
共创碧水蓝天
共享美丽生活!

1.1 1
1.2 3
1.3 3

2.1 3
2.2 4
2.3 4
2.4 4

3.1 5
3.1.1 5
3.1.2 5
3.1.3 7
3.2 7
3.3 9
3.4 10
3.5 11
3.5.1 11
3.5.2 11
3.6 11
3.6.1 11
3.6.2 12
3.7 13
3.8 16

4.1 19
4.1.1 19
4.1.2 19
4.1.3 20
4.1.4 21
4.2 21
4.2.1 21
4.2.2 24
4.2.3 24
4.3 “ ” 24
4.3.1 24
4.3.2 “ ” 25
4.4 27

5.1 29
5.1.1 29
5.1.2 30
5.1.3 33
5.1.4 33
5.1.5 33
5.2 34

6.1 36
6.2 39
6.3 39
6.4 40
6.5 40
6.6 41

7.1 43
7.2 43
7.3 43
7.4 44
7.5 44

8.1 45
8.2 52

9.1 59
9.2 60
9.3 69
9.4 69
9.5 72
9.6 74
9.7 78

10.1 79
10.2 80
10.2.1 80
10.2.2 80
10.2.3 80
10.3 80

1

2

3

4

5

6

7

1 [2020]79

2

3

4

5

6

7

8

9

10

11

12

13 [2019]350

14

15 2022 10 ~2023 3

16 [2023] 157

17

800mg/m^3 GB4915-2013 400mg/m^3

SNCR 2015 1

[2015]31

5 2014 12

192m^3/d

2015 4 [2015]101

2016 12

[2016] 201-1

6 2016 10

500t/d 2018 3 19

[2018]42 2018 10

2020 7

20

2020 8 28

[2020]79

682 [2017] 4

“

” “ ”

2023 1 7 ~8 2 15 ~2 16 4

26 ~4 27 “

”

[2017]

4

1

2

3

1 2015 1 1

2 2017 6 27

3 2018 10 26

4 2019 1 1

5 2022 6 5

6 2022 1 1

7 682

2017 7 16

8 [2017]4

2017 11 20

1 2018 9

2018 5 15

2

HJ256-2021 2021 11 25

1

2020 7

2

[2020]79

2020 8 28

1 HJ91.1-2019

2 HJ493-2009

3 2017

1 GB/T16157-1996/XG1-2017

4 HJ836-2017

5 GB12348-2008

6 GB3096-2008

7 HJ/T166-2004

8 HJ/T630-2011

9

68

E114 ° 51 ′ 36.04 ″ N30 ° 12 ′ 14.76 ″ 1

11 3-1 3-1

		E	500	42	GB3095-2012
		S	350	445	
		SW	180	274	
		SW	180	315	GB3096-2008 2
		S	720		GB3838-2002
		W	8500		GB3838-2002 III



[redacted]

		1 1 1		
		1 1		
		4500t/d		

810m^2 30m× 27m×
8m



22		$30m^3$	1				
23		DN560×4500mm	1			3ZWLS490×4000mm	1
24		DN640×6000mm	1				

60%

ś ⌡

30000t/a

K2

1450 20 40min

1750 1050

110m

1150 850 350 850 350 500

1s

350 200

110m

3-6

3-6

					17m
			SO_2 NOx NH_3 HCl HF H_2S		+ + +SNCR+ +110m
			L_{eq}dB A		

2018 6

3-7

1				810m^2 30m× 27m× 8m	1755m^2 65m × 27m × 8m	50m	
2							
					17m		

				110m	110m		

	4.		
	5.		

60%

4.1.2

1

+SNCR+ ”

110m

100m

4-1

			17m	

1

K2

Hg

Hg

2

3

$CaCO_3$ $MgCO_3$ CaO MgO

Cl^- Cl^-

1-2

2

HJ610-2016

Mb≥1.5 $K≤1×10^{-7}$ /

3

1			8	/
2			1	/
3			1	/
			10	/
			10	
			20	/
			10	/
			3	/
			10	/

10

DA061

DA001 DA061

11

HJ610-2016

Mb≥1.5 K≤1×10^{-7} /

“ ”

1324

200 15.1%

4-4

			+ + +SNCR+ +110m	1	0	
1				1	50	
			1 17m + +	1	27	

			100m			
2					18	
3				/	0	
				/	0	
				/	0	
4			≤ 10-7cm/s 2mm	1	50	
			2mm ≤ 10-10cm/s	1		

			+ 100m
			17m
		/	

8

“ ”

9

10

11 NO_X SO_2

12

“ ”

13

1

2 7

SO_2 NO_X PM_{10}1h 24h

GB3095-2012

1h 24h GB3095-2012

1h

- HJ2.2-2018 D

2

GB3838-2002 IV

GB3838-2002 III

3

GB/T14848-2017

GB/T14848-2017

GB/T14848-2017

3

8

GB12348-2008 2

GB3096-2008 2

4

3 1 2

45

GB36600-2018 1

GB15618-2018 2

1

3 GB4915-2013

1

.

GB14554-93

2

GB50757-2012

SO_2 NO_x NH_3 HCl HF

Pb As Cr +

+ +SNCR+ SO_2 NO_x

NH_3 GB4915-2013 2

GB30485-2013GB4915

A

6

2

3

85~95dB A

1

2

3

4

5

6

GB12348-2008

2 4 GB3096-2008 2

4

1

2019

[2006]609 [2006]2222

2

GB30485-2013

HJ662-2013

3

HJ662-2013

GB50634-2010

2020 12

91420281753410661500 1P

$SO_2$408.375t/a NO_x1306.8t/a 181.357t/a

NO_x

2020 8 28 [2020]79

2019-420281-77-03-003167

K2

4500t/d

20 1500 100

:

1

2 “ + + +SNCR+ ”

110m

GB4915-2013 2

GB4915-2013 2

GB30485-2013 1

GB4915-2013 3

GB14554-93 1

GB16297-1996 2 6-1

[redacted]

[redacted]

20 mg/m^3

[redacted]

[redacted]

		0.5	mg/m^3	3 GB4915-2013
		1.5	mg/m^3	
		0.06	mg/m^3	GB14554-93 1
		20		

2

	24	7	$\mu g/m^3$	

		≤0.3
		≤0.10
		≤200
		≤0.002
	COD_{Mn} O_2	≤3.0
	N	≤0.50
	N	≤20.0
	N	≤1.00
		≤0.05
		≤1.0
	CFU/100mL	≤3.0
		≤1.00
		≤1.00
		≤0.001
		≤0.01
		≤0.005
		≤0.05
		≤0.01
		≤0.02
		≤0.002
		≤0.05

7-1

		1	SO_2 NOx NH_3 HCl HF	3 / 2
		2		
		○ 1	NH_3 H_2S	3 / 2
	1#	○ 2		
	2#	○ 3		
	3#	○ 4		

TOC TOC 9

7-2

1 ▲1	A	2 / 1
1 ▲2		
1 ▲3		

	● 1	pH N N	2 / 2
	● 2		

	▼1	pH	1
	▼2		

	1	TSP TVOC	4 / 2 TSP 1 / 2 4 / 2 TVOC 1 / 2
	▲5	A	1 2

8-1

		HJ/T57-2017	MH3300 ZSX-XC-001	3mg/m^3
		HJ/T57-2017		3mg/m^3
		GB/T 16157-1996	ES1055A ZSX-SC-037	0.1mg/m^3
		HJ533-2009	722S ZSX-SC-013	0.25mg/m^3
		HJ 549-2016	CIC-100 ZSX-SC-046	0.2mg/m^3
		HJ688-2019	CIC-100 ZSX-SC-046	0.08mg/m^3
			AFS-230E HKTS-A-079	3×10^{-3}μg/m^3

	HJ657-2013	ICP-MS 1000G	0.000008mg/m^3
	HJ657-2013	OPTIMA8000 HKTS-A-043	0.8μg/m^3
			2μg/m^3
			0.9μg/m^3
			2μg/m^3
			4μg/m^3
			2μg/m^3
			0.8μg/m^3
			0.9μg/m^3
			2μg/m^3
			2μg/m^3
			0.9μg/m^3
			0.7μg/m^3
	HJ38-2017	9790 ZSX-SC-041	0.06mg/m^3
	- HJ77.2-2008	DFS IHBC-	

		GB/T15432-1995	ES1055A ZSX-SC-037	0.001mg/m^3
		HJ533-2009	722S ZSX-SC-013	0.01mg/m^3
			722S ZSX-SC-013	0.0014mg/m^3
		GB/T14675-93	OTS-550 ZSX-SC-072	/
	pH	pH HJ1147-2020	SX620 pH WHHJ/YS-04-068	/
		HJ535-2009	722S ZSX-SC-013	0.025mg/L
		GB/T 5750.7-2006 1.1	25.00mL	0.05mg/L

GB
7484-87

		- HJ484-2009		
		HJ694-2014	AFS-8220ZSX-SC-045	0.3μg/L

N4S

GB/T 5750.5-2006

5.2

		GB 7475-1987		0.05mg/L
		GB 7475-1987		0.05mg/L
		GB11911-89		0.03mg/L
		GB11911-89		0.01mg/L
		GB 11912-1989		0.05mg/L

		GB/T 5750.4-2006 8.1	FA2004B ZSX-SC-068	/
		/ HJ 680-2013	AFS-230E HKTS-A-079	0.002mg/kg
		12 - HJ803-2016	ICP-MS 1000G	0.04mg/kg
		GB/T17141-1997	900T HKTS-A-001	0.1mg/kg
		/ HJ680-2013	AFS-230E HKTS-A-079	0.01mg/kg
		HJ737-2015	900T HKTS-A-001	0.03mg/kg
		HJ491-2019	900T HKTS-A-001	4mg/kg
		/ HJ680-2013	AFS-230E HKTS-A-079	0.002mg/kg
		- HJ77.4-2008	DFS IHBC-SY-03	/
		HJ491-2019	900T HKTS-A-001	1mg/kg

		12 - HJ803-2016	900T HKTS-A-001	0.4mg/kg
	pH	GB6920-86	SX620 pH WHHJ/YS-04-068	/
		GB/T17141-1997	900T HKTS-A-001	0.01mg/kg
	TSP	GB/T16157-1996 8 - HJ482-2009	FA1004 WHHJ/YS-01-001 V-1100 WHHJ/YS-01-011	0.1mg/m^3 0.007mg/m^3

g[() TJETQ EMC /P <</MCID 46/Lang (en-US)>BDC q430.03 527.47 80.904 51.384 reW* nBT/F1 10.56 Tf1 0 0 1 4440 1 369.38 Tm0 g4 g[(m)17(/)5(m)] TJETQ

		HJ 657-2013	Optima8300 YHJC-JC-003-01	0.004μg/m^3
		HJ 657-2013	Optima8300 YHJC-JC-003-01	0.003μg/m^3

[redacted]

				mg/L	
	WX200-1KB	ND	ND	mg/L	
	WX100-1KB	ND	ND	mg/L	
	WX200-1KB	ND	ND	mg/L	
	WX100-1KB	ND	ND	mg/L	
	WX200-1KB	ND	ND	mg/L	
	WX100-1KB	ND	ND	mg/L	
	WX200-1KB	ND	ND	mg/L	

	WX200-1KB	ND	ND	mg/L	
	WX100-1KB	ND	ND	mg/L	

WX200EMC /I

	[redacted]		[redacted]				
	WX101-10PX	ND	ND	mg/L	0.0%	≤10%	
	WX101-4PX	[redacted]	[redacted]	mg/L	0.0%	≤10%	
	WX201-4PX	0.05	0.05	mg/L	0.0%	≤10%	

0.05

	WX101XPX	33.6	34.2	mg/L	0.9%	≤10%	
	WX201XPX	41.0	39.8	mg/L	1.5%	≤10%	
	WX101XPX	ND	ND	mg/L	0.0%	≤10%	
	WX201XPX	ND	ND	mg/L	0.0%	≤10%	
	WX101XPX	1.1	1.1	mg/L	0.0%	≤10%	
	WX201XPX	1.1	1.0	mg/L	4.8%	≤10%	
	WX101XPX	0.122	0.125	mg/L	1.2%	≤10%	
	WX201XPX	0.107	0.110	mg/L	1.4%	≤10%	
ND							

	201936	52.2mg/L	53.0±2.6mg/L	
	2005134	4.46mg/L	4.46±0.23mg/L	
	B21080004	1.20μg/L	1.22±0.13μg/L	
	B21070400	0.634mg/L	0.629±0.028mg/L	

	1.0319	1.00	mg/L	3.2%	≤10%	
	0.486	0.50	μg/L	2.8%	≤20%	
	0.819	0.80	μg/L	2.4%	≤	

2023 1 7 8

9-1

2023

9-2

	m^3/h	2023.01.07	517891	510577	519998	516155	519998	/	/
		2023.01.08	505184	512723	500181	506029	512723		
		2023.01.07	113.5	93.6	93.2	100	113.5	/	/
		2023.01.08	93.1	91.9	94.6	93	94.6		
1	%	2023.01.07							

		2023.01.08	8.1	8.8	8.3	8.4	8.8		
	mg/m^3	2023.01.07	6.1	5.5	5.9	5.8	6.1	/	/
		2023.01.08	5.3	7.2	6.6	6.4	7.2		
	mg/m^3	2023.01.07	5.8	4.8	5.1	5.2	5.8		
		2023.01.08	4.5	6.5	5.7	5.6	6.5		
	kg/h	2023.01.07	3.159	2.808	3.068	3.012	3.159	/	/
		2023.01.08	2.677	3.692	3.301	3.223	3.692		
[redacted]									

2023.01.08 85

	2023.01.08	0.7	0.8	1.3	0.9	1.3

		0.1ngTEQ/m^3	2023.01.07	0.0023	0.035	0.0012	0.013	0.0023	0.1ngTEQ/m^3	
			2023.01.08	0.0035	0.013	0.0018	0.0061	0.013		

ND

GB4915-2013 2

GB30485-2013 1

2	m^3/h	2023.04.26	8491	8298	8211	8333	8491	/	/
		2023.04.27	8103	8634	8721	8486	8721		
		2023.04.26	27.7	28.1	28.1	28.0	28.1	/	/
		2023.04.27	28.0	28.3	28.4	28.2	28.4		
	%	2023.04.26	2.6	2.6	2.6	2.6	2.6	/	/

			2023.04.27	2.8	2.8	2.8	2.8	2.8		
	m/s		2023.04.26	9.4	9.2	9.1	9.2	9.4	/	/
			2023.04.27	9.0	9.6	9.7	9.4	9.7		
		mg/m^3	2023.04.26	23.7	24.4	24.2	24.1	24.4		
			2023.04.27	24.5	23.8	24.1	24.1	24.5		
		mg/m^3	2023.04.26	/	/	/	/	/	/	/
			2023.04.27	/	/	/	/	/		
		kg/h	2023.04.26	0.201	0.202	0.199	0.201	0.202	/	/
			2023.04.27	0.199	0.205	0.210	0.205	0.210		

GB16297-1996 2

9-5 9-4

2023.01.08		1.1	58.4	12.6	101.26

○ 1		2023.01.07	0.03	0.04	0.03	0.04	0.04		
		2023.01.08	0.04	0.05	0.05	0.04	0.05		
○ 2	1#	2023.01.07	0.04						

mg/m^3

○ 2	1#		2023.01.07	ND	ND	ND	ND	ND		
			2023.01.08	ND	ND	ND	ND	ND		
○ 3	2#		2023.01.07	ND	ND	ND	ND	ND		
			2023.01.08	ND	ND	ND	ND	ND		
○ 4	3#		2023.01.07	ND	ND	ND	ND	ND		
			2023.01.08	ND	ND	ND	ND	ND		
○ 1			2023.01.07	0.318	0.345	0.280	0.379	0.379		/
			2023.01.08	0.388	0.346	0.421	0.403	0.421		/
○ 2	1#	mg/m^3	2023.01.07	0.569	0.507	0.559	0.615	0.615	1	/
			2023.01.08	0.525	0.577	0.608	0.664	0.664		/
○ 3	2#		2023.01.07	0.523	0.484	0.466	0.568		0.5mg/m^3	

0.403 10.56 Tf 1 0 0 1 627.2E93 4538765FTQ EMC /P <</ BDC q610.99 244.73 56.3046261 215.. Q /P <</MCID 174>>BDC 221 215.. Q5 0.48 0.48001 ref*305.51 215..5 0.47998 0.48001 ref*3061 215.. Q5 0.4

0.568

		2023.01.07	0.273	0.273	0.279	0.236	0.236		
		2023.01.08	0.228	0.231	0.21	0.261	0.243		
○ 1			2023.01.07	<10	<10	<10	<10	<10		
			2023.01.08	<10	<10	<10	<10	<10		
○ 2	1#		2023.01.07	<10	<10	<10	<10	<10		
			2023.01.08	<10	<10	<10	<10	<10		
○ 3	2#		2023.01.07	<10	<10	<10	<10	<10		
			2023.01.08	<10	<10	<10	<10	<10		
○ 4	3#		2023.01.07	<10	<10	<10	<10	<10		
			2023.01.08	<10	<10	<10	<10	<10		
“ND”										

9-5 GB4915-2013 3

GB14554-93 1

9-6

		2023.01.07	ND	ND	10μg/L	
		2023.01.08	ND	ND		
		2023.01.07	ND	ND	0.005	
		2023.01.08	ND	ND		
		2023.01.07	ND	ND	0.01	
		2023.01.08	ND	ND		
		2023.01.07	ND	ND	0.02	
		2023.01.08	ND	ND		
		2023.01.07	0.1	0.1	0.3	

		2023.02.16	ND	ND		
		2023.02.15			3.0	
		2023.02.16				
		2023.02.15	0.008	0.007	0.05	
		2023.02.16	0.006	0.007		
		2023.02.15	ND	ND	1.0	
		2023.02.16	ND	ND		
		2023.02.15	ND	ND	1.0	
		2023.02.16	ND	ND		
		2023.02.15	ND	ND	0.001	
		2023.02.16				

			1.23	180	
			0.31	65	
			45.6	800	
			62	18000	
			ND	5.7	
			2.50	29	
			13.7	70	
			67.0	752	
			0.98	40ngTEQ/mg	
2023.01.07	▼2	pH	5.7	/	/
			22.1	60	
			0.190	38	
			2.23	180	
			1.24	65	
			49.5	800	
			141	18000	
			ND	5.7	
			2.62	29	
			14.9	70	
			82.5	752	
			0.44	40ngTEQ/mg	

9-9

	mg/m^3	2023.01.07	0.010	0.008	0.012	0.011	0.012		
		2023.01.08	0.008	0.012	0.009	0.010	0.012		
	mg/m^3	2023.01.07	0.026	0.024	0.027	0.026	0.027		
		2023.01.08	0.029	0.026	0.028	0.029	0.029		
○ 1	mg/m^3	2023.01.07	0.02						

		2023.01.08	ND	ND	ND	ND	ND		
	mg/m^3	2023.01.07	ND	ND	ND	ND	ND		
		2023.01.08	ND	ND	ND	ND	ND		
	mg/m^3	2023.01.07	0.62	0.56	0.68	0.60	0.68		
		2023.01.08	0.52	0.58	0.56	0.62	0.62		
		2023.01.08	<10	<10	<10	<10	<10		

1.“ND”

TVOC

○ 1

	mg/m^3	2023.01.07	ND	×	
		2023.01.08	ND		
	μg/m^3	2023.01.07	ND		

TSP	GB3095-2012

9-11

2023.01.07			3.012	310	99.56	22.51	181.357
			7.573			56.59	408.375
			41.995			313.82	1306.8
2023.01.08			3.223		102.37	23.42	181.357
			9.625			69.95	408.375
			41.833			304.03	1306.8
						22.97	181.357
						63.27	408.375
						168.39	1306.8
1.							2023 1
7 -8							
2.			t/a =A*B*24*10^{-3}/C				

9-11

1

7.2mg/m^3

23mg/m^3 90mg/m^3

0.71mg/m^3 GB4915-2013

2 0.8mg/m^3

0.8mg/m^3 0.007μg/m^3

0.035ngTEQ/m³ TOC 1.64mg/m^3

GB30485-2013

GB16297-1996 2

GB4915-2013 3

GB14554-93

2

GB12348-2008 4

GB3096-2008

1 2

3

TSP

GB3095-2012

HJ2.2-2018 D

D.1

[2008]82

“ ”

		N7723		□ □	/	114.8631 E 30.2046139 N
		4500t/d 20 t/a		4500t/d 20 t/a		
				[2020]79		

2022

		1500				100		%		6.67					
		1324				200		%		15.1					
		/		127		18		/		/		55			
		/				/				7440h/a					
					9142028 13523528276					2023 1 7 -1 8					

1

2