

	46				
	46				
	/				
			2021 150 2021 4 20		
	/		/		
	/				
			2023 3 ~2023 7		
	1	46	2021 8 10 2022 4 7		
	1	46	2022 3 11 2022 6 9		
	10320		165		1.60%
	13014		343		2.64%
	2021 3 46 4 20 2021 2021 150				

				2021	8	10			2022	3
	11			2022	4	7		2022	6	9
	2023	3								

46

E83°00 56.784 N39°58 33.694

2-1



46 1

8670m

2-1

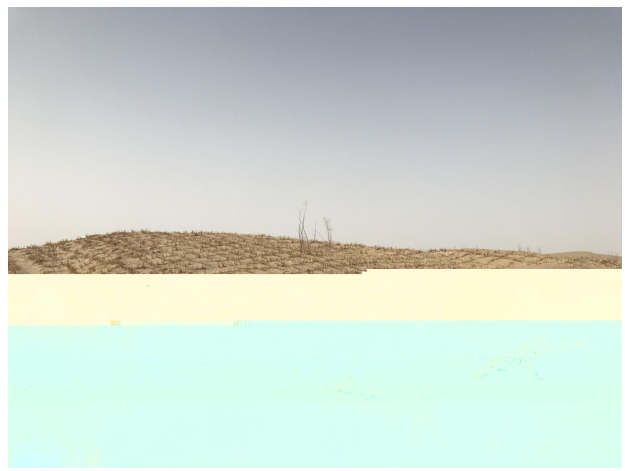
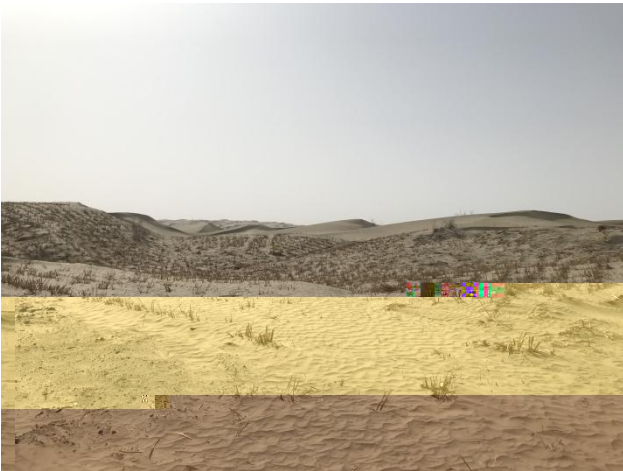
46

		ZJ70 7862m	ZJ70 8670m	808m
		2 400m ³	2 400m ³	
		1	1	
		1 600m ³	600m ³ 1	
		1	1	
		50m ³ 1	50m ³ 1	

			<p>TPZC20210818GF06</p> <p>DB65/T3997-2017</p> <p>2018 20</p>	
--	--	--	---	--

46

2-2





2-3

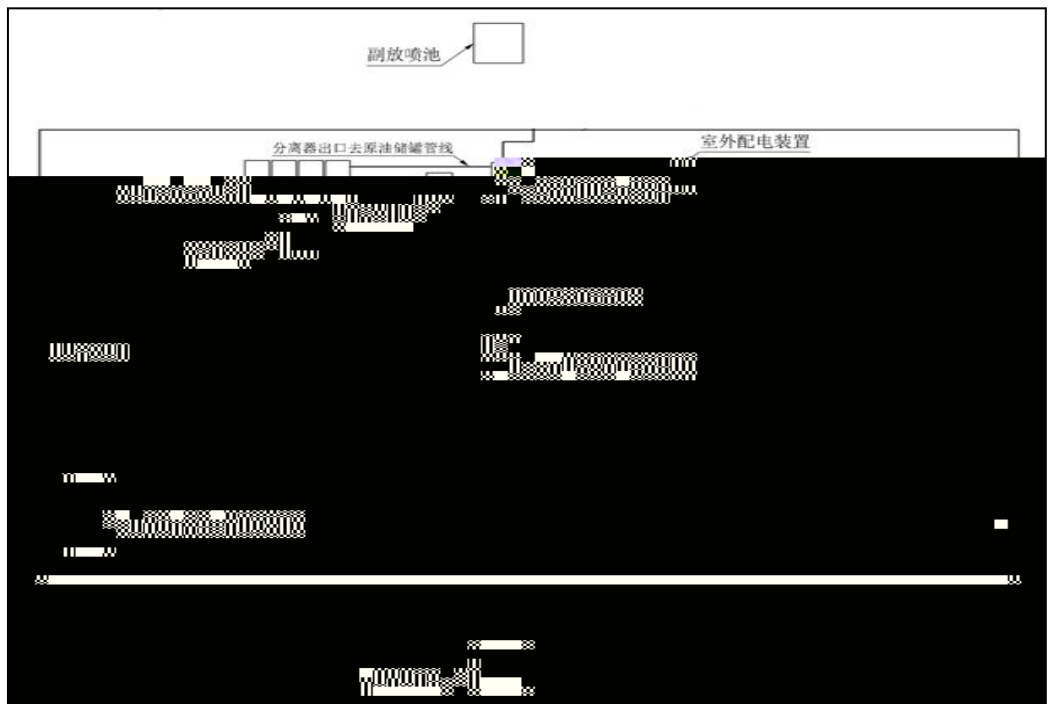
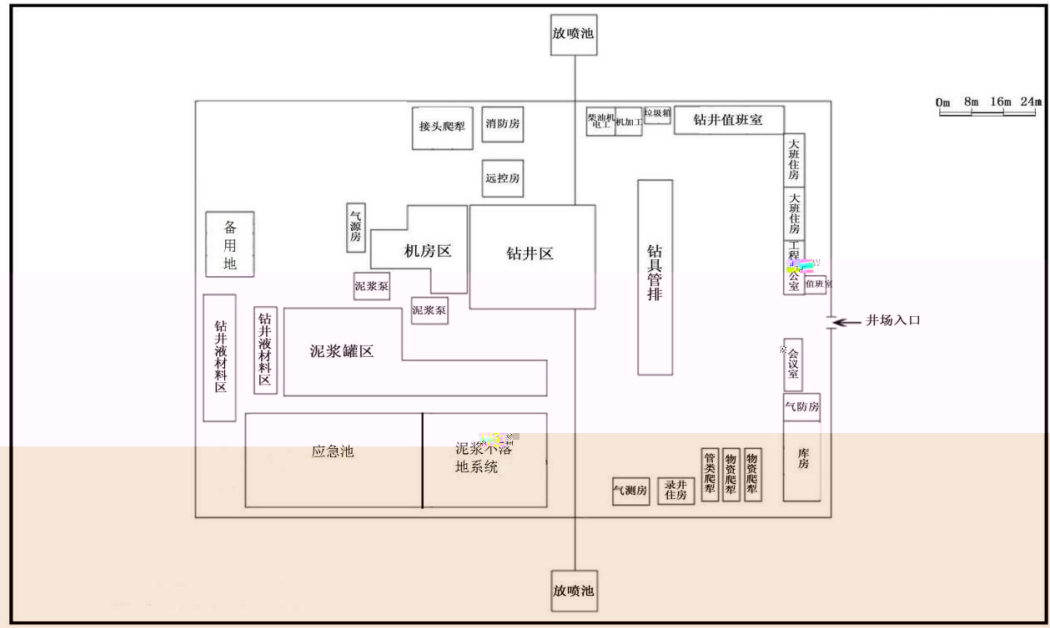
2-4

20800m²

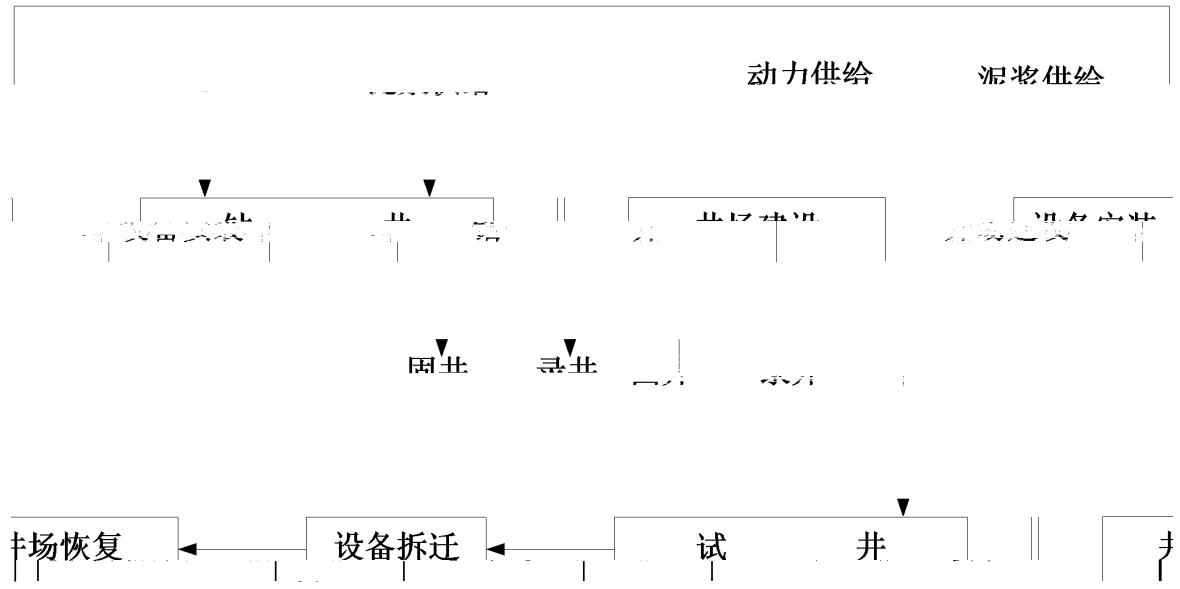
2-2

	120m×110m	13200m ²	120m×110m	13200m ²		
*	/	600m ²	/	600m ²		
	800m×6m	4800m ²	800m×6m	4800m ²		
	60m×40m	2400m ²	60m×40m	2400m ²		
	20m×10m	200m ²	20m×10m	200m ²		
	20m×10m	200m ²	20m×10m	200m ²		
	/	20800m ²	/	20800m ²		/

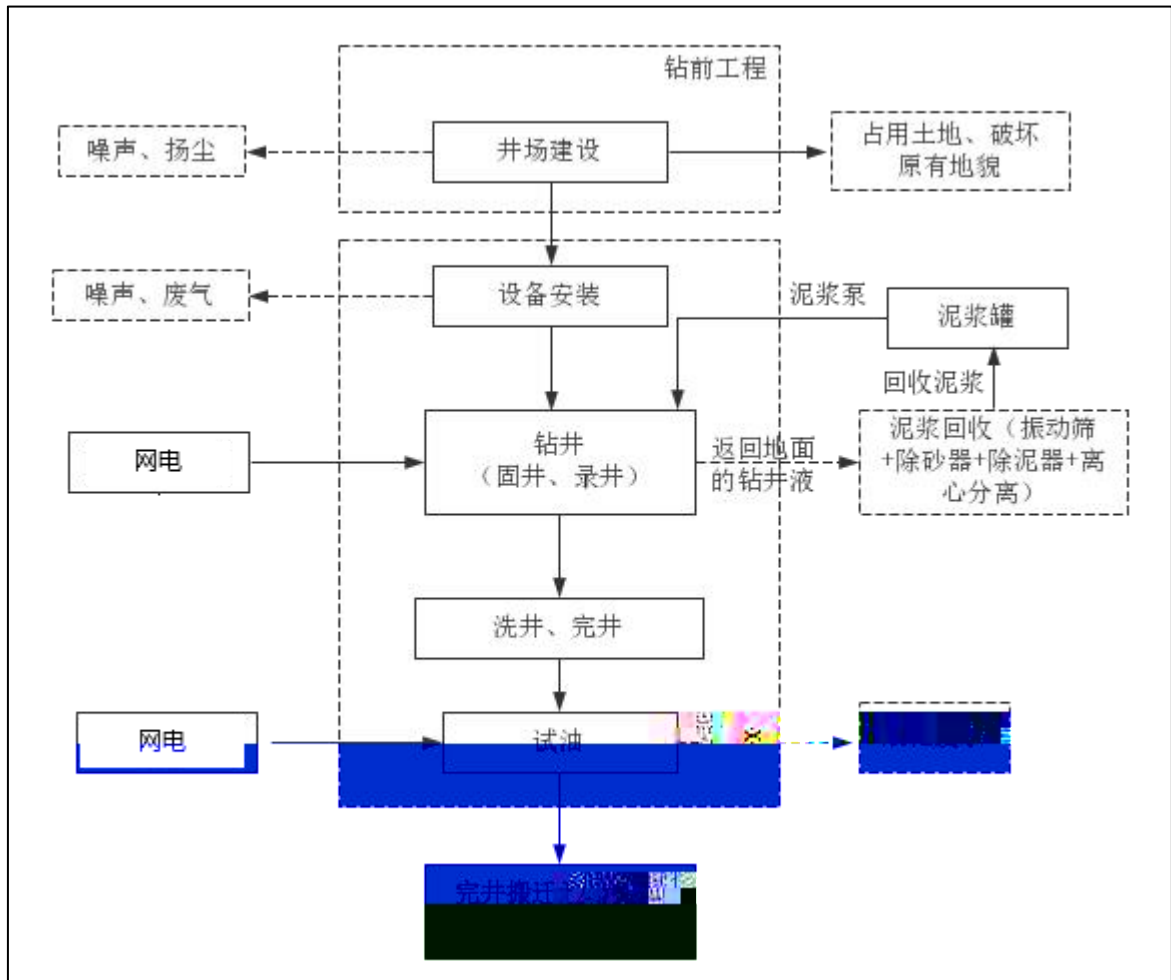
*



2-5



24h



7862m

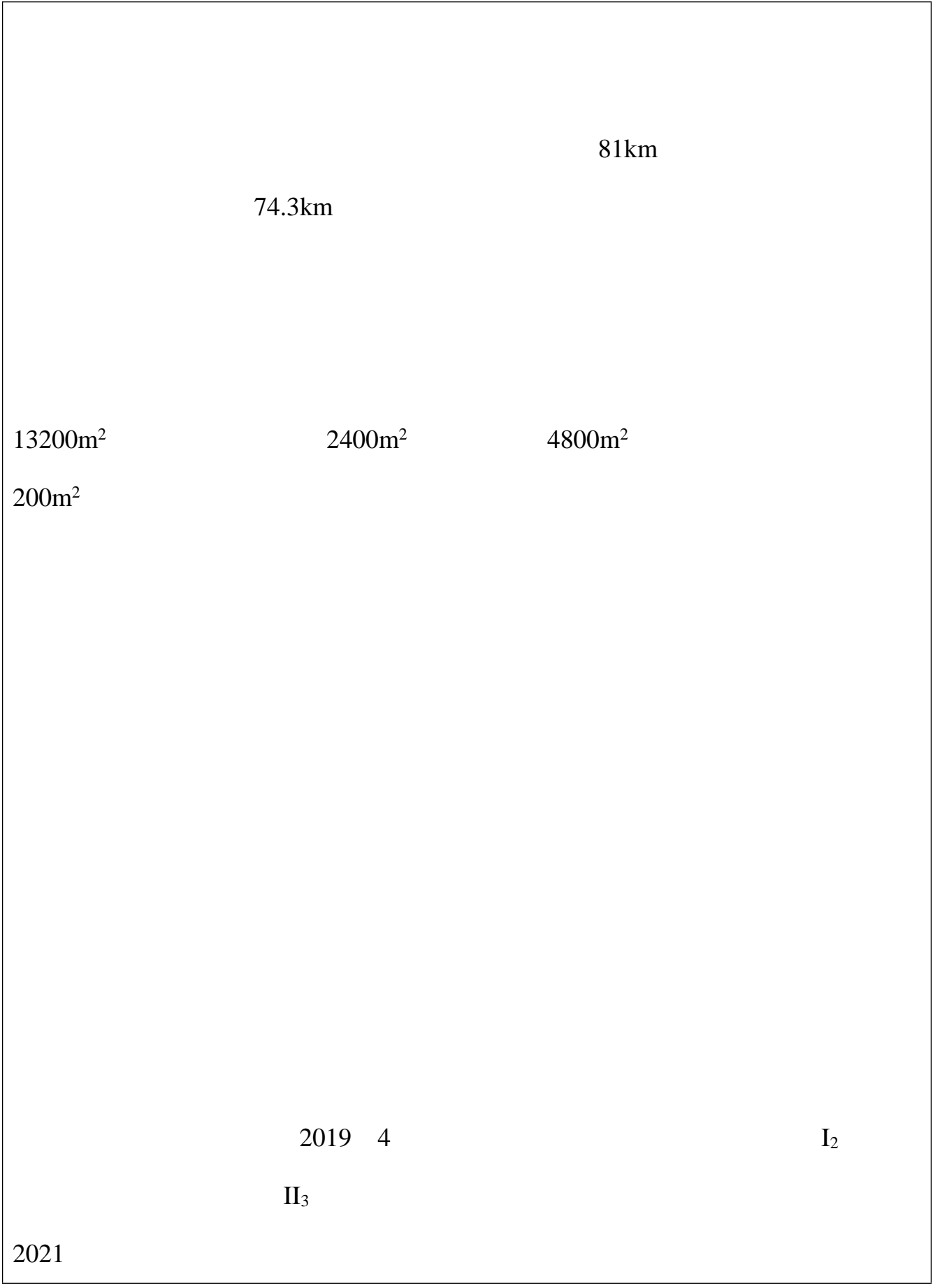
8670m

2-3

	7862m	8670m	808m
--	-------	-------	------

2019 9 10

2019 12 10



1

2

3

1

2

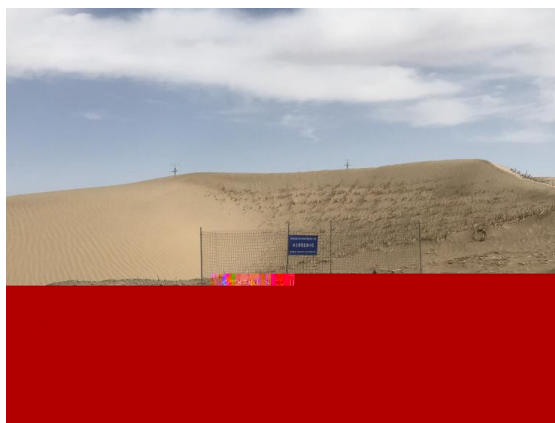
3

1m×1m

8000m²

4600m²

4



1

2

3

4

5

6

2-4



1			
2			
3			

2-5

1

2

3

1185m³

44.1m³

2-6

1185m³

3

2-7

GB12523-2011			

1

2

3

+ + +

3217m³

DB65/T3997-2017

2018 20

1185m³

2-8

	DB65/T3997-2017	TPZC20210818GF06 DB65/T3997-2017 2018 20	

/			
/	/		

+

Mb 6.0m K 1×10^{-14} cm/s

Mb 1.5m K 1×10^{-7} cm/s

652924-2021-087

2-9

			HSE	
		46		
		652924-2021-087		
		/		
	10320		165	1.60%
13014		343		2.64%
		2-10		

1			10	15	
2			5	5	
3			/	2	
4			/	1	
5			70	80	
6			5	5	
7			/	15	
8			/	10	
9		+	25	30	
10		+	20	20	
11			20	50	
12		+	10	10	
13		“ ”	/	100	
			165	343	--

2021 4 20

2021 150

83°00'56.784"

39°58'33.694"

13200m²

600m³ 1

2 200m³

7862m

10320

165

1.6%

GB12523-2011

1			2015.1.1
2			2018.10.26
3			2018.1.1
4			2020.9.1
5			2022.6.5
6			2022.12.30
7			2011.3.1
8			2018.12.29
9		682	2017.10.1
10			2019.1.1

1			
	2017	4	2017.11.22
2			
			2021 70 2021.8.23
3			
	2016.4.8		
4			
	2015	52	2015.6.4

5

2019 910 2019.12.1

6

2019.11.13

pÒ•

1 É

3-1

1

		<p>HSE</p> <p>46</p> <p>652924-2021-087</p>

2023 5 29 ~2023 5 30

46

1

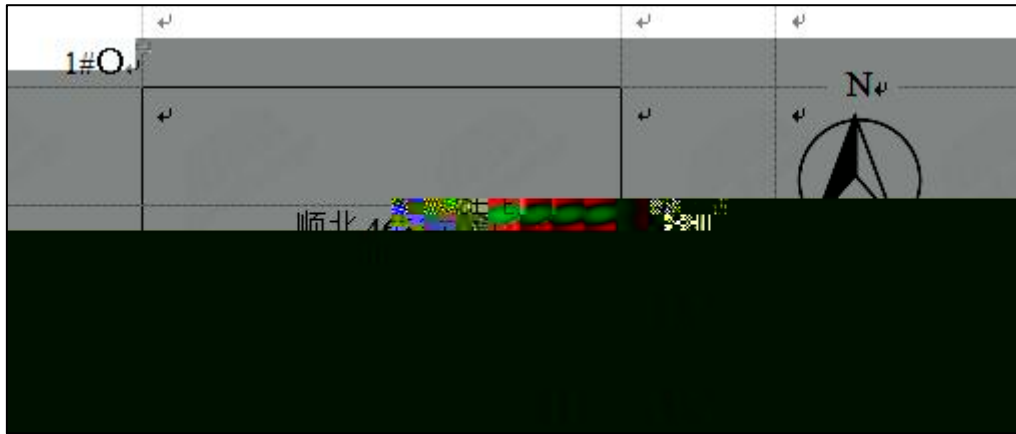
46

1

3

5-1

5-1



	1	3	2023.5.29~2023.5.30	4 / 2

		m/s		kPa	%	
2023/05/29		1.5~1.8	23.0~24.1	91.2~91.4	26.8~27.2	
2023/05/30		1.4~1.8	25.3~26.5	91.0~91.2	26.0~26.5	

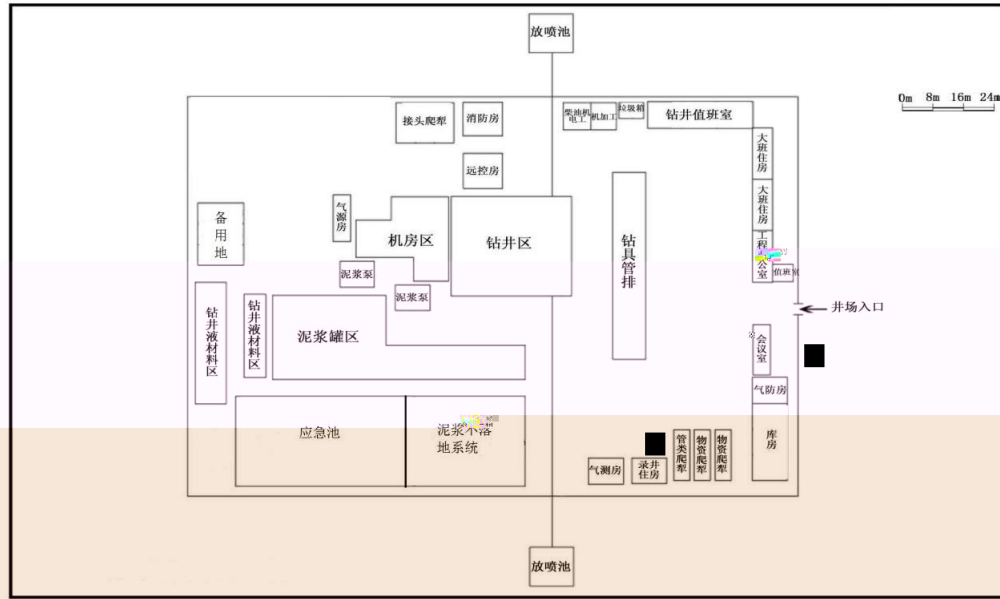
2

5-3

GB39728-

5-4				
46 2023/5/29~2023/5/30	1#	1.18~1.46	4.0	
	2#	1.66~1.78		
	3#	1.40~1.72		
	4#	1.34~1.76		
46				
1.78mg/m ³				
GB39728-2020		GB16297-1996		
1		1		
46		5-5		5-1
		1,1- -1,2- 1,2- 1,1,1,2- 1,1,1- 1,2,3- 1,4- +[a]	1,2- -1,2- 1,1,2,2- 1,1,2- 1,2- 2- [b] [k]	1,1- 1,1,2,2- 1,2- 2023.5.29 1
2				
5-6				
1,1- 1,1,1,2-	1,2- -1,2- 1,1,2,2-	1,1- 1,2- 1,1,1-	-1,2- 1,2- 1,1,1-	GB36600-2018 1

1,1,2- 1,2- + [a]	1,4- [a]	1,2,3- [b]	2- [k]	
	[a,h]	[1,2,5-cd]		GB36600-2018 2



3

5-7

		mg/kg		mg/kg	
		46	46		
1		<6	<6	4500	
2		4.41	4.71	60	
3		0.001	0.003	38	
4		11.3	9.0	18000	
5		13	11	800	
6		<0.07	<0.07	65	
7		17	13	900	
8		2.8	1.6	5.7	
9		<0.0019	<0.0019	4	
10		<0.0013	<0.0013	1200	
11		<0.001	<0.001	0.43	

12	1,1-	<0.001	<0.001	66	
13		<0.0015	<0.0015	616	
14	-1,2-	<0.0014	<0.0014	54	
15	1,1-	<0.0012	<0.0012	9	
16	-1,2-	<0.0013	<0.0013	596	
17		<0.0011	<0.0011	0.9	
18	1,1,1-	<0.0013	<0.0013	840	
19		<0.0013	<0.0013	2.8	
20	1,2-	<0.0013	<0.0013	5	
21		<0.0012	<0.0012	2.8	
22		<0.001	<0.001	37	
23	1,1,2-	<0.0012	<0.0012	2.8	
24		<0.0014	<0.0014	53	
25		<0.0012	<0.0012	270	
26	1,1,1,2-	<0.0012	<0.0012	10	
27		<0.0012	<0.0012	28	
28	+	<0.0012	<0.0012	570	
29		<0.0012	<0.0012	640	
30		<0.0011	<0.0011	1290	
31	1,1,2,2-	<0.0012	<0.0012	6.8	
32	1,2,3-	<0.0012	<0.0012	0.5	
33	1,4-	<0.0015	<0.0015	20	
34	1,2-	<0.0015	<0.0015	560	
35		<0.09	<0.09	70	
36	1,2-	<0.0011	<0.0011	5	
37		<0.09	<0.09	76	
38		<0.1	<0.1	260	
39	2-	<0.06	<0.06	2256	
40	a	<0.1	<0.1	15	
41	a	<0.1	<0.1	1.5	
42	b	<0.2	<0.2	15	
43	k	<0.1	<0.1	151	
44		<0.1	<0.1	1293	
45	(a,h)	<0.1	<0.1	1.5	
46	1,2,3,-cd	<0.1	<0.1	15	

GB36600-2018

46

5-8

5-8

46

DB65/T3997-2017

		mg/kg									
		46 2021818G F06-01-01 2021/8/18	46 2021818G F06-02-01 2021/8/18	46 20210901 GF09-01-01 2021/9/1	46 20210901 GF09-02-01 2021/9/1	46 20210915 GF01-01-01 2021/9/15	46 20210915 GF01-02-01 2021/9/15	46 20211015 GF01-01-01 2021/10/15	46 20211015 GF01-02-01 2021/10/15		
1	pH	9.51	9.42	10.2	10.3	9.58	9.42	10.2	10.3	2.0~12.5	
2		7.70	7.48	6.38	5.80	11.2	10.9	7.19	7.53	13	
3		16.4	14.9	17.8	19.1	56.3	62.7	14.0	14.2	600	
4		28.3	23.8	208	226	159	148	64.8	68.9	1500	
5		0.4L	0.4L	0.4L	0.4L	22.6	18.7	7.5	3.0	150	
6		23.1	22.3	10.9	12.4	11.8	9.4	21.3	20.7	600	
7		8.6	8.0	0.1L	0.1L	3.1	2.6	0.1L	0.1L	20	
8		54.6	37.3	2.45	5.83	13.0	9.97	21.8	22.5	80	
9		0.2L	0.2L	0.2L	0.2L	0.2L	0.2L	0.2L	0.2L	0.7	
10	COD mg/L	15L	15L	22.0	27.0	44.0	37.0	66.0	69.0	150	
11	%	8.00×10^{-4}	8.00×10^{-4}	5.60×10^{-3}	5.50×10^{-3}	9.60×10^{-3}	9.50×10^{-3}	3.25×10^{-2}	3.16×10^{-2}	2	
12	%	13.5	16.1	17.5	17.0	4.8	5.1	28.5	28.0	60	

L

		mg/kg						
		46 20211030GF02-01-0 1 2021/10/30	46 20211030GF02-02-0 1 2021/10/30	46 2021/12/10	46 2022/1/15	46 2022/2/10		
1	pH	11.7	11.6	12.2	12.1	11.9	2.0~12.5	
2		6.94	6.64	4.23	3.21	7.36	13	
3		17.9	15.1	20.8	22.9	8.4	600	
4		197	155	88.7	275	26.8	1500	

5		11.3	9.7	13.7	6.5	6.8	150	
6		1.4L	1.4L	1.4L	1.4L	1.4L	600	
7		0.1	0.1L	0.1L	0.1L	0.1L	20	
8		18.7	20.6	8.56	4.10	8.35	80	
9		0.2L	0.2L	0.2L	0.2L	0.2L	0.7	
10	COD mg/L	74.0	75.0	40.4	83.7	29.0	150	
11	%	1.90×10^{-2}	1.85×10^{-2}	8.02×10^{-2}	0.432	3.00×10^{-2}	2	
12	%	29.2	29.4	42.5	41.2	45.0	60	

L

3

HSE

HSE

HSE

HSE

46

652924-2021-087

47

83°00 56.784

39°58 33.694

600m³ 1

2

200m³

8670m

20800m²

1

		46						/						
		M7471						/		E83°00 56.784		N39°58 33.694		
		/						/						
								2021 150						
		2021 8 10						2022 3 11				/		
		2022 4 7						2022 6 9				/		
												/		
												/		
		10320						165		%		1.60		
		13014						343		%		2.64		
		20		2		1		110			80		160	
		/						/				/		
								91650000742248144Q				2023 3 ~2023 9		
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	“ ”	(8)	(9)	(10)	(11)	(12)
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	1.78mg/m ³	4.0mg/m ³	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/	/