	1	11.43704	21122709	450	2.54
	1	11.55088	21122709	450	2.57
1	1	13.42311	21080707		

		1	8.06404	21010109	500	1.61	
	-92 -854	1	253.3717	21121603	500	50.67	

5.2.1-34

		(µg/m^3)	**(YYMMDDHH)**	**(µg/m^3)**	**%**
	1	52.08041	21071606	2000	2.6
	1	46.82627	21010318	2000	2.34
	1	37.77389	21063007	2000	1.89
1	1	42.38633	21062407	2000	2.12

1	55.09472	21020809	63.7	86.49
1	66.28941	21010509	63.7	104.07

		1	0.00001	21012309	0.0075	0.13	
		1	0	/	0.0075	0	
		1	0.00001	21012309	0.0075	0.13	
		1	0	/	0.0075	0	
		1	0	/	0.0075	0	
		1	0	/	0.0075	0	
		1	0	/	0.0075	0	
		1	0	/	0.0075	0	
		1	0.00001	21012309	0.0075	0.13	
		1	0.00001	21122310	0.0075	0.13	
		1	0.00001	21010109	0.0075	0.13	
	-592 -54	1	0.00033	21122524	0.0075	4.4	

5.2.1-32 5.2.1-36 PM_{10}

SO_2 [a]

5.2.1.11

50m 84

TSP SO_2 NO_2 [a]

5.2.1-37 TSP

				(μg/m³)	**(μg/m³)**	**(%)**	
	X	**Y**					
1	-409	395	1	0.99509	1000	0.10	
2	-370	426	1	6.3701	1000	0.64	
3	-330	457	1	6.02564	1000	0.60	
4	-291	488	1	5.35794	1000	0.54	
5	-251	519	1	6.82403	1000	0.68	
6	-215	547	1	6.0837	1000	0.61	
7	-177	515	1	5.9094	1000	0.59	
8	-172	510	1	6.27367	1000	0.63	
9	-131	482	1	9.98096	1000	1.00	
10	-113	469	1	10.99821	1000	1.10	
11	-108	457	1	9.79555	1000	0.98	

12	-62	437	1	7.41	000	0.74
13	-43	429	1	6.83	1	0.68
14	-30		1	4.97	0	0.50
15	15	404	1	1.00	1000	0.10
16	36	394	1	1.02	1000	0.10
17	77	365	1	1.22	1000	0.12
18	94	353	1	1.35	1000	0.14
19	132	320	1	1.38	1000	0.14
20	138	315	1	1.32	1000	0.13
21	181	286	1	1.37	1000	0.14
22	226	265	1	1.29	1000	0.13
23	257	250	1	1.19	1000	0.12
24	284	233	1	1.08	1000	0.11
25	328	208	1	0.99	1000	0.10
26	358	191	1	1.08	1000	0.11
27	403	168	1	1.09	1000	0.11
28	412	164	1	1.12	1000	0.11
29	422	157	1	1.13	1000	0.11
30	470					

56	51	-527	1	1.11901	1000	0.11	
57	19	-488	1	1.18511	1000	0.12	
58	-13	-450	1	1.27825	1000	0.13	
59	-24	-436	1	4.71583	1000	0.47	
60	-47	-392	1	2.81051	1000	0.28	
61	-55	-378	1	5.426	1000	0.54	
62	-105	-370	1	5.57986	1000	0.56	
63	-132	-328	1	5.31992	1000	0.53	
64	-159	-286	1	5.83175	1000	0.58	
65	-186	-243	1	2.02709	1000	0.20	
66	-213	-201	1	0.8063	1000	0.08	
67	-230	-174	1	3.2416	1000	0.32	
68	-210	-130	1	4.68865	1000	0.47	
69	-219	-110	1	4.01971	1000	0.40	
70	-222	-107	1	3.5295	1000	0.35	
71	-273	-92	1	0.65007	1000	0.07	
72	-296	-48	1	0.47596	1000	0.05	
73	-320	-4	1	0.38895	1000	0.04	
74	-343	40	1	0.46105	1000	0.05	
75	-348	50	1	0.47819	1000	0.05	
76	-325	95	1	0.56896	1000	0.06	
77	-315	115	1	0.59575	1000	0.06	
78	-352	148	1	4.30965	1000	0.43	
79	-387	179	1	0.49106	1000	0.05	
80	-381	228	1	1.24003	1000	0.12	
81	-376	276	1	0.82687	1000	0.08	
82	-390	324	1	0.52784	1000	0.05	
83	-404	372	1	1.40911	1000	0.14	
84	-411	396	1	0.9907	1000	0.10	

12	-62	437	1	11.11721	500	2.22
13	-43	429	1			

56	51	-527	1	21.01933	500	4.20
57	19	-488	1	9.62493	500	1.92
58	-13	-450	1	9.55204	500	1.91
59	-24	-436	1	9.38672	500	1.88
60	-47	-392	1	8.96524	500	1.79
61	-55	-378	1	9.16455	500	1.83
62	-105	-370	1	9.52871	500	1.91
63	-132	-328	1	9.63293	500	1.93
64	-159	-286	1	10.78597	500	2.16
65	-186	-243	1	11.74873	500	2.35
66	-213	-201	1	12.02074	500	2.40
67	-230	-174	1	12.74641	500	2.55
68	-210	-130	1	11.582	500	2.32
69	-219	-110	1	11.4768	500	2.30
70	-222	-107	1	11.52035	500	2.30
71	-273	-92	1	12.11857	500	2.42
72	-296	-48	1	10.75999	500	2.15
73	-320	-4	1	10.40654	500	2.08
74	-343	40	1	10.35728	500	2.07
75	-348	50	1	10.27663	500	2.06
76	-325	95	1	10.13965	500	2.03
77	-315	115	1	10.53083	500	2.11
78	-352	148	1	16.79119	500	3.36
79	-387	179	1	37.54639	500	7.51
80	-381	228	1	22.94805	500	4.5-h0

12	-62	437	1	31.0136	120	25.84	
13	-43	429	1	31.52932	120	26.27	
14	-30	426	1	31.69806	120	26.42	
15	15	404	1	31.83839	120	26.53	
16	36	394	1	31.72414	120	26.44	
17	77	365	1	31.18689	120	25.99	
18	94	353	1	30.65769	120	25.55	
19	132	320	1	29.3106	120	24.43	
20	138	315	1	29.64334	120	24.70	
21	181	286	1	31.86868	120	26.56	
22	226	265	1	33.77198	120	28.14	
23	257	250	1	34.27542	120	28.56	
24	284	233	1	34.82804	120	29.02	
25	328	208	1	35.88275	120	29.90	
26	358	191	1	35.59427	120	29.66	
27	403	168	1	34.27045	120	28.56	
28	412	164	1	34.6086	120	28.84	
29	422	157	1	34.71549	120	28.93	
30	470	141	1	34.93564	120	29.11	
31	480	137	1	34.69469	120	28.91	
32	523	112	1	32.78795	120	27.32	
33	534	105	1	32.92047	120	27.43	
34	567	68	1	32.10107	120	26.75	
35	601	30	1	32.02078	120	26.68	
36	624	4	1	31.65608	120	26.38	
37	648	-40	1	30.80715	120	25.67	
38	669	-80	1	30.74553	120	25.62	
39	680	-129	1	31.30407	120	26.09	
40	691	-177	1	32.9364	120	27.45	
41	693	-185	1	33.34923	120	27.79	
42	649	-209	1	32.35188	120	26.96	
43	605	-232	1	31.09731	120	25.91	
44	561	-256	1	30.78012	120	25.65	
45	516	-279	1	28.81162	120	24.01	
46	472	-303	1	28.06185	120	23.38	
47	428	-326	1	29.3104	120	24.43	
48	384	-350	1	28.10423	120	23.42	
49	340	-373	1	27.57154	120	22.98	
50	296	-397	1	27.27446	120	22.73	
51	251	-420	1	25.97648	120	21.65	
52	207	-444	1	26.96844	120	22.47	
53	163	-467	1	29.55867	120	24.63	
54	119	-491	1	33.00291	120	27.50	
55	75	-514	1	45.48227	120	37.90	

				6.08282			
56	51	-527	1	56.75089	120	47.29	
57	19	-488	1	27.13661	120	22.61	
58	-13	-450	1	26.99811	120	22.50	
59	-24	-436	1	26.38645	120	21.99	
60	-47	-392	1	24.65228	120	20.54	
61	-55	-378	1	25.29247	120	21.08	
62	-105	-370	1	26.42401	120	22.02	
63	-132	-328	1	27.3681	120	22.81	
64	-159	-286	1	30.37122	120	25.31	
65	-186	-243	1	32.923	120	27.44	
66	-213	-201	1	33.44052	120	27.87	
67	-230	-174	1	35.38306	120	29.49	
68	-210	-130	1	32.46199	120	27.05	
69	-219	-110	1	31.66159	120	26.38	
70	-222	-107	1	31.79794	120	26.50	
71	-273	-92	1	33.47335	120	27.89	
72	-296	-48	1	30.11667	120	25.10	
73	-320	-4	1	28.37304	120	23.64	
74	-343	40	1	28.95874	120	24.13	
75	-348	50	1	31.61573	120	26.35	
76	-325	95	1	27.39271	120	22.83	
77	-315	115	1	28.54501	120	23.79	
78	-352	148	1	56.47928	120	47.07	
79	-387	179	1	105.30493	120	87.75	
80	-381	228	1	69.87531	120	58.23	
81	-376	276	1	37.16025	120	30.97	
82	-390	324	1	30.81145	120	25.68	
83	-404	372	1	31.6821	120	26.40	
84	-411	396	1	32.56108	120	27.13	

5.2.1-40

	X	**Y**		**(μg/m^3)**	**(μg/m^3)**	**(%)**
1	-409	395	1	6.4005	4000	0.16
2	-370	426	1	6.54072	4000	0.16
3	-330	457	1	6.56909	4000	0.16
4	-291	488	1	6.34031	4000	0.16
5	-251	519	1	6.08282	4000	0.15
6						

12	-62	437	1	7.52352	4000	0.19
13	-43	429	1	7.53761	4000	0.19
14	-30	426	1	7.53756	4000	0.19
15	15	404	1	7.15377	4000	0.18
16	36	394	1	7.16863	4000	0.18
17	77	365	1			

12	-62	437	1	0	0.008	0.00
13	-43	429	1	0	0.008	0.00
14	-30	426	1	0	0.008	0.00
15	15	404	1	0	0.008	0.00
16	36	394	1	0	0.008	0.00
17	77	365	1	0	0.008	0.00
18	94	353	1	0	0.008	0.00
19	132	320	1	0	0.008	0.00
20	138	315	1	0	0.008	0.00
21	181	286	1	0	0.008	0.00
22	226	265	1	0	0.008	0.00
23	257	250	1	0	0.008	0.00
24	284	233	1	0	0.008	0.00
25	328	208	1	0	0.008	0.00
26	358	191	1	0	0.008	0.00
27	403	168	1	0	0.008	0.00
28	412	164	1	0	0.008	0.00
29	422	157	1	0	0.008	0.00
30	470	141	1	0	0.008	0.00
31	480	137	1	0	0.008	0.00
32	523	112	1	0	0.008	0.00
33	534	105	1	0	0.008	0.00
34	567	68	1	0	0.008	0.00
35	601	30	1	0	0.008	0.00
36	624	4	1	0	0.008	0.00
37	648	-40	1	0	0.008	0.00
38	669	-80	1	0	0.008	0.00
39	680	-129	1	0	0.008	0.00
40	691	-177	1	0	0.008	0.00
41	693	-185	1	0	0.008	0.00
42	1					

56	51	-527	1	0.00001	0.008	0.13
57	19	-488	1	0	0.008	0.00
58	-13	-450	1	0	0.008	0.00
59	-24	-436	1	0	0.008	0.00
60	-47	-392	1	0	0.008	0.00
61	-55	-378	1	0	0.008	0.00
62	-105	-370	1	0	0.008	0.00
63	-132	-328	1	0	0.008	0.00
64	-159	-286	1	0	0.008	0.00
65	-186	-243	1	0	0.008	0.00
66	-213	-201	1	0	0.008	0.00
67	-230	-174	1	0	0.008	0.00
68	-210	-130	1	0	0.008	0.00
69	-219	-110	1	0	0.008	0.00
70	-222	-107	1	0	0.008	0.00
71	-273	-92	1	0	0.008	0.00
72	-296	-48	1	0	0.008	0.00
73	-320	-4	1	0	0.008	0.00
74	-343	40	1	0	0.008	0.00
75	-348	50	1	0	0.008	0.00
76	-325	95	1	0	0.008	0.00
77	-315	115	1	0	0.008	0.00
78	-352	148	1	0.00001	0.008	0.13
79	-387	179	1	0.00001	0.008	0.13
80	-381	228	1	0.00001	0.008	0.13
81	-376	276	1	0.00001	0.008	0.13
82	-390	324	1	0	0.008	0.00
83	-404	372	1	0	0.008	0.00
84	-411	396	1	0	0.008	0.00

(HJ2.2-2018)8.8.5

50m

3km

50m

5.2.1-42

(x,y)

5.2.1-43

	5 (m/s)	**L(m)**								
		L≤1000			**1000<L≤2000**			**2000**		
A	<2	400	400	400	400	400	400	80	80	80
	2-4	700	470	350	700	470	350	380	250	190
	4	530	350	260	530	350	260	290	190	110
B	<2	0.01			0.015			0.015		
	2	0.021			0.036			0.036		
C	<2	1.85			1.79			1.79		
	2	1.85			1.77			1.77		
D	<2	0.78			0.78			0.57		
	2	0.84			0.84			0.76		

1.67m/s A=400

B=0.01 C=1.85 D=0.78

5.2.1-44

(m^2)

		16100	0.00002	0.9	0.00	50
		17940	0.00002	0.9	0.00	50
		43580	0.0046	0.9	0.10	50
		8400	0.0023	0.9	0.02	50

(GB/T39499-2020) (GB/T 3840-1991)

50m

50m

300m

5.2.1.13

1 PM_{10} SO_2 NO_2 [a]

P-- ( ) 5

t-- 60min

q 141.62L/s·hm^2 1200160m^2

(1)

130m^3 432m^3

5.2.2-2 (m^3/d)

	COD_{cr}	BOD_5			
	325	200	37.7	49.8	4.28
	≤350	≤100	≤27	≤40	≤10

2015 3 2016 1

2016 4 1 2016 7 1

360m^3/d (

) “ ”

2

(1)

1 100m^3/h

( )

(GB/T 19923-2005)

( )

5.2.2-1

(GB/T 19923-2005) ( )

(2)

100m^3/h

1445.57m^3/a

60.23m^3/h 6000m^3 10

600m^3/d 25m^3/h 85.23m^3/h

100m^3/h

(3)

160m^3/h+

40m^3/h 79.84m^3/h+ 20m^3/h

85.23m^3/h

5.2.2.4

(GB/T 19923-2005) ( )

1

2

3

4

6000m^3 6000m^3

5.2.2.5

(GB/T 19923-2005) ( )

5.2.3

5.2.3.1

5 55

T_3-J_1

T_3y

200km

70°-80°

-

- **(F155)**

50km 320°-330° 50°-70°

-

- **(F156)**

55km 35°

70°

- **(F56)**

170km 70° 85°

-

5.2.3-1

3

( )

-

(K) (J2)

(T_3-J_1) (T_3y) (P_1d)

(C_1d) (D_2h) (Є$_1$q)

(Z_bd) (Z_bn) (Z_ac)

(P_2β) (Pt_1e) (Pt_1m) (Pt_1hs)

(Pt1h) (βμ)

100m

50m

-

- - -

(3)

(P_1q+m) (C_2w) - (D_{2-3})

($Z_b$dn)

2

-

-

(1)

(27) (28)

$Z_b d$

(2)

(27) (29) (30) —

(3) —

(4)

(5)

3

1:20 -

(27) (28)

(29) (30)

(27)

(Z_bd)

1.8-2.0L/s·km^2 0.9-6.5L/s 12.8L/•Й, l’ **(4)** 2

44

:

(2) (Q^{el+dl})

:

20%

(3) ($Z_b$dn)

:

-

5.2.3-2

5.2.3-3 5.2.3-3

5.2.3-3

	(E)	**(N)**	**(m)**	**(m)**	**(m)**
zk1	102°20′37.02″	24°56′58.87″	1934.20	65.10	1.20

5.2.3-2


钻孔柱状图
第 1 页 共 1 页
和
水位日期
编号
成因
层底高程
(m)
层底深度
(m)
柱状图
1:350
样
击数
(击)
(1)1933.000
①
Q
1931.400
2.80
杂填土，紫红色、黄褐色，以黏性土为主，夹
杂有少量建筑垃圾，稍湿状态。
④
Z
dn
1869.100
65.10
42.10
图号 3-1
日期 2022.8

5.2.3-3 (zk1)

2

1#

(5)	**(6)zk1**

5.2.3-4

3

1# 2#

( )

5.2.3-5

5.2.3-5

5.2.3.4

1

30

1800.24 1700.19 703598

1251942

( )

(GB/T

19923-2005) ( )

(S1) (S2)

(S3) (S4) (S5) (S6) (S7)

(S8) (S9) (S10)

2

(1) Ď

-

( )

(5.2.3-5) COD(COD$_{Mn}$ O_2)

CODcr=500mg/L COD$_{Mn}$ 167mg/L 80mg/L

8mg/L

5.2.3-5

		(mg/L)	**(mg/L)**	
	COD	167	3	55.7
		80	0.5	160
	BOD_5	150	-	-
	SS	300	-	-
		0.82	0.2	4.1
		8	0.05	160
COD(COD$_{Mn}$ O_2)				

5.2.3.5

1

30

- (HJ610-2016)

2

(1)

zk1

(Q)

($Z_b$dn) ($Z_b$dn)

100 1 1000 5 10

-

(HJ610-2016)

$$\frac{}{_0} = \frac{1}{2}\left[\operatorname{erfc}\left(\frac{-}{2\sqrt{}}\right) + \frac{1}{2}\right] \quad \left[\operatorname{erfc}\left(\frac{+}{2\sqrt{}}\right)\right]$$

$$= \frac{^3}{n_e} \quad = \quad ^3$$

x (m) t (d) C t x (mg/L) C_0 (mg/L) u (m/d) D_L (m^2/d) erfc( ) Ç `

0.58m/d

(2002)

Zech (2015)

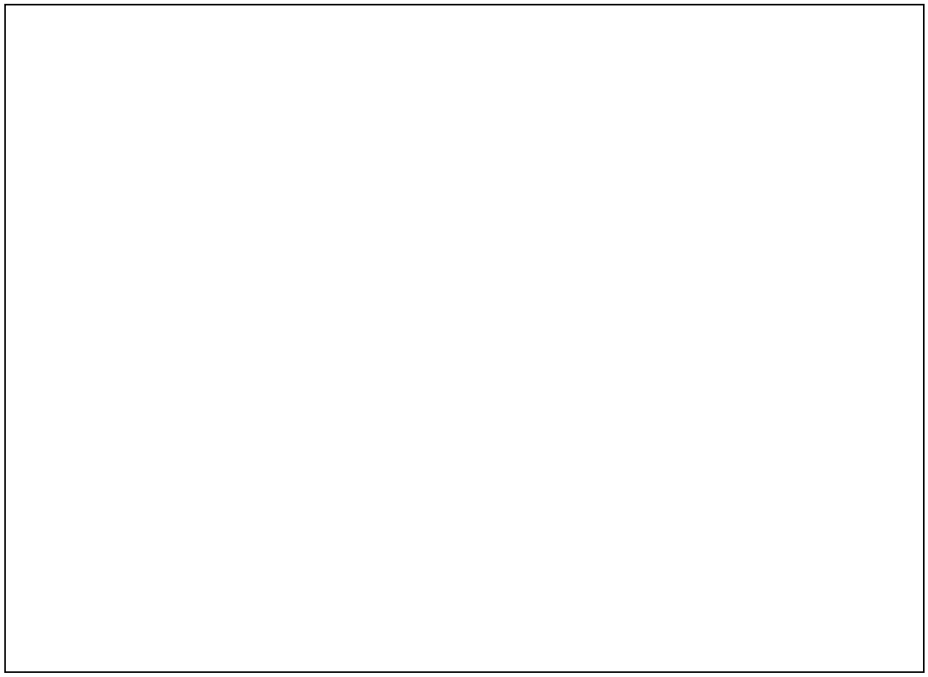
50

5.2.3-6

10m aL

10m

D_L 5.8m^2/d



5.2.3-6 (Zech 2015)

5.2.3-6

5.2.3-6

K(m/d)	**I**	**n_e**	**a_L(m)**	**u(m/d)**	**D_L (m^2/d)**	**C_0(mg/L)**		
								COD
1	0.058	0.1	10	0.58	5.8	80	8	167

(3)

100 1 1000 5 10

5.2.3-7 COD

5.2.3-8 5.2.3-9

5.2.3-7 COD

5.2.3-8 5.2.3-9

5.2.3-7 (mg/L)

100
(m)

5.2.3-8 COD (mg/L)

(m)	100	1	1000	5	10
1	166.8128709	166.9991813	167	167	167
10	164.1577457	166.9872917	166.9999997	167	167
135	2.871708405	153.1274827	166.9989222	167	167
240		63.97254012	166.9258196	166.9999994	167
355		2.976702056	164.7900876	166.9999458	167
550			107.8746548	166.9737105	167
814			2.972038342	160.4989205	167
1050				91.95791975	166.9999883
1372				2.994353778	166.9810332
1800					157.7598113
2558					2.974500861
	COD(COD_{Mn} O_2) 3.0mg/L				

5.2.3-8 COD

5.2.3-9 (mg/L)

(m)	100	1	1000	5	10
1	7.991035733	7.999960781	7.999999999	8	8
10	7.863844103	7.999391219	7.999999985	8	8
148	0.048584181	7.036435301	7.999906607	8	8
250		2.595657067	7.994991977	7.999999959	8
381		0.048823672	7.80550467	7.999993381	8

600			3.694731607	7.995435306	8
857			0.049169376	7.428045758	7.999999998
1150				2.289536762	7.999992772
1430				0.049827449	7.997334154
2000					5.856868442
2640					0.049574483
	0.05mg/L				

5.2.3-9

100 1 1000 5 10

148m 381m 857m 1430m 2640m COD

135m 355m 814m 1372m 2558m

148m 381m 857m 1430m 2640m

5.2.3.7

1#

2#

( ) 2#

1#

1# 2#

5.2.3.8

1

2.

- (HJ610-2016)

5.2.3-13

B

BC BC

/MCC

(1) - (HJ610-2016)

≥6m

≤1.0×10^{-7}cm/s

(2) - (HJ610-2016)

≥1.5m

≤1.0×10^{-7}cm/s

(3)

5.2.3-11

5.2.3-11

		≥ 6m ≤ 1.0 × 10^{-10}cm/s
		Mb≥6m K≤1.0×10^{-7}cm/s
	B BC BC	Mb≥1.5m K≤1.0×10^{-7}cm/s
	/MCC	

1

(zk1

b.

c.

5.2.3.9

1

(Q^{el+dl})

($Z_b$dn)

1# 2#

( )

2 2#

1#

1#

2#

3 30

- (HJ610-2016)

4 1 (zk2)

5.2.4

5.2.4.1

5.2.4-1

				/m			
			/dB(A)	X	Y	Z	/dB(A)
1	1	( )	75	474.75	326	1871.99	15
2	1	( )	85	457	306	1874.06	15
3	2	( )	85	457	302	1874.06	15
4	3	( )	85	462	298	1874.06	15
5	4	( )	85	462	292	1874.06	15
6	5	( )	85	463	282	1874.06	15
7	6	( )	85	464	280	1874.06	15
8	7	( )	85	464	276	1874.06	15
9	8	( )	85	464	273	1870.15	15
10	9	( )	85	488	305	1870.15	15
11	10	( )	85	488	301	1870.15	15
12	11	( )	85	488	294	1870.15	15
13	12	( )	85	488	289	1870.15	15
14	13	( )	85	488	282	1870.15	15
15	14	( )	85	487	273	1870.15	15
16	1	( )	80	486	260	1870.15	15
17	2	( )	80	487	255	1870.15	15
18	1	( )	80	460	233	1870.15	15
19	2	( )	80	460	228	1870.15	15
20	1	( )	85	464	228	1870.15	15
21		( )	85	482	230	1867.23	

23	2	( )	85	481	230	1867.23	15
24	1	( )	85	489	260	1864.77	

48				70		396.75	39.75	1873.39		15
49				70		473.25	39.5	1873.39		15
50				70		558	39.75	1873.39		15
51				70		72.25	-347	1873.39		15
52				70		302.5	-353.5	1873.39		15
53				70		531	-353.5	1855.58		15
54				70		72.5	-345.5	1855.58		15
55				70		302.75	-352	1855.58		15
56				70		531.25	-352	1855.52		15
57				65		72	-347.5	1855.52		15
58				65		303.25	-351.25	1855.52		15
59				65		532.5	-352	1855.52		15
60				75		72	-346.25	1855.52		15
61				75		303.25	-352.25	1855.52		15
62				75		532.25	-351	1855.52		15
63				85		303.75	-155.75	1855.52		15
64				85		532	-325.5	1855.52		15
65				85		302.75	-283.75	1855.52		15
66				70		64.5	-74	1855.52		15
67				70		303.75	-80	1855.52		15
68				70		531.5	-81.5	1855.52		15
69				75		73	-346.5	1855.52		15
70				75		303.5	-352.25	1855.52		15
71				75		531.5	-352	1855.52		15
72				75		73	-347.25	1855.52		15

73				75		303.5	-352.25	1855.52		15
74				75		531	-352.5	1855.52		15
75				65		302.75	-335.25	1855.52		15
76				65		302.75	-335.25	1855.52		15
77				65		532.25	-352.75	1855.52		15
78				75		73.25	186.75	1855.52		15
79				75		263.5	188	1855.52		15
80				75		762.75	-362.5	1855.52		15
81				85		75.25	187.5	1855.52		15
82				85		265.25	187.75	1855.52		15
83				85		764.25	-361.25	1855.52		15
84				70		60	99.5	1909.95		15
85				70		257.5	99.5	1855.52		15
86				70		759	-466	1855.52		15
87				75		760.25	-457.25	1855.52		15
88				75		258.5	108.5	1855.52		15
89				75		63.25	108	1855.52		15
90			( )	85		151	115	1855.52		15
91			( )	85		343	111	1855.52		15
92			( )	85		844	-450	1855.52		15
93				70		60.75	118.5	1855.52		15
94				70		259	119.5	1855.52		15
95				70		759	-447.5	1855.52		15
96				85		176.75	325.25	1855.52		15
97				85		728.5	-232.25	1855.52		15

98				70		173.75	326	1855.52		15
99				70		732.5	-232.25	1855.52		15
100				75		173.25	337.25	1855.52		15
101				75		725.25	-233	1855.52		15
102				75		725.25	-233.5	1855.52		15
103				75		162.5	339.75	1855.52		15
104				65		173	327.25	1855.52		15
105				65		762.75	-232.5	1855.52		15
106				65		698	-233	1855.52		15
107				65		60.75	108.75	1855.52		15
108				65		258.75	108.5	1855.52		15
109				65		760.75	-458.75	1855.52		15
110			( )	85		187	649	1913.59		15
111			( )	85		895	-431	1913.59		15
112		1	( )	85		340	502	1913.59		15
113		2	( )	85		339	517	1913.59		15
114		3	( )	85		341	531	1913.59		15
115		1	( )	85		310	-24	1872.57		15
116		2	( )	85		334	-25	1869.9		15

5.2.4.2

EIAProN2021 — (HJ2.4-2021)

Ver2.5

(A_{div}) (A_{atm}) (A_{gr})

(A_{bar}) (A_{misc})

a)

(A.1) (A.2)

( )= + -(+ + + +) (A.1)

( )- dB

(A) dB

C-

’ » dB

b) A $_{A}(\ )$ (A.3) 8

A $[\ _{A}(\ )]$

$$(\ ) = \sum_{i=} [\ (\ )]^{-D} \qquad \text{(A.3)}$$

$_{A}(\ )$- A dB(A)

$(\ )$- $(\ )$ dB

Δ - A dB

c) (A.4)

$$(\ ) = (\ ) - \qquad \text{(A.4)}$$

$_{A}(\ )$- A dB(A)

$_{A}(\ _{0})$- 0 A dB(A)

$_{div}$- dB

$$= \left(\frac{\quad}{\quad}\right)$$

$$= \frac{(\ - \ _{0})}{1000}$$

$$= 4.8 - \left(\frac{2}{\quad}\right)(17) + \left(\frac{300}{\quad}\right)$$

- m

m

d) A

A

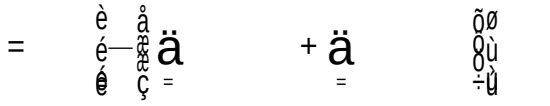
$$(\ ) = (\ _{0}) -$$

A 500Hz

i A L_{Ai} T

t_i j A L_{Aj} T

t_j (L_{eqg})



L_{eqg}- dB

T-

-

-t T Ωb ˘

-Ç

t Ωj ˘

5.2.4-1

(GB12348-2008)3

5.2.5

5.2.5.1

5

( ) (HJ964-2018)

5.2.5.2

1

(

) (HJ964-2018) A -

1200000m^2(120hm^2)

5.2.5-1



5.2.5-2

		a	
		b	
			5km
			1km
			2km
			0.2km
			1km
			0.05km
a b			

0.2km

5.2.5.3

( ) (HJ964-2018)

“ ”

1

SO_2 NO_x [a]

SO_2

[a] +

2

(GB/T 19923-2005) ( )

6000m^3

6000m^3

5.2.5-3

/	/	/	/
√	√	√	/

“ √ ”

(2)

( ) (2021-2035)

(9) (M3)

3

5.2.5-5

		S1		
		YNZKSC202207 14007-S001	**YNZKSC202207 14007-S002**	**YNZKSC202207 14007-S003**
		2022.7.14		
		E102°20′28.50″ N24°57′19.86″		
		0-50cm	**50-150cm**	**150-300cm**
		8%	5%	3%
	pH ( )			
	(cmol^{+}/kg)			
	(mV)			
	(mm/min)			
	(g/cm^{3})			
	(%)			

5.2.5-6

S2

YNZKSC202207 YNZKSC202207 YNZKSC202207

14007-S004 14007-S005 14007-S006

2022.7.14

E102°20′25.72″ N24°57′27.99″

0-50cm 50-150cm 150-300cm

7% 5% 4%

pH (

	(mm/min)			
	(g/cm^3)			
	(%)			

5.2.5-7

		S3		
		YNZKSC202207 14007-S007	**YNZKSC202207 14007-S008**	**YNZKSC202207 14007-S009**
		2022.7.14		
		E102°20′34.68″ N24°57′19.16″		
		0-50cm	**50-150cm**	**150-300cm**
		9%	6%	4%
	pH ( )			
	(cmol$^+$/kg)			
	(mV)			
	(mm/min)			
	(g/cm^3)			
	(%)			

5.2.5-8

		S4	**S5**	**S6**
		YNZKSC202207 14007-S010	**YNZKSC202207 14007-S011**	**YNZKSC202207 14007-S012**
		2022.7.14		
		E102°20′34.99″ N24°51′18.18″	**E102°20′31.28″ N24°57′17.20″**	**E102°20′31.69″ N24°57′27.01″**
		0-20cm	**0-20cm**	**0-20cm**
		7%	8%	6%
	pH ( )			
	(cmol$^+$/kg)			
	(mV)			
	(mm/min)			
	(g/cm^3)			
	(%)			

4

4.3.4 4

(3 1)

( ) (GB36600-2018)

2

(GB15618-2018)

5.2.5.5

[a]

6000m^3

6000m^3

(HJ 610-2016)

[a]

(4)

[a]

(5)

$$D = (- -) (r \ ^3 \ ^3)$$

S- g/kg

mmol/kg

Is- g

(HJ2.2-2018) AERMOD [a]

7.4×10^{-7}ug/m^3

mmol

Ls- g

mmol

Rs- g

mmol

A- m^2

ρb- kg/m^3

D- 0.2m

n- a

E

$$D = \left(r^{3} \quad ^{3} \right)$$

$$= \quad + D$$

S_b- g/kg

S- g/kg

(6)

221.4hm^2( )

2

(1)

a.

+

+

b.

“ +RTO

”

c.

“ + ”

( ) ( ) ( )

( ) SO_2 NO_x [a]

(GB 16297-1996) 2 ( )

( ) ( ) ( ) ( )

(GB 9078-1996)

2 3 4

3

4

(HJ 610-2016)

5.2.8.3

5.2.5.7

ك طى

		/	180.0	

3

5.2.6.4

1 (GB18597-2001)
2013
(GB18599-2020)
2
3

1

(GB18597-2001)
2013

2

(1)

(2)
(3)

(GB18597-2001) 2013

1

2

4

(

)

6

6.1

(HJ169-2018)

6.2

6.2-1

6.1-1

6.3

6.3.1

(

) ( )

( )

CO CH_4 CO

2%-74.2%

CO

CO

CO CH_4

CO_2 H_2O

( )

(2018)

(GB18218-2018) (HJ 169-2018) B

CO CH_4 SO_2 (

)

6.3.2

(HJ 169-2018) B

CO CH_4 SO_2 (

)

B

Q

Q

(1) (Q)

$$= \frac{1}{1} + \frac{2}{2} + \cdots \frac{}{} \quad (1)$$

q_1 q_2 … q_n-- t

Q_1 Q_2 … Q_n-- t

Q 1 I

Q≥1 Q (1)1≤Q 10 (2)10≤Q 100 (3)Q≥100

(HJ 169-2018) B

6.3.2-1

		CAS	Q(t)	q(t)	q/Q
1		7647-01-0	7.5	1.537	0.2049
2		7664-93-9	10	0.202	0.0202
3		7697-37-2	50	0.824	0.0165
4		67-64-1	10	0.052	0.0052
5		7722-84-1	100	0.226	0.0023
6		64-17-5	50	5	0.1
7		1310-73-2	50	10	0.2
8	CO	630-08-0	7.5	/	/
9	CH_4	74-82-8	10	/	/
10	SO_2	7446-09-5	2.5	/	/
11		8006-14-2	10	/	/
12		/	2500	10	0.004
13		/	2500	200	0.08
					0.6331

Q=0.6331 1 I

6.3.3

(HJ 169-2018)

6.5.2-1

6.3.3-1

	IV IV+	III	II	I
				*
*				

6.4

6.5

6.5.1

“ ”

CO CH_4 SO_2

( )

6.5.1-1

LD50900mg/kg( ) LC503124ppm
( )
1 ( )

1 -27.32 110 1.
( )
18g/cm^3 CAS
7647-01-0

LD502140mg/kg( )
H_2SO_4 98.3%
LC50510mg/m^3 2 ( ) 320mg/m^3 2
1.84g·cm^{-3} 18.4mol
( ) ( ) (
•L^{-1} 98.3% 10 338
2)

“
”

CAS

67-64-1

-0.41 150.2 LD50 4060mg/kg( ) LC502000mg/m 4

(=1) 1.4067(25) ( )

5

CAS 7722-84-

1

LD50 7060mg/kg( ) 7430mg/kg(

7070202 () 50

)

-114.1

78.3 (=1) 0.79

6

CAS 64-17-5

9	CH_4	-182.5 -161.5 (=1) 0.42/-164 CAS 74-82-8		25 30
10	SO_2	-75.5 - 10 2.26kg/m^3 CAS 7446-09-5	LC50:6600mg/m^3 1 ( )	
11		0.7174kg/m^3 -188 -161.5 CAS 8006-14-2		
12				A D K A D E K

6.5.2

1

CO CH_4

2

3

(1)

1)

2)

3)

(2)

4

(1)

(RTO

)

SO_2

SO_2

(2)

(3)

6.5.3

6.5.3-1

1					
2					

3					

6.6

1

3

(1)

1)

(HJ 610-2016)

2)

(2)

1)

2)

3)

4)

5) (6000m^3) (6000m^3)

4

6.7.2

1

1)

2)

2

(CaO) ($CaCO_3$) ($NaHCO_3$)

(

)

3

(1)

1) (6000m^3)

2)

.

(2)

1)

2)

6.7

10

11

12 c c

	6000m^3 (6000m^3)
( ) Q 0.6331 1 (HJ 169-2018) B Q 1	

7

7.1

≥320.0mAh/g

(2019)

40

(2020) “ ” “ 43.

”

(2022)

2022 06 08 (

2206-530181-04-01-589732)**(2)**

7.2 “ ”

([2018]17) “ ”

(1)

2022 6 14

30

(4) “ ”

(2)

4.3

(3)

(4)

7.2-1

“ ”

“ ”

7.2.1 “ ”

“ ” (

[2020]29) 1164

3

“ ”

“ ”

		1. 2. 100% 3. 4. 100% 100% ≥90% ≥70%		
		1. 2.		
		1. 20% 75% ≥95% ≥65% 2. 100%		

7.3

7.3.1

(2021 37)

7.3-1

( )

“ ” “

”

( )

“ ”

“ ”

( )

( )

( )

10ppb (GB/T24533-2019)

( )

( )

}

	( )		
	( ) “ ”	“ ”	
	( )		
	( ) (GB 12348)		
	( )		
	( ) “ ” (GB 18599)		

7.3.3 2025

2015 5 8 2025 ([2015]28)

2025

“ ( ) ”

(3D)

“ ( ) ”

“ ( ) ”

“ ”

	(VOCs)		
4	(5) ( )		
5	“ ”( )		

([2019]56

)

7.3.6

2021 5 31

([2021]45)

(

“ ”) “ ”

7.3.9 (2022)

2022 1 19

(2022)

(2022)

7.3.9-1 (2022)

(

2	3 1		
3			
4			
5	—		
6			
7			

“

”

7.3.11

1

“

“

(1)

(2)

6 **(3)**

(4)

(5)

(6)

(7)

2

“ ”

7.3.12

1

( )5 ( )19

( )65 III1-6

7.3.12-1

III
III1
III1-6

7.3.13

2018 6 29 “ [2018]32 ”

1

(1)

11.84 30.90%

(2)

“ ” -

“ ”

(3)

11

( )

5 3.54

29.90%

( ) -

4 0.86

7.26%

( )

5 1.68

14.19%

( ) -

0.33 2.79%

-

( )

5 0.57

4.81%

—

( )

5 1.45

12.25%

( )

2 0.32

2.70%

( )

4 1.07

9.04%

( )

4 0.87

7.35%

( ) -

3 0.73

6.17%

( ) ( )

( ) 3

0.42 3.55%

2

2022 6 14

30

(4) “ ”

7.3.14 “ ”

1 “ ”

“ ” “

” “ ”

“ ” “ 1

”

2 “ ”

30

(

3

7.4.2-1

( )

( )
(2021-2035)

( )

(2016-2030)

è ¾

ʕ 30 ضد 0 لا ،

1800.24

( )

220kv 10kv

F ή I Ŭ Ïñ ¶9—F

100%

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p 7 7 ʜ u

8

8.1

1

(1) 2.5 (
)

(2)

(3)

(4)

(5)

(6)

(7)

2

(1)

(2)

(3)

(4)

(5)

1.5m 0.6m 1.5m

3

(1)

(2)

(3)

(4)

4

(1)

(2)

(58)

([2011]88

)

5

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

8.2

8.2.3

1

2

3

4

5

6

7

8.2.5

(2) (GB50016-2014) 3.3.1 “

3000m^2 ”

(3) (GB50016-2014) 3.8.1 “

2

5m ”

(4) (GB50016-2014) 3.7.2 “

2 ”

(5) (GB50016-2014) 3.7.4 “

3.7.4 25m ”

(6) (GB50016-2014) 3.8.2 “

300m^2 2 ”

(7) (GB50016-2014) 6.4.11 “

”

(8) (GB50223-2008) 7.2.6 “

” 3.0.3 “

”

6

(9) (GB50016-2014) 3.3.6 “

”

(10) (GB50016-2014) 3.6.6 “

”

(11)

(GB7231) ”

(6) (HG20571-2014) 4.1.10

4.1.11 “

”

(7) (HG20571-2014) 5.6.2

(7)

”

(14) (HG/T 20546-2009) 8.2.1

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(22) (GB17914-2013) 4.2.1

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	NO_X			(GB13271 -2014) 2
	SO_2		1 /	
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	SO_2 NO_X			(GB 16297-1996) 2
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	[a]		1 /	
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1				12 +12	( ) ( ) ( ) ( ) SO_2 NOx [a] (GB 16297-1996) 2 ( ) ( ) ( ) ( ) (GB 9078-1996) 2 3 4 **90% 99% 99% 99% 99.9%**
2				2 +2	
3				12 +12	
4				9 +9 +9 30m 8 +8 +8 30m 57 +57 84	
5				2 +2 +2 30m 9 +9 +9 30m 26 +26 44	
6				9 +9 +9 30m 8 +8 +8 30m 57 +57 84	
7			SO_2 NOx NMHC [a]	+RTO +30m 28 +28	
8			SO_2 NOx NMHC [a]	+RTO +30m 28 +28	
9			SO_2 NOx NMHC [a]	+RTO +30m 28 +28	
10			SO_2 NOx	4 +4 +4 30m 88 +88 112	
11			SO_2 NOx	4 +4 +4 30m	

					3		+3		+3	30m
				88		+88		112		
					4		+4			+4
12		SO_2 NOx	30m		3		+3		+3	30m
				88		+88		112		
13		SO_2 NOx NMHC [a]						+RTO		+30m
						3		+3		+3 30m
14						3		+3		+3 30m
					30		+30			
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							+RTO		+30m	
15		SO_2 NOx NMHC [a]			3		+3		+3	30m
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		(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**		
DA009		103.6862	0.1037	0.8212	0.9332	0.0009	0.0074	+	+30m
DA010		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA011		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA012		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA013		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA014		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA015		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA016		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA017		137.2277	0.2745	2.1737	1.2350	0.0025	0.0196	+	+30m
DA018		331.5521	26.5242	210.0714	26.5242	2.1219	16.8057	+RTO	+30m
	SO_2	0.0142	0.0011	0.009	0.0142	0.0011	0.009		
	NOx	0.5950	0.0476	0.377	0.5950	0.0476	0.377		
	NMHC	769.2161	61.5373	487.3753	15.3843	1.2307	9.7475		
		777.4754	62.1980	492.6084	15.5495	1.2439	9.8522		
	[a]	1.2×10^{-5}	9.3×10^{-6}	7.4×10^{-5}	9.3×10^{-7}	1.9×10^{-7}	1.5×10^{-6}		
DA019		147.1151	0.5885	4.6606	1.3240				

		(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**
	SO_2						

		(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**		/
		279.0746	27.9075	221.0271	22.3259	2.2326	17.6822		
	SO_2	0.1812	0.0181	0.1435	0.1812	0.0181	0.1435		
DA031	NOx	7.1951	0.7195	5.6985	7.1951			+RTO	+30m

		(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**		/
		777.4754	62.1980	492.6084	15.5495	1.2439	9.8522		
	[a]	1.2×10^{-5}	9.3×10^{-6}	7.4×10^{-5}	9.3×10^{-7}	1.9×10^{-7}	1.5×10^{-6}		
DA046		147.1929	0.5888	4.6631	1.3247	0.0053	0.0420	+	+30m
DA047		147.1929	0.5888	4.6631	1.3247	0.0053	0.0420	+	+30m
DA048		147.1929	0.5888	4.6631	1.3247	0.0053	0.0420	+	+30m
		14.1277	1.4128	11.1891	4.2383	0.4238	3.3567		
DA049	SO_2	56.5107	5.6511	44.7565	11.3021	1.1302	8.9513	+	+30m
	NOx	33.9064	3.3906	26.8539	33.9064	3.3906	26.8539		
		14.1277	1.4128	11.1891	4.2383	0.4238	3.3567		
DA050	SO_2	56.5107	5.6511	44.7565	11.3021	1.1302	8.9513	+	+30m
	NOx	33.9064	3.3906	26.8539	33.9064				

				(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**	/
			NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985	
				378.6549	37.8655	299.8947	7.5731	0.7573	5.9979	
			[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}	
		DA057		279.5146	27.9515	221.3756	22.3612	2.2361	17.7100	+RTO +30m
			SO_2	0.1812	0.0181	0.1435	0.1812	0.0181	0.1435	
			NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985	
				378.6549	37.8655	299.8947	7.5731	0.7573	5.9979	
			[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}	
		DA058		173.7158	0.6949	5.5033	1.5634	0.0063	0.0495	+ +30m
		DA059		173.7158	0.6949	5.5033	1.5634	0.0063	0.0495	+ +30m
		DA060		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA061		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA062		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA063		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA064		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA065		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA066		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA067		139.1468	0.2783	2.2041	1.2523	0.0025	0.0198	+ +30m
		DA068		103.6862	0.1037	0.8212	0.9332	0.0009	0.0074	+ +30m
		DA069		139.1153	0.2782	2.2036	1.2520	0.0025	0.0198	+ +30m
		DA070		139.1153	0.2782	2.2036	1.2520	0.0025	0.0198	+ +30m
		DA071		139.1153	0.2782	2.2036	1.2520	0.0025	0.0198	+ +30m

		(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**		/	
	NOx	33.9076	3.3908	26.8548	33.9076	3.3908	26.8548			
		14.1282	1.4128	11.1895	4.2384	0.4238	3.3569			
DA084	SO_2	56.5127	5.6513	44.7581	11.3026	1.1303	8.9516		+	+30m
	NOx	33.9076	3.3908	26.8548	33.9076	3.3908	26.8548			
		263.3597	21.0688	166.8647	21.0688	1.6855	13.3492			
	SO_2	0.0142	0.0011	0.009	0.0142	0.0011	0.009			
DA085	NOx	0.5950	0.0476	0.377	0.5950	0.0476	0.377	+RTO	+30m	
	NMHC	433.1395	34.6512	274.4372	8.6628	0.6930	5.4887			
		777.4754	62.1980	492.6084	15.5495	1.2439	9.8522			
	[a]	1.2×10^{-5}	9.3×10^{-6}	7.4×10^{-5}	9.3×10^{-7}	1.9×10^{-7}	1.5×10^{-6}			
DA085		116.8285	0.4673	3.7011	1.0515	0.0042	0.0333	+	+30m	
DA086		116.8285	0.4673	3.7011	1.0515	0.0042	0.0333	+	+30m	
DA087		116.8285	0.4673	3.7011	1.0515	0.0042	0.0333	+	+30m	
		279.3888	27.9389	221.2760	22.3259	2.2326	17.6822			
	SO_2	0.1812	0.0181	0.1435	0.1812	0.0181	0.1435			
DA089	NOx	7.1951	0.7195	5.6985	7.1951	0.7195	5.6985	+RTO	+30m	
		378.4842	37.8484	299.7595	7.5697	0.7570	5.9952			
	[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}			

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				(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**
			[a]	5.7×10^{-5}	5.7×10^{-6}	4.5×10^{-5}	1.2×10^{-7}	1.2×10^{-7}	9.4×10^{-7}	
		DA091		173.5796	0.6943	5.4990	1.5622	0.0062	0.0495	+ +30m
		DA092		173.5796	0.6943	5.4990	1.5622	0.0062	0.0495	+ +30m
		DA093		11.137	0.073	0.144	11.137	0.073	0.144	28m
			SO_2	3.712	0.024	0.048	3.712	0.024	0.048	
			NOx	147.261	0.962	1.904	147.261	0.962	1.904	
	1 ( ) ( ) ( ) ( ) SO_2 NO_x [a] (GB 16297-1996) 2 2 ( ) ( ) ( ) ( ) ( ) (GB 9078-1996)									
				/	2.1964	17.3953	/	0.0002	0.0017	12 +12
				/	2.2568	17.8738	/	0.0002	0.0018	2 +2
				/	2.2266	17.6346	/	0.0002	0.0018	12 +12
				/	10.5359	83.4443	/	0.0078	0.0615	57 +57 84
				/	8.0614	63.8463	/	0.0052	0.0413	26 +26 44
				/	10.6728	84.5258	/	0.0079	0.0622	57 +57 84
				/	0.2314	1.8332	/	0.000024	0.0002	28 +28
				/	0.2312	1.8306	/	0.000024	0.0002	28 +28
				/	0.2314	1.8322	/	0.000024	0.0002	28 +28

(mg/m³)	**(kg/h)**	**(t/a)**	**(mg/m³)**	**(kg/h)**	**(t/a)**		**/**
/	11.2720	89.2739	/	0.0049	0.0390	88	+88 112
/	22.2776	89.3192	/	0.0049	0.0390	88	+88 112
/	11.2784	89.3242	/	0.0049	0.0390	88	+88 112
/	2.9194	23.1216	/	0.0002	0.00 !		

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