2024 11

1

1997 GAP

2016

2017 11 A

0.04 /

2020 3

2020 7 2020 203

2023

2

2024 5

2024 7 12-13

2

2.1

1 2015.1.1

2 2018.12.29

3 2018.12.29

4 2018.1.1

5 2020.9.1

6 2018.10.26

7 2012.7.1

8 2016.7.2

9 2016.7.2

10 2019.1.1

11

2018 6 2018.1.30

12 2021 15 2021.1.1

13 2010 38

14 2017 4

2.2

1 HJ792-2016 2016.7.1

2 HJ819-2017 2017.6.1

3 2015 113

2015.12.31

2.3

1

2020.5

2

2020 203 2020.7.28

1

3

2023.3

4

2023.3 2

5 3

6 4

3

3.1.1

>˜ 3.1-1

	3000
	8 288
	2020.7.28
	2020.4.24
	2021.4.24
	/

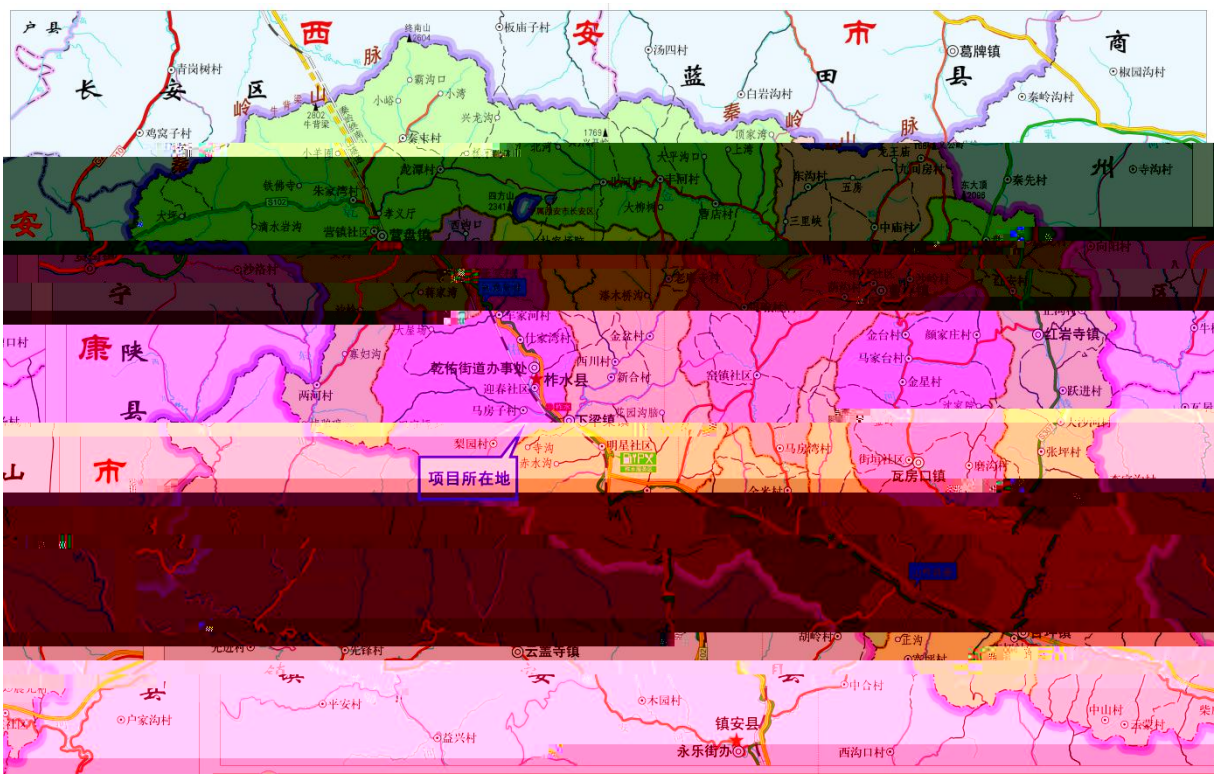
3.1

3.1.1

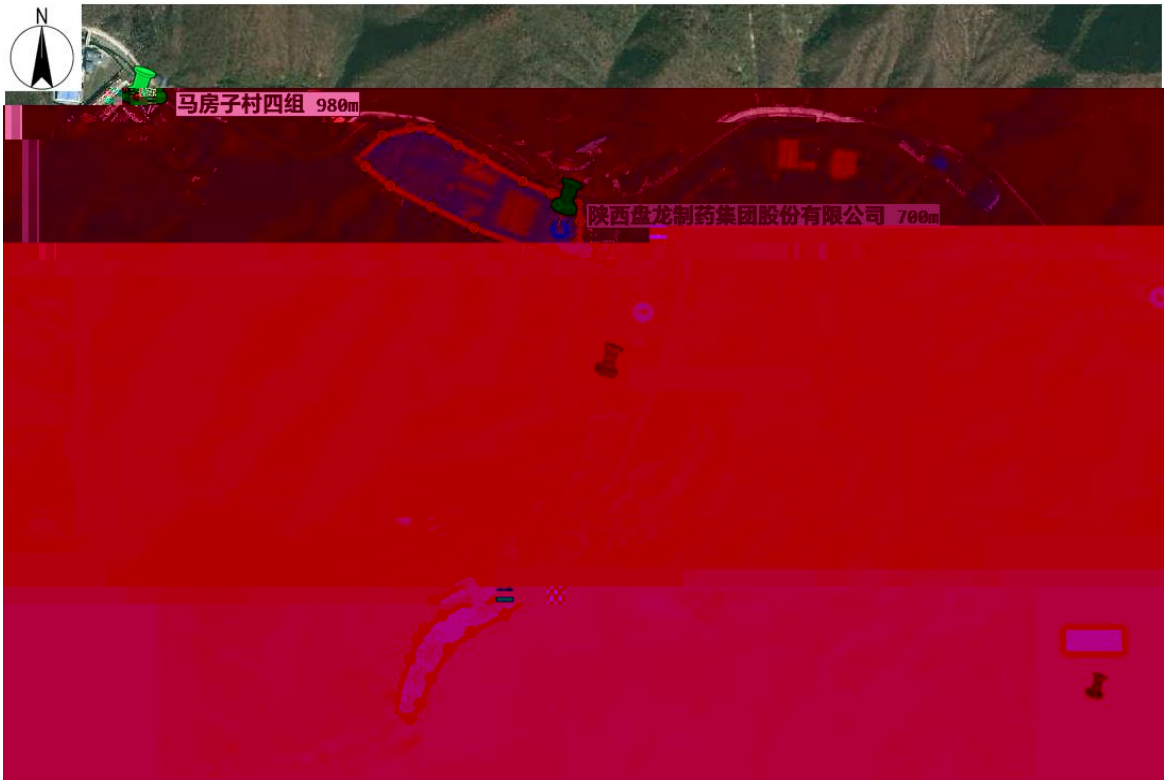
4Ö

2.4 # È ` - 7 211 ² 3Ø1-1„

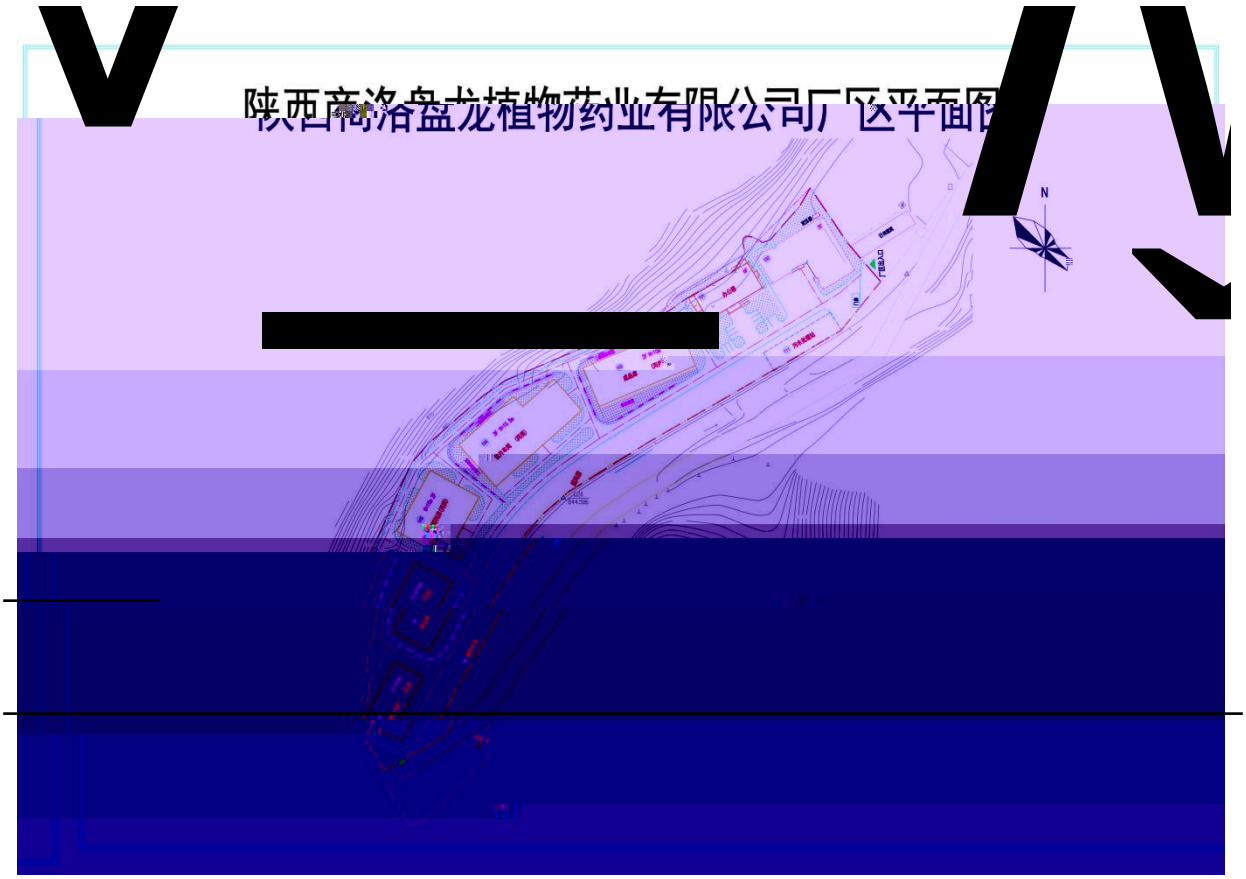
		NE	1112	-	
		NE	450	200	
			1300	90	
	10				
					GB15618-2018 GB36600-2018



3.1-1



3.1-2



3.1-3

3.2

3.2.1

3.2-1

3.2-1

1		50	0.3	2015	
2		100	900	2015	
3		50	2100	2015	

3.2.2

3.2-2

3.2-2

( )	

2-3

5759.58

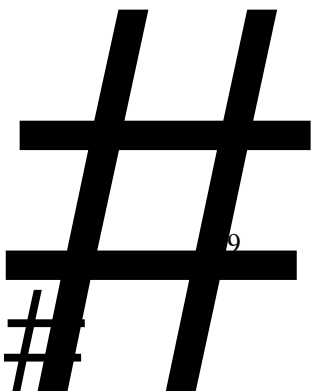
	( )			
	2936.01		3692.01 1 /2 +	
	2447.85	2 +	2 +	
	1008	1	1	
	46	1 1 3 ³	/	
		1026 ³	1026 ³	
		10 380 200 A	10 380 200 A	
		143 1 4 /	143 1 4 /	
		3721.96 6-7 7089.59 7	3721.96 6-7	
		15	15	
		+	+	
		+ + +	3	
		540	180	

( )

30 ³/
1026 ³

30 ³/
80 ³

30 1



			/				/	
5		-3	1	5		-3	1	
6		900	2	6		900	2	
7		1 ³	2	7		1 ³	2	
8		-2000	2	8		-2000	2	
9		Q 240	2	9		Q 240	2	
10		DQ 360	1	10		DQ 360	1	
11		JD-300	1	11		JD-300	1	
12		BPJ220	1	12		BPJ220	1	
13		H -II	2	13		H -II	2	
14		D -1.2-8	1	14		D -1.2-8	1	
15		C 800	4	15		C 800	4	
16		1000	6	16		1000	6	
17		G200	3	17		G200	3	
18		FQ16L 2	1	18		FQ16L 2	1	
19		B J120	1	19		B J120	1	
20		D -600	1	20		D -600	1	
21		P-220	1	21		P-220	1	
22		D DK-520	1	22		D DK-520	1	
1	PH	-	2	1	PH	-	2	
2		-	3	2		-	3	
3		-	4	3		-	4	
4		-	3	4		-	3	
5		-	3	5		-	3	
6		-	2	6		-	2	
7	/	-	3	7	/	-	3	
8		-	2	8		-	2	

3.3

2015

3.3-1 3.3-2

3.3-1

1	1	
(120) / 3600	(120) / 3600	

		/	1			/	1	
2								
		/	30		/	/	/	
		/	8		/	/	/	
		/	8		/	/	/	
		/	100		/	/	/	

3.3-2

1		0.25MP	/	14.00	1		0.25MP	/	14.00	
2		380/220 50H		1643.39	2		380/220 50H		1643.23	
3		-	³/	48	3		-	³/	47.99	

3.4

3.4.1

120

3.4.2

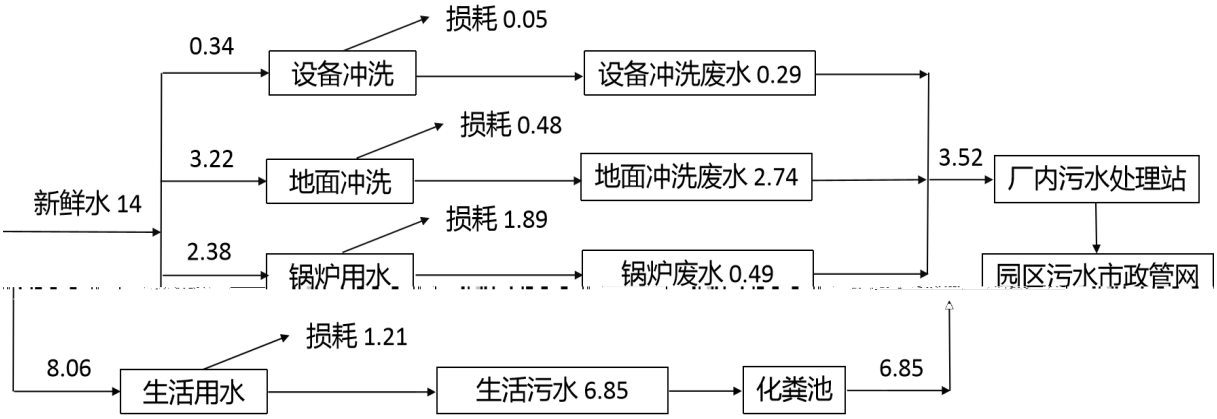
14 ³/

3.4-1 3.4-1

3.4-1

		(m³/d)		**(m³/d)**	**(m³/d)**
1		0.34		0.29	0.05
2		3.22		2.74	0.48
3		2.38		0.49	1.89
4		8.06		6.85	1.21
				10.37	3.63

		(m^3/d)		**(m^3/d)**	**(m^3/d)**
		14.00		**14.00**	



3.4-1

3.5

0.3 3000 2023

1 1 3000

3.5.1

3.5-1

120

1-2 2-4

10-15 8-12 2-3 5-10

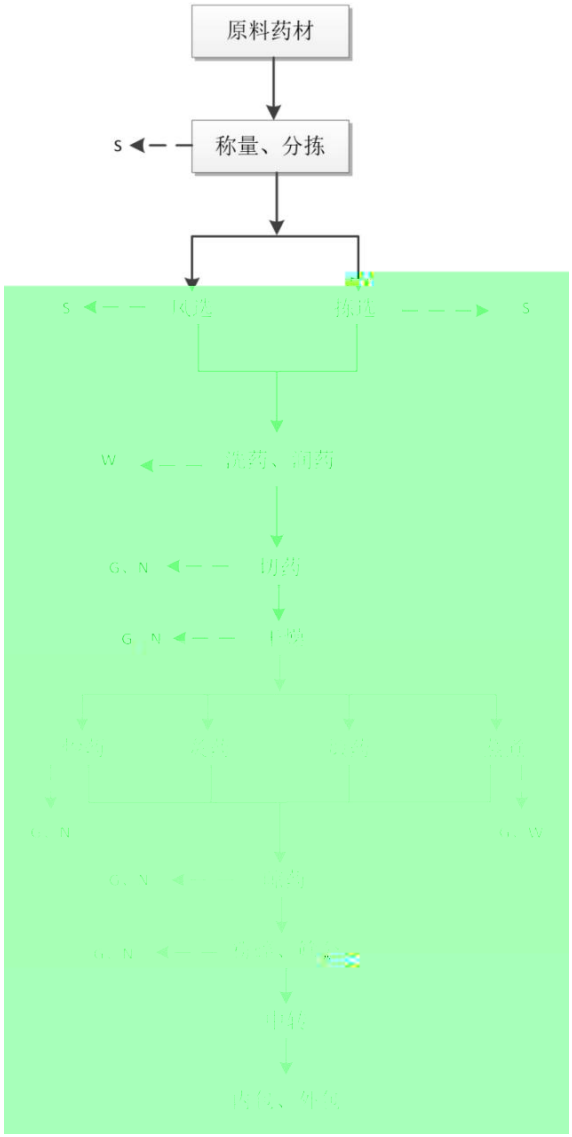
30

/

10% 60 80

2-6

/



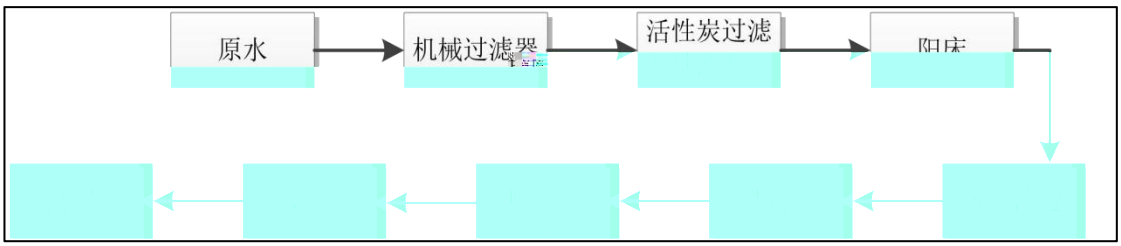
3.5-1

6

3.5.2

1

2



3.5-2

2

32

37 =5

3

1 4 /

O_2 NO

4

10.1065 ^{3}/ COD BOD_5

NH_3-N

82 0.5 /

11.808 /

3.5-1

3.5-1

			COD BOD_5
			COD BOD_5

			COD BOD_5
			H_2 NH_3
			O_2 NO
			A

3.6

(2018) “

42 ”

(2015 52)

2018

6

(

)

3.6-1

1

20

2

3

3.6-1

1		50%	1 1 3000	1 1 3000		
2						
3						
			3000	3000		
4			15	15		
		10%				

						20	
				+	3		
				+			
				80 3	80 3		

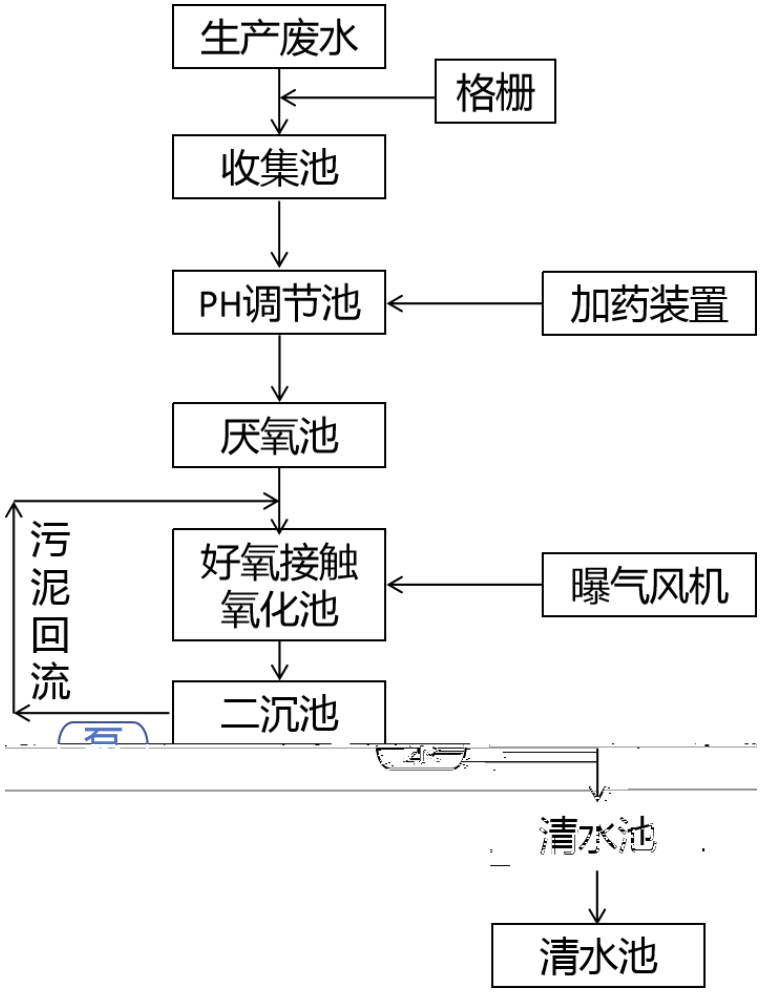
4

4.1 /

4.1.1

4.1.1.1

1



4.1-1

PH

O

A

AO

2

10 /

4.1.2.2

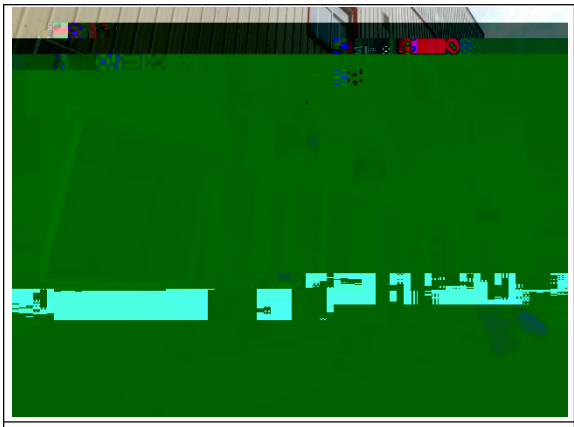
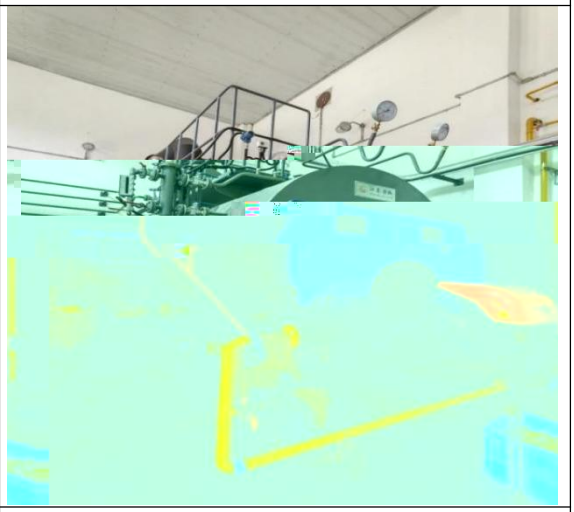
" א t כ t א , א t כ "

20

3

3

4.1-3

	
3	
	
4 /	4 /

4.1-3

4.1.3

4.1.3.1

200 60 B

GB12523-2011

22 00 06 00

22 00-06 00

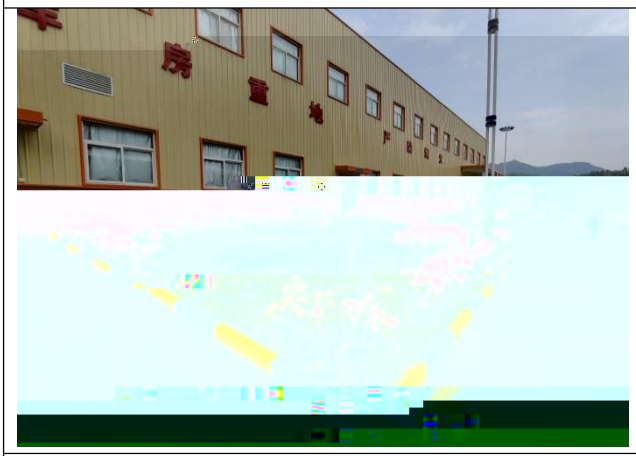
4.1.3.2

4.1-1

4.1-1

				dB A	/
		2		70	
		1		75	
		4		65	
		1/2		70	

4.1-4



4.1-4

4.1.4

4.1.4.1

4.1.4.2

4.1-2

4.1-2

		(t/a)		
1		2.6		
2		0.6		
3		0.2	H 08	
4		11.808		

COD BOD_5

0.2 /

15 30

4.1-5

(1)

(2)

4.2.2

4.2.3

1

(1 2- 3) + 4+ 5

1——

0

2——

3

2=∑Q

Q — (10L/)

— 2

72 3

3——

3

4—— 3

0

5——

5 0

(1 2- 3) + 4+ 5 (0+72-0)+0+0 72 3

72 3

72 3 80 3

80 3

2

3

1)

2)

4.3. “ ”

4.3.1“ ”

“ ” /

15

“ ”

4.3-1

		30 3/	(GB8978-1996)	30 3/ GB21906-2008 2	
		(30 3)		(30 3)	

(80 ^{3})

(80 ^{3})

15

(

)

(GB37823-2019
) 1

8

	2 3	(GB12348-2008)3	2 3	
			COD BOD_5	
			2023 2	

4.3.2

8150 238

2.92% 4.3-1

4.3-1

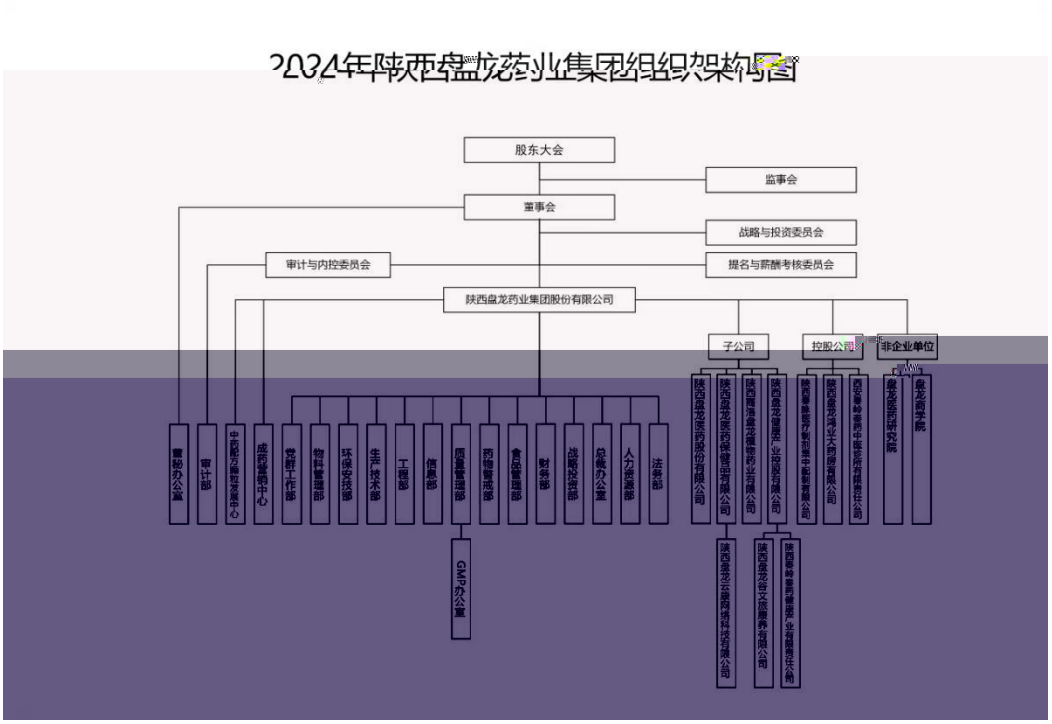
	15	8
	/ 3	7
+15	55 +15	55

+ □

\

4.3.3

4.3-1



4.3-1

1

2

3

4

5

5

5.1

5.1-1

5.1-1

		15	/
		15	
		15	
		+15	
		+ +15	
		(30 ^{3})	
		(1026 ^{3})	(80 ^{3})

5.2

5.2.1

2020 203

0.3 3000

1 274 2.74%

1 DB61/1078-2017 1

GB37823-2019 1

GB37822-2019

DB61/1226-2018

2

3

GB8978-1996

4

5

GB12523-2011

GB12348-2008 3

6

7

8

5.2.2

2023 3

6

6.1

1

(GB3095-2012) NH_3 H_2

HJ2.2-2018 D 6.1-1

6.1-1

					( )
1	O_2	24	150	/ 3	GB3095-2012
		1	500		
2	NO_2	24	80		
		1	200		
3	P	24	300		
4	PM_{10}	24	150		

2

GB3838-2002

6.1-2

6.1-2

				( )
1	H	6 9		GB3838-2002
2		0.5	/L	
3	COD	15		
4	BOD_5	3		
5		0.05		
6	DO	6		
7		0.002		

3

GB/ 14848-2017 III

6.1-3

6.1-3

				( )
1	H	6.5 8.5		GB/ 14848-2017
2		450	/L	
3		1000		
4		0.5		
5		1.0		

6		0.0		
7		20.0		
8		1.00		
9				
10				
11		3.0		
12		1.00		
13		0.01		
14		0.005		
15		1.0		
16		0.001		
17		0.01		
18		0.3		
19		0.1		
20	C^-	250		
21	O_4^{2-}	250		
22		0.05		
23		100	/L	
24		3.0		

6.1-5

4

GB3096-2008 3 6.1-4

6.1-4

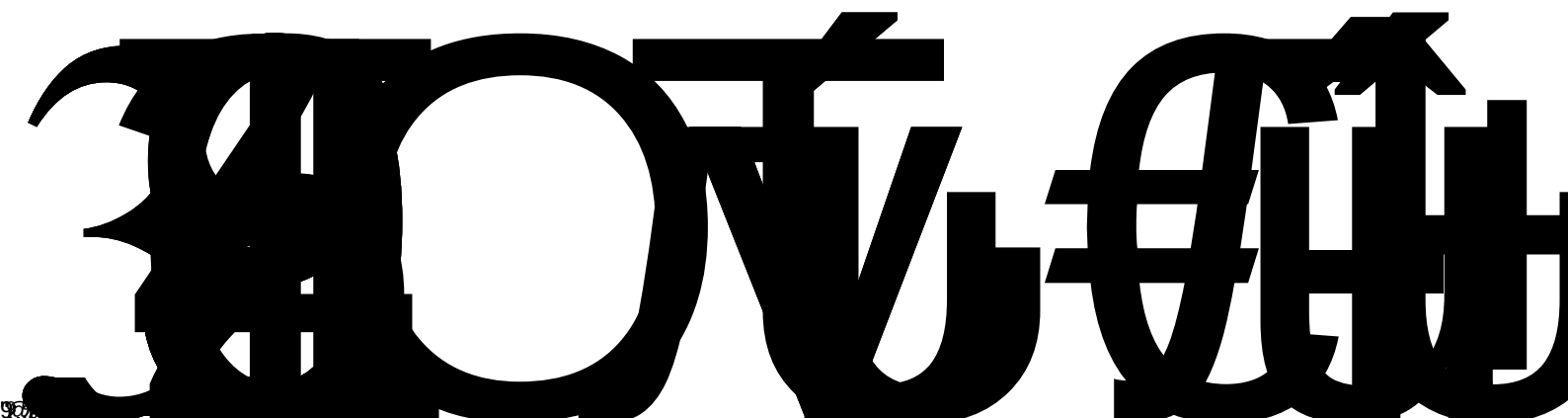
1	L A	65	B A	GB3096-2008 3
2	L A	55		

5

GB

15618 1

					( )
	13	1,1-	66	200	
	14	-1,2-	596	2000	
	15	-1,2-	54	163	
	16		616	2000	
	17	1,2-	5	47	
	18	1,1,1,2-	10	100	
	19	1,1,2,2-	6.8	50	
	20		53	183	
	21	1,1,1-	840	840	
	22	1,1,2-	2.8	15	
	23		2.8	20	
	24	1,2,3-	0.5	5	
	25		0.43	4.3	
43	26		4	40	
	27		270	1000	
	28	1,2-	560	560	
	29	1,4-	20	200	
	30		28	280	
	31		1290	1290	
	32		1200	1200	
	33	+	570	570	
	34		640	640	
	35		76	760	
	36		260	663	
	37	2-	2256	4500	
	38		15	151	
	39		1.5	15	
	40		15	151	
	43				



GB 37823 2019 1

GB37822-2019

DB61/1226-2018 3

6.2-1

6.2-1

		mg/m³	
		30	GB 37823 2019 1
		100	
	NO	50	DB61/1226-2018 3
	O_2	20	
		10	
		1 10	GB37822-2019
		30 30 / ³	

2

GB8978-1996

GB8978-1996

GB21906-2008 2

6.2-2

6.2-2

	mg/m³	
COD	500	GB8978-1996
BOD	300	
	400	
H	6 9	
COD	100	GB21906-2008 2
BOD	20	
NH_3-N	8	
	50	
	0.5	
	20	
	50	
	5	
	25	
(H C ₂)	0.07	

3

GB12523-2011

GB12348-2008 3

6.2-3

6.2-3

				( )
1		70	B(A)	GB12523-2011
2		55		
3		65		GB12348-2008 3
4		55		

4

GB 18599-2020 GB 18597-2023

6.3

0.0192 / 0.2289 /

7

7 12 13 5

7.1-1 7.1-2

7.1

2 7.1-1

	4#		

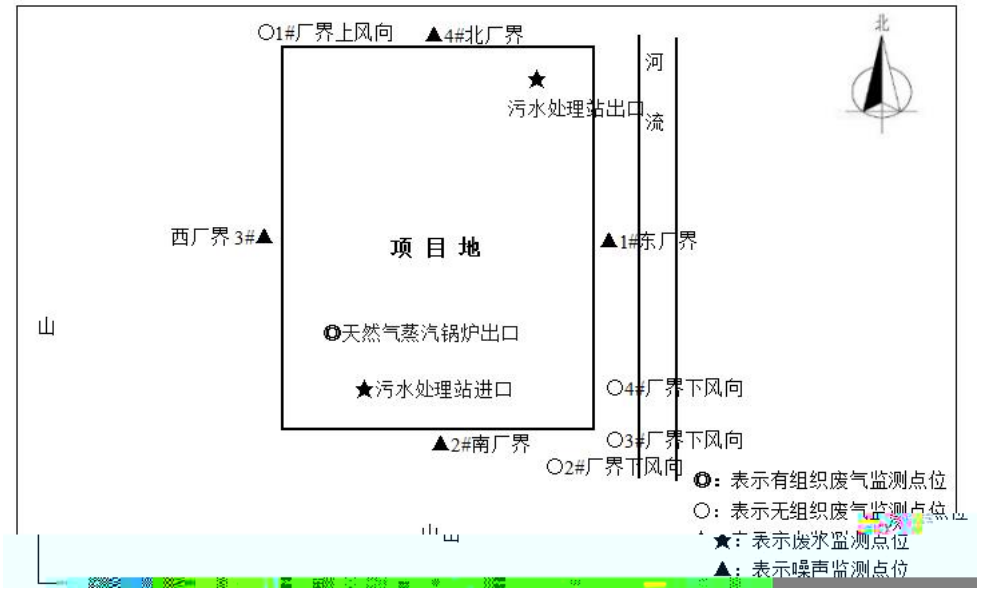
7.3

4 1 1.2

7.3-1 7.1-1

7.3-1

1	1# 2# 3# 4#	A 2 1



7.1-1

7.4

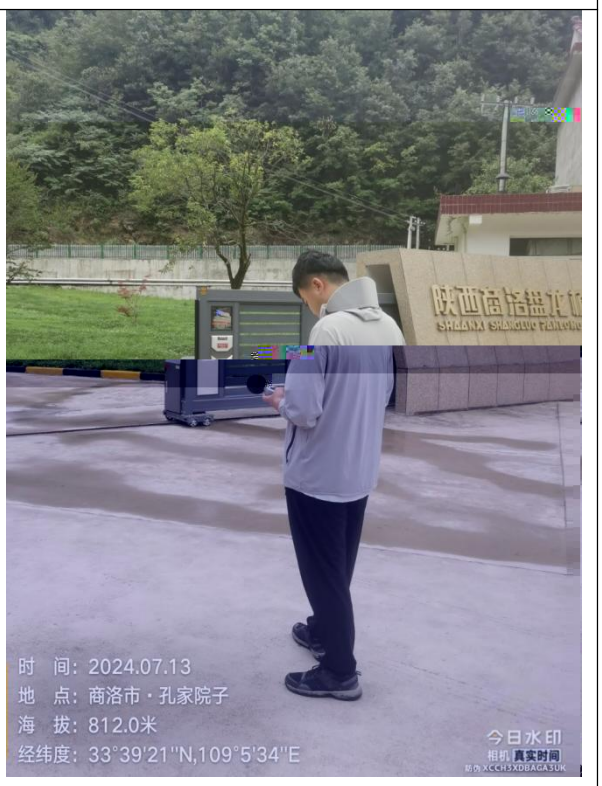
1

2

3


时 间：2024.07.12
地 点：柞水县·龙须沟
海 拔：821.6米
经纬度：33°39'17"N,109°5'24"E
今日水印
相机 真实时间


地 点：商洛市·龙须沟
海 拔：818.2米
经纬度：33°39'20"N,109°5'32"E


时 间：2024.07.13
地 点：商洛市·孔家院子
海 拔：812.0米
经纬度：33°39'21"N,109°5'34"E
今日水印
相机 真实时间

7.1-2

8

8.1

8.1.1

1

8.1-1

8.1-1

			/ /	
1		HJ 836-2017	GH-60E/ /IE-0206 A 120D/ /IE-0023 B L -H / /IE-0010	1.0 / 3
2		HJ 693-2014	GH-60E/ /IE-0206	3 / 3
3		HJ 57-2017		3 / 3
4		HJ/ 398-2007	HM-LG30/ /IE-0250	/

2

8.1-2

8.1-2

			/ /	
1		HJ 533-2009	KB-6120 / /IE-0011 KB-6120 / /IE-0012 KB-6120 / /IE-0013 KB-6120 / /IE-0014 722 / /IE-0034	0.01 / 3
2		2002		0.001 / 3
3		HJ 1263-2022	KB-6120 / /IE-0011 KB-6120 / /IE-0012 KB-6120 / /IE-0013 KB-6120 / /IE-0014 A 120D/ /IE-0023	168 / 3 6 3

			B L -H / /IE-0010	

8.1.2

8.1-3

8.1-3

		/ /	
1 H	H HJ 1147-2020	PH818/ PH /IE-0259	0 14
2	HJ 828-2017	50 L	4 /L
3	BOD_5 HJ 505-2009	P -250/ /IE-0040 JP J-605/ /IE-0009	0.5 /L
4	GB/ 11901-1989	101-3EB / /IE-0036 GL2004B/ /IE-0031	4 /L
5	HJ 535-2009	2602/ /IE-0032	

8.1.3

8.1-4

8.1-4

L	GB 12348-2008	A A6288+/ /IE-0015

		16024/ /IE-010 9A A6022A/ /IE-0018

8.2

8.2-1 8.2-2

8.2-1 /

				/
1		A 120D/	IE-0023	/2023.12.02-2024.12.01
		B L -H /	IE-0010	/2023.12.02-2024.12.01
2		GH-60E/	IE-0206	/2024.04.02-2025.04.01
3		AD -2062G/	IE-0011	/2024.01.20-2025.01.19
		AD -2062G/	IE-0012	/2024.01.20-2025.01.19
		AD -2062G/	IE-0013	/2024.01.20-2025.01.19
		AD -2062G/	IE-0014	/2024.01.20-2025.01.19
		722 /	IE-0034	/2023.12.02-2024.12.01
4	A	A A6288+/	IE-0015	/2024.04.02-2025.04.01
		16024/	IE-0109	/2023.12.04-2024.12.03
		A A6022A/	IE-0018	/2023.12.04-2024.12.03

8.2-2 /

				/
1		101-3EB /	IE-0036	/2023.12.02-2024.12.01
		GL2004B/	IE-0031	/2023.12.02-2024.12.01
2	H	PH818/ PH	IE-0259	/2023.12.02-2024.12.01
3		P -250/	IE-0040	/2023.12.02-2024.12.01
		JP J-605/	IE-0009	
4		2602/	IE-0032	/2023.12.02-2024.12.01
5		DGL-50B/	IE-0020	/2023.12.02-2024.12.01

6		CHC-100/	IE-0084	/2024.04.19-2025.04.18

8.3

8.3-1

	HBJ0003	HBJ0073	HBJ0020	HBJ0030	HBJ0028
			/	/	/
	HBJ0068	HBJ0010	/	/	/

8.4

1

2

3

4

5

6

7

8

9

10%

10

10%

10%

9

9.1

82

8 288 2024 7 12 7 13

9.2

9.2.1

9.2.1.1

9.2-1

GB 201906-2008

2

9.2.1.2

15 9.2-2

O_2 NO

DB61/1226-2018 3

(GB13271-2014) 2

9.2-3 4

GB 16297-1996 2

GB14554-93 1

9.2.1.3

1

2

3

9.2-4

GB12348-2008 3

9.2.1.4

1

COD BOD_5

2

15 30

9.2.2

9.2.2.1

2024 07 12 13

9.2-1

9.2-1

	2024.07.12				**2024.07.13**			
H	7.9 17.0	8.1 18.4	8.0 18.8	/	7.9 16.3	8.1 17.9	8.0 19.0	/
/L	815	781	797	798	832	824	789	815
/L	234	242	216	231	241	234	219	231
/L	49	55	51	52	58	49	56	54
/L	27.1	26.8	28.5	27.5	26.8	22.5	26.5	25.3
/L	37.6	39.4	35.9	37.6	36.9	41.8	39.4	39.4
/L	2.33	2.43	2.22	2.33	2.51	2.34	2.40	2.42
/L	3.60	3.46	3.41	3.49	3.36	3.36	3.15	3.29
( )	20	30	20	23	30	30	30	30
* /L	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
* /L	157	157	170	161	172	165	178	172

	2024.07.12					**2024.07.13**					
					%					%	
H	7.8 17.3	7.8 18.1	7.8 19.3	/	/	7.8 16.0	7.6 18.1	7.8 18.7	/	/	**6~9**
/L	29	30	24	28	96.49	31	33	31	32	96.07	**100**
	9.2	7.4	8.6	8.4	96.36	9.7	9.2	9.6	9.5	95.89	**20**

/L											
/L	12	11	14	12	76.92	10	11	14	12	77.78	**50**
/L	0.410	0.460	0.383	0.418	98.48	0.460	0.360	0.493	0.438	98.27	**8**
/L	1.59	1.41	1.50	1.50	96.01	1.22					

9.2.2.2

1

9.2-2

9.2-2

		2024.7.12				**2024.7.13**					
										/	/
		109.3	112.7	113.9	112.0	101.9	111.7	122.5	112.0	/	/
	/	5.83	5.88	5.98	5.90	5.91	5.95	6.01	5.96	/	/
	%	2.6	3.3	3.9	3.3	3.3	2.8	4.0	3.4	/	/
	%	5.0	5.0	5.1	5.0	5.3	5.2	5.2	5.2	/	/
	3/	3337	3366	3423	3375	3383	3406	3440	3410	/	/
	3/	2025	2024	2050	2033	2095	2056	2019	2057	/	/
	/ 3	1.1	1.5	1.3	1.3	1.1	1.4	1.2	1.2	/	/
	/ 3	1.0	1.5	1.3	1.3	1.1	1.3	1.2	1.2	10	
	/	2.23 10-3	3.04 10-3	2.66 10-3	2.64 10-3	2.30 10-3	2.88 10-3	2.42 10-3	2.53 10-3	/	/
	/ 3	3ND	3ND	3ND	3ND	3ND	3ND	3ND	3ND	/	/
	/ 3	3ND	3ND	3ND	3ND	3ND	3ND	3ND	3ND	20	
	/	/	/	/	/	/	/	/	/	/	/
	/ 3	26	24	20	23	28	25	28	27	/	/
	/ 3	25	24	20	23	28	24	29	27	50	
	/	0.0526	0.0486	0.0410	0.0474	0.0587	0.0514	0.0565	0.0555	/	/
		<1	<1	<1	<1	<1	<1	<1	<1	<1	/

9.2-2 O_2 NO

DB61/1226-2018 3

(GB13271-2014) 2

2

1 3

H_2 NH_3

P)^p * 9.2-3

9.2-3

		mg/m³

9.2.2.3

2024 07 12 13

4 9.2-4

9.2-4 **dB A**

	Leq[dB A]	
	2024.7.12	**2024.7.13**
1#	55	56

9.2.2.5

9.2-5

9.2-5

	kg/h	**h/a**	**t/a**	**t/a**	**t/a**	
	2.585 10^{-3}	2304	0.0056	0.0078	0.0078	
O_2	/	2304	/	0.0192	0.0192	
NO	0.05145	2304	0.1185	0.2289	0.2289	

9.2-5

10

10.1

10.1.1

1

O_2 NO

DB61/1226-2018 3

(GB13271-2014) 2

GB 16297-1996 2

GB14554-93 1

2

10.1.2

1

O_2 NO

DB61/1226-2018 3

(GB13271-2014) 2

2

GB 201906-2008 2

3

GB12348-2008 3

4

5 , □

10.2

GB 3096-2008

“ ”

2019-611026-27-03-026914

□ □ 109 ° 5 ′ 45 ″

/ 3.