5.1 16
5.2 6
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

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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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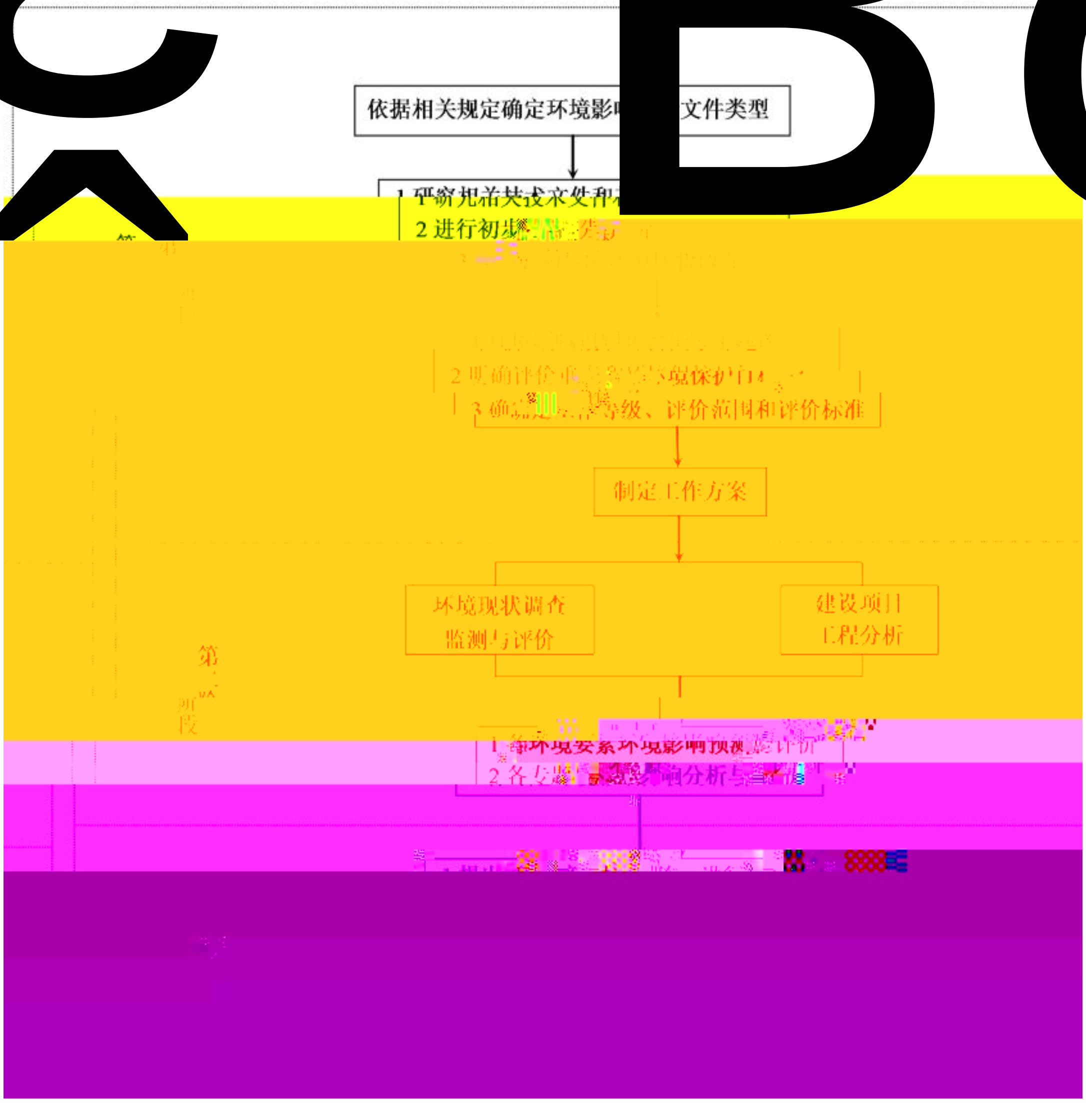
1.3-1


依据相关规定确定环境影响评价文件类型
1 研究相关技术文件和其他有关文件
2 进行初步工程分析
2 明确评价重点和环境保护目标
3 确定评价工作等级、评价范围和评价标准
制定工作方案
环境现状调查
监测与评价
建设项目
工程分析
第
二
阶
段
1 各环境要素环境影响预测与评价
2 各专题环境影响分析与评价

399

(2019) 2021

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2412-330502-07-02-384079

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2018.1.1)

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(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) (2017.10.1)

(10) (GB/T13201-91)

(11) (HJ884-2018)

(12)

(HJ1033-2019)

(13) (GB34330-2017)

(14) (GB50B

	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/m^3	24	4	4	
		1	10	10	
O_3	µg/m^3	8	100	160	
		1	160	200	
$PM_{2.5}$	µg/m^3		40	70	
		24	50	150	
PM_{10}	µg/m^3		15	35	
		24	35	75	
TSP	µg/m^3		80	200	
		24	120	300	
NO_X	µg/m^3		50	50	
		24	100	100	
		1	250	250	
Pb	µg/m^3		0.5	0.5	GB3095-2012 A.1
			1	1	
Cd	µg/m^3		0.005	0.005	
Hg	µg/m^3		0.05	0.05	
As	µg/m^3		0.006	0.006	
F	µg/ dm^2 ·d	1	20	20	
		24	7	7	
			1.8	3.0	
			1.2	2.0	

	µg/m^3	1	200	HJ2.2-2018
	µg/m^3	1	10	
	µg/m^3	1	50	
			15	
	pgTEQ/m^3		0.6	

(2)

ʼn 2.2-4

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

ŉ	≤1	≤1.0	≤0.0001	≤0.005	≤0.01

(3)

(GB/T14848-2017) ŉ “

” 2.2-5

		ŉ			ŉ
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			

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4a	70	55

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GB8978-1996

DB33/887-2013 2.2-9

CODCr 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
50	60	75	
H_2S	15	0.33	0.06
	60	5.2	
51m 6.1.2			

51m

DA002 15m

DA003 GB16297-1996

		(kg/h)		
	mg/m^3	m		mg/m^3
	120	15	10	

AERSCREEN

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

C_{0i}— i μg/m^3 C_{0i} GB3095 1h

		Q 200 W 6000
		/

B

- (HJ2.3-2018)

B a) ɤ

6km^2

- ( ) (HJ964-2018) A

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		I	II	III	IV
		( )			/
				( )	

4.36hm^2 (≤5hm^2)

- ( ) (HJ964-2018) 3“

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- ( ) (HJ964-2018) 4“

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N7723

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1375.48hm^2

1050hm^2 325.45hm^2

2

1

7km

653hm²

0.9 5.2m^3/

2

2

140 hm² 40 hm²

1100 " "

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443.00hm²

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		(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
湖州市科学技术局
龙溪
5km
G318
G25
康山街道
湖州市城区
月河街道
钱山下村

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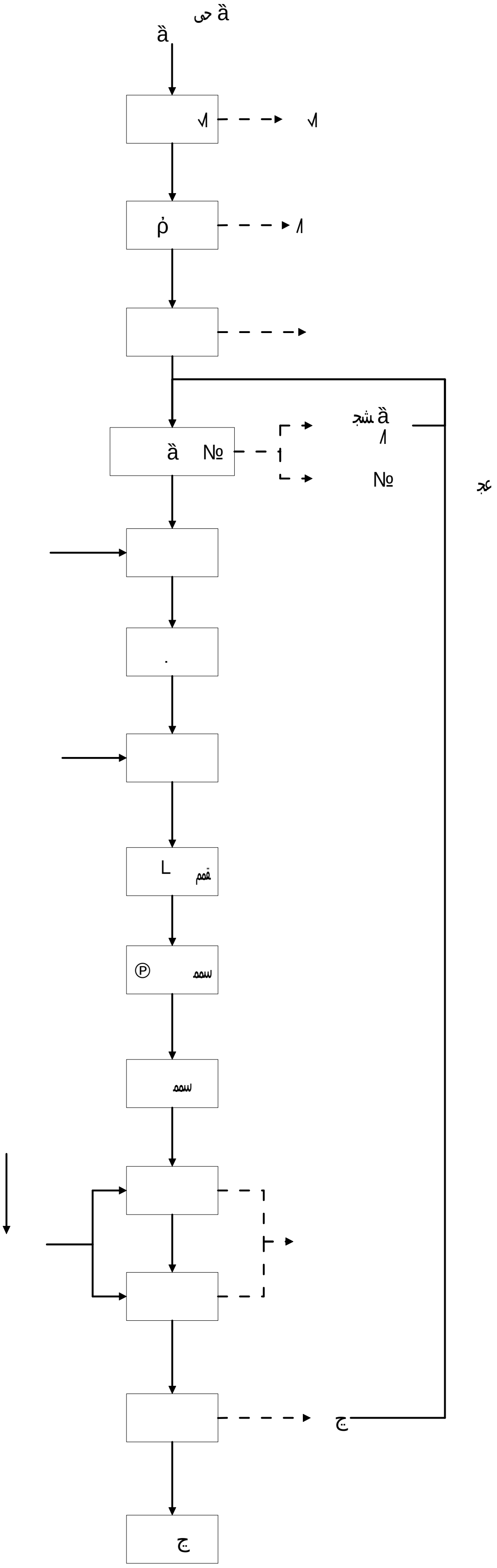
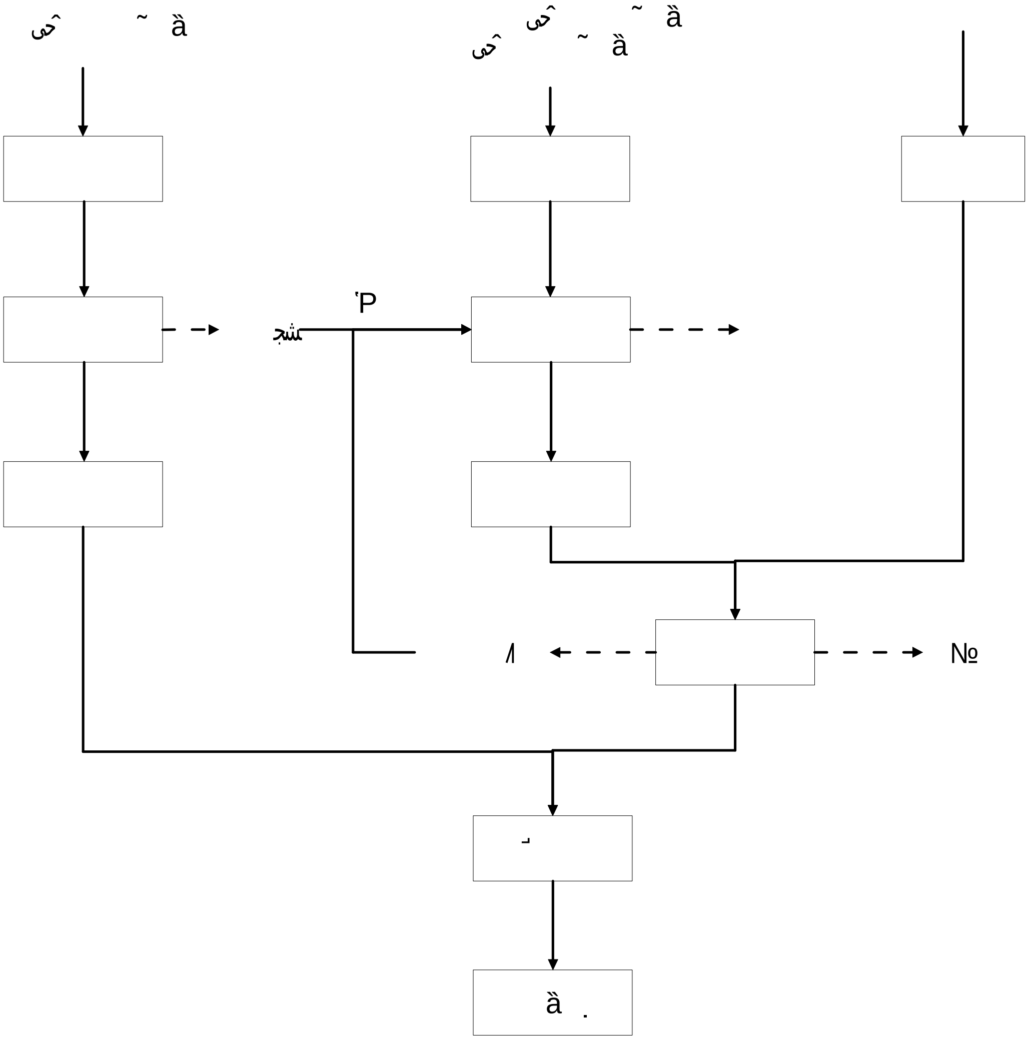
3.3-1

			(/)	(/)	(/)
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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13~15%

(6)

13~15%

13~15%

13~15%

(7)

(8)

2%

800Ṇ~950Ṇ

120Ṇ)

[illegible] [illegible] [illegible] 20’ [illegible]

			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/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		

		DA001 1 2				/	
	(m)	/		(m^2)		1	2
						0.385	0.385
		2025.01.15					
		1			2		
	Ņ	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/m^3	54.3	53.5	53.8	51.8	53.5	53.5
	mg/m^3	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)		/			(m^2)	1 0.385	2 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 ꞑ ệ ˗	mg/m³	0.08			0.07		
طمي غ ں	kg/h	0.0133	0.0105	0.0135	$9.83×10^{-3}$	0.0111	$9.76×10^{-3}$
طمي ꞑ ệ غ ں	kg/h	0.0125			0.0102		
غمي ˗	mg/m³	1.96	1.94	1.90	1.95	1.89	1.91
غمي ꞑ ệ ˗	mg/m³	1.93			1.92		
غمي غ ں	kg/h	0.290	0.292	0.285	0.274	0.262	0.266
غمي ꞑ ệ غ ں	kg/h	0.289			0.267		

ﻫﺞ		DA002 1 2		ٽ شمه ٪ ̥̊		/	
شمه غ ˗ (m)		/		ﻫﺞ Ϙ (m²)		1	2
						3.140	3.140
ير		2025.02.24 ⁶					
		1			2		
		شخ	شخ	شخ	شخ	شخ	شخ
شمه غ ˗	Ṇ	20.2	20.0	20.4	20.4	20.2	20.4
لحي ᵍ	%	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
ꞑ لج	m³/h	151079	154582	151308	152312	151353	149212
⅞ ⅞ ˗	mg/m³	22.8	21.9	24.2	26.8	24.4	25.3
⅞ ⅞ ꞑ ệ ˗	mg/m³	23.0			25.5		
⅞ ⅞ غ ں	kg/h	3.44	3.39	3.66	4.08	3.69	3.78

⅞ ⅞ ﭏ ệ ﻍ ں	kg/	3.50	3.85

ﻫﺞ DA002 1 2 ٰ ﺸﻤ ٽ ̊ /

ﻍ ﺸﻤ ̑	(m)	/	ﻫﺞ Ϙ (m²)	1 3.140	2 3.140

2025.02.25 ⁶

ﻴﺮ		1			2		
		ﺸﺦ	ﺸﺦ	ﺸﺦ	ﺸﺦ	ﺸﺦ	ﺸﺦ
ﻍ ﺸﻤ ̑	Ṇ	20.3	20.1	20.3	20.4	20.1	21.4
ﻠﺤﻲ ᵍ	%	2.4	2.4	2.4	2.5	2.5	2.5
ﻍ ﺸﻤ	m/s	14.4	14.1	14.2	14.2	14.2	14.3
ﻟﺞ ﭏ	m³/h	152385	149325	150413	150268	150345	150819
⅞ ⅞ ̑	mg/m³	26.1	24.5	26.8	20.9	22.2	21.6
⅞ ⅞ ﭏ ệ ̑	mg/m³		25.8			21.6	
⅞ ⅞ ﻍ ں	kg/h	3.98	3.66	4.03	3.14	3.34	3.26
⅞ ⅞ ﭏ ệ ﻍ ں							

شخ شخ

[illegible] 20 [illegible]

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

ﯾ `E̋ √ 20’ Ʊ w̄ نهٍ

ۼ شمه	m/s	7.5	6.7	6.8	6.8	7.0	6.7
ﻟﺞ אִ	m^3/h	341618	305100	310205	313056	322336	309256
طمي	mg/m^3	ND($<6\times10^{-2}$)	ND($<6\times10^{-2}$)	ND($<6\times10^{-2}$)	ND($<6\times10^{-2}$)	ND($<6\times10^{-2}$)	ND($<6\times10^{-2}$)
طمي אֻ ệ	mg/m^3		ND($<6\times10^{-2}$)			ND($<6\times10^{-2}$)	
طمي ۼ ں	kg/h	0.0102	9.15×10^{-3}	9.3			

3

هج		DA002 ⅂شمه ǖ ‗ /			⅂شمه ǖ ‗		SNCR+ - ﺭﻳﺎﻝ+ ⅞			
غ شمه ‾ (m)		ﯿ		شمه ۋ (%)	هج Ϙ (m²)		1		2	
51		Ώ شمه		18			3.140		3.140	13.85
ير		2025.03.23 ⁶								
		1			2					
		شخ	شخ	شخ	شخ	شخ	شخ	شخ	شخ	شخ
غ شمه ‾	Ņ	35.7	34.1	34.3	19.2	19.4	19.2	23.8	24.5	25.0
لحي ᵍ	%	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5
غ شمه	m/s	15.2	15.8	15.7	13.2	13.3	13.2	6.4	6.5	6.4
شمه غمم ᵍ	%	20.3	20.2	20.2	20.2	20.3	20.3	20.1	20.0	19.9
لج אִ	m^3/h	147724	154189	153486	139512	140552	139456	293121	297089	292028
غمم ‿	mg/m^3	8	8	9	11	10	10	<3	<3	<3
غمم אִ ệ ‿	mg/m^3	8			10			<3		
غمم ɲ ‿	mg/m^3	/	/	/	/	/	/	5	5	4

ŋ אָ

غ شمه ͡ (m)	يـ	شمه ؤ (%)	هج Ϙ (m²)	1	2	
51	Ὼ شمه	18		3.140	3.140	13.85

2025.03.24 ⁶

ير		1			2					
		شخ	شخ	شخ	شخ	شخ	شخ	شخ	شخ	شخ
غ شمه ͡	Ṇ	35.3	35.1	34.7	19.7	19.3	19.1	27.4	29.7	30.2
لحي ᵍ	%	2.3	2.3	2.3	2.4	2.4	2.4	2.1	2.1	2.1
غ شمه	m/s	14.9	15.1	15.3	13.1	13.3	13.3	6.4	6.6	6.7
شمه غمه ᵍ	%	20.2	20.2	20.1	20.2	20.2	20.2	20.1	20.0	19.9
لج אַ	m^3/h	147655	149734	151929	138380	140498	140546	288334	295087	299034
غمه ͜	mg/m^3	9	8	9	9	9	9	<3	<3	<3
غمه ꭓ ệ ͡	mg/m^3		9			9			<3	
غمه ɲ ͡	mg/m^3	/	/	/	/	/	/	5	5	4
غمه ɲ ꭓ ệ ͡	mg/m^3		/			/			5	

غمم ڠ ں	kg/h	1.329	1.198	1.367	1.245	1.264	1.265	0.4325	0.4426	0.4486
غمم ꭓ ệ ڠ ں	kg/h	1.298			1.258			0.4412		
فخم غمم ̑	mg/m^3	20	21	21	22	22	22	9	7	8
فخم غمم ꭓ ệ ̑	mg/m^3	21			22			8		
فخم غمم ɲ ̑	mg/m^3	/	/	/	/	/	/	30	21	22
فخم غمم ɲ ꭓ ệ ̑	mg/m^3	/			/			24		
فخم غمم ڠ ں	kg/h	2.953	3.144	3.191	3.044	3.091	3.092	2.595	2.066	2.392
فخم غمم ꭓ ệ ڠ ں	kg/h	3.096			3.076			2.351		
ʿY غمم ̑ ـّ ريال ير $3mg/m^3$) ير تي 1/2 ه ير										

3.6-7

1

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

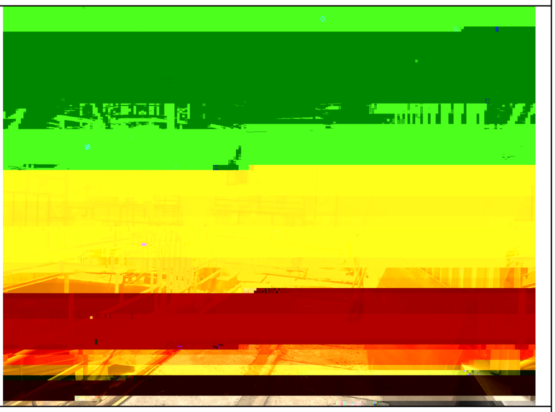
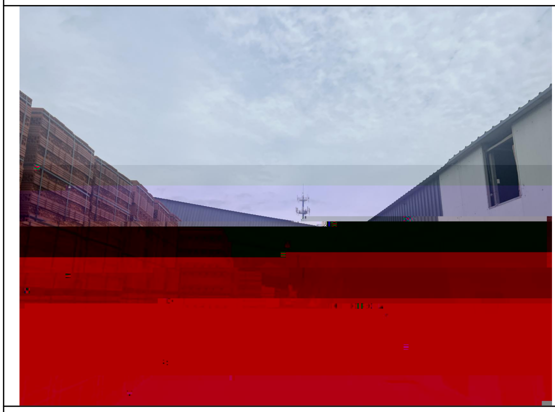
WESP

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

◌ `E

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%
$Q_{net\ v,ar}$	/	4.87MJ/kg	5.26MJ/kg	/	/
	/	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 İ n “ ˆ "Ů ƀ /

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GB 5085

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 100 Ņ

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 (				

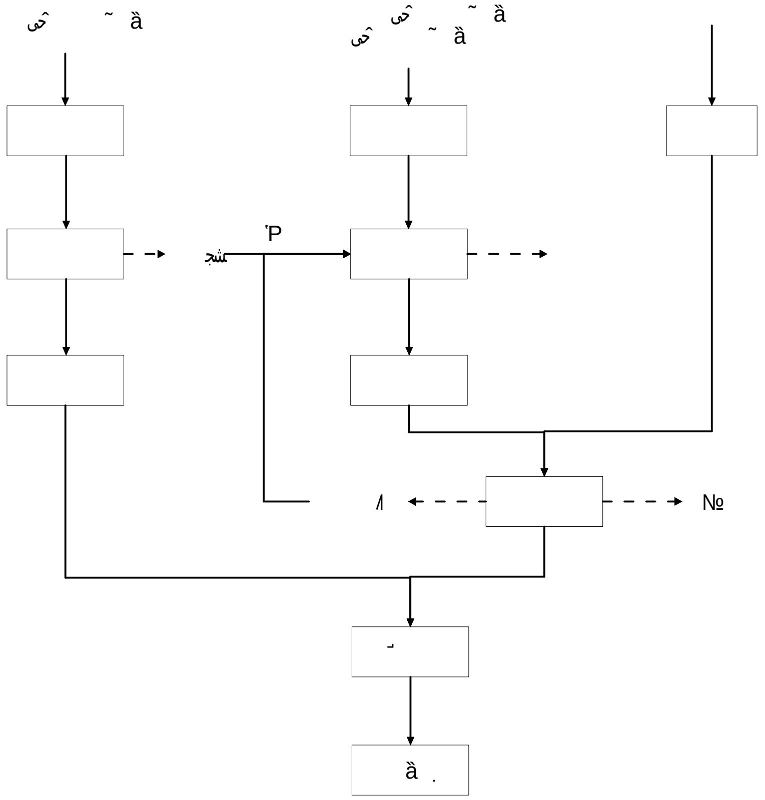
			(/)			
30		6900	7	7	0	
31		5T	3	3	0	
32		/	860m	940m	+80m	
33		/	3	3	0	
34		/	5	5	0	
35		/	1	1	0	
36		/	1	1	0	

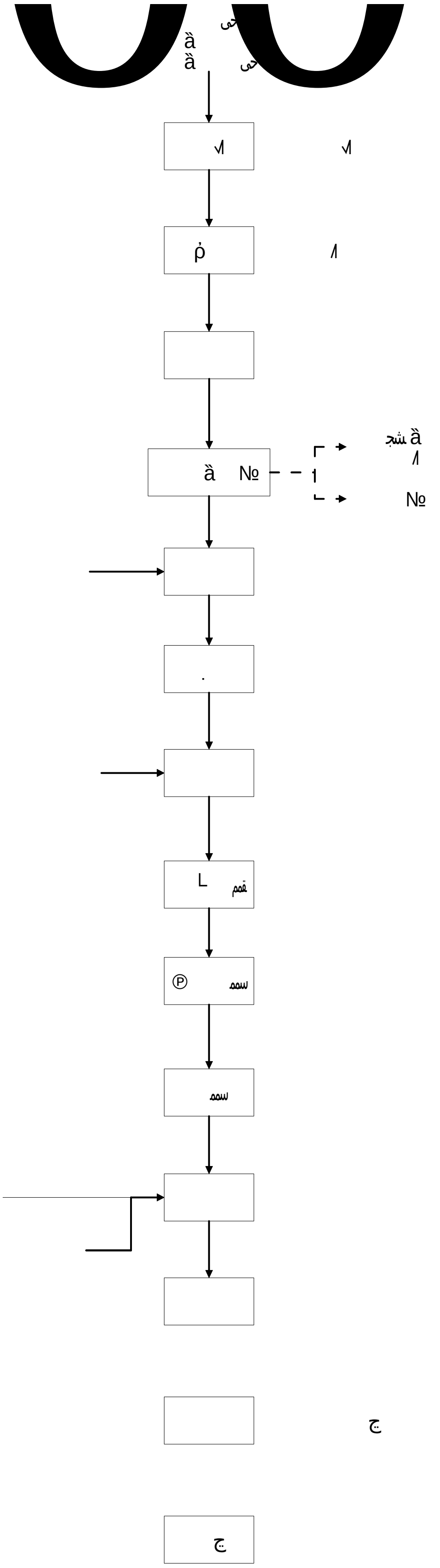
U

24

30min 7500

7200h 99% 10692 10000

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(1)

50%

(2)

80m

(3)

(4)

(5)

13~15%

(6)

13~15%

13~15%

13~15%

(7)

(8)

[illegible]

(1)

“ ”

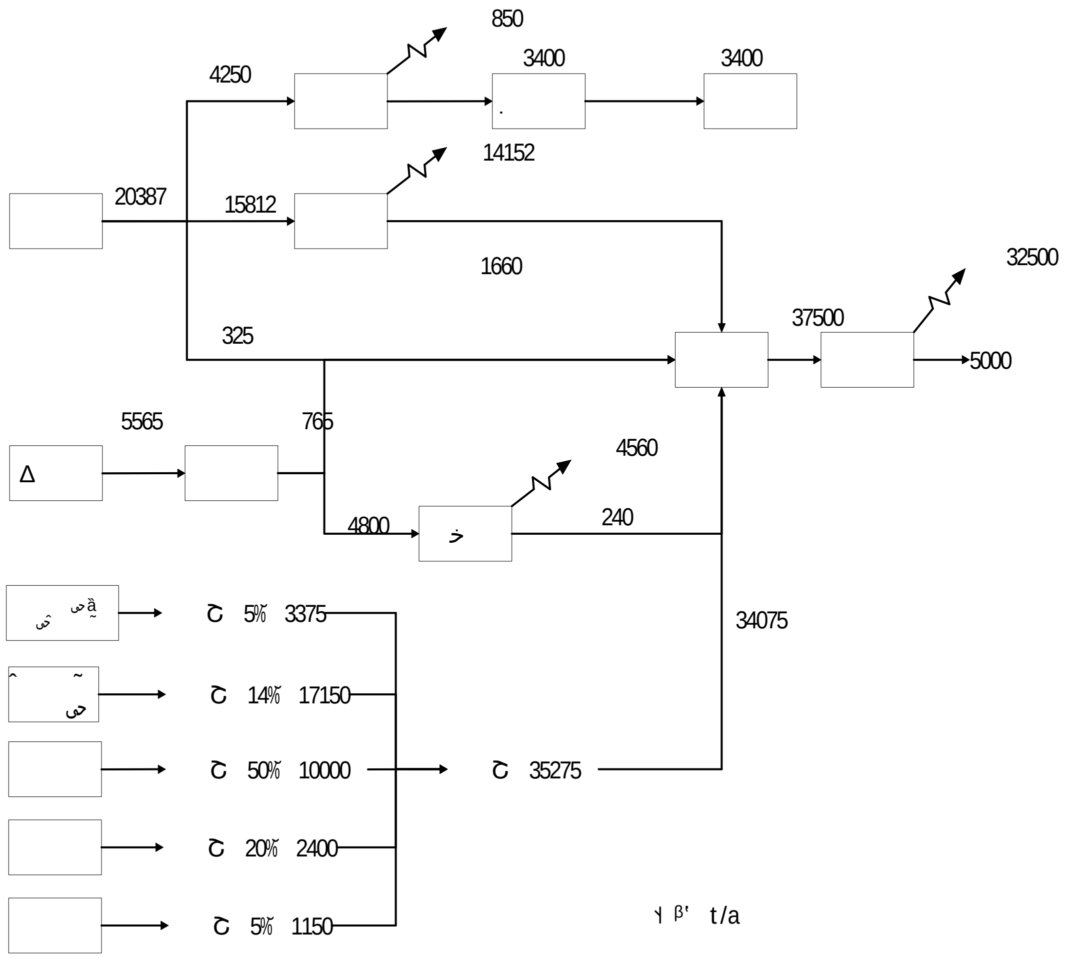
GB/T25031-2010

(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				

خ Ķ



t/a

25 /

3400t/a

COD_{Cr} 40mg/L NH_3-N 2mg/L COD_{Cr} 0.004t/a NH_3-N 0.007t/a

4 3

̀Ẽ ɿ ▯ 20’ Ʊ w̿

20’

ᾨ ℵ Կ ℵ ⁿ ᾨ

t Կ m³ ᾨ ℵ 10 m³

G—— kg/t ð kg/t Կ kg/m³ 6 ᾨ

36.43MJ/M³ 0.174g/m³ SO_2 0.174g/m³

NO_X 2.606g/m³ Ᵽ ᾨ ⁶ ᾨ

Ᵽ ⁶ 1.7

ᾨ 4.4-1

ᾨ

~	ᾨ		10.36Nm³/Nm³	103.6 m³
		⅞	0.174g/m³	0.017t/a
		SO_2	0.174g/m³	0.017t/a
		NO_X	2.606g/m³	0.261t/a

2

⅞ Ʊ

2021 24

10000 0

ﺤﯽ ﻐﻤﻢ ǒ ᅥ ⅔ ﻐﻤﻢ ﺷﻤﻢ ﻐﻤﻢ

ὣ ʊ ﻴ g ﻮ ὣ Ὠ ᅥ ʊ

ﻬ ﻮ ﮈ ẫ ﺯ ῄ $CaCO_3$ CaO ʊ SO_2 SO_3 ק

ɦ ẫ ᅥ $CaSO_4$ ẫ SiO_2 Fe_2O_3 Al_2O_3 Ẹ ɦ ̈Y

ɰ $CaSO_4$ NaCl KCl Na2CO3 ᅥ │ - Ẹ — ﮈ ק

CaO ὸ Ὠ— ῃ Ὠ CaO SO2 ק ٻ ẫ ﮈ

ﻫﯽ ﺫ ﯾ ﻴ K ﺗﻤﺦ Ꮯ

ᵍ طمي شمم ע ᴼ שح אַ جى ữ ở ᵖ شمم طمي

ᵖ طمي CaO ק ħ CaF_2 ˜ ở

' ' ث ⅔ ڤ C HF Ὼ ═

ز ʃ Ἐ ي ẫ طمي ٹ تي ḥ ở ═ طمي

25%-30% ȯ 70% ˥ ˡ ð

ڎ ھی ˊ ي طمي ᵍ 33.843t/a ═ طمي ˚ 70% ٪ شمم

طمي F 10.153t/a

قمح عمم هم

قمح عمم ئو ي قمح عج نجم ᵍ و قمح ħ ڎ ھی

ي ᵍ ˚ א 50% ᵍ لحي نجم 2.5 t

نجم ي ᵍ قمح ˧ 10.629t/a

Ẹ Ạ ي قمح HCl

˧ شمم ڎ ھی Ơ ﹻ ᴷ ữ ئو * لحي ữ ٪ ث قمح تج ˥

ˡ قمح ں ˜ ث قمح ᵍ قمح Ạ

˥ ˡ ˜ ث و قمح تمخ قمح ں Ɛ ـحـ تج

شمم ˜ ˥ ˡ ھ Ὼ ڎ ھی ﹻ ⁿ ئو تمخ

قمح قمح 700 قمح شمم 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

| Ω e ẫ ỏ H

H | ’ ’

| ẫ 80% H | ’ | ẫ 0

1

: δ | g 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%

3898% % * 8

40%

GB36600-2018 1

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

NH_3 H_2S

40%

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

/		$/m^3/h$	$/mg/m^3$	/kg/h	+	/%	$/m^3/h$	$/mg/m^3$	/kg/h	/h
		/	/			/	/	/		2400
		/	/	9.375		70	/	/	0.938	2400
	DA001	/	/	2.563		98	50000	0.92	0.046	4800
		/	/	0.128	/	/	/	/	0.128	

A.0’•WE

/														
					/m^3/h	/mg/m^3	/kg/h		/%		/m^3/h	/mg/m^3	/kg/h	/h
						1.083	0.325		90			0.108	0.032	
						21	6.3ug/h		0			0.1ng/m^3	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) ϗ 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		Ṇ	39	/
3		Ṇ	-11.1	/
4		Ṇ	27.9	/
5		Ṇ	3.1	/
6		%	80	/
7		mm	1391.3	/
8		mm	1359.3	/

m اکبز

60 24

9

ŵ

0.70~3.10 2.67~4.07

Ŷ

0.50~1.50 0.92~2.16 Ď ظم ضحبعجـ

ŷ

11.70~19.70 0.02~1.03

Ÿ

1.20~6.30 -16.91~-11.06 Λ

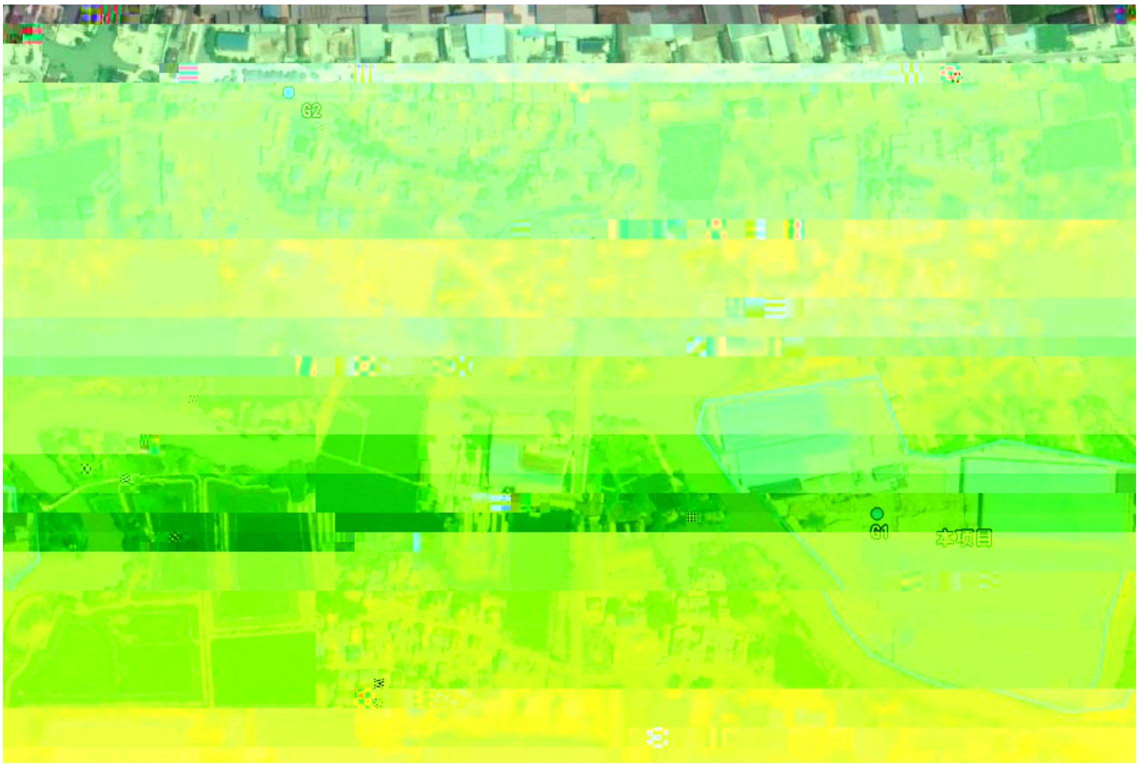
~

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
5		288	HW05 HW06 HW08 HW09 HW11 HW12 HW13 HW16 HW17 HW21 HW31 HW34 HW35 HW49 HW50	20000



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)		

报告编号：24HP04001

共 20 页

3 1

( )

(2015)

(GB3838-2002)

= —

—

— (mg/L)

— (mg/L)

DO

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

$$, = 10 - 9 \overline{\qquad} \qquad < $$

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

pH

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

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

— mg/L

— mg/L

— Ņ

—طل = خم

	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	ʼn	%
	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) (ʼn 2)

(Ŋ 2)

14

16 17

(2)

(3)

“ 5.2.5 ”

(4)

(5)

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%

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	W1	W2	W3	ŉ
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

( )

(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

[illegible]

			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

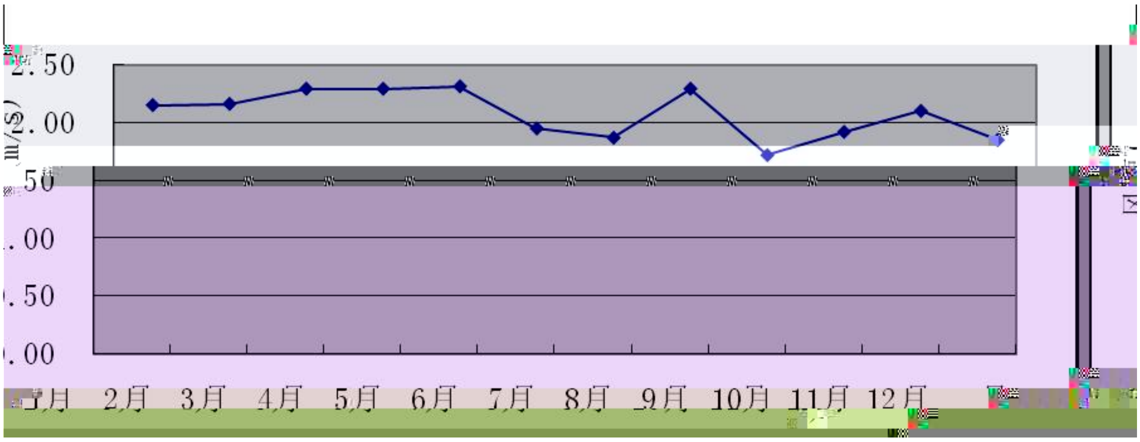
	/	m			
2025.5.20	D1	0~0.5			
		0.5~1.5			
		1.5~3.0			

3.0~6.0

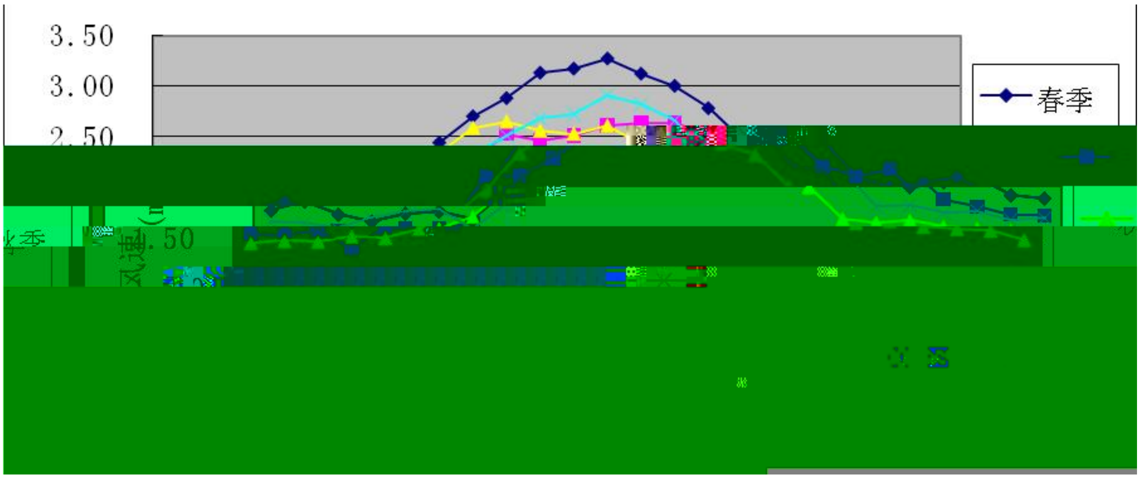
-6

D2

	/m			LeqdB(A)	
				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



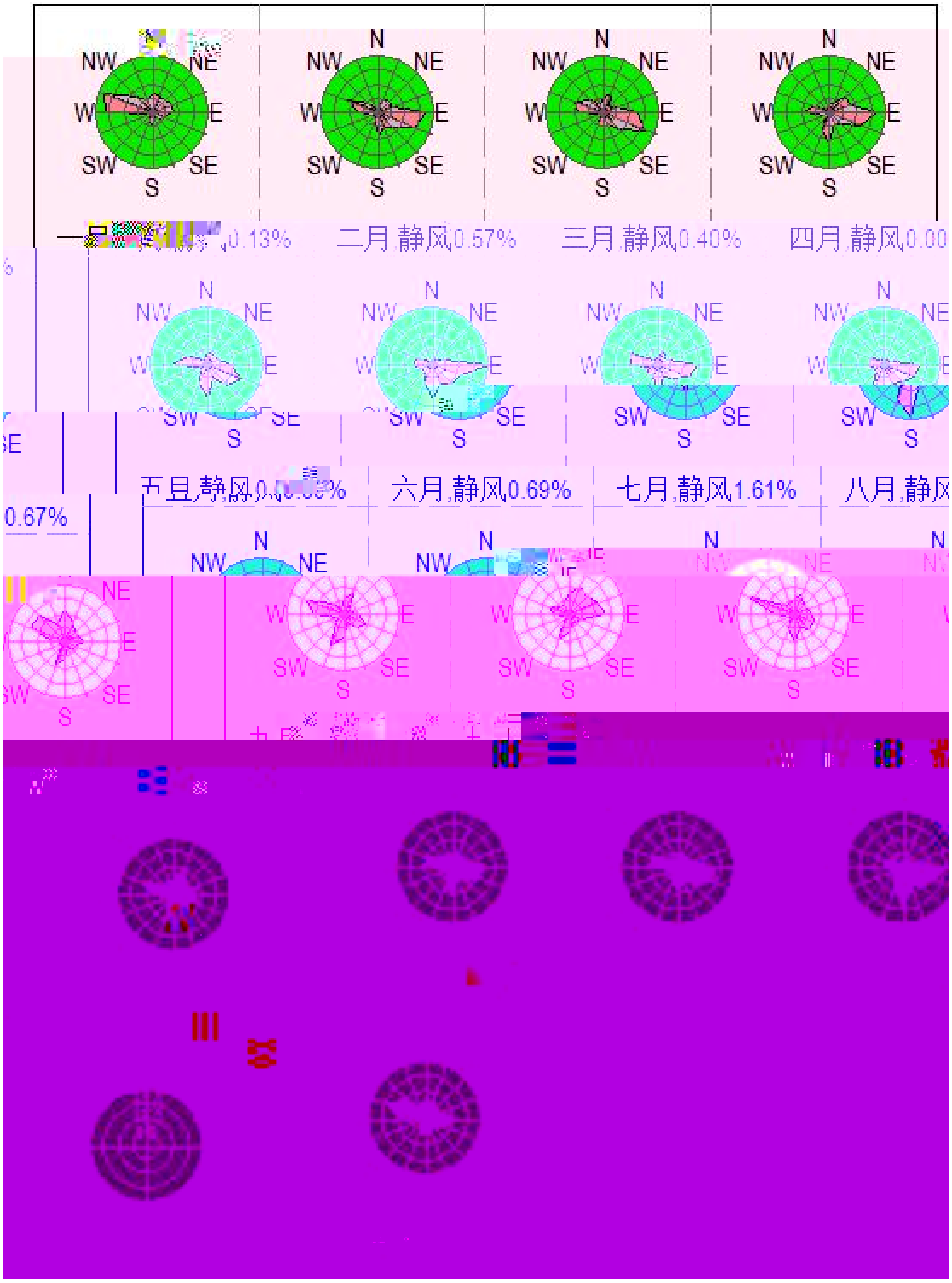
WNW 14.2% SE 11.3%

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

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% (14)	2.40E-1μg/m^3	0.4%

			/(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)		/%	
		1h	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	
			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	

`Ȅ ꞁ 20’ Ʊ w̄

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

\ ^{3} \

			/(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	
			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/m³)		/%	
			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/m³

/(µg/m^3) ḓ̭ 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) E

/(μg/m^3)	/%
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

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/(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

5E+09

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/(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/m³)

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($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	/%
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/m³)	(μg/m³)	(μg/m³)	(μg/m³)	/%
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				

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1.0E+0

02

(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/m³)	(μg/m³)	(μg/m³)	(μg/m³)	/%	
			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/m³

3.97~4.33μg/m³

.455μg/m³ 2.44μg/m³

(μg/m³)

(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	/%
0.00E+00	0	105	1.05E+02	70
-1.89E-01				

2w̄

(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	/%
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

$PM_{2.5}$

0

0.00E+00

0.00E+00

0 0

(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				

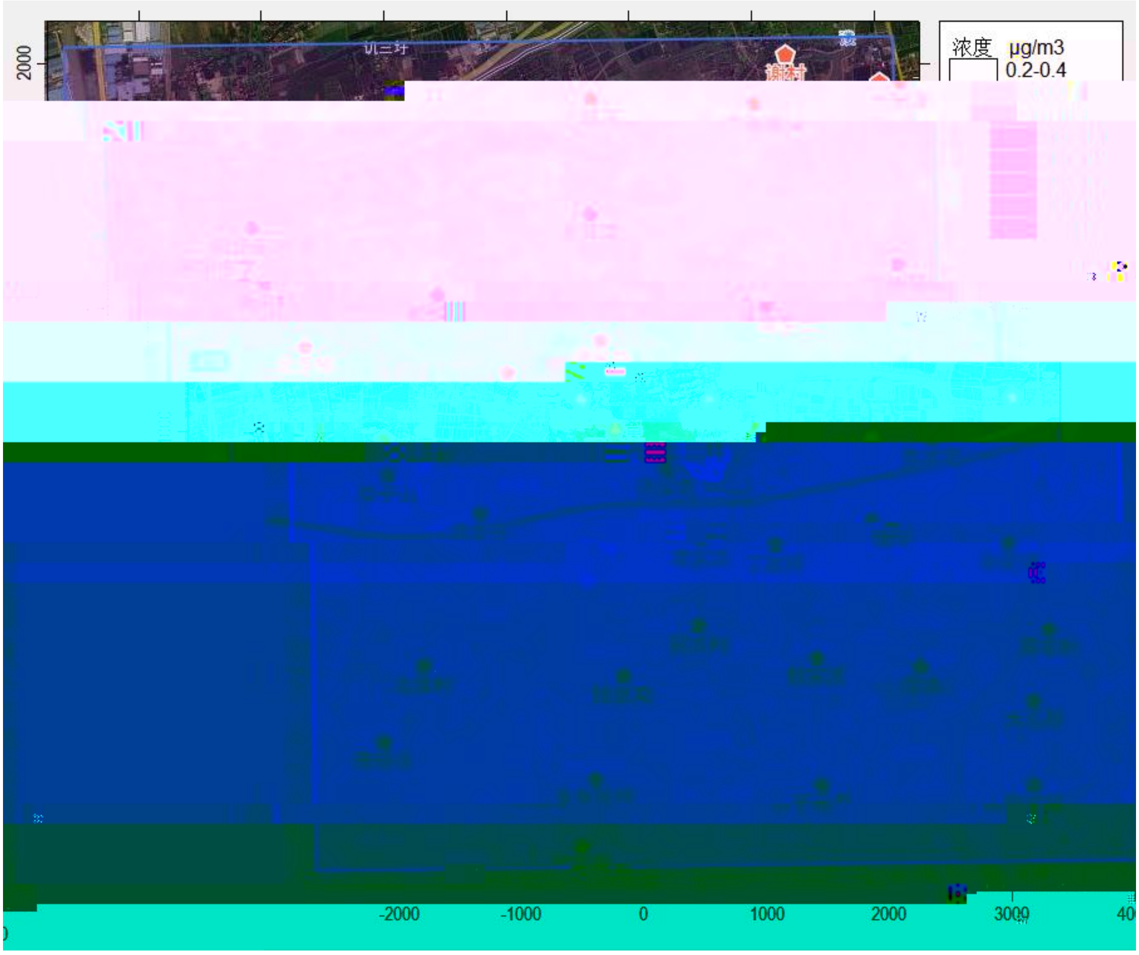
SO_2

[illegible]

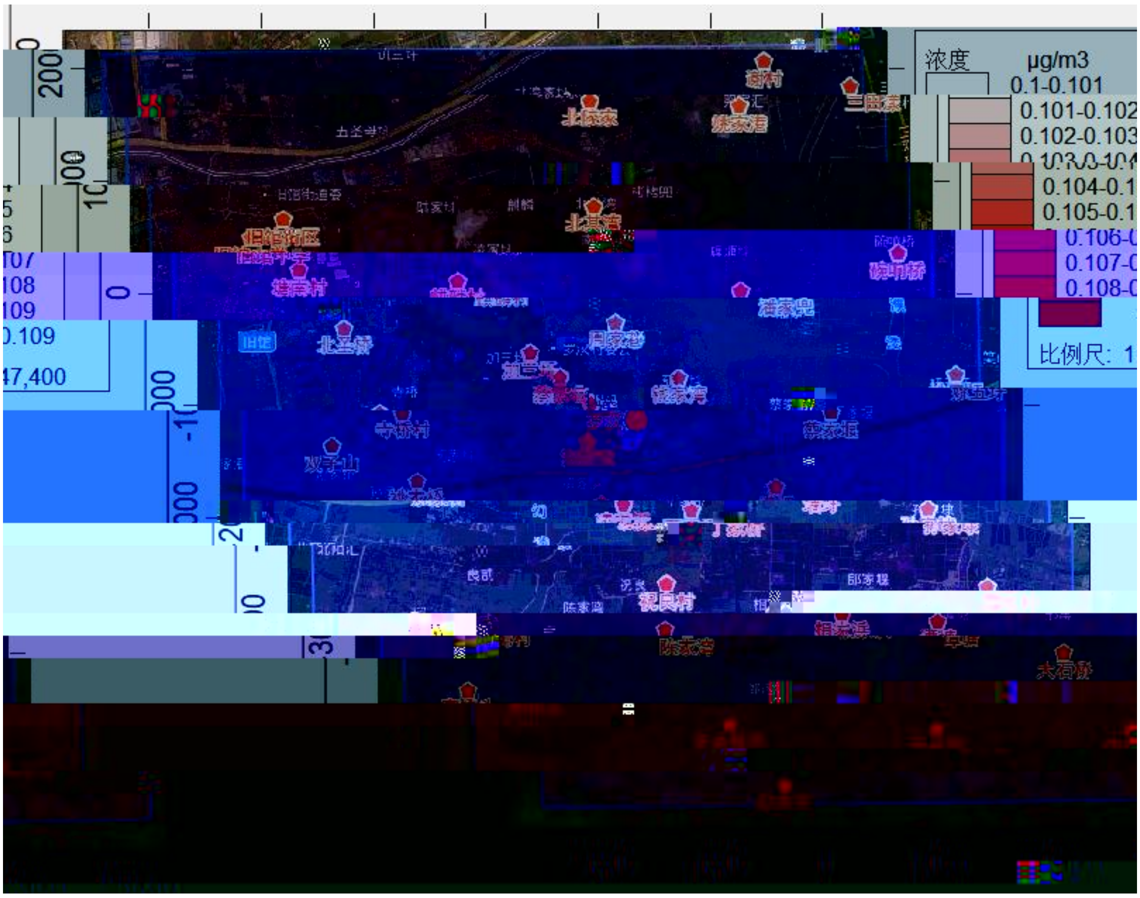
(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	/%
0.00E+00	-0.73			

(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

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


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

浓度
μg/m3
2000
4000
-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-
0.107-
0.108-
0.109
比例尺: 1
47,400
北陈家
姚家港
三郎桥
北其营
周家港
北三桥
双子山
大石桥
陈家湾

μg/m3
0.00202-0.00203
0.00203-0.00204
0.00204-0.00205
五圣阁村
北阳汇
朱家桥桥
西巷

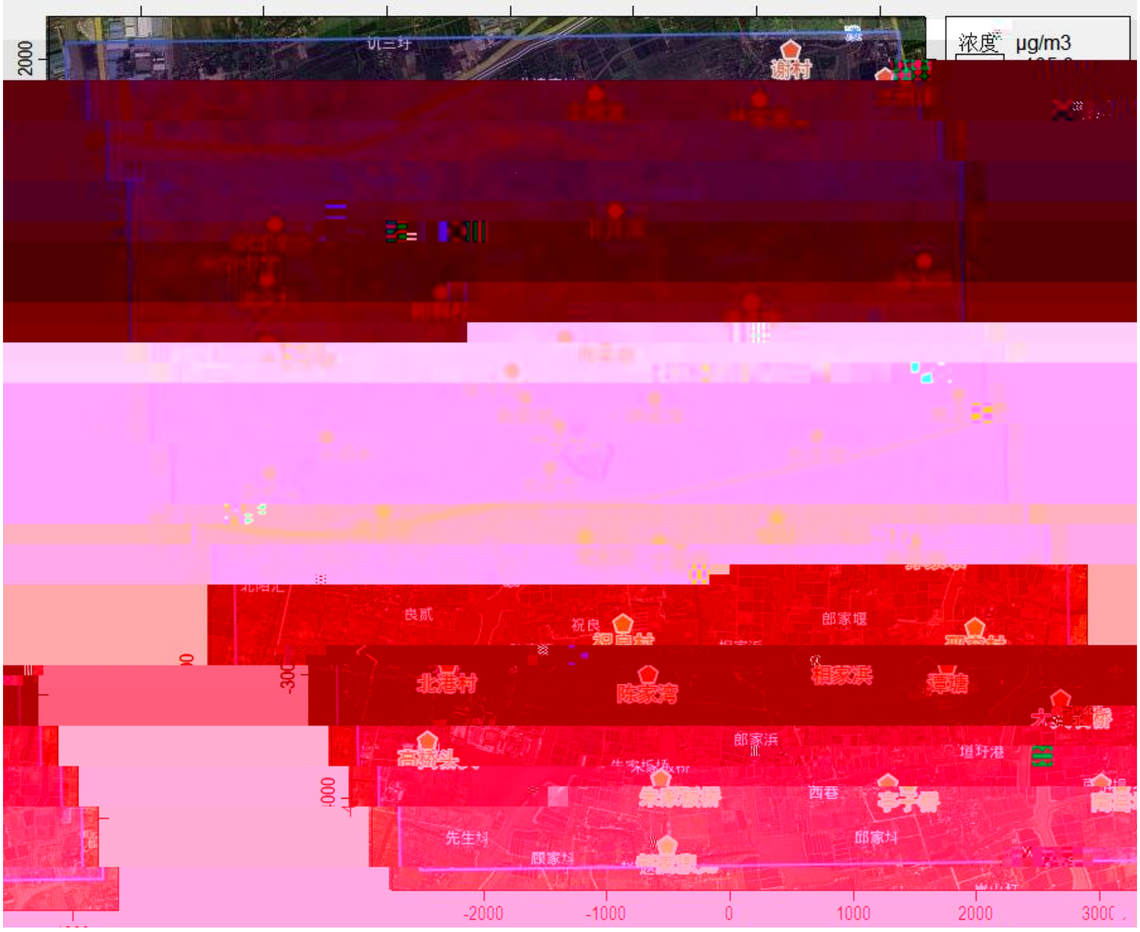
比例尺: 1
: 47,400
1000
-2000
-1000
0
1000
2000
3000

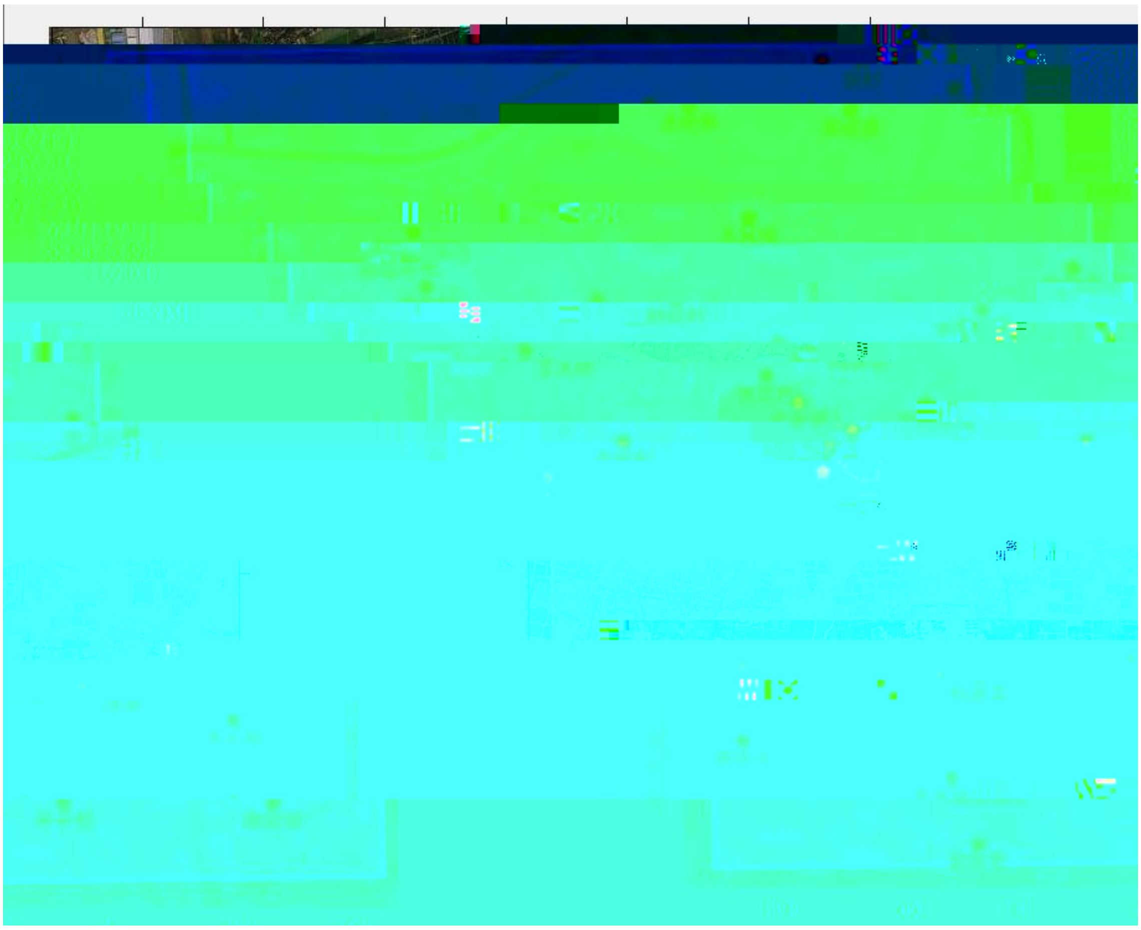
浓度 μg/m3
1.66-
1.68
1.7-
1.72-
1.74-
>1.78
北蔡家
姚家港
谢村
三田漾
北蔡宅
硖河桥

1.65-1
陈家湾
相家浜

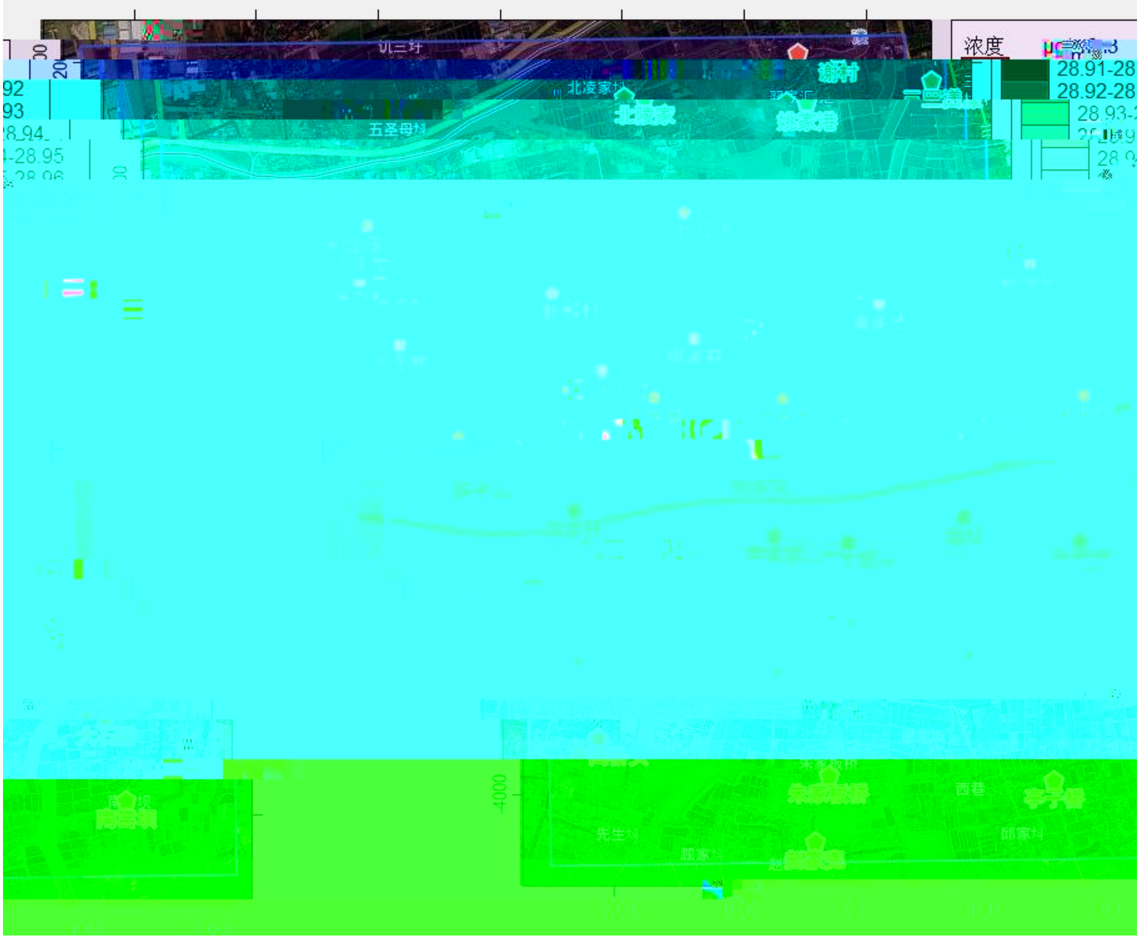
浓度 μg/
m3
陈家湾
朱家板桥

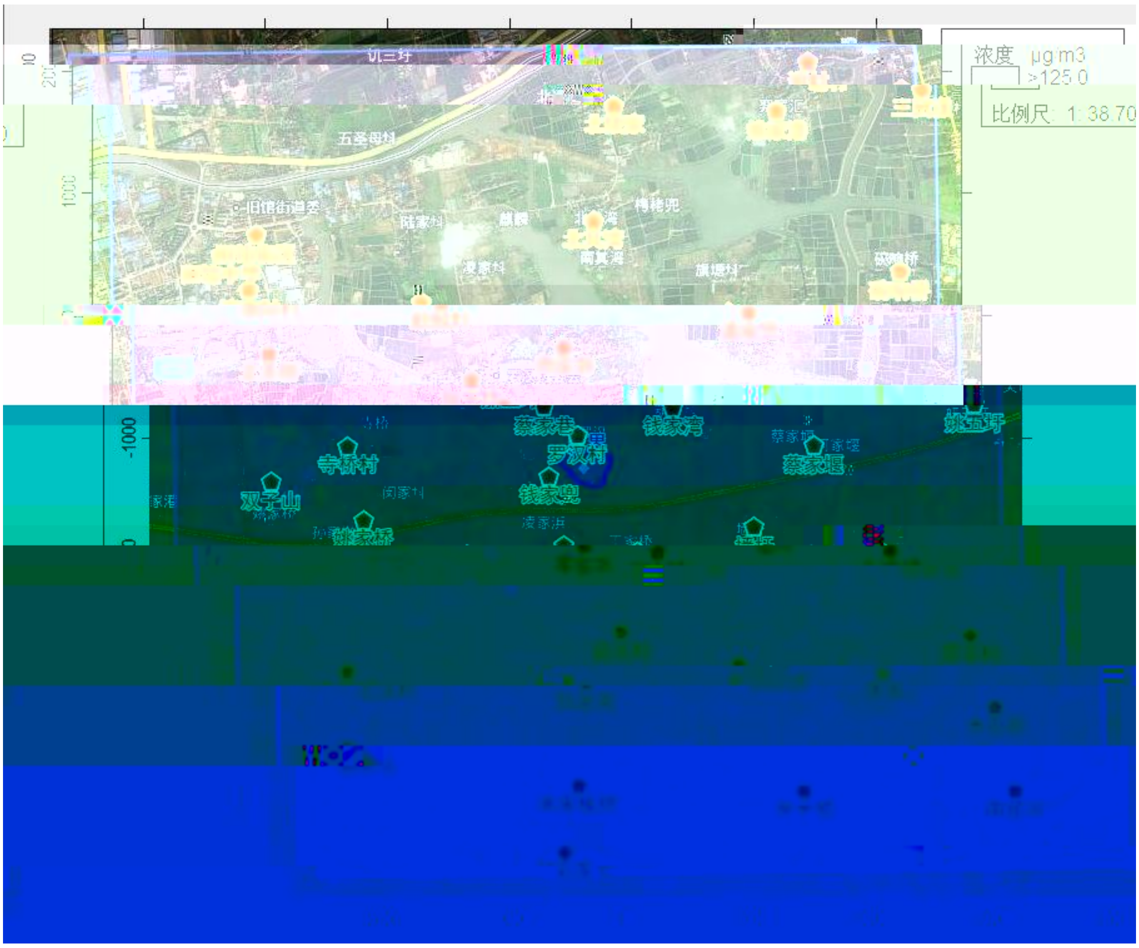
浓度 μg/m³
10.4
10.6
10.8
38,700
1000
3000
比例尺
北殷家
姚家港
北港村
郎家浜
西巷

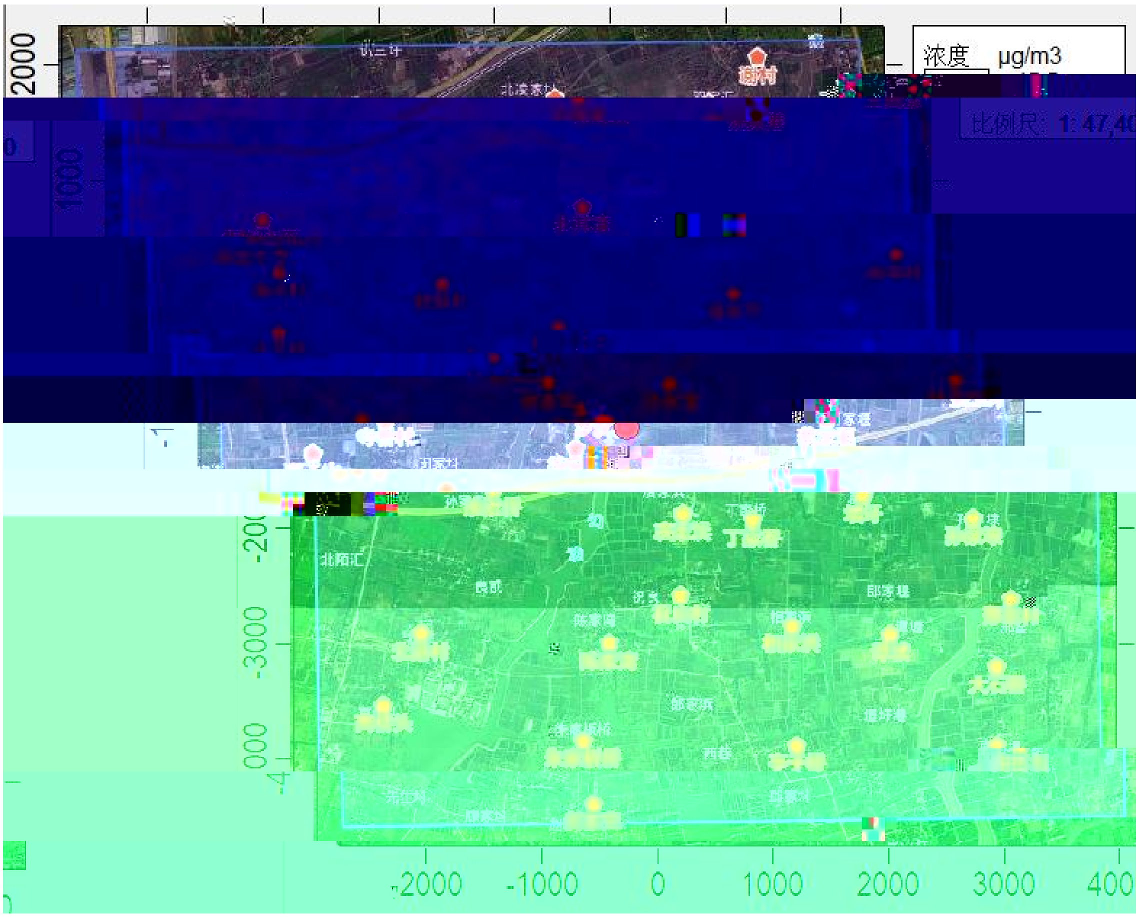

浓度 μg/m3
2000
谢村
北港村
陈家湾
桐家浜
潘塘
郎家堰
郎家浜
西巷
先生村
顾家村
-2000
-1000
0
1000
2000
3000



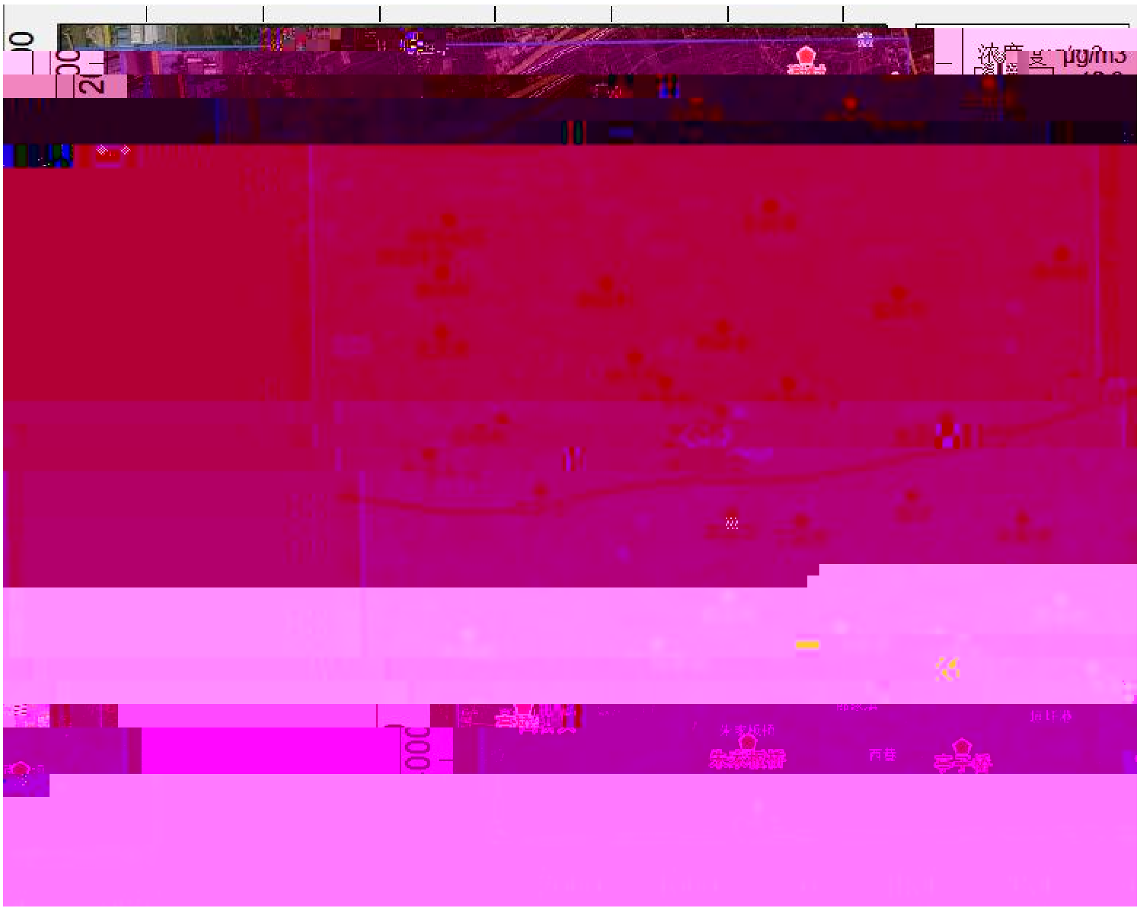
1000
0
塘南村
麒麟村
碗响桥


浓度
28.91-28
28.92-28
28.93-
92
93
-28.95
北凌家村
五圣母村
西巷
4000


浓度 μg/m3
>125.0
比例尺 1:38 70
九三圩
五圣母村
旧馆街道茶
陆家村
梅桂兜
南莫港
凌家村
旗塘村
砺塘桥
1000
-1000
0
蔡家港
罗汉村
钱家湾
蔡家堰
姚五圩
寺桥村
双子山
闵家村
钱家兜
凌家洪
姚家桥

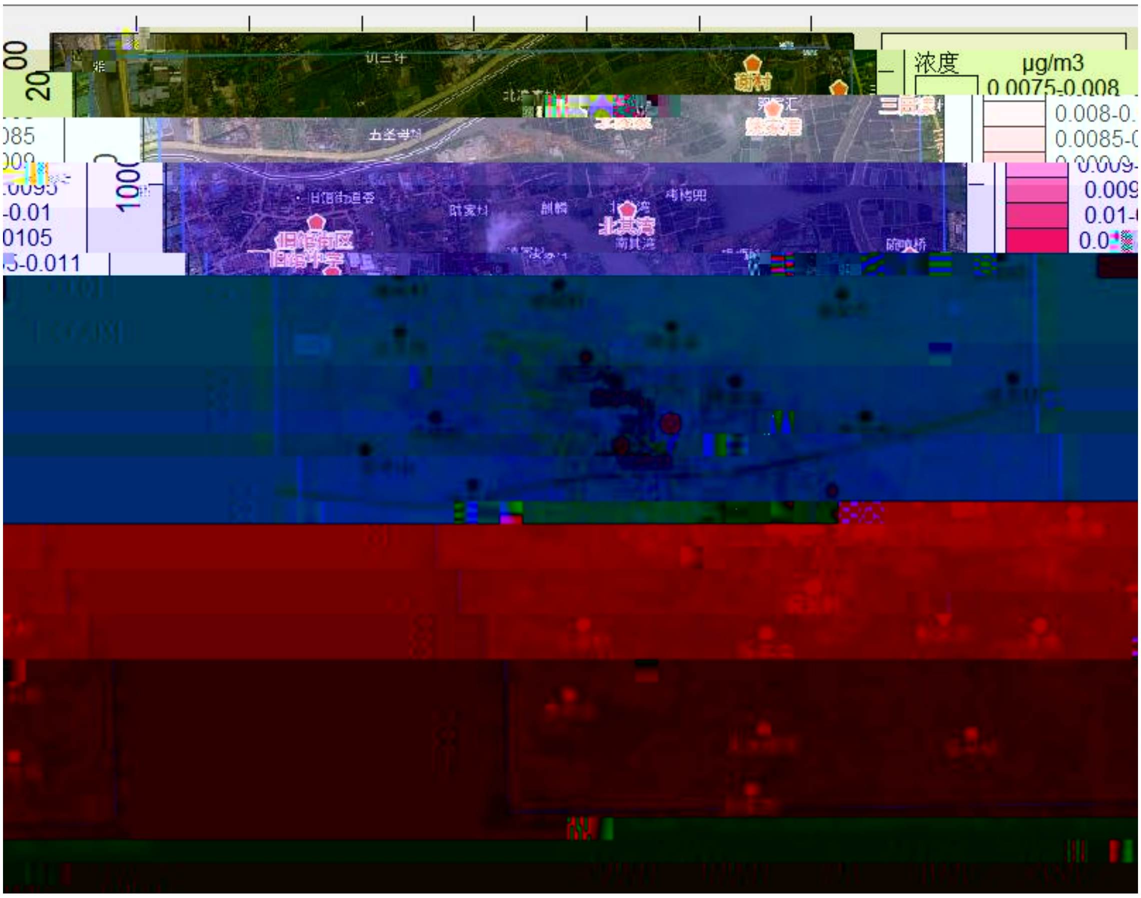

浓度 μg/m3
比例尺 1:47,40
2000
1000
-1
-200
-3000
-4000
-2000
-1000
0
1000
2000
3000
400
北漾东村
北陌汇
邱家桥

浓度 μg/m3
>25.5
比例尺: 1: 47,400
200
0
0
-2000
-2000
-1000
0
1000
2000
3000
北凌家村
旧馆南区
旧馆中学
北其湾
周家港
祝良村
朱家板桥


浓度：μg/m3
朱家坝桥
丙巷

0

[illegible] `Ẽ ˥ [illegible] 20’ Ʊ w̿ [illegible]



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)		/%	
NOx		1h	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	
			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	

			/(μg		/%	
			4.73E+00	[illegible]	[illegible]	
			4.74E+00	[illegible]	[illegible]	
			5.69E+00	[illegible]	[illegible]	
			3.90E+00	[illegible]	[illegible]	
			4.14E+00	[illegible]	[illegible]	
			3.84E+00	[illegible]	[illegible]	
			3.28E+00	[illegible]	1.31	
			[illegible]	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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1961 8~9

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1.54ppm

0.041ppm (ppm) (mg/m^3)

$X=M/22.4\times C\times 273/(273+T)$

21.7μg/m³

3.61μg/m³

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6000

2022

		mg/m³	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/m^3 70% 5.30E+01μg/m^3 75.71%

(10) $PM_{2.5}$

5.70E+01μg/m^3 76% 2.90E+01μg/m^3 82.86%

(11) TSP

1.25E+02μg/m^3 41.67%

(12) NOx

4.55E+01μg/m^3 18.2% 2.55E+01μg/m^3 25.5%

(13) SO_2

1.20E+01μg/m^3 8% 6.00E+00μg/m^3 10%

(14)

1.16E-02μg/m^3 96.83%

+ -“ ”

			(mg/m^3)	(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	AUSTAL2000	EDMS/AEDT	CALPUFF		
		≥50km	5~50km	=5km				
		(SO_2 à NO_2 à PM_{10} à $PM_{2.5}$ àHCl àNH_3 àH_2S àHF 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

ɔ

		A B			
		40% 40%			
		□			
				(pH)	(1)
		(/)km (/)km^2			
		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) X Y Z /dB(A) /dB(A) w

2

6.3-3

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

10m

[illegible]

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		

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(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 □

□

□

□ □

□ □ □

GB 18599-2020

0

([2017] 43)

(1)

ŵ 80m^2

(GB18597-2001)

Ŷ 80m^2 100t

809.4t

32.83t 3 10.65t

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$\leq 10^{-7}$cm/s

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HW08 HW49

(I1)

(II2) (ʼn 2)

(ŋ 2)

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

$$U=K\times I/n$$

U—— m/d

K—— m/d

I—— ‰

n——

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

B

$D_L=aL\times U$

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							

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

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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

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

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7

≥ P6

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

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

V_1—

0

V_2— m^3

$$V2=\Sigma Q\ t$$

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

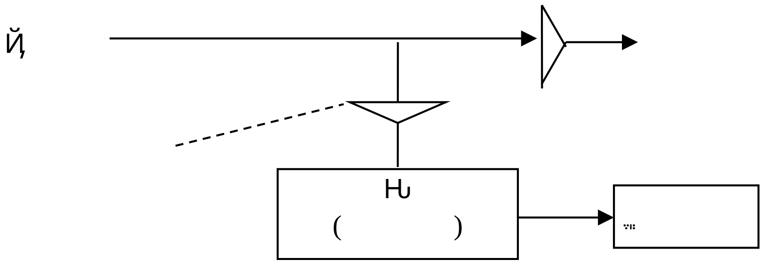
1.0 1391.3mm 144 ע ז

V =183m^3

183m^3 200m^3

100m^3

6.6-1



6

2022 143

(GB36600-2018)

(GB 15618-2018)

	/			
			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

1

2

3 5 1

4

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>(GB18599-2001) 3

∩

(4.8)hm^2

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S

		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			
1 “ ” “√” “( )” “ ” 2					

1

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(7)

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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

$SO_2+2NaOH=Na_2SO_3+H_2O$

$SO_3+2NaOH=Na_2SO_4+H_2O$

$Ca(OH)_2$

$(OH)_2+$ [illegible]

[illegible] $H_2O + 1/2H_2O$

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

pH

∨

% mg/m^3 mg/m^3

	kg/h	[illegible]	0.06
	ng-TEQ/m^3	0.0074-0.023	0.1

2017

“ ”

~0.069ng-TEQ/m^3

-TEQ/m^3

“ + + ”

4

“ + + ”

15m

4

5

GBJ87-85

6

7.2-4

				(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

(2)

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-
-

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(1) [2001]199

(2)

(3)

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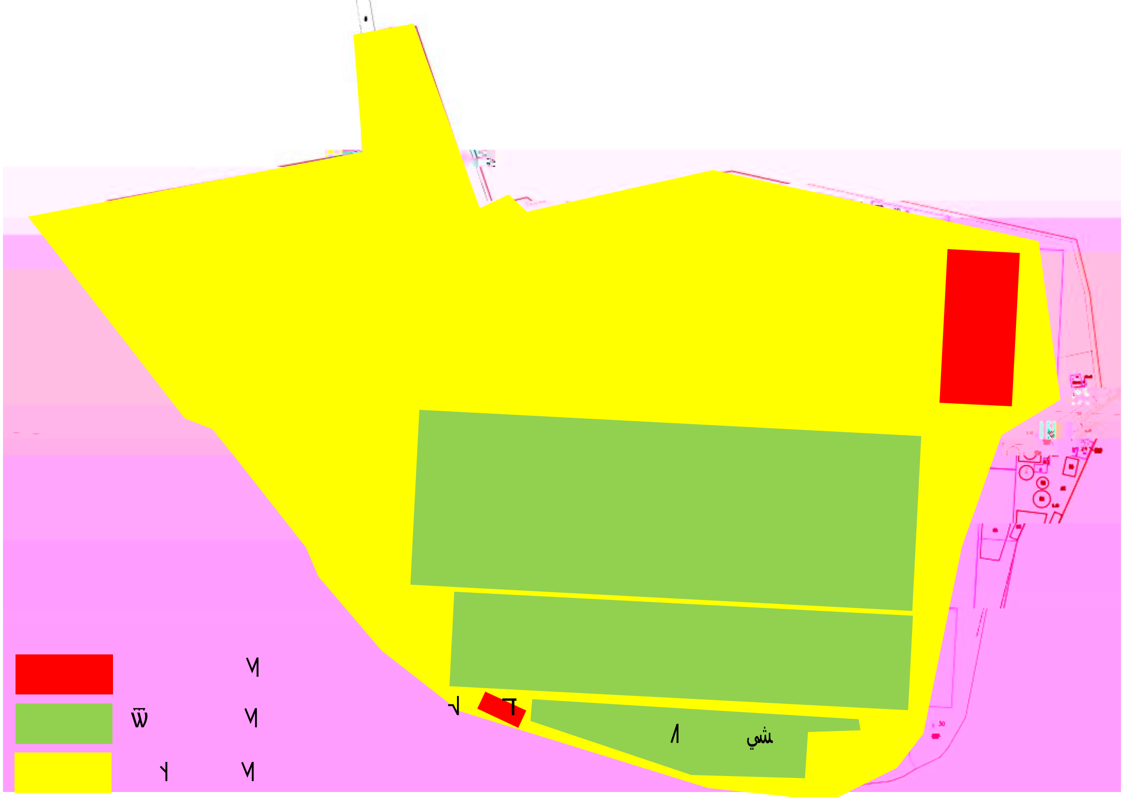
7.2-6 7.2-2

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



(3)

(4)

(1)

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(3)

(4)

7.3-1

(1) “ SNCR+ - + ” 30000m^3/h 51m

(2) 6500m^3/h 15

	(2) (3)	
		(GB12348-2008) 2 (GB12348-2008) 4 (GB3096-2008) 2
	(1) 80m^2 (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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SO_2 HF NOx HCl Hg

Cd Pb m" 3

HJ954-2018

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

(2) 6500m^3/h 15

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GB14554-93

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COD_{Cr} SO_2 NOx ( )

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