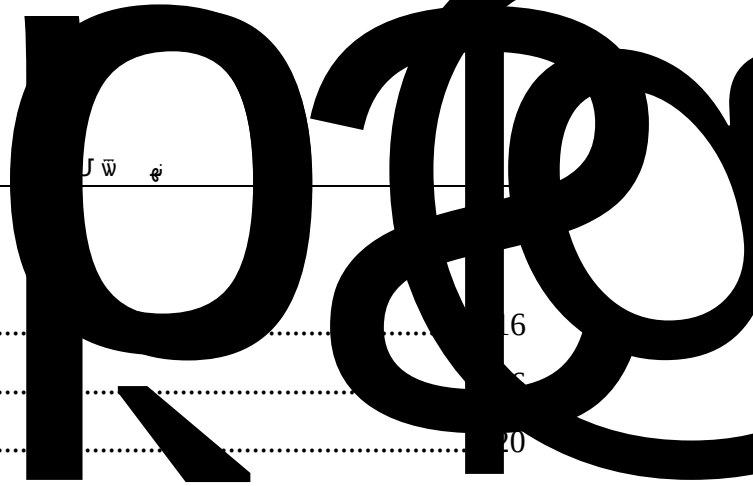

5.1 16
5.2 .....
5.3 20
5.4 122
5.5 143

6.1 144
6.2 227
6.3 231
6.4 235
6.5 237
6.6 243
6.7 248
6.8 254
6.9 255
6.10 255

7.1 257
7.2 257

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9.3 280
9.4 283
9.5 285
9.6 285
9.7 287
9.8 289

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2412-330502-07-02-384079

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H_2S NH_3

H_2S NH_3

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2412-330502-07-02-384079

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	(GB3095-2012) (GB3838-2002) h (GB3096-2008)3 (GB/T14848-2017) h (GB36600-2018) 1

([2016]150) “ ”

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2018.10.26)

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(1) - (HJ2.1-2016)

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(3) - (HJ2.3-2018)

(4) - (HJ610-2016)

(5) - (HJ2.4-2021)

(6) - (HJ19-2022)

(7) (HJ169-2018)

(8) - ( ) (HJ964-2018)

(9) (2017.10.1)

(10) (GB/T13201-91)

(11) (HJ884-2018)

(12)

(HJ1033-2019)

(13) (GB34330-2017)

(14) (GB5[illegible]

	pH	
	A	A
	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]	

(1)

(GB3095-2012)

(GB3095-2012)

2.2-2

HJ2.2-2018

D 2.2-3

SO_2	μg/m^3		20	60	GB3095-2012
		24	50	150	
		1	150	500	
NO_2	μg/m^3		40	40	
		24	80	80	
		1	200	200	

CO	μg/m³	24	4	4	
		1	10	10	
O_3	μg/m³	8	100	160	
		1	160	200	
$PM_{2.5}$	μg/m³		40	70	
		24	50	150	
PM_{10}	μg/m³		15	35	
		24	35	75	
TSP	μg/m³		80	200	
		24	120	300	
NO_X	μg/m³		50	50	
		24	100	100	
		1	250	250	
Pb	μg/m³		0.5	0.5	GB3095-2012 A.1
			1	1	
Cd	μg/m³		0.005	0.005	
Hg	μg/m³		0.05	0.05	
As	μg/m³		0.006	0.006	
F	μg/ dm² ·d	1	20	20	
		24	7	7	
			1.8	3.0	
			1.2	2.0	

	μg/m³	1	200	HJ2.2-2018
	μg/m³	1	10	
	μg/m³	1	50	
			15	
	pgTEQ/m³		0.6	

(2)

ἡ 2.2-4

	pH	DO		COD_{Mn}	
ἡ	6~9	≥5	≤0.05	≤6	≤0.1
		NH_3-N			

ħ	≤1	≤1.0	≤0.0001	≤0.005	≤0.01

(3)

(GB/T14848-2017) ħ “

” 2.2-5

		ħ			ħ
1	pH( )	6.5~8.5	13		≤200
2	($CaCO_3$)	≤450	14		≤0.01
3		≤1000	15		≤0.005
4	(N)	≤0.5	16		≤0.005
5	(N)	≤20	17		≤0.3
6	(N)	≤1	18		≤0.1
7	( )	≤0.002	19		≤0.001
8		≤0.05	20		≤0.01
9	(COD_{Mn} O_2)	≤3.0	21	( )(mg/L)	≤0.05
10		≤1.0	22	(MPN/100mL)	≤3.0
11		≤250	23	(CFU/mL)	≤100
12		≤250	/	/	/

(4)

(GB36600-2018) 2.2-6

200m

( ) (GB36600-2018)

GB15618-2018 1

2.2-7

CAS

1		7440-38-2	20	120	60	140
2		7440-43-9	20	47	65	172
3	( )	18540-29-9	3.0	30	5.7	

5		7439-92-1	400	800	800	2500
6		7439-97-6	8	33	38	82
7		7440-02-0	150	600	900	2000
8		7440-36-0	20	180	40	360
9		56-23-5	0.9	9	2.8	36
10		67-66-3	0.3	5	0.9	10
11		74-87-3	12	21	37	120
12	1,1-	75-34-3	3	20	9	100
13	1,2-	107-06-2	0.52	6	5	21
14	1,1-	75-35-4	12	40	66	200
15	-1,2-	156-59-2	66	200	596	2000
16	-1,2-	156-60-5	10	31	54	163
17		75-09-2	94	300	616	2000
18	1,2-	78-87-5	1	5	5	47
19	1,1,1,2-	630-20-6	2.6	26	10	100
20	1,1,2,2-	79-34-5	1.6	14	6.8	50
21		127-18-4	11	34	53	183
22	1,1,1-	71-55-6	701	840	840	840
23	1,1,2-	79-00-5	0.6	5	2.8	15
24		79-01-6	0.7	7	2.8	20
25	1,2,3-	96-18-4	0.05	0.5	0.5	5
26		75-01-4	0.12	1.2	0.43	4.3
27		71-43-2	1	10	4	40
28		108-90-7	68	200	270	1000
29	1,2-	95-50-1	560	560	560	560
30	1,4-	106-46-7	5.6	56	20	200
31		100-41-4	7.2	72	28	280
32		100-42-5	1290	1290	1290	1290
33		108-88-3	1200	1200	1200	1200
34	+	108-38-3 106-42-3	163	570	570	570
35		95-47-6	222	640	640	640
36		98-95-3	34	76	76	760
37		62-53-3	92	663	211	663
38	2-	95-57-8	250	500	2256	4500
39	[a]	56-55-3	5.5	55	15	151

40	[a]	50-32-8	0.55	5.5	1.5	15
41	[b]	205-99-2	5.5	55	15	151
42	[k]	207-08-9	55	550	151	1500
43		218-01-9	4 Ə			

4a	70	55

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GB8978-1996

DB33/887-2013 2.2-9

COD_{Cr} DB33/2169-2018

1

GB18918-2002

A 2.2-10

mg/L pH

1	COD_{Cr}	500	GB8978-1996
2	BOD_5	300	
3	SS	400	
4		20	
5	pH	6~9	
6		35	DB33/887-2013
7		8	

		mg/L	
1	COD_{Cr}	40	GB18918-2002 A
2		2 4 [1]	
3		12 15 [1]	
4		0.3	
5	BOD_5	10	DB33/2169-2018
6	SS	10	

		mg/L	
7		1	1
8		1	
9	( )	30	
10	pH	6~9	
11	(/L)	10^3	
1	11 1	3 31	

GB29620-2013

2“ ” 3“

” 2.2-11 2.2-12

	mg/m^3				
	30	/	/	/	
	30	150	200	3	

		mg/m^3
1		1.0
2		0.5
3		0.02

GB29620-2013 - 2

18%

1

1 $\rho_{基} = \frac{21-O_{基}}{21-O_{实}} * \rho_{实}$

ρ —— mg/m3

ρ —— mg/m3

O —— %

O —— %

2021 20 -

1. 10mg/m^3

2. 18%

10 150 200mg/m^3

A

SO_2 NO_X 20 50 50mg/m^3

18% PM 30mg/m^3

10mg/m^3

SO_2 NO_X 20 50 50mg/m^3 2.2-11

2.2-12

399

3

(GB3096-2008) 4a

(GB3096-2008) 2 2.2-13

2	60	50
3	65	55
4a	70	55

51m

DA002 15m

DA003 GB14554-93 1 2

	m	kg/h	mg/m^3
	15	2000	20
	50	40000	
NH_3	15	4.9	1.5
	60	75	
H_2S	15	0.33	0.06
	60	5.2	
	51m	6.1.2	

51m

DA002 15m

DA003 GB16297-1996

	mg/m^3	m		mg/m^3
	120	15	10	

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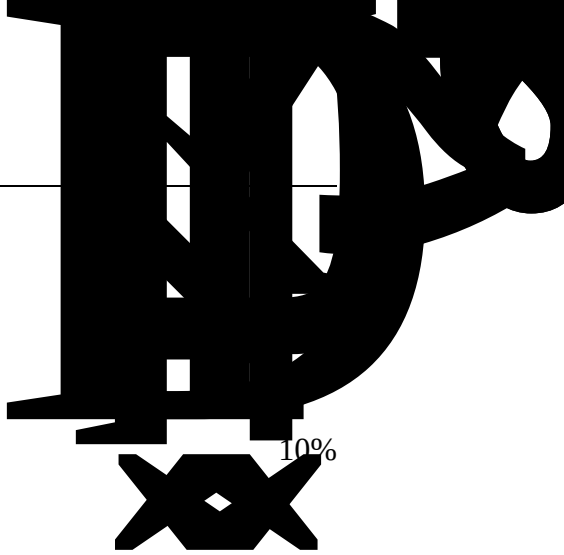


P_i(i) i 10%

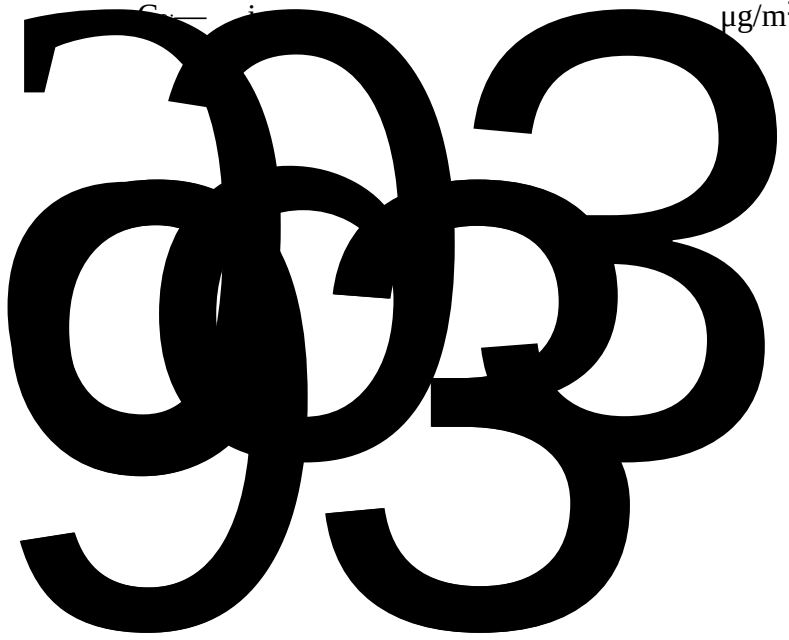
$D_{10\%}$ P_i

$$P_i=C_i/C_{0i}\times100\%$$

P_i— i %

C_i— i 1h μg/m^3

— i μg/m^3 C_{0i} GB3095 1h



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		Q 200 W 6000
		/

B

- (HJ2.3-2018)

B a)

6km^2

- ( ) (HJ964-2018) A

II

		I	II	III	IV
		( )			/
				( )	

4.36hm^2 (≤5hm^2)

- ( ) (HJ964-2018) 3“

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- ( ) (HJ964-2018) 4“

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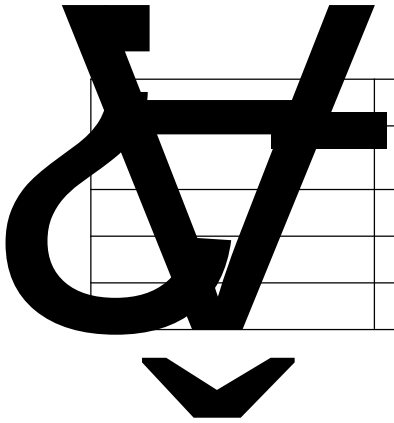

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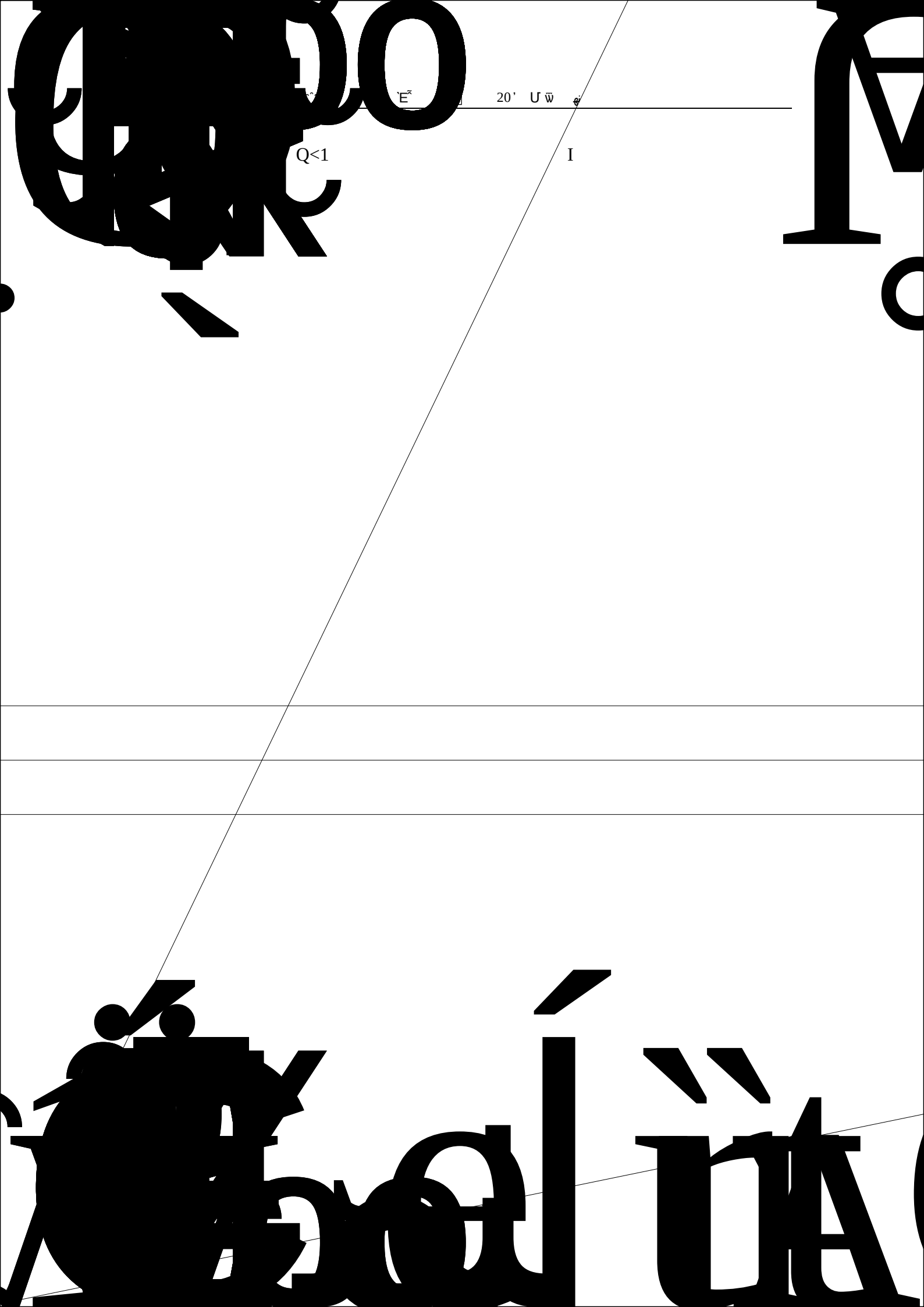
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N7723

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1

1375.48hm²

1050hm² 325.45hm²

2

1

7km

653hm²

0.9 5.2m³/

2

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140 hm² 40 hm²

1100 " "

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443.00hm²

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926.48hm²

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6.00hm²

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3600m

2015-2025

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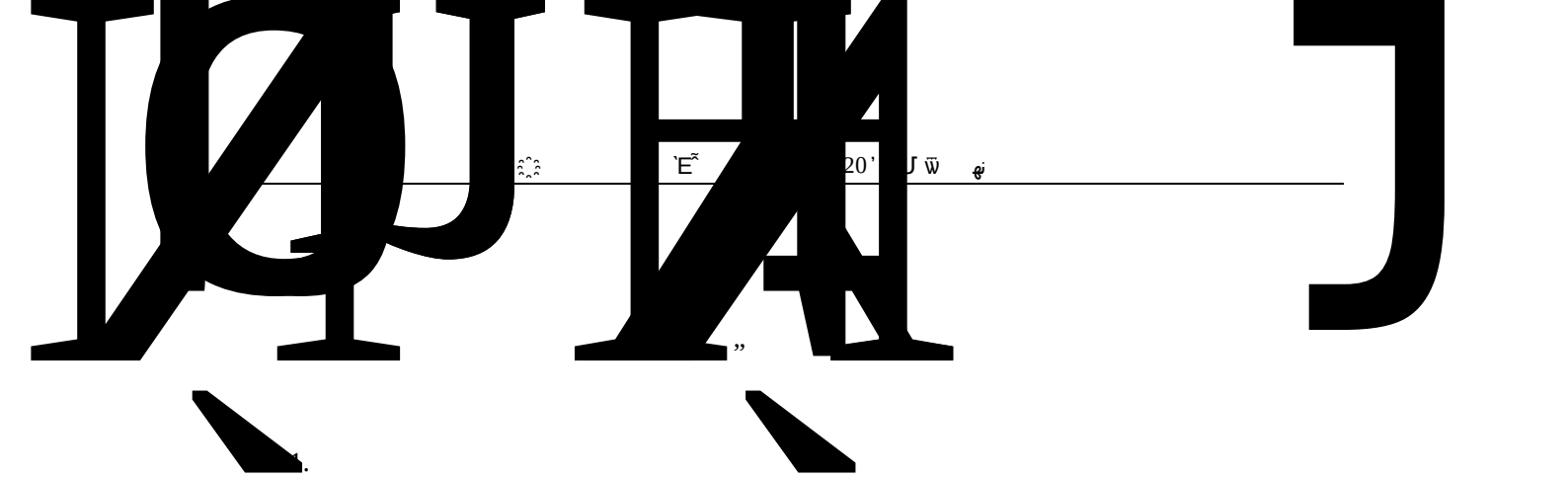
	10000		



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23%

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35 /		
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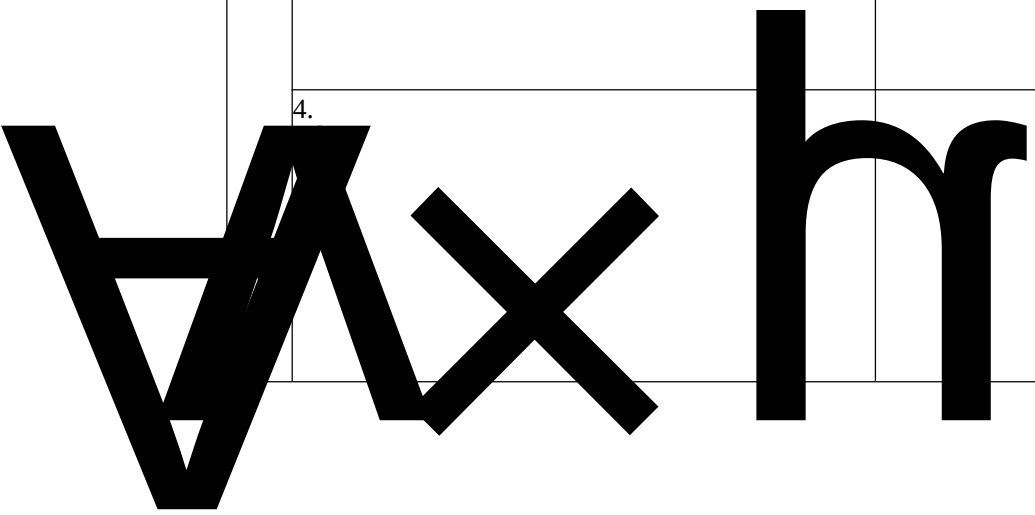

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2.5-1 2.5-2 2.5-1

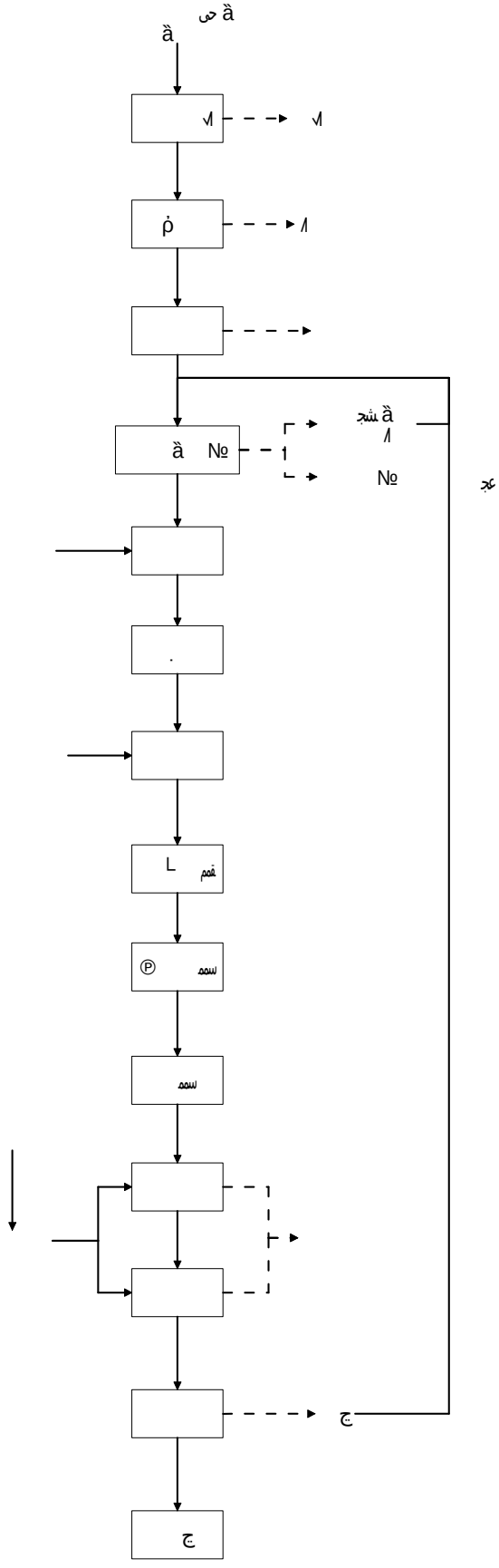
		(m)		( )		(m)	
		X	Y				
		217910	3378187		NW	34	GB3095-2012
		217916	3378147		W	20	
		218011	3378035		S	145	
		217969	3378391		N	284	
		218256	3378359		NE	730	
		217833	3378091		W	176	
		217351	3378151		W	411	
		217912	3379079		N	980	
		218287	3379420		N	2800	
		217243	3379424		NW	230	
		216499	3379621		NW	3200	
		216062	3379513		WN	1800	
		219287	3379511		NE	3500	
		220172	3378974		NE	3800	
		219734	3377337		EN	2800	
		218191	3380672		N	4300	
		217375	3380354		NW	3500	
		217097	3380594		NW	4300	
		217271	3378311		W	600	
		219901	3375621		SE	4800	

G104
湖州市人民政府
湖州市数据局
市民广场
龙溪
5km
湖州市科学技术局
G318
G25
景贤街道
风雅街道
湖州市城区

3.3-1

			(/)	(/)	(/)
1		GZM100	1	1	1
2		PE600X900	1	1	1
3		BG1200	3	3	3
4		XGJ800	7	7	7
5		TL-II	5	5	5
6		PCX1612	2	2	2
7		GD220X600	4	4	4
8		2PGL100X70	1	1	1
9		RCYB-10A GST-10F	3	3	3
10		GS100X70	1	1	1
11		SJ400X55	2	2	2
12		GS120X100	1	1	1
13		PN800	1	1	1
14		BQS70-1140	2	2	2
15		SJJ400X55	1	1	1
16		JKY75/65EII-4.0	1	1	1
17		QT125	1	1	1
18		QP160S	1	1	1
19		2BE-202	1	1	1
20		JF-30A	1	1	1
21		BZ190	1	1	1
22		BZ190	1	1	1
23		MPL-800	2	2	2
24		3900*7320*840	160	160	160
25		B650	32	32	32
26		YBS-6.9	2	2	2
27		TL-4	12	12	12
28		/	2	2	2
29		/	1	1	1

(/) (/)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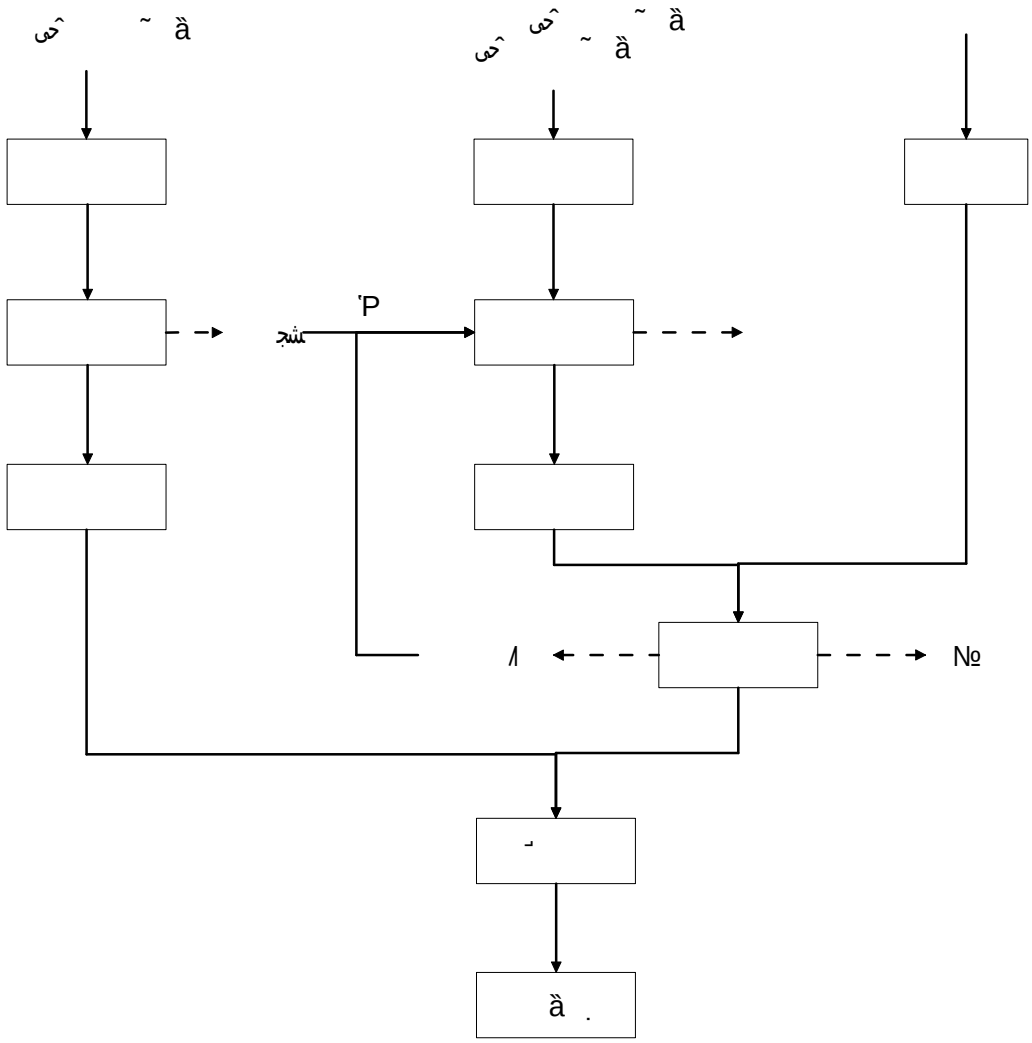

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(3)

(4)

(5)

13~15%

(6)

13~15%

13~15%

13~15%

(7)

(8)

2%

800Ņ~950Ņ

120Ņ)

			600	614
			650	614
	3#		517	583
			667	633
			583	483
			617	600
			667	633
	4#		567	567
			467	650
			567	467
			650	633
			650	650

4

90%

15m DA001 98%

2025 3

2025 01-205

	mg/m³	59.3			55.6		
	kg/h	1.67	1.49	1.57	1.40	1.42	1.45
	kg/h	1.58			1.42		

		DA001 1 2			/		
(m)		/		(m²)	1	2	
					0.385	0.385	
		2025.01.15					
		1			2		
	Ṇ	12.3	12.4	12.3	12.2	12.1	12.0
	%	2.0	2.0	2.0	1.6	1.6	1.6
	m/s	19.6	19.8	19.9	19.1	18.6	18.8
	m3/h	26442	26710	26838	25763	25097	25368
	mg/m³	54.3	53.5	53.8	51.8	53.5	53.5
	mg/m³	53.9			52.9		
	kg/h	1.44	1.43	1.44	1.33	1.34	1.36
	kg/h	1.44			1.34		

	DA001		

2025 01-205

02-166

GB29620-2013

A

3.6-5 3.6-6

		DA001 1 2 /					
(m)		/ (m²)				1	2
						0.385	0.385
		2025.01.13					
		1				2	
	Ṇ	12.0	12.1	12.1	12.1	12.1	12.1
	%	1.7	1.7	1.7	2.1	2.1	2.1
	m/s	19.6	19.8	19.7	18.9	19.0	19.1
	m^3/h	26484	26742	26604	25492	25638	25769
	mg/m^3	63.0	55.9	58.9	55.0	55.5	56.2
	mg/m^3		59.3			55.6	
	kg/h	1.67	1.49	1.57	1.40	1.42	1.45
	kg/h		1.58			1.42	

DA002 1 2 /

(m) /

1 2

طﻤﻲ ﺮ ﻪ ﺆ	mg/m³	0.08			0.07		
طﻤﻲ ﺦ ں	kg/h	0.0133	0.0105	0.0135	9.83×10^{-3}	0.0111	9.76×10^{-3}
طﻤﻲ ﺆ ﻪ ﺦ ں	kg/h	0.0125			0.0102		
ﻏﻤﻲ ﺮ	mg/m³	1.96	1.94	1.90	1.95	1.89	1.91
ﻏﻤﻲ ﺮ ﻪ ﺆ	mg/m³	1.93			1.92		
ﻏﻤﻲ ﺦ ں	kg/h	0.290	0.292	0.285	0.274	0.262	0.266
ﻏﻤﻲ ﺆ ﻪ ﺦ ں	kg/h	0.289			0.267		

ﻫﺞ		DA002 1 2		٧ ﺷﻤﻪ ﻭ ﺗ		/	
ﺷﻤﻪ ﻍ ﺮ (m)		/		ﻫﺞ ﻕ (m^2)		1	2
						3.140	3.140
ﻳﺮ		2025.02.24 ⁶					
		1			2		
		ﺷﺦ	ﺷﺦ	ﺷﺦ	ﺷﺦ	ﺷﺦ	ﺷﺦ
ﺷﻤﻪ ﻍ ﺮ	Ṇ	20.2	20.0	20.4	20.4	20.2	20.4
g ﺎﺤﻲ	%	2.1	2.1	2.1	2.7	2.7	2.7
ﺷﻤﻪ ﻍ	m/s	14.3	14.6	14.3	14.4	14.3	14.1
ﻧِ ﻟﺞ	m^3/h	151079	154582	151308	152312	151353	149212
⅞ ⅞ ﺮ	mg/m³	22.8	21.9	24.2	26.8	24.4	25.3
⅞ ⅞ ﺮ ﻪ ﺆ	mg/m³	23.0			25.5		
⅞ ⅞ ﺦ ں	kg/h	3.44	3.39	3.66	4.08	3.69	3.78

⁄8 ⁄8 kg/ ڑ ڠ ۊ ۓ	3.50		3.85

DA002 1 2 /

					1	2
ۓ (m)	/				3.140	3.140

2025.02.25 6

				1		2	
			شخ	شخ	شخ	شخ	شخ	شخ
ۓ	Ṇ		20.3	20.1	20.3	20.4	20.1	21.4
g	%		2.4	2.4	2.4	2.5	2.5	2.5
ۓ	m/s		14.4	14.1	14.2	14.2	14.2	14.3
ۓ	m^3/h		152385	149325	150413	150268	150345	150819
⁄8 ⁄8	mg/m^3		26.1	24.5	26.8	20.9	22.2	21.6
⁄8 ⁄8 ۓ	mg/m^3			25.8			21.6	
⁄8 ⁄8 ڑ ڠ	kg/h		3.98	3.66	4.03	3.14	3.34	3.26
⁄8 ⁄8 ڑ ڠ ۊ ۓ								

شخ شخ

	%	20.2	20.3	20.1	19.9	20.0	20.1
	m^3/h	304979	300096	319016	316710	322804	313197
	mg/m^3	6	3	ND(<3)	ND(<3)	ND(<3)	ND(<3)
	mg/m^3	23	13	5	4		

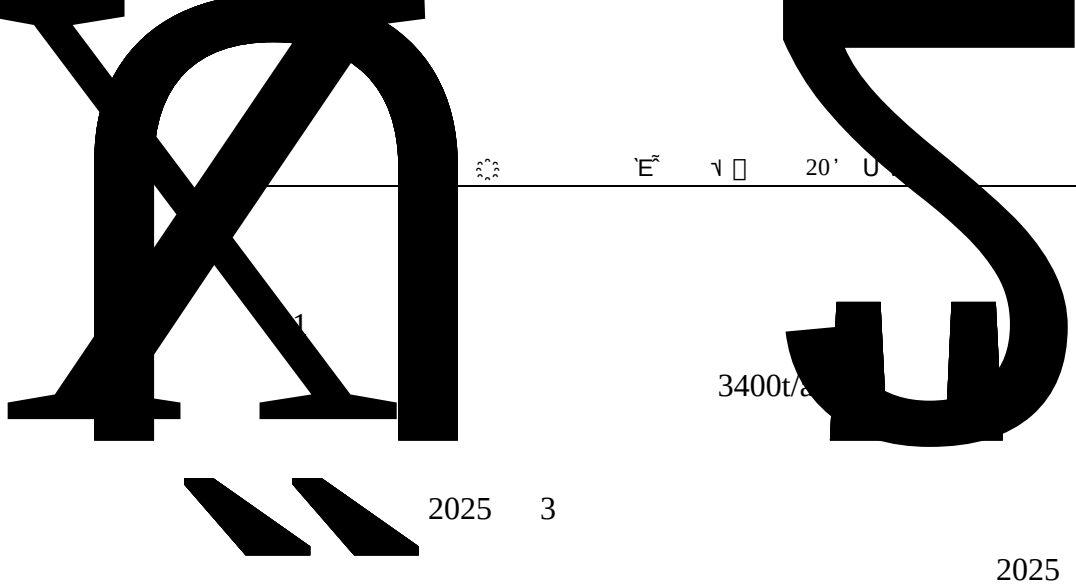
شمه غْ	m/s	7.5	6.7	6.8	6.8	7.0	6.7
אِ لج	m^3/h	341618	305100	310205	313056	322336	309256
طمي ـ	mg/m^3	ND(<6×10^{-2})	ND(<6×10^{-2})	ND(<6×10^{-2})	ND(<6×10^{-2})	ND(<6×10^{-2})	ND(<6×10^{-2})
طمي אِ ۊ ـ	mg/m^3		ND(<6×10^{-2})			ND(<6×10^{-2})	
طمي ں غْ	kg/h	0.0102	9.15×10^{-3}	9.3			

ھج		DA002 ٦ شمھ ٥̃ ٥̇ /			٦ شمھ ٥̃ ٥̇			SNCR+ - ريال+ ٪8		
ڠ شمھ ¯ (m)		ـٮ		ق (%) شمھ	ھج Ɔ (m²)			1	2	
51		Ȣ شمھ		18				3.140	3.140	13.85
ير		2025.03.23 ⁶								
		1			2					
		شخ	شخ	شخ	شخ	شخ	شخ	شخ	شخ	شخ
ڠ شمھ ¯	Ṇ	35.7	34.1	34.3	19.2	19.4	19.2	23.8	24.5	25.0
g اجي	%	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5
ڠ شمھ	m/s	15.2	15.8	15.7	13.2	13.3	13.2	6.4	6.5	6.4
g غمم شمھ	%	20.3	20.2	20.2	20.2	20.3	20.3	20.1	20.0	19.9
אِ لج	m³/h	147724	154189	153486	139512	140552	139456	293121	297089	292028
غمم ¯	mg/m³	8	8	9	11	10	10	<3	<3	<3
غمم ¯ אِ ۊ	mg/m³	8			10			<3		
غمم ¯ ɲ	mg/m³	/	/	/	/	/	/	5	5	4

ɲ אָ ּ֫

							1	2		
						(m²) ڜ ھج	3.140	3.140	13.85	
								2025.03.24 ⁶		

₰ ₰ ₰	kg/h	1.329	1.198	1.367	1.245	1.264	1.265	0.4325	0.4426	0.4486
₰ ₰ ₰ ₰	kg/h	1.298			1.258			0.4412		
₰ ₰ ₰	mg/m^3	20	21	21	22	22	22	9	7	8
₰ ₰ ₰ ₰	mg/m^3	21			22			8		
₰ ₰ ₰	mg/m^3	/	/	/	/	/	/	30	21	22
₰ ₰ ₰ ₰	mg/m^3	/			/			24		
₰ ₰ ₰	kg/h	2.953	3.144	3.191	3.044	3.091	3.092	2.595	2.066	2.392
₰ ₰ ₰ ₰	kg/h	3.096			3.076			2.351		
’Y ₰ ₰ ₰ ₰



3400t/a

2025 3

2025 01-205

GB8978-1996

DB33/887-2013

2025

3.6-10

2025

		(t/a)	(t/a)
1	/	9.6	19.2
2	/	1.44	2.88
3	900-002-S17	0.96	1.92
4	900-009-S59	0.15	0.3
5	900-004-S17 900-005-S17	0.12	0.24
6	900-099-S17	300	600
7	900-099-S17	75	150
8	900-099-S17	2.4	4.8
9			

	dB A				dB A		
				Leq			Leq
2#	01.15	13:23-13:25		59	22:07-22:09		49
3#		13:29-13:31		56	22:16-22:18		48
4#		13:34-13:36		57	22:22-22:24		44
5#		13:14-13:24		49	22:03-22:13		41

GB12348-2008

4 GB12348-2008

(1)

15m

(2)

SNCR+ - +

51m

-

SO_2

SO_2

pH

pH

SNCR

(SNCR) NO_X NH_X

850 1150 NO_X

N_2

10~20%

SNCR NO_X

SNCR NO_X

850 1150

900 1150

WESP WESP

WESP

WESP

WESP

WESP

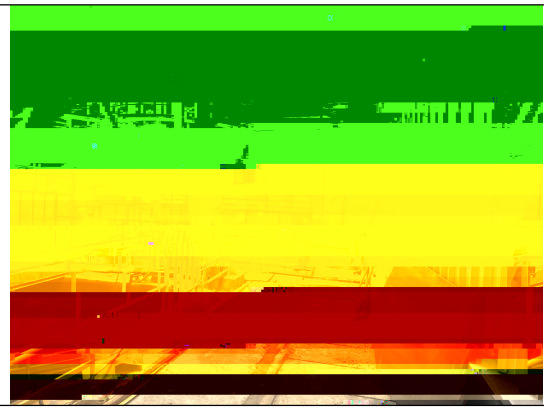
WESP

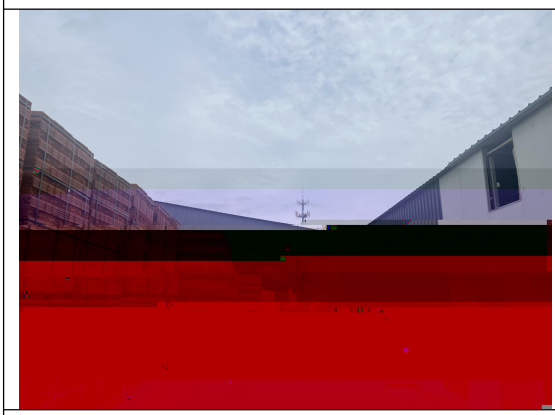
90%

(3)

3.6-14

_"J-$ 4ý Õ"J Û Ï ¸





710m^3

84.5m^3

50m^2 10m^2

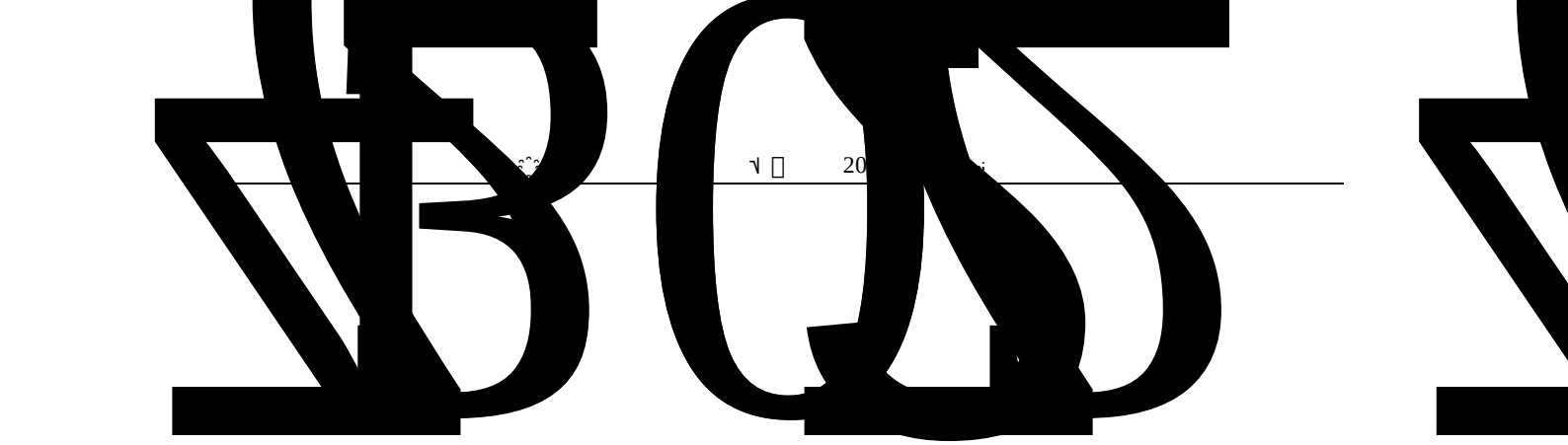
3.6-16

SNCR+ - +

SS

COD_{Cr}

50¾



20

399

13867459002

520

ţ

a

b

4.1-7

	6%	9.5%	29.7%	9.52%	7.4%
	/	13.52mg/kg	7.55mg/kg		
	/	2.55mg/kg	74.56mg/kg		
	/	0.06mg/kg	32.24mg/kg		
	/	106.75mg/kg	26.65mg/kg		
	/	18.50mg/kg	377.5mg/kg		
	/	77.64mg/kg	69.26mg/kg		
	/	186.52mg/kg	69.26mg/kg		
	/	0.42%	0.64%	0.53%	0.08%
	/	4.87MJ/kg	5.26MJ/kg	/	/
$Q_{net\ v,ar}$	/	1163Kcal/kg	1256Kcal/kg	1181Kcal/kg	1115Kcal/kg
	0.01%	0.12%	0.09%	0.01%	0.01%
	0.01%	0.05%	0.05%	0.06%	0.09%

1

2 1

2021

21 n “ "Ů b /

”

5.2 4.3 m

17.5

3

GB/T25031-2010

GB/T25031-2010 “

10% ” 2.5 /a

4

5

GB/T25031-2010

GB/T25031-2010

9.9%

GB/T25031-2010 “

10%”

4.1-9

		(kg)	
1		0.16	0.11
2		1.86	1.29
3		0.27	0.18
4		0.13	0.09
5		0.24	0.17
6		0.08	0.03
7		2.72	1.87

(3)

1kg 1088~1388kJ

1388kJ 1 17.87

2.48×10^{11}kJ

1115Kcal/kg 4666KJ/kg 2.3

1.07×10^{11}KJ

1181Kcal/kg 4942KJ/kg 1.2

5.93×10^{10}KJ

50%

Q=(1-) × - × 2500kJ/kg 100Ņ

50% 2386KJ/kg 50%

4123KJ/kg 8.2×10^{10}KJ

33-46MJ/ 10 m^3/a 0.33×10^{10}KJ

2.516×10^{11}KJ

2.516×10^{11}KJ 2.48×10^{11}KJ

80m

4.1-16

(/)

1	GZM100	1	1	0
2	PE600X900	1	1	0
3	BG1200	3	3	0
4	XGJ800	7	7	0
5	TL-II	5	5	0
6	PCX1612	2	2	0
7	GD220X600	4	4	0
8	2PGL100X70	1	1	0
9	RCYB-10A GST-10F	3	3	0
10	GS100X70	1	1	0
11	SJ400X55	2	2	0
12	GS120X100	1	1	0
13	PN800	1	1	0
14	BQS70-1140	2	2	0
15	SJJ400X55	1	1	0
16	JKY75/65EII-4.0	1	1	0
17	QT125	1	1	0
18	QP160S	1	1	0
19	2BE-202	1	1	0
20	JF-30A	1	1	0
21	BZ190	1	1	0
22	BZ190	1	1	0
23	MPL-800	2	2	0
24	3900*7320*840	160	160	0
25	B650	32	32	0
26	65 ز (			

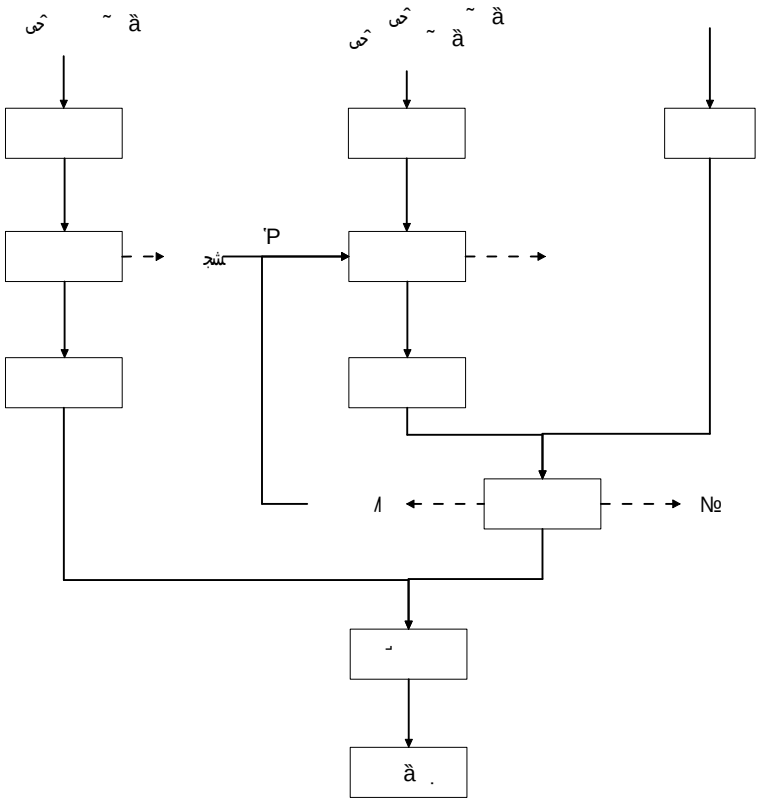
			(/)			
30		6900	7	7	0	
31		5T	3	3	0	
32		/	860m	940m	+80m	
33		/	3	3	0	
34		/	5	5	0	
35		/	1	1	0	
36		/	1	1	0	

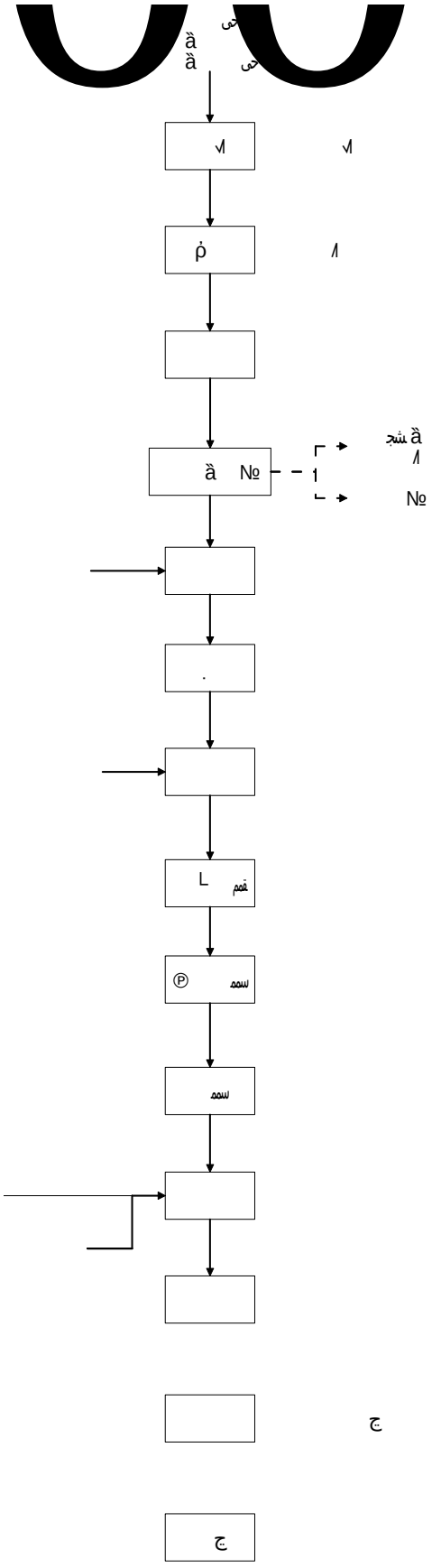
U

24

30min 7500

7200h 99% 10692 10000





(1)

50%

(2)

80m

(3)

(4)

(5)

13~15%

(6)

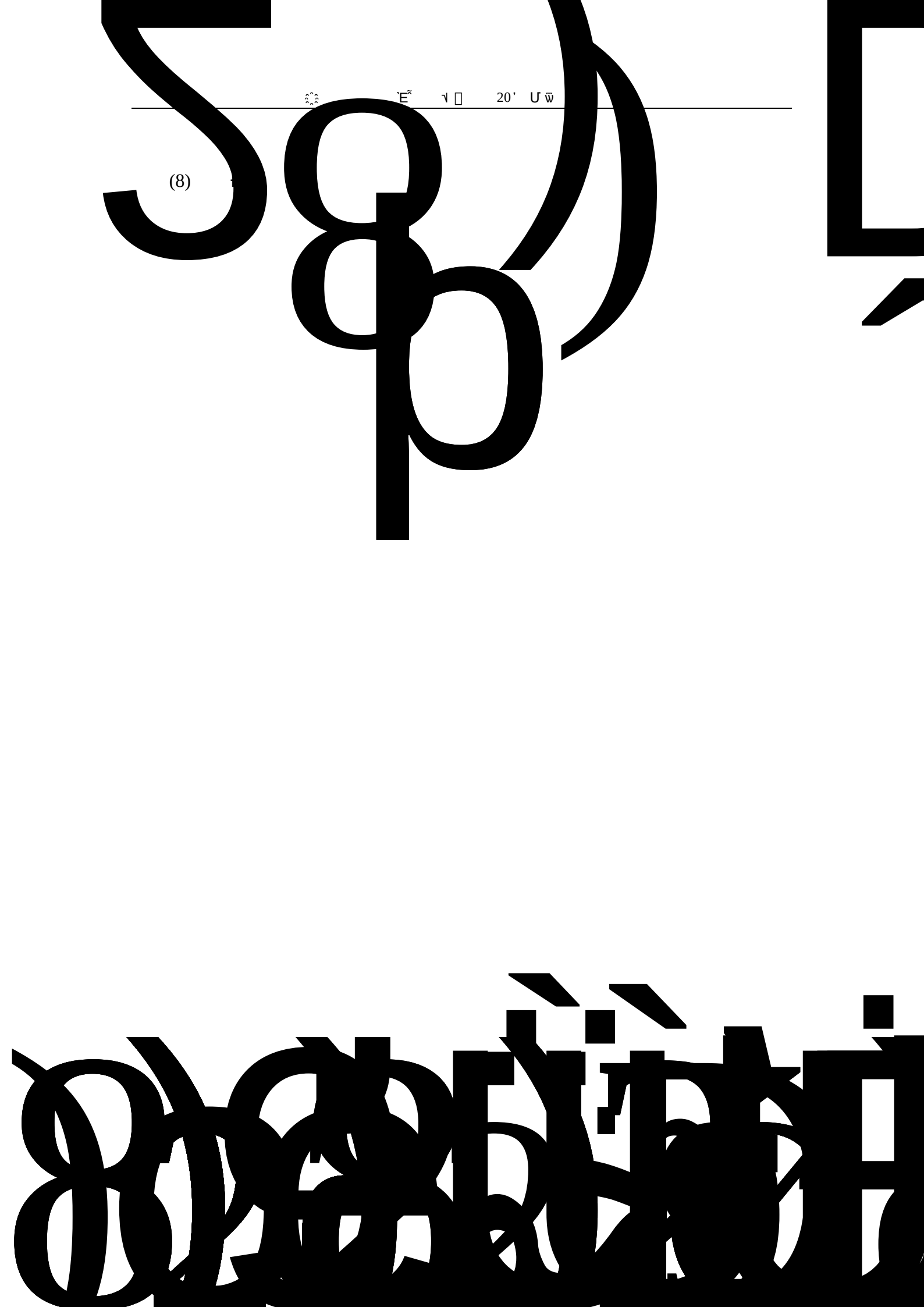
13~15%

13~15%

13~15%

(7)

(8)



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	∪ ﺷﻤ ٧	
	∪ ﺷﻤ ٧	
	ﻳﺮ	
	ﻧﺠﻢ ﻟﺤﻲ	
	ﻱ ﺑﺤﻲ	
	٬٢ ﻟﺮ	
	∪ ﺷﻤ ٧	٧ ٨

(1)

“ ”

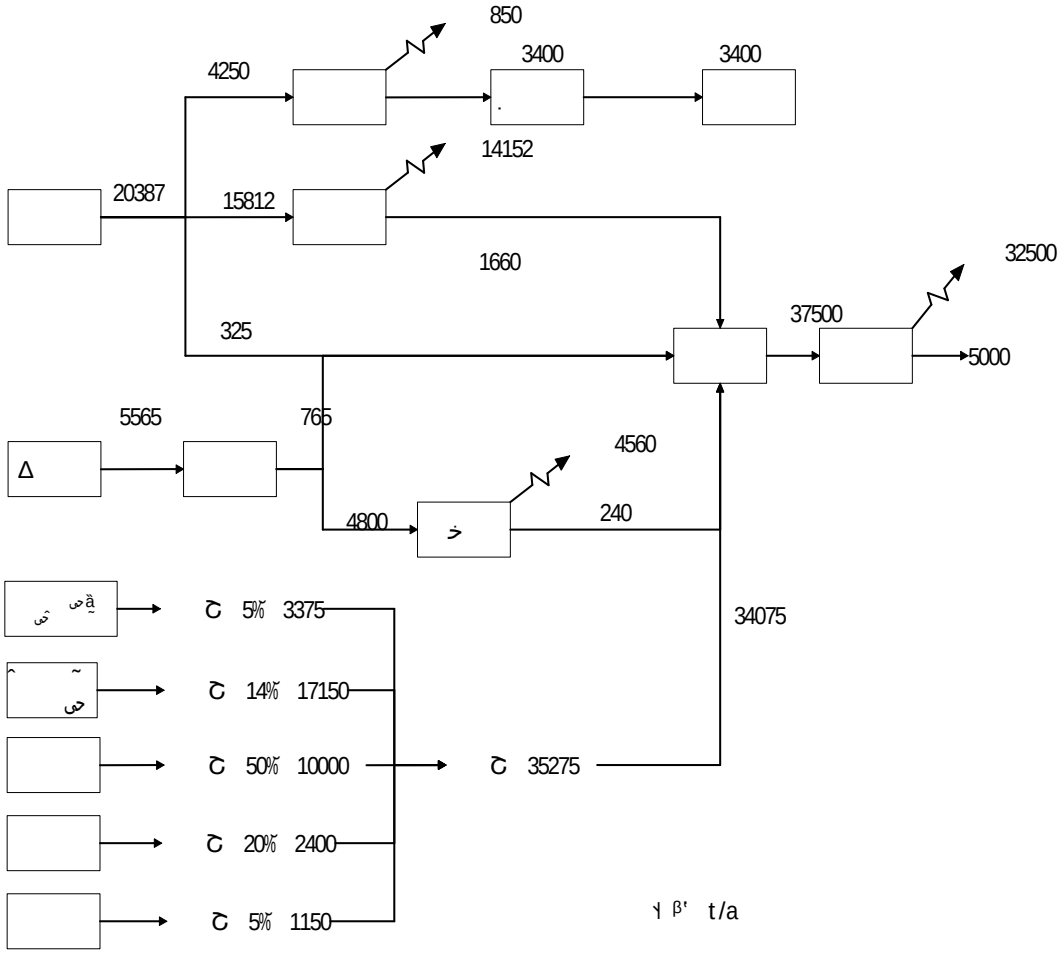
GB/T25031-2010

(2)

4.2-2

	t/a		t/a
1	15000		177800
2	175000		87.517
3	25000		190.951
4	12000		81.991
5	23000		10.153
6	325	HCl	4.22
7	1660		2.338
8	1005		75000
9			

ẹ Ḳ



25 /

3400t/a

COD_{Cr} 40mg/L NH_3-N 2mg/L COD_{Cr} 0.004t/a

NH_3-N 0.007t/a

₲ Ὼ א Ч א ⁿ ₰ ₲ Ὼ

t Ч m^3 Ὼ ₥ א 10 m^3

G—— ڑ kg/t ð kg/t ₰ Ч kg/m^3 ₰ 6 Ὼ ₥

₦ ₹ ڑ 36.43MJ/M^3 0.174g/m^3 SO_2 0.174g/m^3

NO_X 2.606g/m^3 ڈ ھی ₱ Ὼ₥ ₦ ₹ لچ ں غ ⁶ Ὼ ώ

₱ ₥ ۋ ⁶ 1.7

Ὼ ₥ ₥ Ⴤ ₥ آ ں غ ₹ ₥ 4.4-1

Ὼ ₥ ₥ Ⴤ ₦ ₹ آ ں غ

₦ ₹		₦ ₹	ۋ ₦	₦ ₹
~	Ὼ ₥ ₥	₥	10.36Nm^3/Nm^3	103.6 m^3
		⅞	0.174g/m^3	0.017t/a
		SO_2	0.174g/m^3	0.017t/a
		NO_X	2.606g/m^3	0.261t/a

2 ₹ ₦ ₹ ₹ آ غ ₹

⅞ ₲ ₹ ₹ ₦ ₹ ₹ ₹ ₹

2021 24

10000 ₹ Ὼ

ﻍﻤﻣ ﺵﻤﻣ ⅔ ﻝ ﻭ ﻍﻤﻣ ﺡﻯ

ﻫ ﻭ ﻯ ﻫ ﻝ ﻫ ﻯ

ﻫ ﻭ ﻫ ﻭ ﻫ ﻭ

طمي شمم p ỞỚ جى Ỗ ٨ O ٧ شمم طمي g

طمي p CaO ק Ⴔ CaF_2 ˜ ỞỚ

ث ا ا HF Ὼ ═

طمي ═ Ở ỵ تي ڟ طمي ã ي Ẽ ſ ز

25%-30% ỏ 70% ٦ ا ð

شمم ٧ طمي g 33.843t/a ═ طمي ً 70% ي ً ڈ ھى

طمي F 10.153t/a

هم ممم فمح

ڈ ھى Ⴔ فمح و g نجم عج فمح ي ئۆ ممم فمح

ي g ً א 50% g لحي نجم 2.5 t

ي نجم g فمح ٨ 10.629t/a

HCl فمح ي Ạ Ẹ

٦ تج فمح ث ٧ Ỗ لحي * ئۆ Ỗ ᴷ پ Ỏ ڈ ھى شمم ٨

ا Ạ فمح g فمح ث ـ ں فمح

٦ ا ـ تج ح Ꞩ ن فمح تمخ فمح ٠ و ث

شمم ـ ٦ ا ھ Ὼ ڈ ھى n پ تمخ ئۆ

فمح فمح 700 شمم فمح 12.63% 700

4

4.4

	Ba Be AsCr Ni V Al Ti Ca Fe Mn Cu Ag	-
	Sb Cd Pb Se Zn K Na	700~900
	Tl	450~550
	Hg	250

80%

1

4.4-5。

		mg/kg	mg/kg	t/a
		2.55	0.86	0.021
		13.52	7.55	0.130
		18.5	32.24	5.783
		0.06	19.26	
		77.64	26.65	
		186.52	377.5	
		106.75	74.56	

2

60% 6% 30%

38.98% % * 8

40%

GB36600-2018 1 ﻩﺠ ﺝﺝ Ặ

g 4.4-6

		%	mg/kg	t/a
		0.02	75.62	0.003
		1.98	39.72	0.138
		60	52.1	5.907
		1	203.76	
		6	1.4438	
		1	32.354	
		30	0.1476	

1

2

3 “ ”

1050 30s

300~500

(

2012)

S

0.1ng-TEQ/m^3

(

)

S/Cl=10 90%

0.04376ng-TEQ/m^3

0.0917ng-TEQ/m^3 2014

8.5% 0.0069~0.018ng-TEQ/m^3 15%

0.002~0.020ng-TEQ/m^3 0.1ng-TEQ/m^3

10

2017

“ ”

0.023~0.069ng-TEQ/m^3 0.1ng-TEQ/m^3

0.1ngTEQ/m^3

1 نجم ٨ ٨ شمم

عج نجم شمم ٨ شمم ٨ ⅔ نجم لحي نجم عج ں Ɛ̈

NH_3 ʁ H_2S نجم ʒ ي ḍ אַ g لحي

40% אַ M نجم شمم ‾ ٨ ممم

2

950

1200m2 6m

6 /h 50000m^3/h

50000m^3/h 15m DA004

SNCR

8mg/m^3

3

SNCR+ - +

-

51m DA002 300000m^3/h

90%

90% 60% 60%

95% 90%

4.4-6

			kg/h	t/a		%	m^3/h	kg/h	mg/m^3	t/a
			9.030	65.017	SNCR+ - +	90	300000	0.903	3.010	6.502
	SO_2		26.521	190.951		90		2.652	8.840	19.095
	NOx		11.388	81.991		60		4.555	15.184	32.796
			1.410	10.153		60		0.564	1.880	4.061
			0.591	4.252		95		0.030	0.098	0.213
			0.003	0.024		90		0.0003	0.001	0.002
			0.003	0.024		90		0.001	0.002	0.005
			0.007	0.054		90		0.032	0.108	0.234
			6.3ug/h	45.36mg/a		0		6.3ug/h	0.1ng/m^3	45.36mg/a
						/				

						/				
						/				
						/				
						/				

A

GB29620-2013 HCl

GB18485-2014

GB16297-1996

GB14554-93 2

$$Q=0.123(V/5)(W/6.8)^{0.85}(P/0.5)^{0.75}$$

Q— kg/km·

V— km/h

W—

P— kg/m^2 0.1kg/m^2

10km/h 40t Q 0.33kg/km·

200m 177800t/a 25000t/a 202800t/a

5070 / 2400h

0.335t/a

70% 0.101t/a 0.042kg/h

4.4-9

/

	/m³/h	/mg/m³	/kg/h		/%	/m³/h	/mg/m³	/kg/h	/h
				+					
	/	/			/	/	/		2400
	/	/	9.375		70	/	/	0.938	2400
DA001	/	/	2.563		98	50000	0.92	0.046	
									4800
	/	/	0.128	/	/	/	/	0.128	

/														
					/m³/h	/mg/m³	/kg/h		/%		/m³/h	/mg/m³	/kg/h	/h
						1.083	0.325		90			0.108	0.032	
						21	6.3ug/h		0			0.1ng/m³	6.3ug/h	
									/					
									/					
									/					
									/					
									/					
					/	/	0.140		70		/	/	0.042	2400
					/	/		/	/		/	/		2400

80m

1

22.5 500

450 20 0.5kg

4.5t/a

2

10% 174t/a 63t/a 25kg/

9480 0.5kg 4.74t/a

3

HJ991-2018

$$= \frac{*}{64*\left(1-\frac{}{100}\right)*\frac{}{100}}$$

E—— t

M_F—— 136.14g/mol

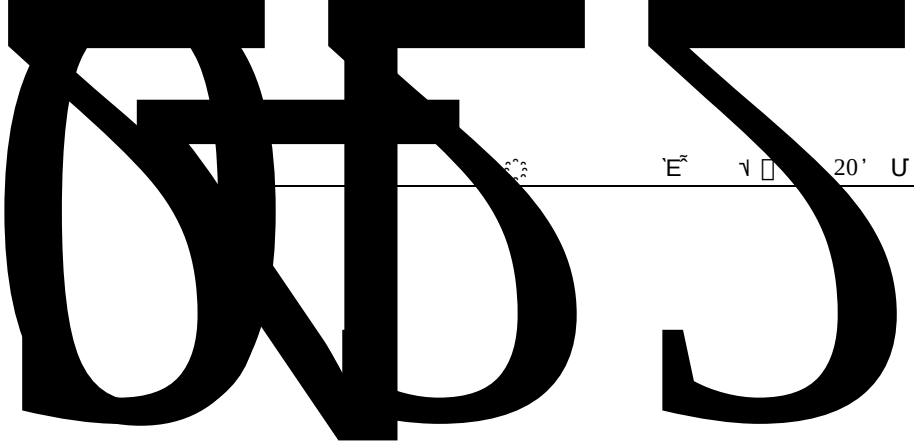
E_s—— 171.856t

C_s—— % 5%

C_g—— % 95%

329.9t/a

(2021)



“ HW49

772-006-49 ”

4

1 /

5t/a (2021) χ Ð

1					/
2					HW49 772-006-49
3					HW49 900-039-49

4.4-13 4.4-14

						(t/a)	
1						4.74	

(t/a)

-

4.4-15

4.4-17

				/		
			22.5	20.25	2.25	
			12.3	11.45	0.84	
			65.017	58.515	6.502	SNCR+ - +
		SO_2	190.951	171.856	19.095	
		NOx	81.991	49.195	32.796	
			10.153	6.092	4.061	
		HCl	4.252	4.039	0.213	
		Hg	0.024	0.022	0.002	
		Cd+Ti	0.054	0.241	0.005	
		Sb+As+Pb+ Cr+Co+Cu+ Mn+Ni	2.338	1.926	0.234	
			45.36mg/a	0	45.36mg/a	
				/		
				/		
				/		
				/		
				/		
			0.335	0.234	0.101	
				/		
			4.74	4.74	0	
			329.9	329.9	0	
			5	5	0	

“ ” 4.4-18

				“ ”		
		3400	0	0	3400	0

“ ”

(t/a)	COD_{Cr}	0.136	0	0	0.136	0
		0.007	0	0	0.007	0
		10.48	9.693	10.48	9.693	-0.787
	SO_2	15.18	19.095	15.18	19.095	+3.915
	NOx	32.64	32.796	32.64	32.796	+0.156
		0.87	4.061	0.87	4.061	+3.191
	HCl	0	0.213	0	0.213	+0.213
	Hg	0	0.002	0	0.002	+0.002
	Cd+Ti	0	0.005	0	0.005	+0.005
(t/a)	Sb+As+Pb+Cr+ Co+Cu+Mn+Ni	0	0.234	0	0.234	+0.234
		0	45.36mg/a	0	45.36mg/a	+45.36mg/a
						/
						/
						/
						/
						/
		0 21.3	0 21.3	0	0	0
		0 3	0 3	0	0	0
		0 2	0 2	0	0	0
		0 0.5	0 0.5	0	0	0
		0 0.24	0 4.74	0	0	0
		0 880	0 329.9	0	0	0
		0 153	0 153	0	0	0
		0 6	0 6	0	0	0p
		0 0.06	0 0.06	0	0	0
		0 0.5	0 0.5	0		

“ ”

119°14′~120°29′ 30°22′~31°1l′

“

399

“

”

60km 100 200m

3 4m 23

34 124

6-7t/m^2 1-2

6.0 6.5m 6

8.1 9.1m 5 14m

100 120Kpa

11.7

27.9 3.1

24.8 39 -11.1

249 1391.3mm 144

52% 1734.9mm(1977)

172.6mm(1962.9.6) 1359.3mm

80% 9 85%

10%

12.83% 11.41%

2.28m/s

5.2-1 \

1	/	11.7	/
2	Ņ	39	/
3	Ņ	-11.1	/
4	Ņ	27.9	/
5	Ņ	3.1	/
6	%	80	/
7	mm	1391.3	/
8	mm	1359.3	/

m اکبر

60 24

9

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0.70~3.10 2.67~4.07

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0.50~1.50 0.92~2.16 Ď ظم ﻣﺿ ﻋﺞ

ŷ

11.70~19.70 0.02~1.03

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1.20~6.30 -16.91~-11.06 Λ

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Ž -1

1.0 .30 -43.61~-41

~

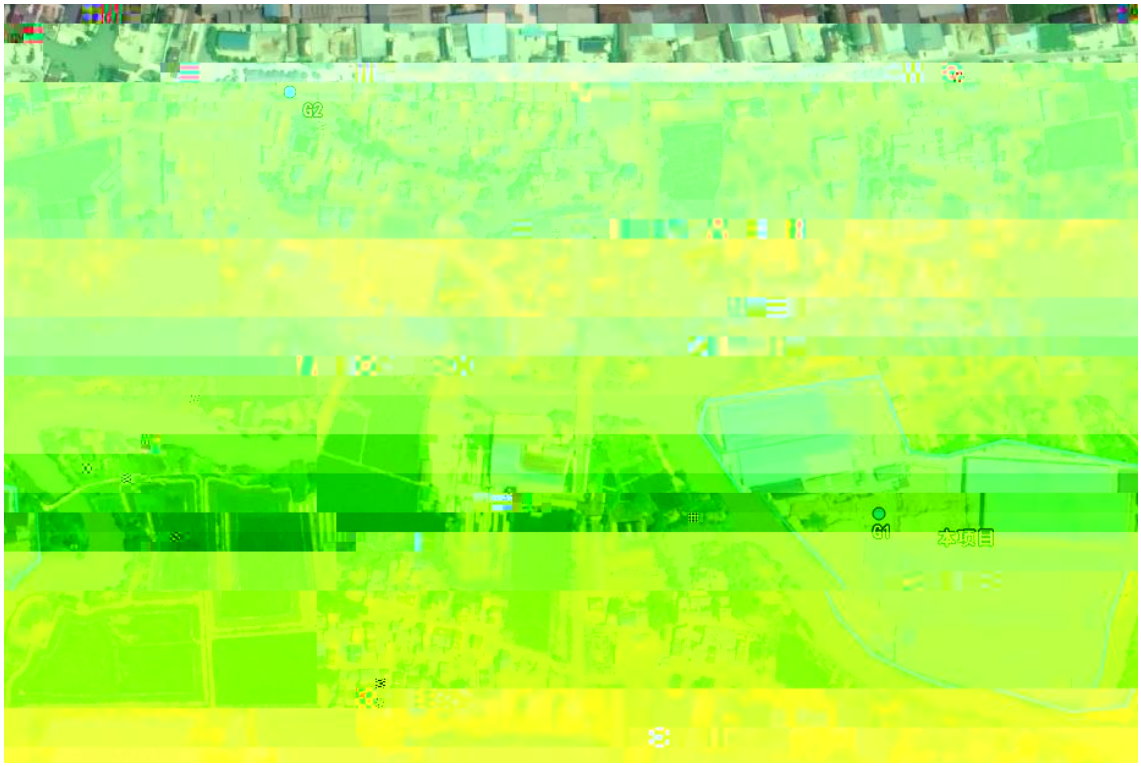
Ž -2

10.40 -44.84

100 77.5 /

22.5 /

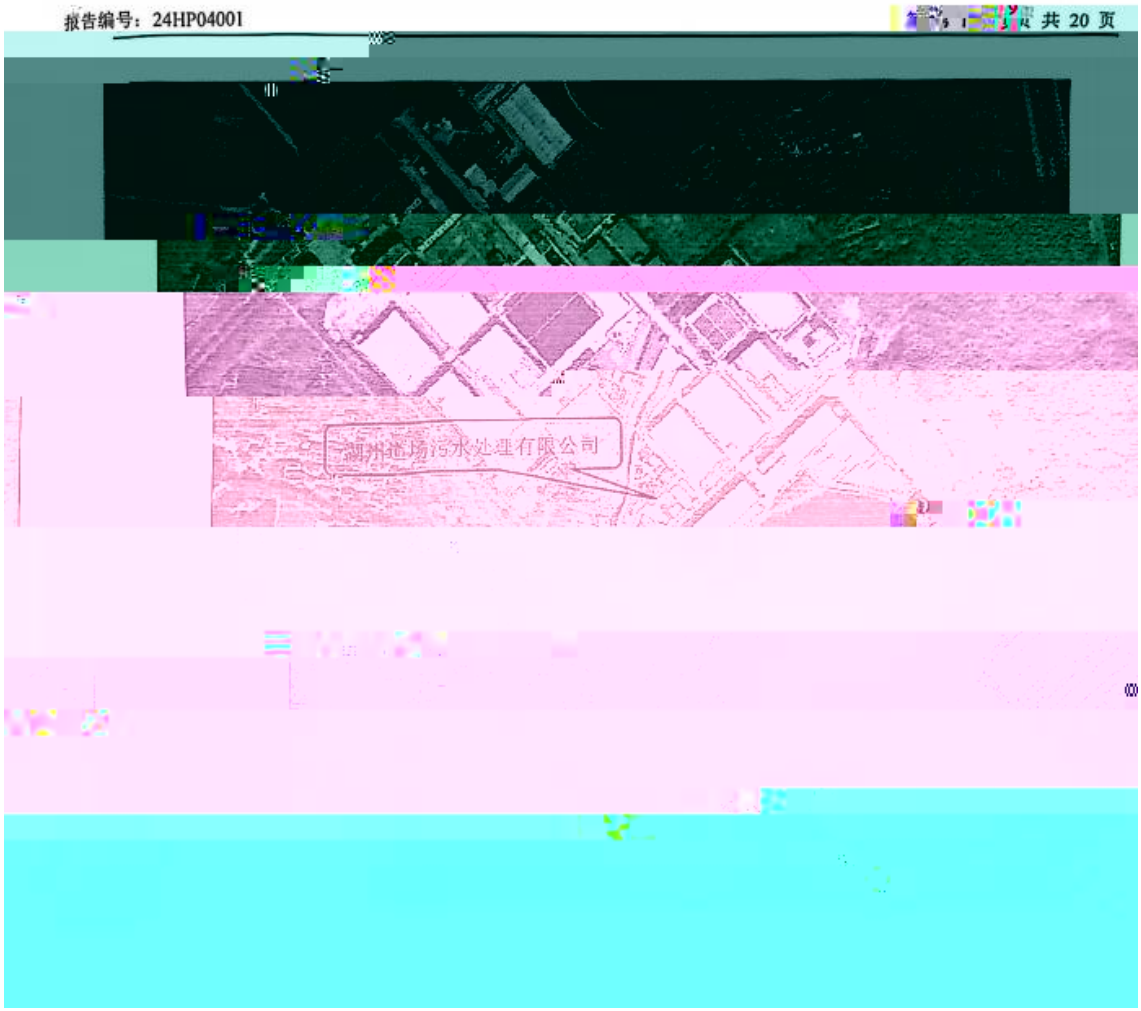
				(t/a)
			HW08	
			HW09	
			HW11	
			HW12	
			HW13	
			HW16	
			HW17	
			HW21	
			HW22	
			HW23	
			HW26	
			HW31	
			HW34	
			HW35	
			HW49	
			HW50	
			HW31	
			HW34	
			HW35	
			HW46	
			HW48	
			HW49	
			HW50	
4	3305000171		HW49	7000
			HW05	
			HW06	
			HW08	
			HW09	
			HW11	
			HW12	
			HW13	
5			HW16	20000
		288	HW17	
			HW21	
			HW31	
			HW34	
			HW35	
			HW49	
			HW50	



5.4-3

				(%)
S1	(mg/m³)	0.025~0.079	0.25	
	(mg/m³)	0.04~0.06	0.2	
	(μg/m³)	0.9~1.4	20	
	(mg/m³)	<0.02	0.05	
	(mg/m³)	<0.001	0.01	
S2	(mg/m³)	0.043~0.088	0.25	
	(mg/m³)	0.06~0.10	0.2	
	(μg/m³)	1.1~1.6	20	
	(mg/m³)	<0.02	0.05	
	(mg/m³)	<0.001	0.01	
S3	(mg/m³)	0.062~0..097	0.15	
	(mg/m³)	0.016~0.043	0.25	
	(mg/m³)	<0.015~0.017	0.2	

(mg/m³)	0.6~0.9	0.01
(mg/m³)	0.03~0.07	0.2
(μg/m³)	0.7~1.1	20
(mg/m³)	<0.02	50
(mg/m³)		



3 1

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(2015)

(GB3838-2002)

= —

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— (mg/L)

— (mg/L)

DO

$$, = \frac{| \quad - \quad |}{-} \qquad \geq$$

$$, = 10 - 9 \text{——} \qquad <$$

$$= \frac{468}{31.6 +}$$

pH

$$, = \frac{7.0 \ -}{7.0 \ -} \qquad \leq 7.0$$

$$, = \frac{-7.0}{-7.0} \qquad > 7.0$$

— mg/L

— mg/L

— Ṇ

—ﻁﻃ = ﺧﻫ

	17.5	17.7	16.8	/	/
	9.2	9.4	9.7	≥5	0
	2.4	2.8	2.7	≤6	0
	8	10	9		
	0.556	0.634	0.634	≤1.0	0
	0.262	0.224	0.308	≤1	0
	0.01	0.01	0.01	≤0.1	0
	0.005	0.005	0.005	≤0.01	0
	0.005	0.005	0.005	≤0.005	0
	0.0001	0.0001	0.0001	≤0.0001	0
	0.01	0.01	0.01	≤0.05	0

	500m				
	2024.4.1	2024.4.2	2024.4.3	ħ	
	24HP04001-W06-001	24HP04001-W06-002	24HP04001-W06-003		%
pH ( )	7.4	7.5	7.2	6~9	0
	17.9	17.8	17.1	/	/
	9.5	9.5	9.7	≥5	0
	3.4	3.9	3.5	≤6	0
	13	14	14		
	0.707	0.951	0.30	≤1.0	0
	0.316	0.284	0.352	≤1	0
	0.01	0.01	0.01	≤0.1	0
	0.005	0.005	0.005	≤0.01	0
	0.005	0.005	0.005	≤0.005	0
	0.0001	0.0001	0.0001	≤0.0001	0
	0.01	0.01	0.01	≤0.05	0

(1)

(I1)

(II2) (ħ 2)

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14

16 17

(2)

(3)

“ 5.2.5 ”

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1985 1.42~1.74m

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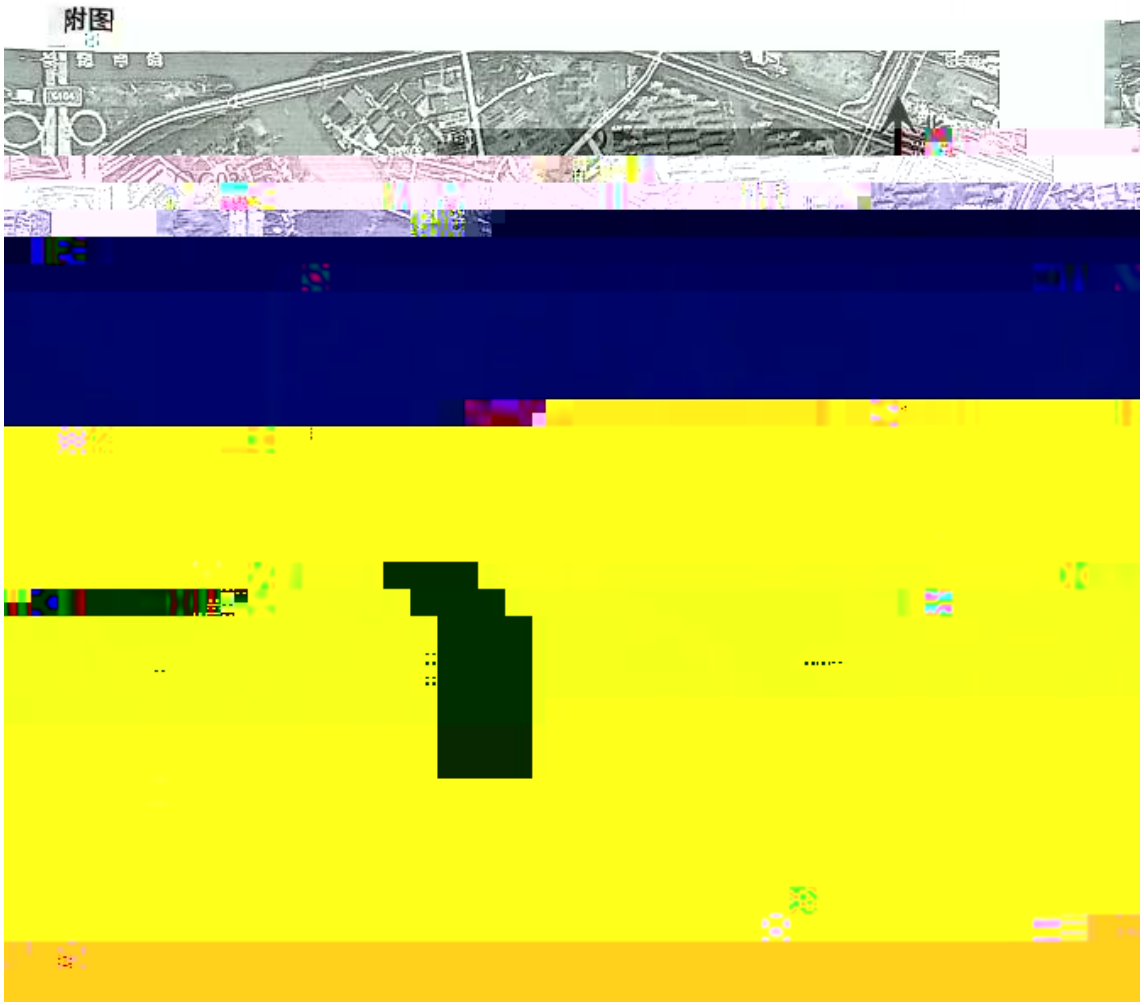
1.0~2.0

(6)

2024 4 1

5.4-3



GB/T14848-2017

	W1	W2	W3
K^+	0.395	0.367	0.374
Ca^{2+}	0.945	0.793	0.835
Na^+	2.452	2.657	2.265
Mg^{2+}	0.783	0.817	0.767
$CO3^{2-}$	0.021	0.021	0.021
HCO^{3-}	1.049	1.098	0.852
$SO4^{2-}$	1.115	0.977	1.083
Cl^-	3.183	3.437	2.986
	-1.39%	-2.10%	-1.53%

	W1	W2	W3	ἢ
pH ( )	7.3	7.4	7.4	

3 3

D1~D7 D5~D6 D7 5.4-5

三、检测点位示意图

5.4-10~5.4~14

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(GB36600-2018)

( ) (GB36600-2018)

			D1			
			2025.05.20			
m			0~0.5	0.5~1.5	1.5~3	3~6

			D1			
			2025.05.20			
m			0~0.5	0.5~1.5	1.5~3	3~6
pH		/	8.26	9.76	9.60	8.56
	mg/kg	38	0.102	0.102	0.137	0.102
	mg/kg	60	8.72	9.31	9.21	8.72
	mg/kg	800	37.9	64.4	41.4	37.9
	mg/kg	65	0.380	0.610	0.279	0.380
	mg/kg	18000	26	50	29	26
	mg/kg	900	9	10	11	9
	mg/kg	5.7	<0.5	<0.5	<0.5	<0.5
	μg/kg	2800	<0.0013	<0.0013	<0.0013	<0.0013
	μg/kg	900	<0.0011	<0.0011	<0.0011	<0.0011
	μg/kg	37000	<0.0010	<0.0010	<0.0010	<0.0010
1,1-	μg/kg	9000	<0.0012	<0.0012	<0.0012	<0.0012
1,2-	μg/kg	5000	<0.0013	<0.0013	<0.0013	<0.0013
1,1-	μg/kg	66000	<0.0010	<0.0010	<0.0010	<0.0010
-1,2-	μg/kg	596000	<0.0013	<0.0013	<0.0013	<0.0013
-1,2-	μg/kg	54000	<0.0014	<0.0014	<0.0014	<0.0014
	μg/kg	616000	<0.0015	<0.0015	<0.0015	<0.0015
1,2-	μg/kg	5000	<0.0011	<0.0011	<0.0011	<0.0011
1,1,1,2-	μg/kg	10000	<0.0012	<0.0012	<0.0012	<0.0012
1,1,2,2-	μg/kg	6800	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	53000	<0.0014	<0.0014	<0.0014	<0.0014
1,1,1-	μg/kg	840000	<0.0013	<0.0013	<0.0013	<0.0013
1,1,2-	μg/kg	2800	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	2800	<0.0012	<0.0012	<0.0012	<0.0012
1,2,3-	μg/kg	500	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	430	<0.0010	<0.0010	<0.0010	<0.0010
	μg/kg	4000	<0.0019	<0.0019	<0.0019	<0.0019
	μg/kg	270000	<0.0012	<0.0012	<0.0012	<0.0012
1,2-	μg/kg	560000	<0.0015	<0.0015	<0.0015	<0.0015
1,4-	μg/kg	20000	<0.0015	<0.0015	<0.0015	<0.0015
	μg/kg	28000	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	1290000	<0.0011	<0.0011	<0.0011	<0.0011
	μg/kg	1200000	<0.0013	<0.0013	<0.0013	<0.0013
, -	μg/kg	570000	<0.0012	<0.0012	<0.0012	<0.0012

			D2			
			2025.5.20			
m			0~0.5	0.5~1.5	1.5~3	3~6
-1,2-	μg/kg	596000	<0.0013	<0.0013	<0.0013	<0.0013
-1,2-	μg/kg	54000	<0.0014	<0.0014	<0.0014	<0.0014
	μg/kg	616000	<0.0015	<0.0015	<0.0015	<0.0015
1,2-	μg/kg	5000	<0.0011	<0.0011	<0.0011	<0.0011
1,1,1,2-	μg/kg	10000	<0.0012	<0.0012	<0.0012	<0.0012
1,1,2,2-	μg/kg	6800	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	53000	<0.0014	<0.0014	<0.0014	<0.0014
1,1,1-	μg/kg	840000	<0.0013	<0.0013	<0.0013	<0.0013
1,1,2-	μg/kg	2800	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	2800	<0.0012	<0.0012	<0.0012	<0.0012
1,2,3-	μg/kg	500	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	430	<0.0010	<0.0010	<0.0010	<0.0010
	μg/kg	4000	<0.0019	<0.0019	<0.0019	<0.0019
	μg/kg	270000	<0.0012	<0.0012	<0.0012	<0.0012
1,2-	μg/kg	560000	<0.0015	<0.0015	<0.0015	<0.0015
1,4-	μg/kg	20000	<0.0015	<0.0015	<0.0015	<0.0015
	μg/kg	28000	<0.0012	<0.0012	<0.0012	<0.0012
	μg/kg	1290000	<0.0011	<0.0011	<0.0011	<0.0011
	μg/kg	1200000	<0.0013	<0.0013	<0.0013	<0.0013
, -	μg/kg	570000	<0.0012	<0.0012	<0.0012	<0.0012
-	μg/kg	640000	<0.0012	<0.0012	<0.0012	<0.0012
	mg/kg	76	<0.09	<0.09	<0.09	<0.09
2-	mg/kg	2256	<0.06	<0.06	<0.06	<0.06
(a)	mg/kg	15	<0.1	<0.1	<0.1	<0.1
(a)	mg/kg	1.5	<0.1	<0.1	<0.1	<0.1
(b)	mg/kg	15	<0.2	<0.2	<0.2	<0.2
(k)	mg/kg	151	<0.1	<0.1	<0.1	<0.1
	mg/kg	1293	<0.1	<0.1	<0.1	<0.1
(a,h)	mg/kg	1.5	<0.1	<0.1	<0.1	<0.1
(1,2,3-c,d)	mg/kg	15	<0.1	<0.1	<0.1	<0.1
	mg/kg	70	<0.09	<0.09	<0.09	<0.09
	mg/kg	260	<0.1	<0.1	<0.1	<0.1
	mg/kg	40	1.07	0.37	0.73	0.81

D3

2025.5.20

m 0~0.5 0.5~1.5 - 1

			D6
			2025.5.20
m			0~0.2
	mg/kg	5.7	<0.5
	μg/kg	2800	<0.0013
	μg/kg	900	<0.0011
	μg/kg	37000	<0.0010
1,1-	μg/kg	9000	<0.0012
1,2-	μg/kg	5000	<0.0013
1,1-	μg/kg	66000	<0.0010
-1,2-	μg/kg	596000	<0.0013
-1,2-	μg/kg	54000	<0.0014
	μg/kg	616000	<0.0015
1,2-	μg/kg	5000	<0.0011
1,1,1,2-	μg/kg	10000	<0.0012
1,1,2,2-	μg/kg	6800	<0.0012
	μg/kg	53000	<0.0014
1,1,1-	μg/kg	840000	<0.0013
1,1,2-	μg/kg	2800	<0.0012
	μg/kg	2800	<0.0012
1,2,3-	μg/kg	500	<0.0012
	μg/kg	430	<0.0010
	μg/kg	4000	<0.0019
	μg/kg	270000	<0.0012
1,2-	μg/kg	560000	<0.0015
1,4-	μg/kg	20000	<0.0015
	μg/kg	28000	<0.0012
	μg/kg	1290000	<0.0011
	μg/kg	1200000	<0.0013
, -	μg/kg	570000	<0.0012
-	μg/kg	640000	<0.0012
	mg/kg	76	<0.09
2-	mg/kg	2256	<0.06
(a)	mg/kg	15	<0.1
(a)	mg/kg	1.5	<0.1
(b)	mg/kg	15	<0.2
(k)	mg/kg	151	<0.1

D6

2025.5.20

m ʂ

			D4	D5
			2025.5.20	
m			0~0.2	
1,1,1-	μg/kg	701	<0.0013	<0.0013
1,1,2-	μg/kg	0.6	<0.0012	<0.0012
	μg/kg	0.7	<0.0012	<0.0012
1,2,3-	μg/kg	0.05	<0.0012	<0.0012
	μg/kg	0.12	<0.0010	<0.0010
	μg/kg	1	<0.0019	<0.0019
	μg/kg	68	<0.0012	<0.0012
1,2-	μg/kg	560	<0.0015	<0.0015
1,4-	μg/kg	5.6	<0.0015	<0.0015
	μg/kg	7.2	<0.0012	<0.0012
	μg/kg	1290	<0.0011	<0.0011
	μg/kg	1200	<0.0013	<0.0013
, -	μg/kg	163	<0.0012	<0.0012
-	μg/kg	222	<0.0012	<0.0012
	mg/kg	34	<0.09	<0.09
2-	mg/kg	250	<0.06	<0.06
(a)	mg/kg	5.5	<0.1	<0.1
(a)	mg/kg	0.55	<0.1	<0.1
(b)	mg/kg	5.5	<0.2	<0.2
(k)	mg/kg	55	<0.1	<0.1
	mg/kg	490	<0.1	<0.1
(a,h)	mg/kg	0.55	<0.1	<0.1
(1,2,3-c,d)	mg/kg	5.5	<0.1	<0.1
	mg/kg	25	<0.09	<0.09
	mg/kg	92	<0.1	<0.1
	mg/kg	20	0.64	0.93
	ngTEQ/kg	40	0.80	2.3

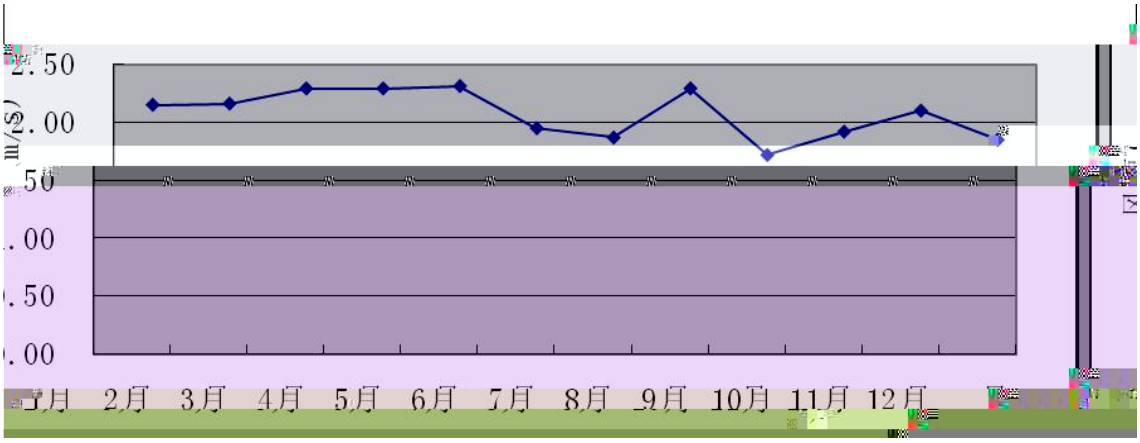
	/	m			
2025.5.20	D1	0~0.5			
		0.5~1.5			
		1.5~3.0			

3.0~6.0

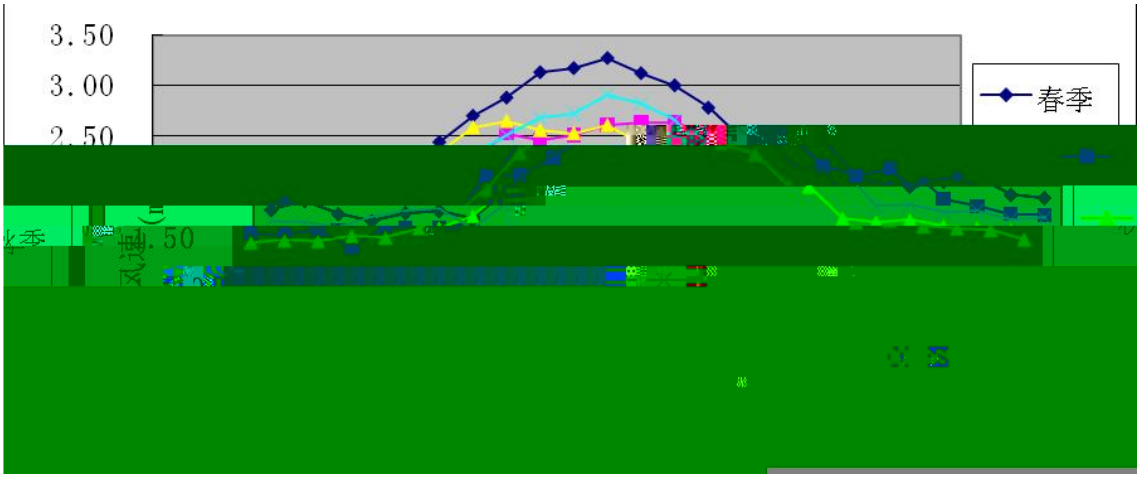
- 6

D2

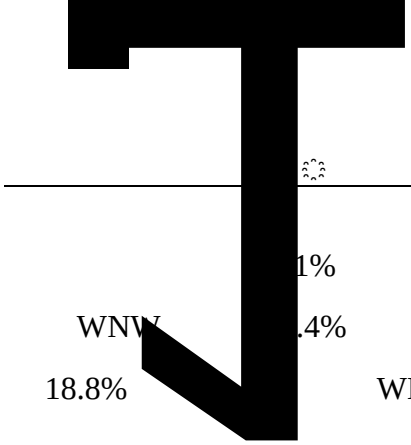
				LeqdB(A)	
			/m	2022.8.15	2022.8.16
	X	Y	Z		
N01					



h	1	2	3	4	5	6	7	8	9	10	11	12
	1.8	1.9	1.7	1.7	1.7	1.8	1.7	2.0	2.4	2.7	2.9	3.1
	1.5	1.5	1.6	1.4	1.6	1.6	1.6	2.1	2.1	2.3	2.5	2.5
	1.5	1.5	1.5	1.5	1.5	1.6	1.7	2.0	2.3	2.6	2.7	2.6
	1.7	1.6	1.6	1.7	1.8	1.8	1.6	1.8	2.1	2.3	2.5	2.7
h	13	14	15	16	17	18	19	20	21	22	23	24
	3.2	3.3	3.1	3.0	2.8	2.5	2.1	2.0	2.0	2.1	1.9	1.9
	2.5	2.6	2.6	2.6	2.5	2.2	2.1	2.2	1.9	1.8	1.7	1.7
	2.5	2.6	2.4	2.3	2.0	1.7	1.6	1.7	1.6	1.6	1.6	1.5
	2.7	2.9	2.8	2.7	2.2	2.2	1.8	1.8	1.8	1.8	1.7	1.7



WNW 14.2% SE 11.3%

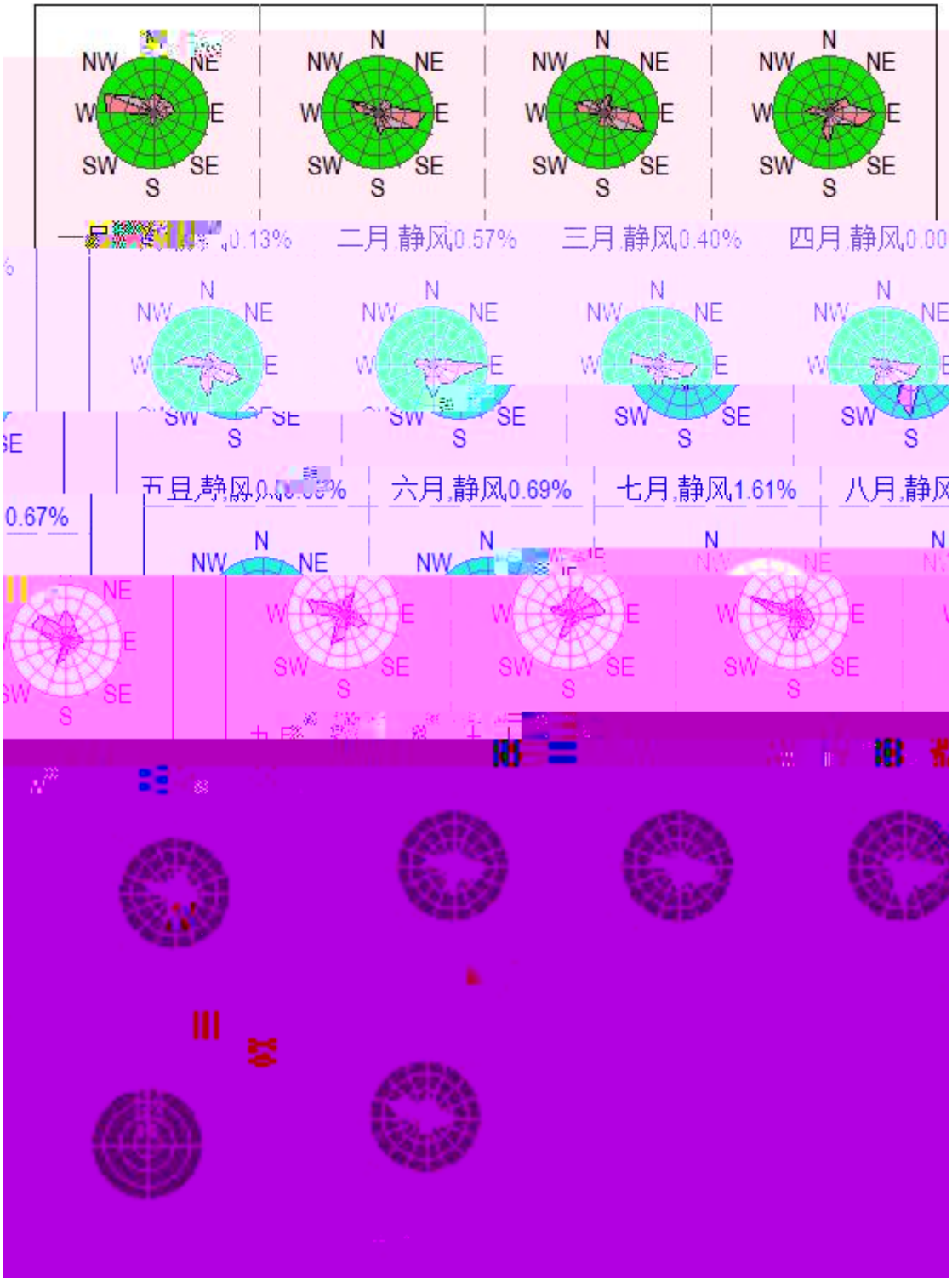


1%

WNW .4% ESE 13.7% SE

18.8% WNW 16.9% 6.1-4 6.1-5 6.1-4

	13.8	13.8	8.2	4.0	3.4	7.1	6.9	1.7	/
	7.5	7.5	8.9	2.0	1.9	7.6	12.3	4.6	/
	6.4	6.4	4.7	1.6	1.1	9.3	14.4	8.8	/
	9.1	9.1	7.0	2.4	2.0	8.5	10.4	4.6	/



5km AERNOD

6.1-6

SO_2 à NO_x à PM_{10} à
PM
1

	/m				/m
	X	Y			
3	218011	3378035	S	145	
4	217969	3378391	N	284	
5	218256	3378359	NE	732	r

6.1-9

(2)

(3) “ ” “ ”

6.1-10

6.1-11

(4)

6.1-12

X	Y	m	m	m	m/s	Ṇ	h	kg/h
DA001								

1.45% 2.40E-1μg/m^3 0.4%

(14)

			/(μg/m^3)		/%	
			2.91E-01	20022104	0.15	
			3.24E-01	20120306	0.16	
			2.78E-01	20090203	0.14	
			1.05E+01	20022201	5.23	

			/(μg/m^3)		/%	
			8.18E-01	20091702	8.18	
			5.77E-01	20021420	5.77	
			3.92E-01	20032806	3.92	
			2.75E-01	20032806	2.75	
			3.27E-01	20100404	3.27	
			3.27E-01	20011819	3.27	
			2.46E-01	20010704	2.46	
			2.74E-01	20101806	2.74	
			1.41E-01	20010704	1.41	
			4.51E-02	20022604	0.45	
			9.99E-02	20101806	1	
			6.05E-02	20101806	0.61	
			1.55E-01	20091303	1.55	
			8.83E-02	20090203	0.88	
		1h	5.47E-02	20042123	0.55	
			5.53E-02	20042723	0.55	
			1.06E-01	20122124	1.06	
			3.71E-02	20042723	0.37	
			5.24E-02	20010703	0.52	
			1.19E-01	20051724	1.19	
			9.15E-02	20061123	0.91	
			7.35E-02	20120321	0.74	
			7.85E-02	20031401	0.78	
			4.90E-02	20091322	0.49	
			2.35E-02	20042306	0.24	
			2.25E-02	20010704	0.22	
			1.89E-02	20110620	0.19	
			4.85E-02	20022104	0.49	
			5.40E-02	20120306	0.54	

	/(μg/m^3)		/%
	4.64E-02	20090203	0.46
	1.74E+00	20022201	17.44

			/(μg/m^3)		/%	
			7.60E-04		0.15	
			7.40E-04		0.15	
			6.80E-04		0.14	
			4.70E-04		0.09	
			1.00E-04		0.02	
			7.00E-05		0.01	
			3.50E-04		0.07	
			2.50E-04		0.05	
			1.80E-04		0.04	
			1.20E-04		0.02	
			1.20E-04		0.02	
			7.00E-05		0.01	
			3.90E-04		0.08	
			1.30E-04		0.03	
			2.10E-04		0.04	
			2.70E-04		0.05	
			2.00E-04		0.04	
			1.80E-04		0.04	
			7.00E-05		0.01	
			1.70E-04		0.03	
			8.00E-05		0.02	
			2.70E-04		0.05	
			3.10E-04		0.06	
			1.00E-04		0.02	
			7.00E-05		0.01	
			6.00E-05		0.01	
			8.00E-05		0.02	
			1.70E-04		0.03	
			1.30E-04		0.03	
			8.00E-05		0.02	
			1.05E-03		0.21	

			/(μg/m^3)		/%	
			1.00E-05		0.2	

			/(μg/m^3)		/%	
			1.00E-05		0.2	
			1.00E-05		0.2	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			0.00E+00		0	
			1.00E-05		0.2	

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			/(μg/m^3)		/%	
			1.51E-01	20062919	0.76	
			1.27E-01	20120402	0.64	
			1.44E-01	20090918	0.72	
			1.22E-01	20080301	0.61	
			1.13E-01	20072819	0.57	
			9.08E-02	20072719	0.45	
			1.02E-01	20112909	0.51	
			8.70E-02	20112909	0.44	
			1.39E-01	20120309	0.7	
			9.00E-02	20102208	0.45	
			9.93E-02	20120309	0.5	
			9.18E-02	20070706	0.46	
			8.83E-02	20082503	0.44	
			7.12E-02	20080803	0.36	
			9.28E-02	20110308	0.46	
			9.28E-02	20083021	0.46	
			3E-01	20072419	0.56	
			7.65E-02	20062422	0.38	
			8.12E-02	20070820	0.41	
			7.52E-02	20092507	0.38	
			6.44E-02	20082505	0.32	
			5.48E-02	20102317	0.27	
			6.32E-02	20070724	0.32	
			7.49E-02	20091218	0.37	
			6.94E-02	20112709	0.35	
			6.50E-02	20102208	0.33	
			2.58E-01	20112712	1.29	
			5.95E-02	201014	0.85	
			8.66E-02	200124	1.24	
			6.45E-02	200819	0.92	
			4.12E-02	200819	0.59	
			1.65E-02	200222	0.24	
			2.61E-02	200722	0.37	
			5.52E-02	201206	0.79	
			3.61E-02	200308	0.52	
			3.09E-02	201206	0.44	

			/(μg/m^3)		/%	
			1.30E-02	201227	0.19	
			1.68E-02	201116	0.24	
			8.74E-03	201116	0.12	
			3.35E-02	201209	0.48	
			1.30E-02	201005	0.19	
			1.73E-02	200128	0.25	
			2.29E-02	200519	0.33	
			1.79E-02	201105	0.26	
			1.51E-02	200329	0.22	
			1.05E-02	200322	0.15	
			2.47E-02	200830	0.35	
			1.50E-02	200322	0.21	
			2.31E-02	200617	0.33	
			1.93E-02	200617	0.28	
			1.30E-02	201106	0.19	
			8.35E-03	201106	0.12	
			8.44E-03	200926	0.12	
			8.70E-03	200926	0.12	
			1.54E-02	201209	0.22	
			1.36E-02	201210	0.19	
			7.79E-03	201005	0.11	
			1.05E-01	200108	1.5	

	/(μg/m^3)		/%
	9.61E-01	20102011	1.92
	7.65E-01	20061921	1.53
	7.93E-01	20062119	1.59

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			/(μg/m^3)		/%	
			4.00E-01	20112909	0.8	
			6.40E-01	20120309	1.28	
			4.13E-01	20102208	0.83	
			4.56E-01	20120309	0.91	
			4.22E-01	20070706	0.84	
			4.05E-01	20082503	0.81	
			3.27E-01	20080803	0.65	
			4.26E-01	20110308	0.85	
			4.26E-01	20083021	0.85	
			5.11E-01	20072419	1.02	
			3.51E-01	20062422	0.7	
			3.73E-01	20070820	0.75	
			3.45E-01	20092507	0.69	
			2.95E-01	20082505	0.59	
			2.52E-01	20102317	0.5	
			2.90E-01	20070724	0.58	
			3.44E-01	20091218	0.69	
			3.19E-01	20112709	0.64	
			2.98E-01	20102208	0.6	
			1.18E+00	20112712	2.37	
			2.73E-01	201014	1.82	
			3.98E-01	200124	2.65	
			2.96E-01	200819	1.97	
			1.89E-01	200819	1.26	
			7.59E-02	200222	0.51	
			1.20E-01	200722	0.8	
			2.53E-01	201206	1.69	
			1.66E-01	200308	1.11	
			1.42E-01	201206	0.95	
			5.97E-02	201227	0.4	
			7.71E-02	201116	0.51	
			4.01E-02	201116	0.27	
			1.54E-01	201209	1.02	
			5.95E-02	201005	0.4	
			7.96E-02	200128	0.53	
			1.05E-01	200519	0.7	

			/(μg/m^3)		/%	
			8.21E-02	201105	0.55	
			6.95E-02	200329	0.46	
			4.84E-02	200322	0.32	
			1.14E-01	200830	0.76	
			6.86E-02	200322	0.46	
			1.06E-01	200617	0.71	
			8.84E-02	200617	0.59	
			5.95E-02	201106	0.4	
			3.83E-02	201106	0.26	
			3.88E-02	200926	0.26	
			4.00E-02	200926	0.27	
			7.09E-02	201209	0.47	
			6.23E-02	201210	0.42	
			3.58E-02	201005	0.24	
			4.81E-01	200108	3.2	

/(μg/m^3

/(μg/m^3) ḍ ˆ v

			/(μg/m^3)		/%	
			4.55E-03		0.01	
			3.14E-03		0	
			2.96E-03		0	
			3.62E-03		0.01	
			7.74E-03		0.01	
			5.90E-03		0.01	
			3.81E-03		0.01	
			4.88E-02		0.07	

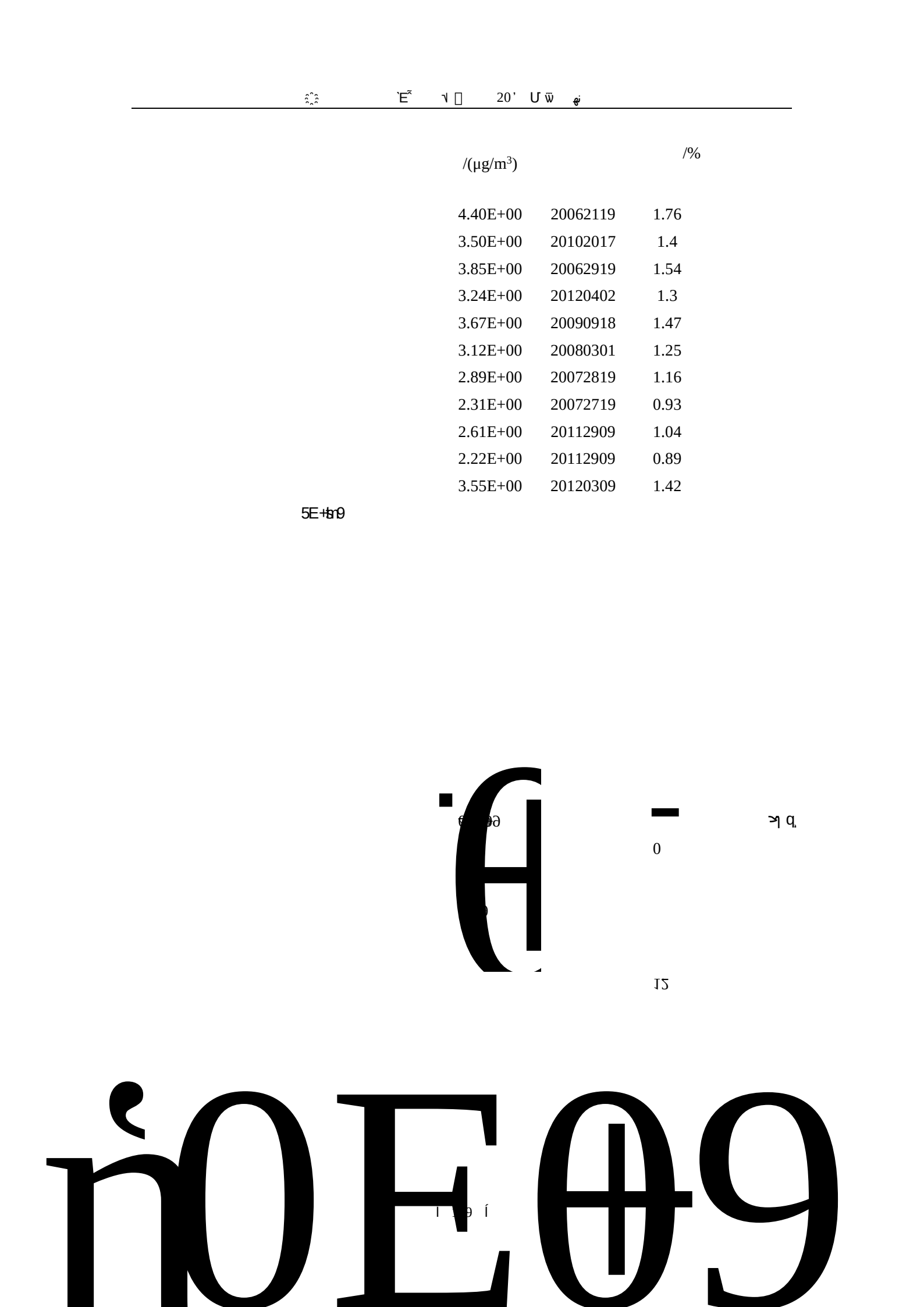
			/(μg/m^3)		/%	
$PM_{2.5}$			1.26E-01	201014	0.17	
			1.83E-01	200124	0.24	
			1.37E-01	200819	0.18	
			8.72E-02	200819	0.12	
			3.50E-02	200222	0.05	
			5.54E-02	200722	0.07	
			1.17E-01	201206	0.16	
			7.65E-02	200308	0.1	
			6.55E-02	201206	0.09	
			2.75E-02	201227	0.04	
			3.56E-02	201116	0.05	
			1.85E-02	201116	0.02	
			7.09E-02	201209	0.09	
			2.74E-02	201005	0.04	
			3.67E-02	200128	0.05	
			4.86E-02	200519	0.06	
			3.79E-02	201105	0.05	
			3.21E-02	200329	0.04	
			2.23E-02	200322	0.03	
			5.24E-02	200830	0.07	
			3.17E-02	200322	0.04	
			4.89E-02	200617	0.07	
			4.08E-02	200617	0.05	
			2.74E-02	201106	0.04	

			/(μg/m^3)		/%	
			1.77E-02	201106	0.02	
			1.79E-02	200926	0.02	
			1.84E-02	200926	0.02	
			3.27E-02	201209	0.04	
			2.87E-02	201210	0.04	
			1.65E-02	201005	0.02	
			2.22E-01	200108	0.3	
			1.77E-02		0.05	
			1.71E-02		0.05	
			1.57E-02		0.04	
			1.10E-02		0.03	
			2.41E-03		0.01	
			1.63E-03		0	
			8.02E-03		0.02	
			5.70E-03		0.02	
			4.17E-03		0.01	
			2.78E-03		0.01	
			2.67E-03		0.01	
			1.55E-03		0	
			9.13E-03		0.03	
			2.98E-03		0.01	
			4.86E-03		0.01	
			6.33E-03		0.02	
			4.69E-03		0.01	
			4.14E-03		0.01	
			1.59E-03		0	
			3.84E-03		0.01	
			1.86E-03		0.01	
			6.35E-03		0.02	
			7.09E-03		0.02	
			2.27E-03		0.01	
			1.57E-03		0	
			1.48E-03		0	
			1.81E-03		0.01	
			3.87E-03		0.01	
			2.95E-03		0.01	

/(μg/m^3) Ẽ

/(μg/m³)	/%
5.19E+00	2.59
2.77E+00	1.39
1.27E+00	0.63
5.91E-01	0.3
1.43E+00	0.71
7.03E-01	0.35
4.59E-01	0.23
6.43E-01	0.32
1.50E-01	0.07
7.67E-02	0.04
1.59E-01	0.08
6.29E-02	0.03
4.58E-01	0.23
1.53E-01	0.08
1.92E-01	0.1
2.00E-01	0.1
1.40E-01	0.07
1.09E-01	0.05
2.39E-01	0.12
2.76E-01	0.14
4.49E-01	0.22
1.25E-01	0.06
1.59E-01	0.08
4.94E-02	0.02
3.07E-02	0.02
2.91E-02	0.01
3.81E-02	0.02
1.32E-01	0.07
K,3,0E-01	

/(μg/m³)		/%
4.40E+00	20062119	1.76
3.50E+00	20102017	1.4
3.85E+00	20062919	1.54
3.24E+00	20120402	1.3
3.67E+00	20090918	1.47
3.12E+00	20080301	1.25
2.89E+00	20072819	1.16
2.31E+00	20072719	0.93
2.61E+00	20112909	1.04
2.22E+00	20112909	0.89
3.55E+00	20120309	1.42



/(μg/m^3)

			/(μg/m^3)		/%	
			1.87E+00	20102208	0.37	
			2.07E+00	20120309	0.41	
			1.91E+00	20070706	0.38	
			1.84E+00	20082503	0.37	
			1.48E+00	20080803	0.3	
			1.93E+00	20110308	0.39	
			1.93E+00	20083021	0.39	
			2.32E+00	20072419	0.46	
			1.59E+00	20062422	0.32	
			1.69E+00	20070820	0.34	
			1.57E+00	20092507	0.31	
			1.34E+00	20082505	0.27	
			1.14E+00	20102317	0.23	
			1.32E+00	20070724	0.26	
			1.56E+00	20091218	0.31	
			1.44E+00	20112709	0.29	
			1.35E+00	20102208	0.27	
			5.37E+00	20112712	1.07	
			1.24E+00	201014	0.83	
			1.80E+00	200124	1.2	
			1.34E+00	200819	0.89	
			8.57E-01	200819	0.57	
			3.44E-01	200222	0.23	
			5.44E-01	200722	0.36	
			1.15E+00	201206	0.77	
			7.52E-01	200308	0.5	
			6.44E-01	201206	0.43	
			2.70E-01	201227	0.18	
			3.50E-01	201116	0.23	
			1.82E-01	201116	0.12	
			6.96E-01	201209	0.46	
			2.70E-01	201005	0.18	
			3.61E-01	200128	0.24	
			4.77E-01	200519	0.32	
			3.72E-01	201105	0.25	
			3.15E-01	200329	0.21	

/%

/(μg/m^3)

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/(μg/m^3)

(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
3.28E-01	0.16	113	1.13E+02	56.41
3.31E-01	0.17	113	1.13E+02	56.42
6.35E-01	0.32	113	1.13E+02	56.57
2.22E-01	0.11	113	1.13E+02	56.36
3.14E-01				

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(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
1.03E-01	0.52	1.64	1.74E+00	8.72
1.03E-01	0.52	1.64	1.74E+00	8.72
9.22E-02	0.46	1.64	1.73E+00	8.66
7.86E-02	0.39	1.64	1.72E+00	8.59
8.84E-02	0.44	1.64	1.73E+00	8.64
8.18E-02	0.41	1.64	1.72E+00	8.61
8.31E-02	0.42	1.64	1.72E+00	8.62
7.39E-02	0.37	1.64	1.71E+00	8.57
5.68E-02	0.28	1.64	1.70E+00	8.48
4.75E-02	0.24	1.64	1.69E+00	8.44
5.50E-02				

1h

(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
3.27E-02	0.47	1.06	1.09E+00	15.61
2.23E-02	0.32	1.06	1.08E+00	15.46
8.90E-03	0.13	1.06	1.07E+00	15.27
1.63E-02	0.23	1.06	1.08E+00	15.38

23

			(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%	
			2.73E-01	1.82	2.44	2.72E+00	18.11	
			3.98E-01	2.65	2.44	2.84E+00	18.93	
			2.96E-01	1.97	2.44	2.74E+00	18.26	
			1.89E-01	1.26	2.44	2.63E+00	17.54	
			7.59E-02	0.51	2.44	2.52E+00	16.79	
			1.20E-01	0.80	2.44	2.56E+00	17.08	
			2.53E-01	1.69	2.44	2.70E+00	17.97	
			1.66E-01	1.11	2.44	2.61E+00	17.39	
			1.42E-01	0.95	2.44	2.58E+00	17.23	
			5.97E-02	0.40	2.44	2.50E+00	16.68	
			7.71E-02	0.51	2.44	2.52E+00	16.8	
			4.01E-02	0.27	2.44	2.48E+00	16.55	
			1.54E-01	1.02	2.44	2.60E+00	17.31	
			5.95E-02	0.40	2.44	2.50E+00	16.68	
			7.96E-02	0.53	2.44	2.52E+00	16.81	
			1.05E-01	0.70	2.44	2.55E+00	16.99	
			8.21E-02	0.55	2.44	2.52E+00	16.83	
			6.95E-02	0.46	2.44	2.51E+00	16.75	
			4.84E-02	0.32	2.44	2.49E+00	16.61	
			1.14E-01	0.76	2.44	2.56E+00	17.04	
			6.86E-02	0.46	2.44	2.51E+00	16.74	
			1.06E-01	0.71	2.44	2.55E+00	16.99	
			8.84E-02	0.59	2.44	2.53E+00	16.87	
			5.95E-02	0.40	2.44	2.50E+00	16.68	
			3.83E-02	0.26	2.44	2.48E+00	16.54	
			3.88E-02	0.26	2.44	2.48E+00	16.54	
			4.00E-02	0.27	2.44	2.48E+00	16.55	
			7.09E-02	0.47	2.44	2.51E+00	16.76	
			6.23E-02	0.42	2.44	2.50E+00	16.7	
			3.58E-02	0.24	2.44	2.48E+00	16.52	
			4.81E-01	3.20	2.44	2.92E+00	19.49	

HCl

1/2 10μg/m^3

3.97~4.33μg/m^3

.455μg/m^3 2.44μg/m^3

(μg/m^3)

(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
0.00E+00	0	105	1.05E+02	70
-1.89E-01				

(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76
0.00E+00	0	57	5.70E+01	76

5

$PM_{2.5}$

(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67
0.00E+00	0	125	1.25E+02	41.67

TSP

0.0

25.5μg/m^3

(μg/m^3) (μg/m^3) (μg/m^3) (μg/m^3) /%

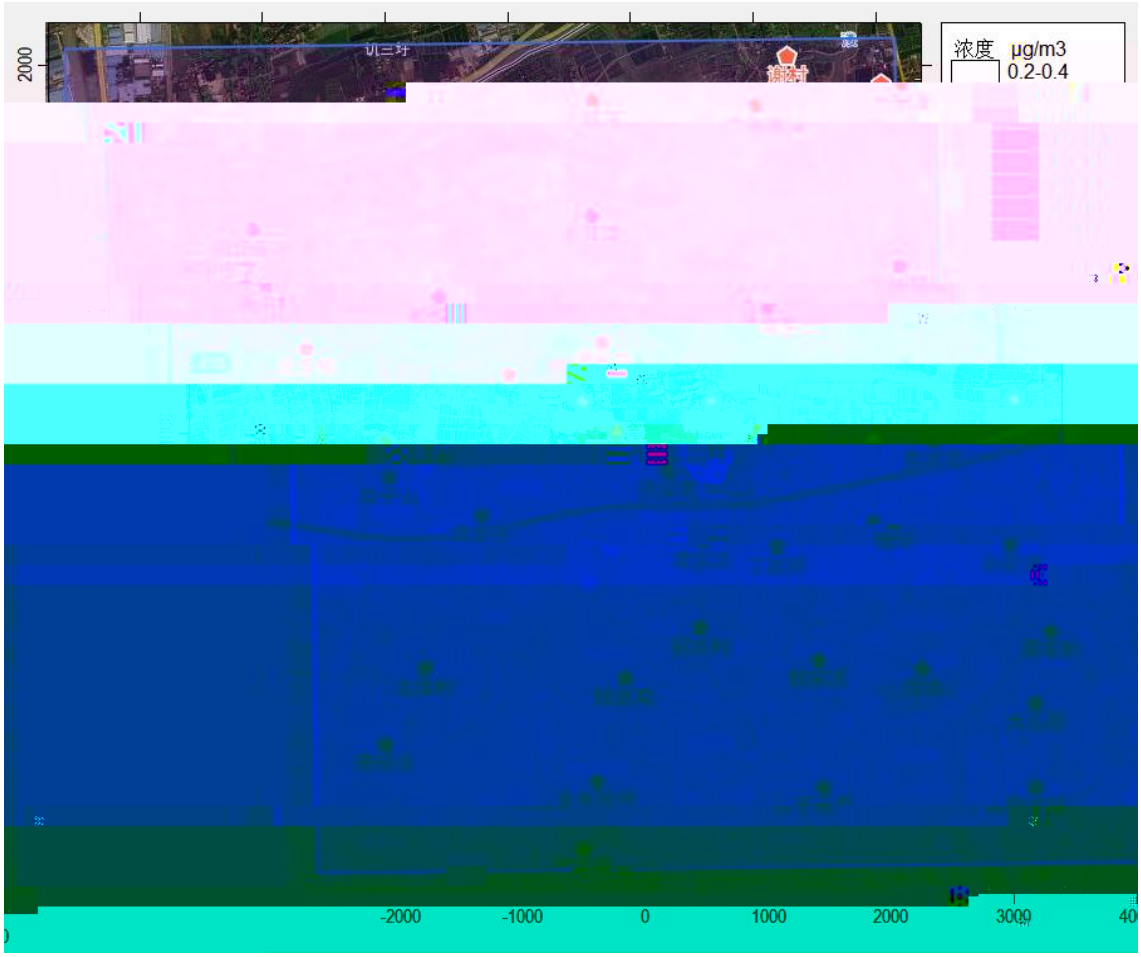
0.00E+00

SO_2

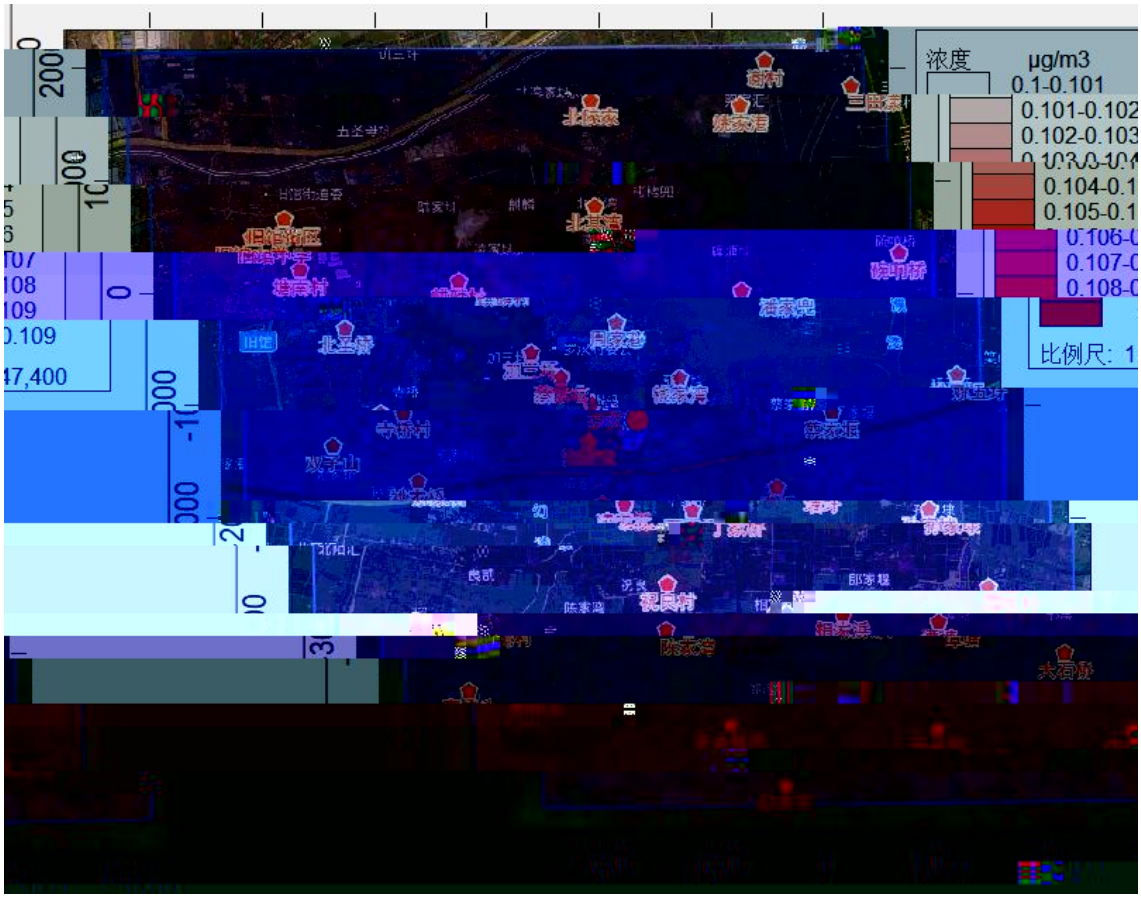
(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%
0.00E+00	-0.73			

(μg/m^3)	(μg/m^3)	(μg/m^3)	(μg/m^3)	/%	
2.56E-03	21.33	0.002	9.68E-03	80.67	
3.72E-03	31	0.002	1.08E-02	90.33	
2.77E-03	23.08	0.002	9.89E-03	82.42	
1.77E-03	14.75	0.002	8.89E-03	74.08	3

$7.12\times10^{-3}\mu g/m^3$


浓度 μg/m3
0.2-0.4
2000
-2000
-1000
0
1000
2000
3000

浓度 μg/m3
2000
-2000
0
1000
3000


浓度 μg/m3
0.1-0.101
0.101-0.102
0.102-0.103
0.104-0.1
0.105-0.1
0.106-0
0.107-0
0.108-0
比例尺: 1
北陈家
烧家洼
三岔子
北王营
月家沟
双子山
郎家堰
陈家湾
大石沟

μg/m2
五圣母村
双子山
北陌汇
高碑头
朱家板桥

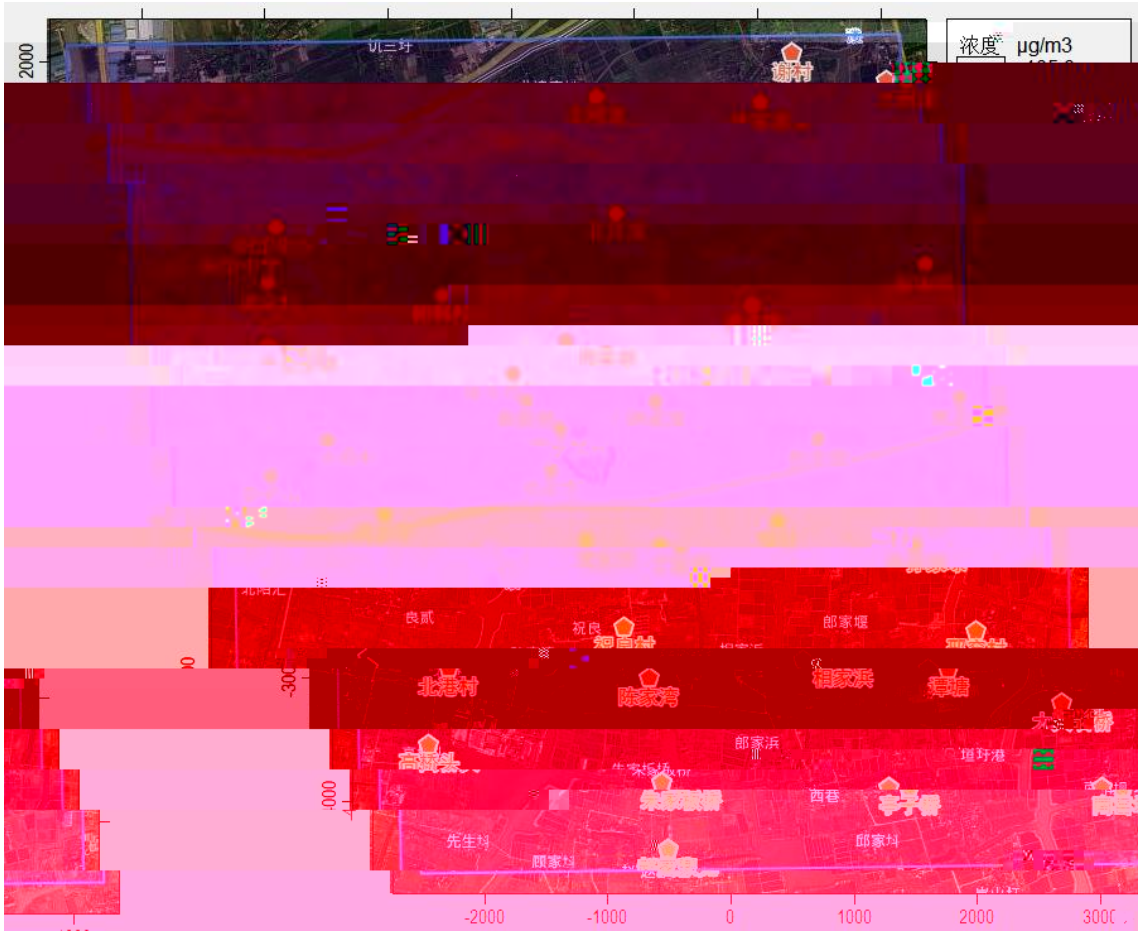
00
20
47,400
1000
比例尺:
m3
100
-2000
-1000
0
1000

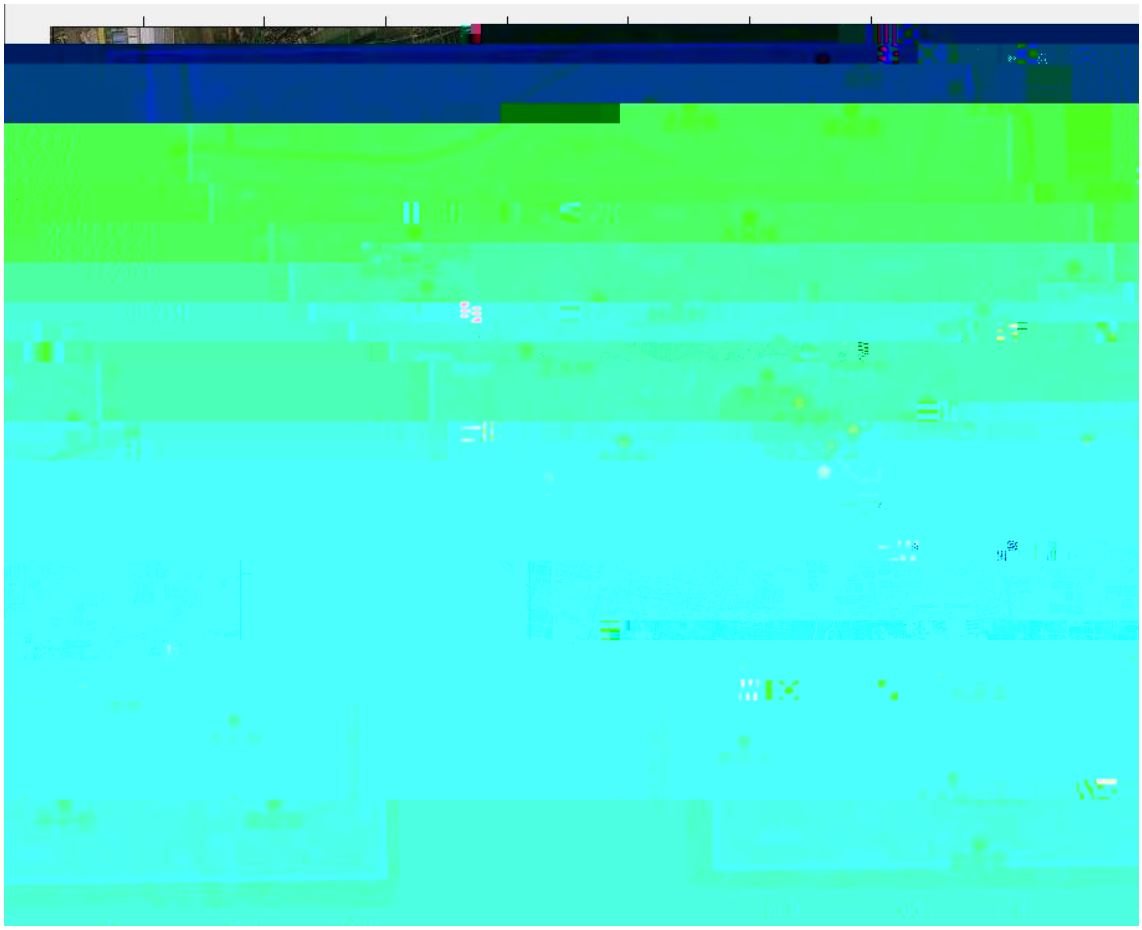
浓度 μg/m3
1.66
1.68
1.7
1.72
1.74
北陵家
姚家港
三岡镇
塘前村

北阳江
陈家滩
相家浜

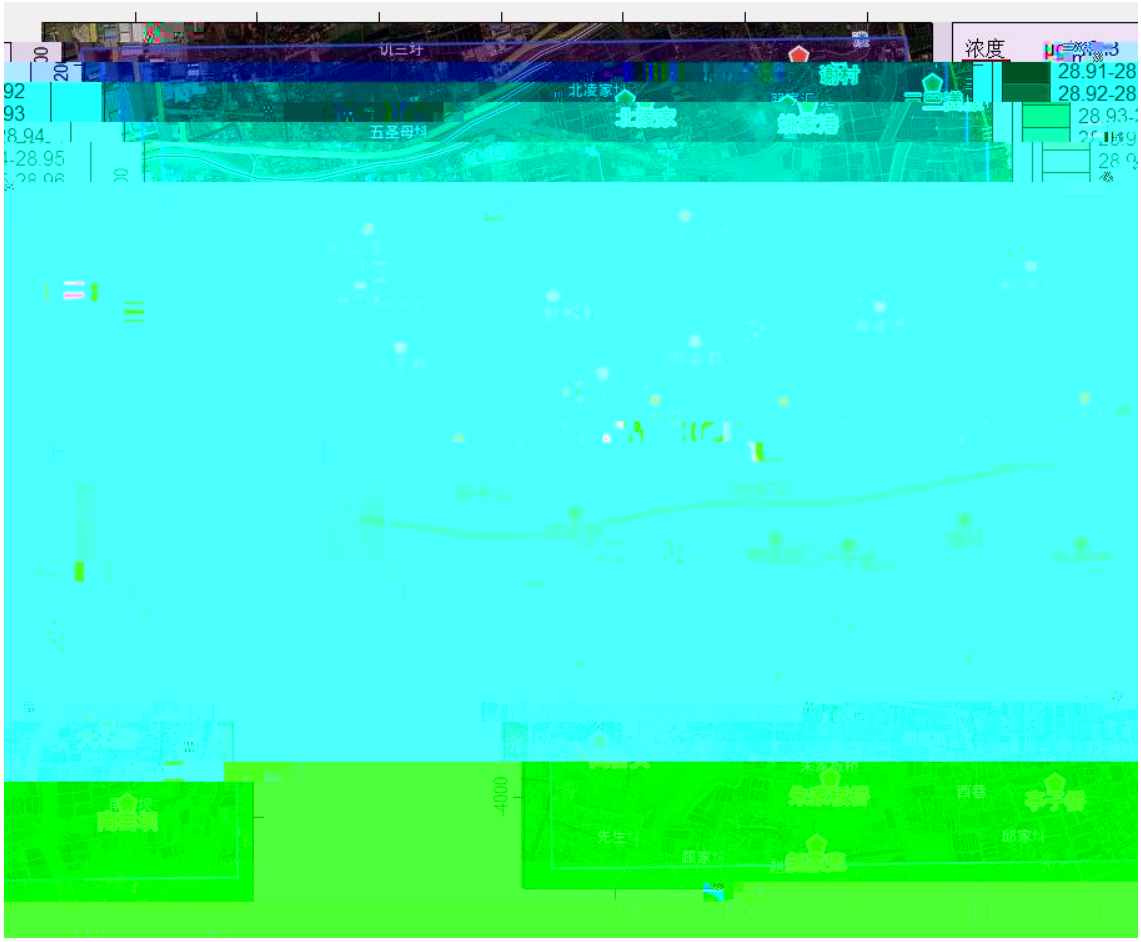
浓度 μg

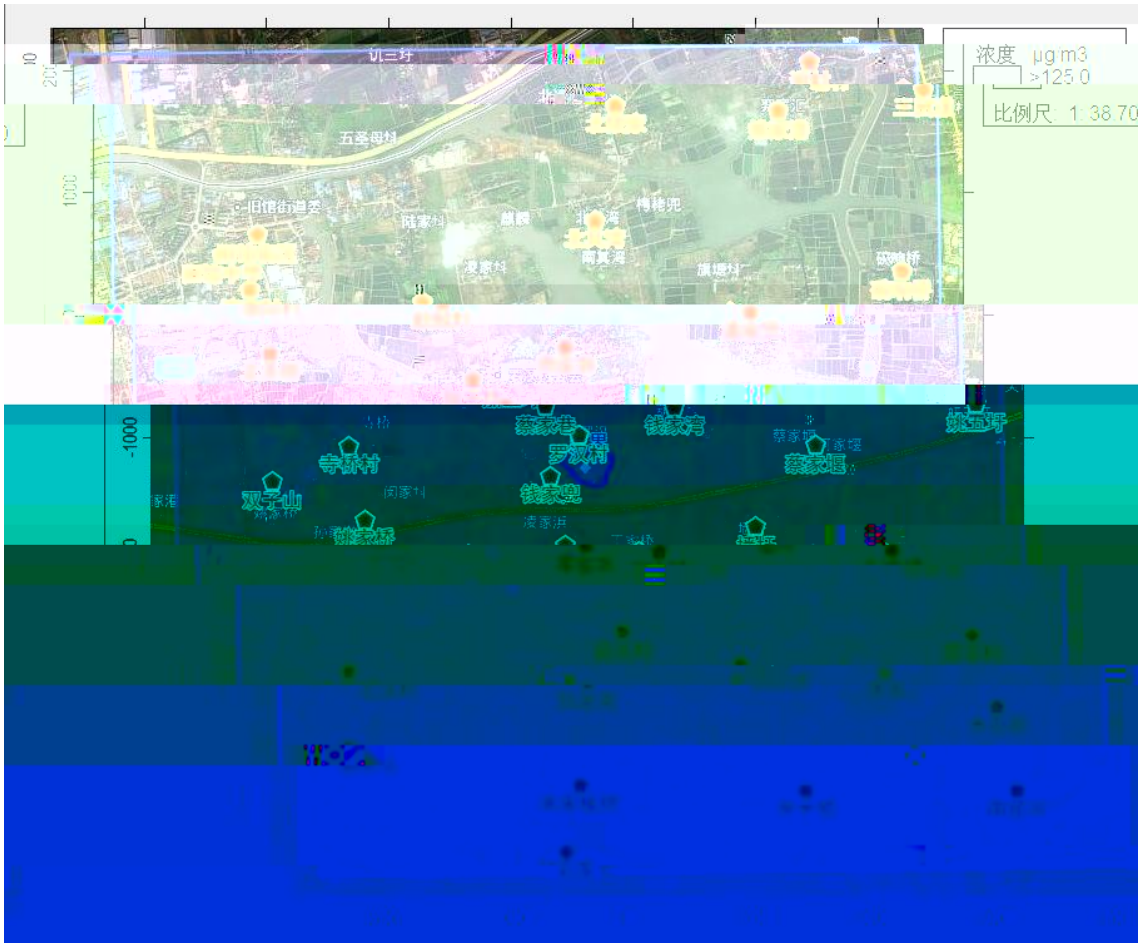
浓度 μg/m
10.4
10.6
10.8
0.8
38,700
1000
3000
300
比例尺
北港村
郎家浜
埭圩港
西巷

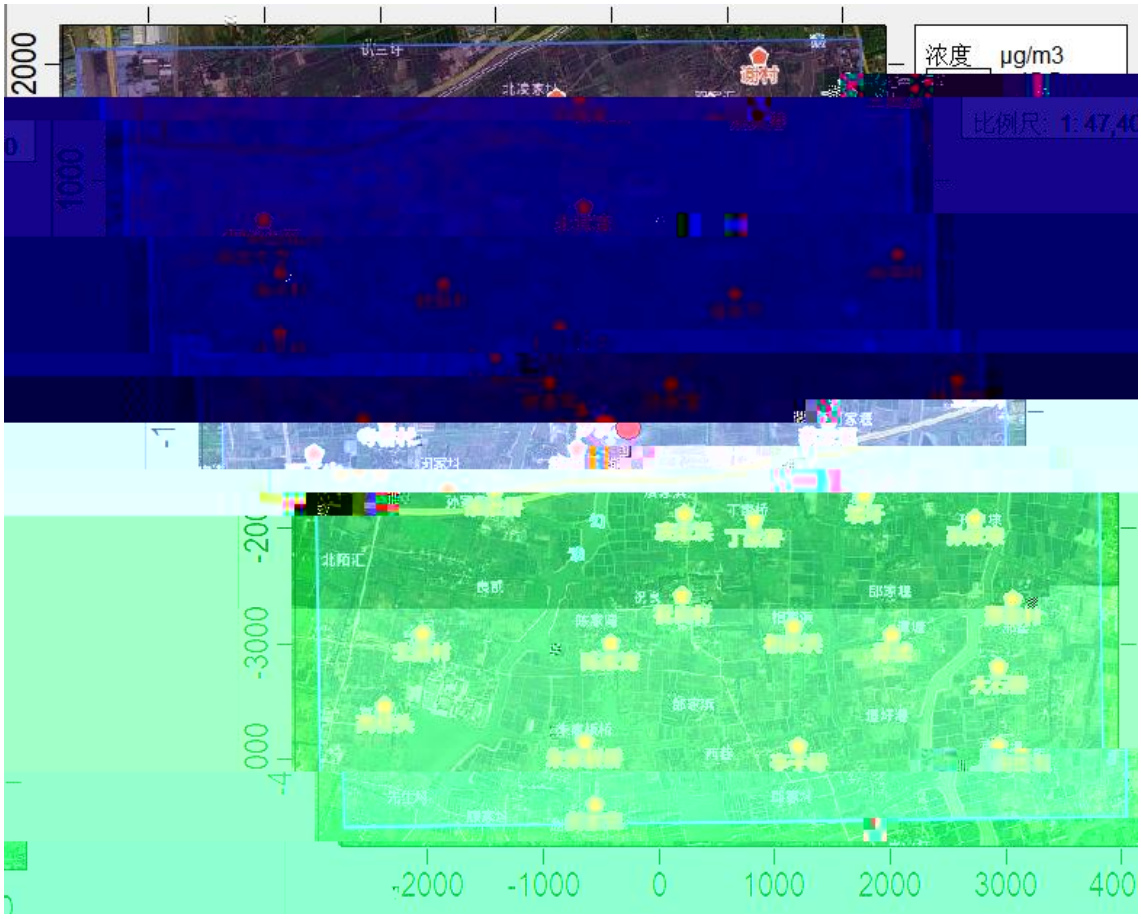

浓度 μg/m3
2000
北港村
陈家湾
郎家浜
-2000
-1000
0
1000
2000

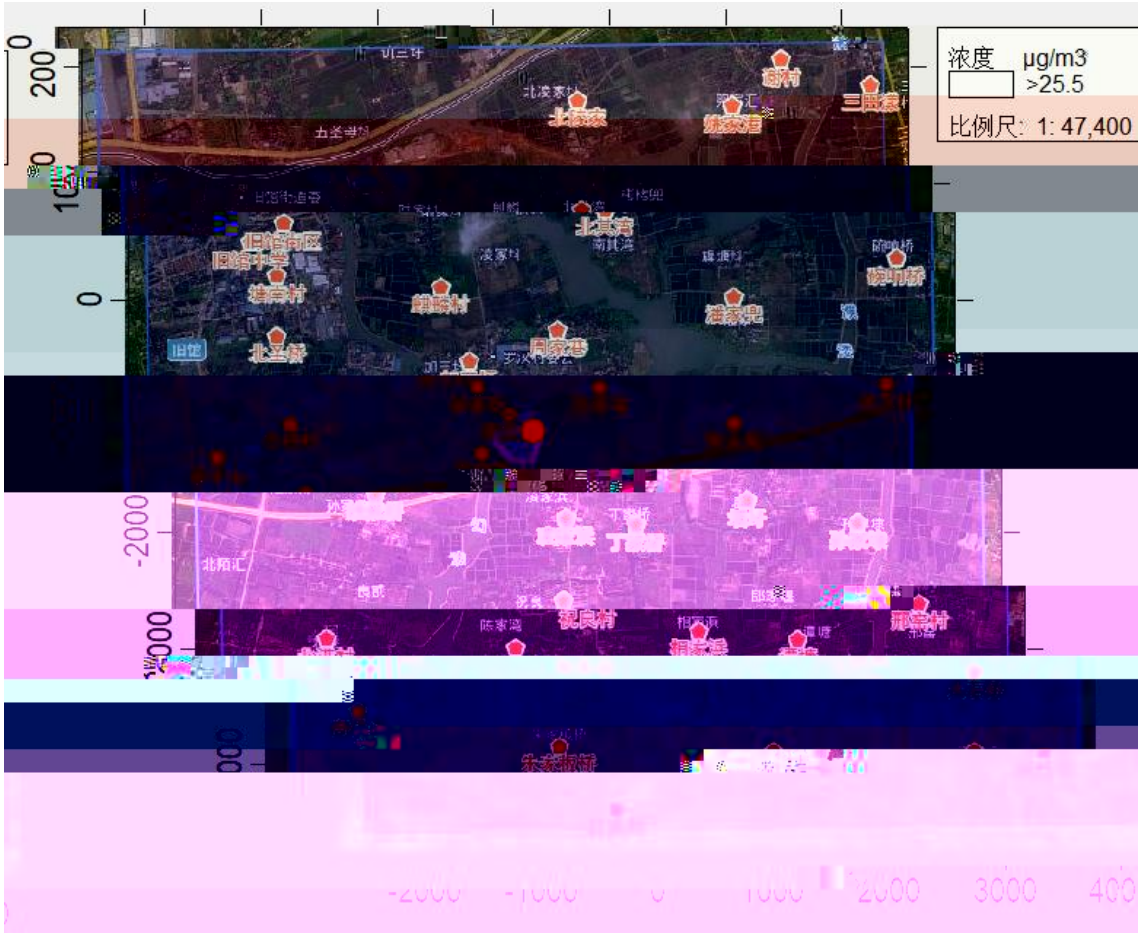


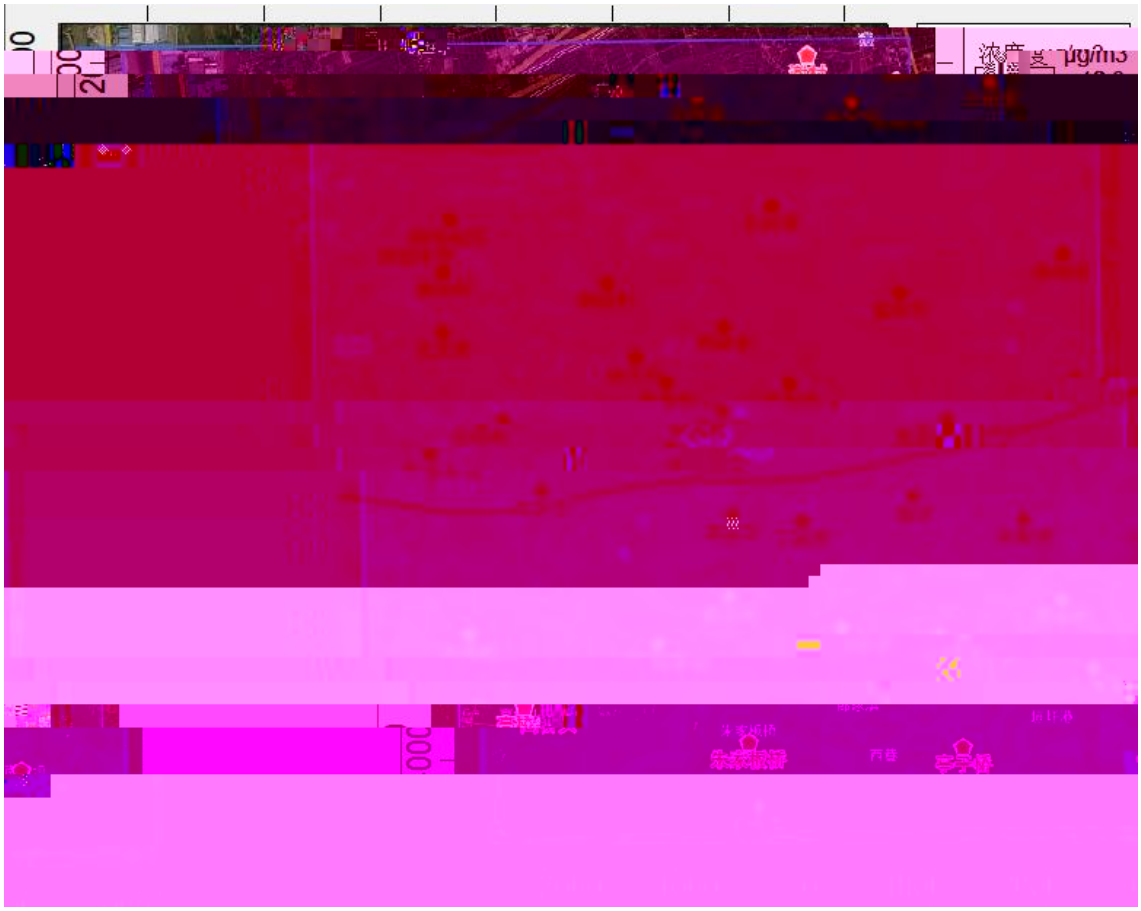
五堡村
塘南村
麒麟村
驼峰村

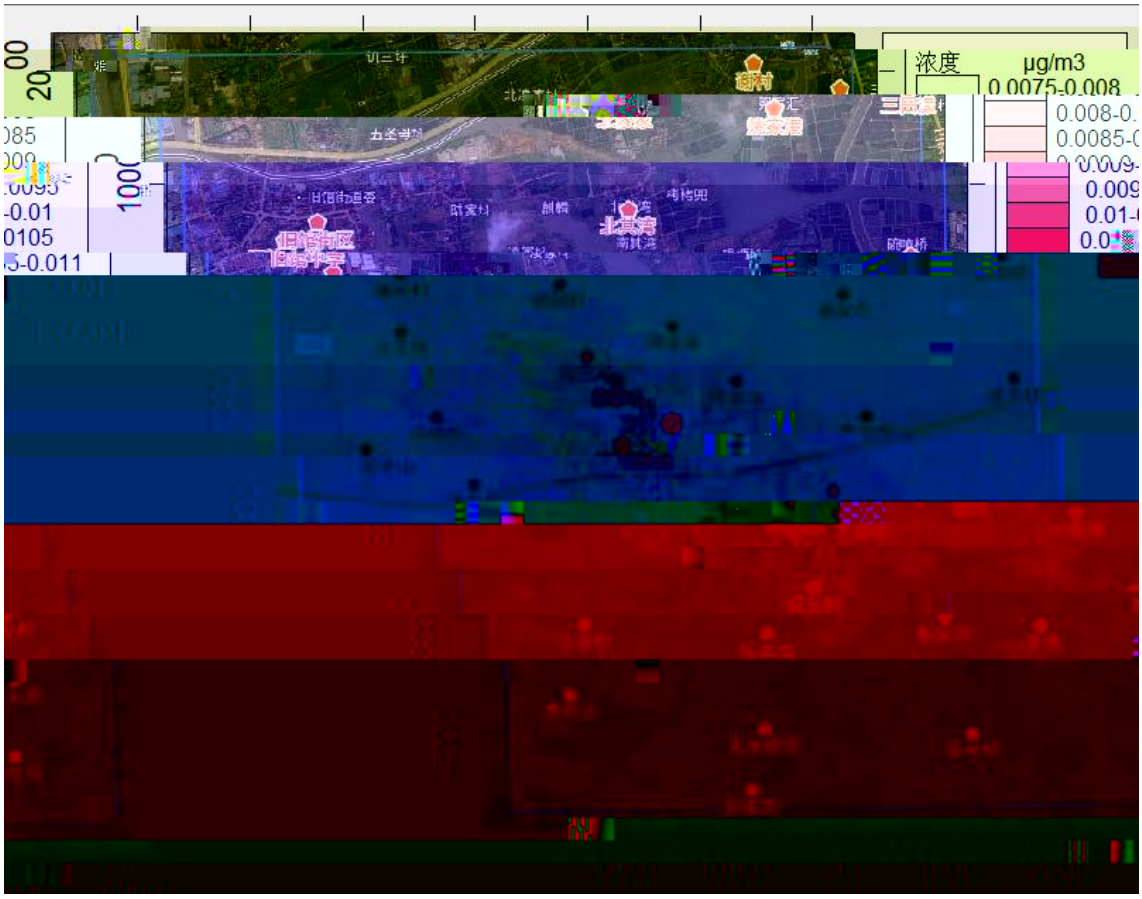

浓度
28.91-28
28.92-28
28.93-
五圣母村
北凌家
400
西巷
先生斗
顾家斗
邱家斗


浓度 μg/m3
>125.0
比例尺 1:38,70
五圣母村
旧馆街道委
陆家村
梅花兜
南复河
旗塘村
欧家桥
蔡家港
钱家湾
姚西圩
寺前村
罗汉村
蔡家堰
双子山
钱家墩
闵家村
凌家浜
-1000


浓度 μg/m3
比例尺: 1:47,40
2000
1000
-1
-2000
-1000
0
1000
2000
3000
400


浓度 μg/m3
>25.5
比例尺: 1: 47,400
北陵家
杨家渡
三眼桥
北王家
周家港
北阳汇
祝良村
相家渡
-2000
-1000
0
1000
2000
3000


浓度 μg/m3



1h

6.1-41~6.1-43

/%

/(μg/m^3)

			/(μg/m^3)		/%	
			1.66E+00	20082503	8.32	
			1.30E+00	20072106	6.52	
			1.77E+00	20110308	8.84	
			1.69E+00	20083022	8.44	
			2.03E+00	20072419	10.16	
			1.32E+00	20063020	6.58	
			1.48E+00	20070820	7.4	
			1.36E+00	20092507	6.82	
			1.09E+00	20052705	5.46	
			1.10E+00	20102317	5.52	
			1.25E+00	20070724	6.27	
			1.46E+00	20120309	7.29	
			1.35E+00	20112709	6.75	
			1.28E+00	20112709	6.42	
			3.77E+00	20030312	18.83	

			/(μg/m^3)		/%	
			1.07E+01	20102011	4.27	
			8.50E+00	20061921	3.4	
			8.81E+00	20062119	3.53	
			7.00E+00	20102017	2.8	
			7.72E+00	20062919	3.09	
			6.49E+00	20120402	2.6	
			7.35E+00	20090918	2.94	
			6.24E+00	20080301	2.5	
NOx		1h	5.79E+00	20072819	2.31	
			4.63E+00	20072719	1.85	
			5.23E+00	20112909	2.09	
			4.44E+00	20112909	1.78	
			7.12E+00	20120309	2.85	
			4.59E+00	20102208	1.84	
			5.07E+00	20120309	2.03	
			4.69E+00	20070706	1.87	
			4.50E+00	20082503	1.8	
			3.63E+00	20080803	1.45	

					/%	
			4.73E+00	0110308	1.8	
			4.74E+00	83021	1	
			5.69E+00	72419	2	
			3.90E+00	2422	1	
			4.14E+00	70820	1	
			3.84E+00	92507		
			3.28E+00	0082505	1.31	
				20102317	1.12	
			3.23E+00	20070724	1.29	
			3.82E+00	20091218	1.53	
			3.54E+00	20112709	1.42	
			3.32E+00	20102208	1.33	
			1.32E+01	20112712	5.27	

SO_2 HCl

NOx

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8~9

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1.54ppm

0.041ppm (ppm) (mg/m³)

X=M/22.4×C×273/(273+T)

21.7μg/m^3

3.61μg/m^3

1

2 “

+ + ”

3

6000

2022

		mg/m^3	kg/h
		0.082~0.11	0.015-0.021
		0.0066~0.01	0.0012~0.00188
		100~110	/
		0.06~0.12	/
		0.002~0.003	/
		11~15	/

GB14554-93

(HJ2.2-2018)

5.23%

17.44% 0.1%

(9) PM_{10}

1.05E+02μg/m³ 70% 5.30E+01μg/m³

75.71%

(10) $PM_{2.5}$

5.70E+01μg/m³ 76% 2.90E+01μg/m³

82.86%

(11) TSP

1.25E+02μg/m³ 41.67%

(12) NOx

4.55E+01μg/m³ 18.2% 2.55E+01μg/m³

25.5%

(13) SO_2

1.20E+01μg/m³ 8% 6.00E+00μg/m³ 10%

(14)

1.16E-02μg/m³ 96.83%

+ -“ ”

			(mg/m³)	(kg/h)	(t/a)
1	(DA001)		3.010	0.903	6.502
		SO_2	8.840	2.652	19.095
		NOx	15.184	4.555	32.796
			1.880	0.564	4.061
			0.098	0.030	0.213
			0.001	0.0003	0.002
			0.002	0.001	0.005

		(t/a)
1		9.693
2	SO_2	19.095
3	NOx	32.796
4		4.061
5	HCl	0.213
6	Hg	0.002
7	Cd+Ti	0.005
8	Sb+As+Pb+Cr+Co+Cu+Mn+Ni	0.234
9		45.36mg/a

		=50km	5~50km	=5km
	SO_2+NO_x	≥2000t/a	500~2000t/a	500t/a
		(SO_2 à NO_2 à PM_{10} à $PM_{2.5}$ à CO à O_3) (TSP à HCl NH_3 à H_2S)	$PM_{2.5}$ $PM_{2.5}$	
			D	
		(2020)		
		AERMOD / ADMS / AUSTAL 2000 / EDMS/AEDT / CALPUFF		
		≥50km	5~50km	=5km
		(SO_2 à NO_2 à PM_{10} à $PM_{2.5}$ à HCl à NH_3 à H_2S à HF à Hg à Pb à Cd à à TSP)	$PM_{2.5}$ $PM_{2.5}$	
		C ≤100%	C 100%	

	C	≤10%	C 10%
	C	≤30%	C 30%
1h	C	≤100%	C 100%
(1)h			

C C

≤-20% -20%

(

SO_2 à HF à
NO_X àHCl à

		Q/m^3/d W/
		Q≥20000 W≥600000
A		Q 200 W 6000
B		/

B

- (HJ2.3-2018)

B a)

b)

200mg/L SS

200mg/L SS

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		A B		
		40% 40%		
		□		
			(pH)	(1)
		(/)km (/)km²		
		pH		
		Ň ň ŉ Ŋ ŋ (/)		

( )

			/m					
			X	Y	Z	/dB(A)		
1		2	185	74	1	90		24h

/m /m /dB(A)

(/ /dB(A)

) /dB(A) X Y Z /dB(A) w

2

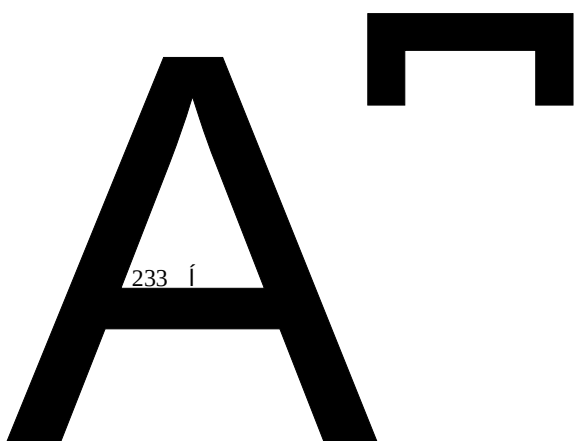
6.3-3

1		m/s	2.28
2		/	ESE
3			11.7
4		%	80
5		atm	1

10m

6.3-4

/m						
X	Y	Z	(dB(A))	(dB(A))	(dB(A))	(dB(A))
192	71	1	43.5	59.0	59.1	70
			43.5	49.2	50.2	55
115	-66	1	24.5	59.3	59.3	70
			24.5	49.4	49.4	55
50	-60	1				



		/dB(A)		/dB(A)		/dB(A)		/dB(A)		/dB(A)		/dB(A)			
1		58.1	48.5	58.1	48.5	60	50	19.0	19.0	58.1	48.5	0	0		
2		58.1	48.5	58.1	48.5	60	50	21.1	21.1	58.1	48.5	0	0		
3		58.1	48.5	58.1	48.5	60	50	19.0	19.0	58.1	48.5	0	0		

.

(GB3096-2008)2

6.3-1 6.3-2

(GB12348-2008) 4

(GB12348-2008) 2

(GB3096-2008) 2

6.3-5

		□ □		
		200m	200 m□	200 m□
		A	A □	□
			□	□

0 □ 1 □ 2 3 4a 4b □

□ □ □

□ □

100%

□

□

200 m 200 m □ 200 m □

A A □

□

□

□ □

□ □

0

([2017] 43)

(1)

$80m^2$

(GB18597-2001)

$80m^2$ 100t

809.4t

32.83t 3 10.65t

≤10^{-7}cm/s

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(2)

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(3)

HW08 HW49

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(II2) (ђ2)

(Ŋ2)

COD_{Cr}

COD_{Cr}1000mg/L 500mg/L

COD_{Mn} COD_{Mn} COD_{Cr} 1/4 COD_{Mn} 250mg/L

D.1.2.1.2

x

$$\frac{C}{C_0}=\frac{1}{2}erfc(\frac{x-ut}{2\sqrt{D_L t}})+\frac{1}{2}e^{\frac{ux}{D_L}}erfc(\frac{x+ut}{2\sqrt{D_L t}})$$

x— m

t— d

C—t x g/L

C_0— g/L

u— m/d

D_L- m^2/d

erfc—

A

U=K×I/n

U—— m/d

K—— m/d

I—— ‰

n——

K 0.003m/d I 2.5 n 0.49 U=0.015m/d

B

D_L=aL×U

D_L—— m2/d

aL—— m

Gelhar

10.0m D_L=0.15m^2/d

6.5-1

	u m/d	DL m^2/d	C_0 mg/L	
	0.015	0.15	250	200

COD 6.5-2 6.5-3

m	30d	100d	1a	1000d	10a	20a	30a
1	189.0	232.8	257.8	247.0	217.4	208.9	207.2
2	142.0	212.4	254.3	247.4	217.7	209.0	207.2
3	98.7	190.3	250.1	247.8	218.1	209.1	207.2
4	63.1	167.0	245.2	248.1	218.5	209.1	207.4
5	37.0	143.6	239.6	248.2	218.9	209.2	207.4
6	19.8	120.7	233.2	248.2	219.3	209.3	207.4
7							

m	30d	100d	1a	1000d	10a	20a	30a
9	1.7	62.2					

m	30d	100d	1a	1000d	10a	20a

m	30d	100d	1a	1000d	10a	20a	30a
115	0.0	0.0	0.0	0.0	160.0	173.8	169.7
120	0.0	0.0	0.0	0.0	157.9	173.3	170.3
125	0.0	0.0	0.0	0.0	155.6	172.7	170.7
130	0.0	0.0	0.0	0.0	152.7	172.0	171.1
135	0.0	0.0	0.0	0.0	149.4	171.2	171.5
140	0.0	0.0	0.0	0.0	145.4	170.4	171.7

COD_{Mn} 30 8m 100 16m 1

40m 30 10m 100 20m 1

45m 30 COD_{Mn} 140m

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(HJ169-2018)

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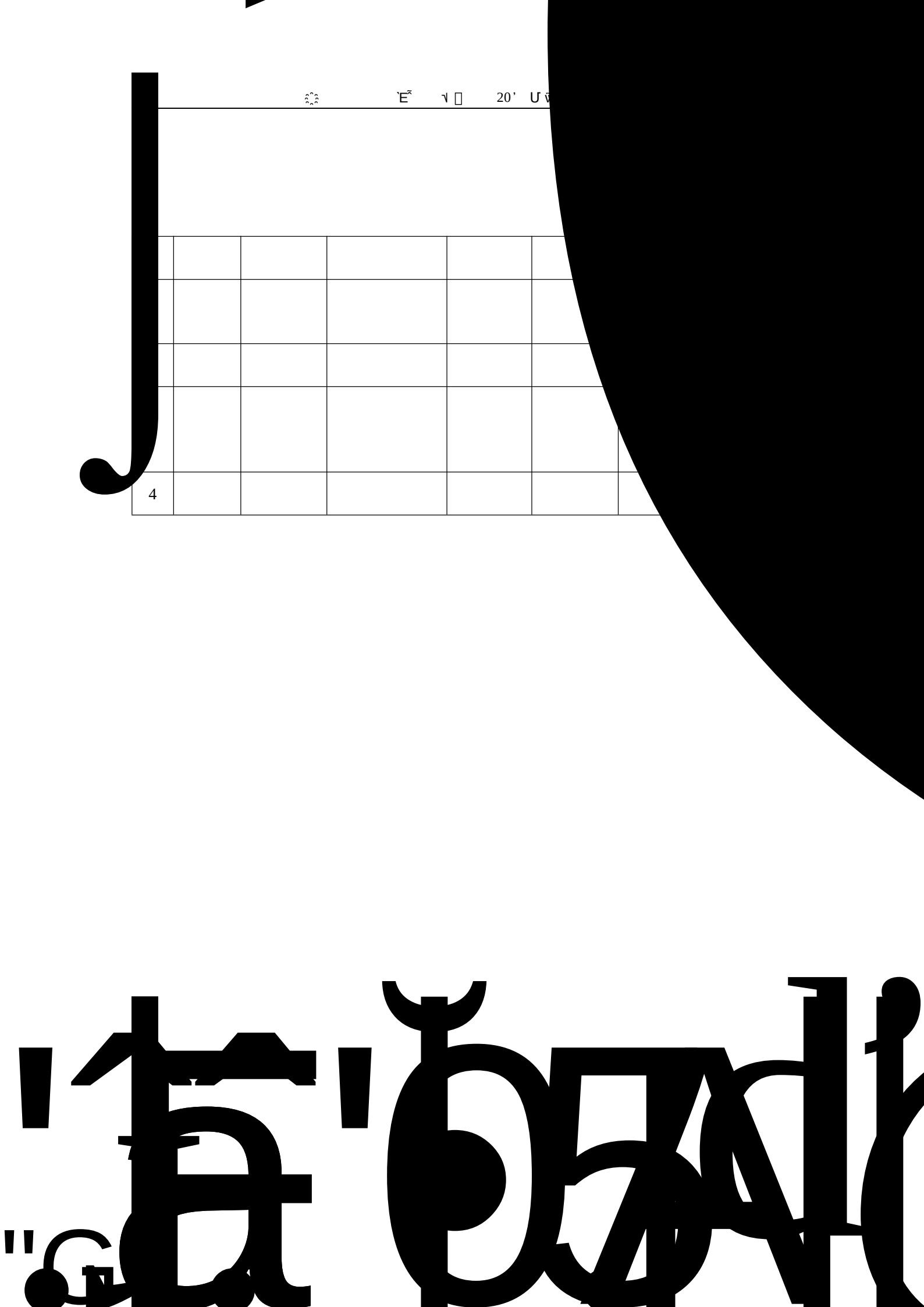
6.6-4

	20				
	( )	( )	( )	(/)	399
		120.296919		30.822534	
	1 2				
( )	1 2 3 4 5				
	1 2 (GB18597-2001) 3 4 5 6				



7

≥ P6

8

[2006]10 (

) (HJ471-2020)6.1.7 “

”

$$V = (V_1+V_2-V_3)_{max} + V_4 + V_5$$

$(V_1+V_2-V_3)_{max}$ $V_1+V_2-V_3$

V_1—

0

V_2— m^3

V2=ΣQ t

Q — m^3/h

t — h

GB50974-2014 25L/S 1h

90m^3

V_3— m^3 0

V_4— m^3

0

V_5— m^3

$V_5=10\cdot q\cdot F$

q F

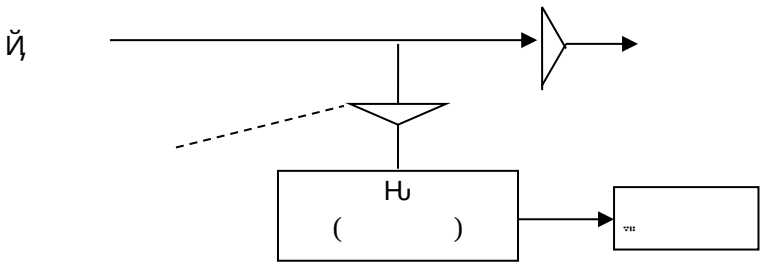
1.0 1391.3mm 144 ע ŧ

V =183m^3

183m^3 200m^3

100m^3

6.6-1



6

2022 143

(GB36600-2018)

(GB 15618-2018)

Rs ھ ُ @ ض ا ч غ

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	/			
			NOx	

1

pH

2

3

1

200m

2

E

$$\Delta S = n(I_s - L_s - R_s)/(\rho_b \times A \times D)$$

ΔS—— g/kg

Is —— g

Ls—— g

Rs—— g

ρb—— kg/m^3

A—— m^2

D—— 0.2m

n—— a

$$S = S_b + \Delta S$$

S_b—— g/kg

S—— g/kg

0.482t/a 0.0005t/a 0.0032t/a

45.36mg/a

1300kg/m^3

200m 38 m^2 5~15

6.7-2

g/kg	ΔS			0.17
	5	10	15	
	0.02439	0.04879	0.07318	

	5	10	15	
	0.07199	0.09639	0.12078	
g/kg	ΔS			0.0006
	5	10	15	
	0.000025	0.000051	0.000076	
	5	10	15	
	0.000431	0.000457	0.000482	
g/kg	ΔS			0.0034
	5	10	15	
	0.00016	0.00032	0.00049	
	5	10	15	
	0.00080	0.00096	0.00112	
ng/kg	ΔS			40
	5	10	15	
	2.30	4.59	6.89	
	5	10	15	
	4.80	7.09	9.39	

5 10 15

0.07199g/kg 0.09639g/kg 0.12078g/kg 5 10 15

0.000431g/kg 0.000457g/kg 0.000482g/kg 5

10 15 0.00080g/kg 0.00096g/kg 0.00112g/kg

5 10 15 4.80g/kg 7.09ng/kg

9.39ng/kg

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>(GB18599-2001) 3

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(4.8)hm^2

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		GB36600-2018 45 GB15618-2018 8	
		GB36600-2018 45 GB15618-2018 8	
		GB15618 GB36600 D.1 D.2 ( )	
		( ) (GB36600-2018) ( ) (GB36600-2018) (GB15618-2018) 1	
		E F□ ()	
		(200m) ( )	
		a) b) c) a) b)	
		( )	
				5 1
		( ) (GB36600-2018) ( ) (GB36600-2018) (GB15618-2018) 1	
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3400t/a

90t/a

2000

COD_{Cr} 500mg/L 200mg/L

SS 200mg/L

SS

1 HCl

SO_2

2

3

4

“SNCR+ - + ”

51m

1

≤ 50mg/Nm^3

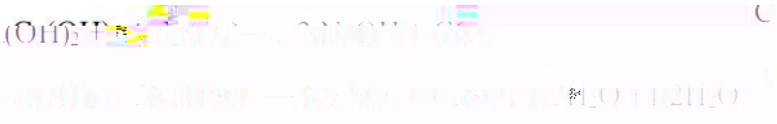
WESP

2

$SO_2+2NaOH=Na_2SO_3+H_2O$

$SO_3+2NaOH=Na_2SO_4+H_2O$

$Ca(OH)_2$



$$Na_2S+3NO_2 \rightarrow 2NaNO_3+S\downarrow+1/2N_2\uparrow$$

-

pH

v

% mg/m^3 mg/m^3

	kg/h	0 238-	0.06
	ng-TEQ/m^3	0.0074-0.023	0.1

2017

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~0.069ng-TEQ/m^3

-TEQ/m^3

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15m

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GBJ87-85

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				(t/a)		
1			/	4.74		
2			HW49 900-039-49	5		
3			HW49 772-006-49	329.9		

(1)

GB 18599-2020

(GB18597-2001) (

[2001]199) (HJ2025-2012)

([2009]51)

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1 (≤10^{-7} /) 2

2 ≤10^{-10} /

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(GB15562.2-1995)

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80m^2

		HW49	HW49 900-039-49		80m^2		2t	3
		HW49	HW49 772-006-49				55t	

334.9t

30t 3 5t

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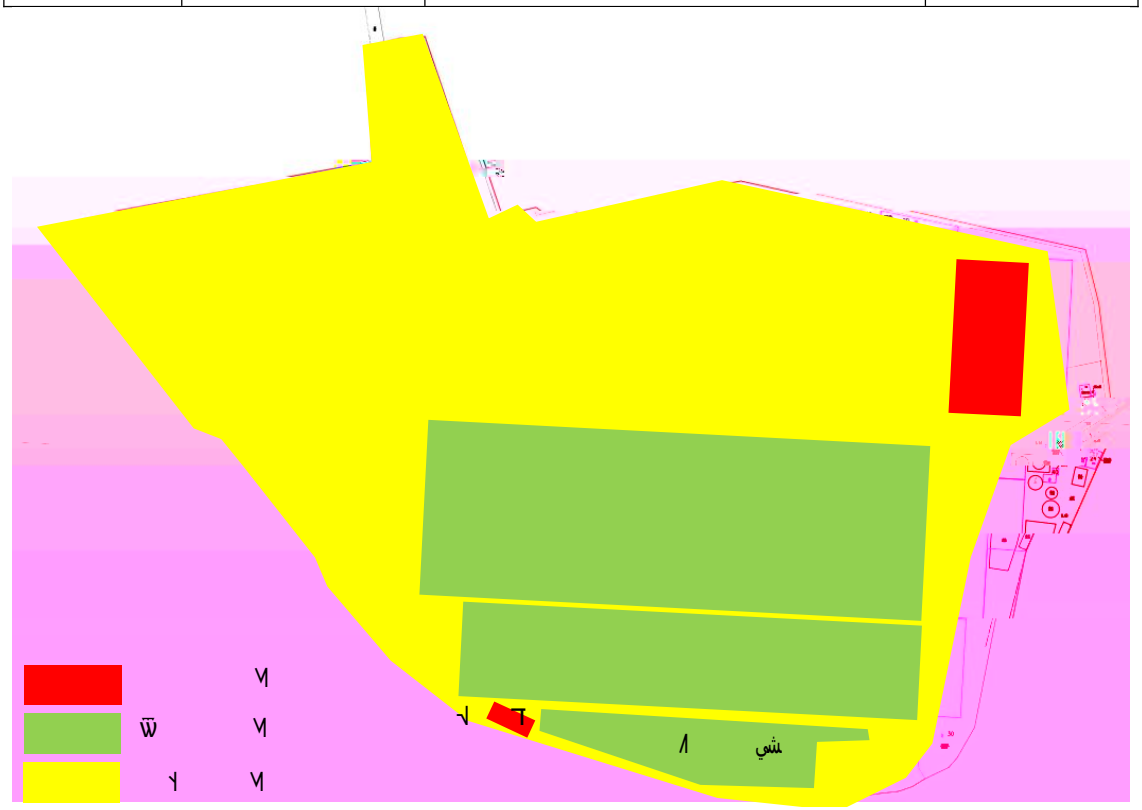
7.2-6 7.2-2

			k≤10-12cm/s
		≥ P6	
			K≤1 × 10-7cm/s
		-	



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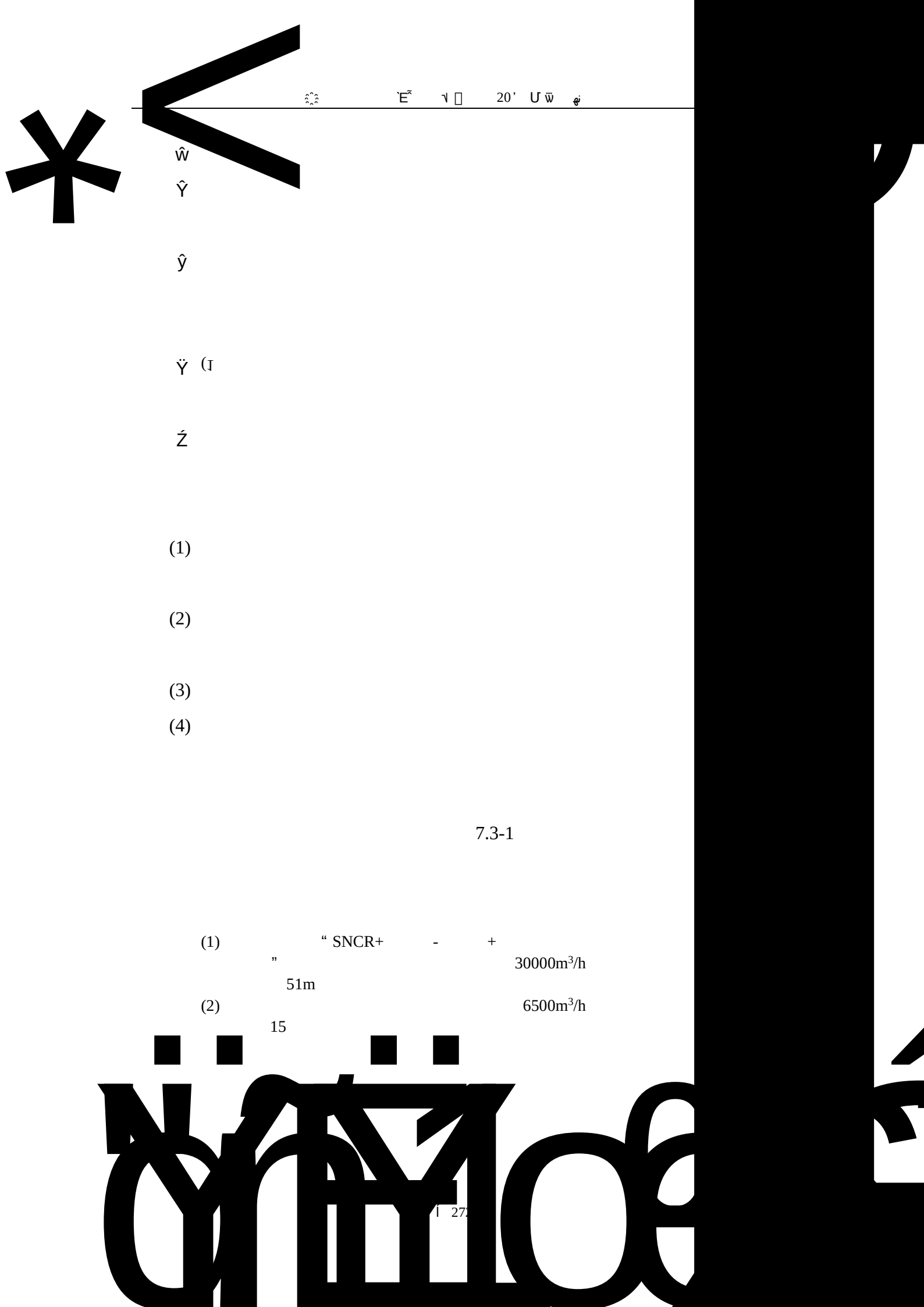
7.3-1

(1) “ SNCR+ - +
” 30000m³/h
51m

(2) 6500m³/h
15



	(2) (3)	
		(GB12348-2008) 2 (GB12348-2008) 4 (GB3096-2008) 2
	(1) $80m^2$ (2)	

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7.5-1

				( )
			SNCR+ - +	
				40
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204 / 7.5-2

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HJ954-2018

HJ1033-2019

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9.4-2

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SO_2 à NO_x à PM_{10} à $PM_{2.5}$ à TSP à HCl à NH_3 à H_2S à

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9.6-1

SO_2 HF NOx HCl Hg
Cd Pb m" 3

HJ954-2018

HJ1033-2019

9.6-2

SO_2 NOx

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pH COD_{Cr}

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GB15562-1-1995

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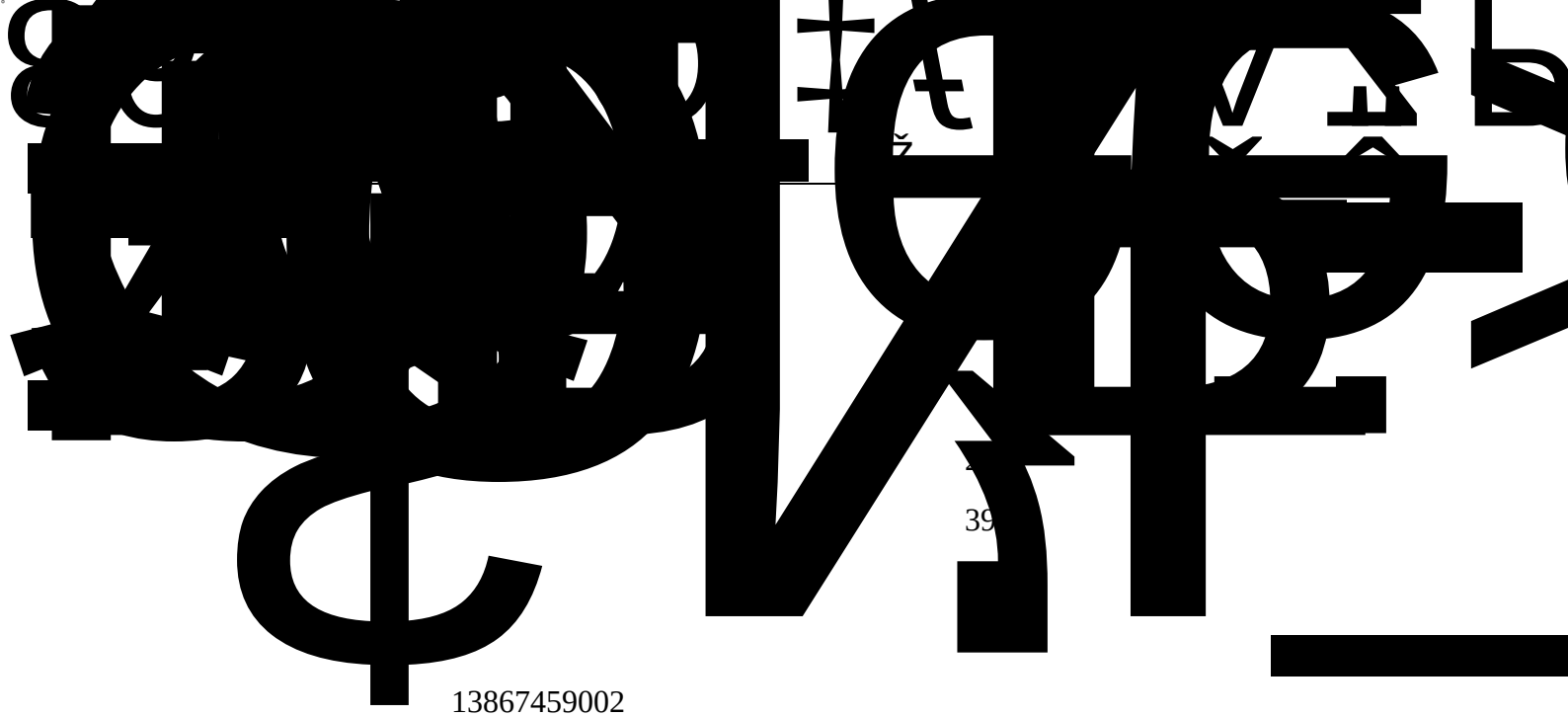

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GB15618-2018 1

(GB3096-2008) 4a

(GB3096-2008) 2

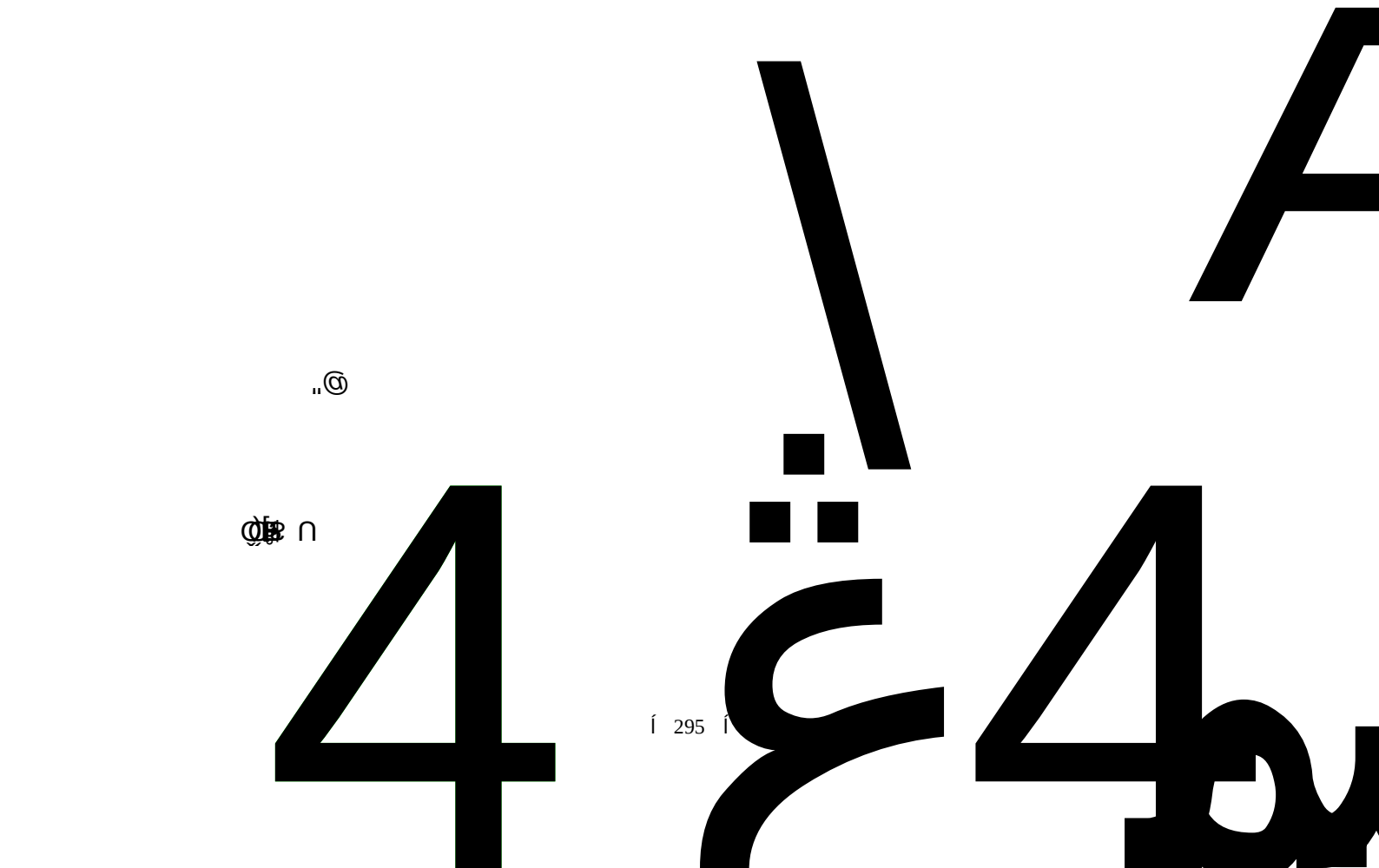
10.3-1

			3400	/	3400	
	COD_{Cr}		1.7	1.564	0.136	
			0.119	0.112	0.007	
			65.017	58.515	6.502	SNCR+ - +
		SO_2	190.951	171.856	19.095	
		NOx	81.991	49.195	32.796	
			10.153	6.092	4.061	
		Hg	4.252	4.039	0.213	
		Cd+Ti	0.024	0.022	0.002	
		Sb+As+Pb+Cr+Co+Cu+Mn+Ni	0.054	0.241	0.005	
		Hg	2.338	1.926	0.234	
			45.36mg/a	0	45.36mg/a	
			12.3	11.45	0.84	+ +

□

(HJ2.2-2018)

(1) ≤100%



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10.8-1

(1) “ SNCR+ - + GB18485-2014 ” 65000m^3/h 45m

(2) 6500m^3/h 15

(3) GB29620-2013

GB14554-93

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COD_{Cr} SO_2 NOx ( )

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