
	2111-320161-89-01-695834		
			17849986616
	<u>118</u>	<u>44</u>	<u>21.347</u> <u>32</u> <u>9</u> <u>43.782</u>
	Q8421		84—108 842— 20
	☐ ☐ ☐		☐ ☐ ☐
/		/	2021 3
	30000		60
%	0.2		24
	<u> </u>	m ²	12999
	NJJBc020 2015		
	NJJBc020 2015 (2016 41)		
	Q8421		
	320111202100165 Aa		
	NJJBc020		
	Rc		

2019

2021

2018 32

“ ”

“ ”

2020 49 1

“

”

“ ”

2020

49

“ ”

“ ”

	5	
	2021	97.3%
	93.8%	
		2022
1	2019	2021
2		
3		2012 2012
4	2013	
	2013	
5		2022
6		2022
7		2022
8		2015
	251	
“ ”		

	4.3.2		
	4		
	5.4.2		
	5.4.4		
	5.4.5		
	5.7		
	≥1h	≥1h	
	2-8mg/L	2-8mg/L	
	GB18486-2005		

2

3

4 CT B

		m ²	4531	/
		m ²	12477	/
		m ²	8833	
		m ²	3644	
		m ²	8833	/
		m ²	1584.97	/
		/	1.95	/
		%	34.98	/
		m ²	1659.13	/
		%	36.62	/
			63	/
			7	/
			56	/
			223	/

2-2

	CT B

1

2

“ ”

GB18466-2005 2

(GB/T 31962-2015) 1 B

GB18918-2002 A

3

10 /

4

5

1.46×10⁴m³/a

14919t/a

11756t/a

1

10 /

1.46×10⁴m³/a

/

“A/O+ + ”

+1 15m

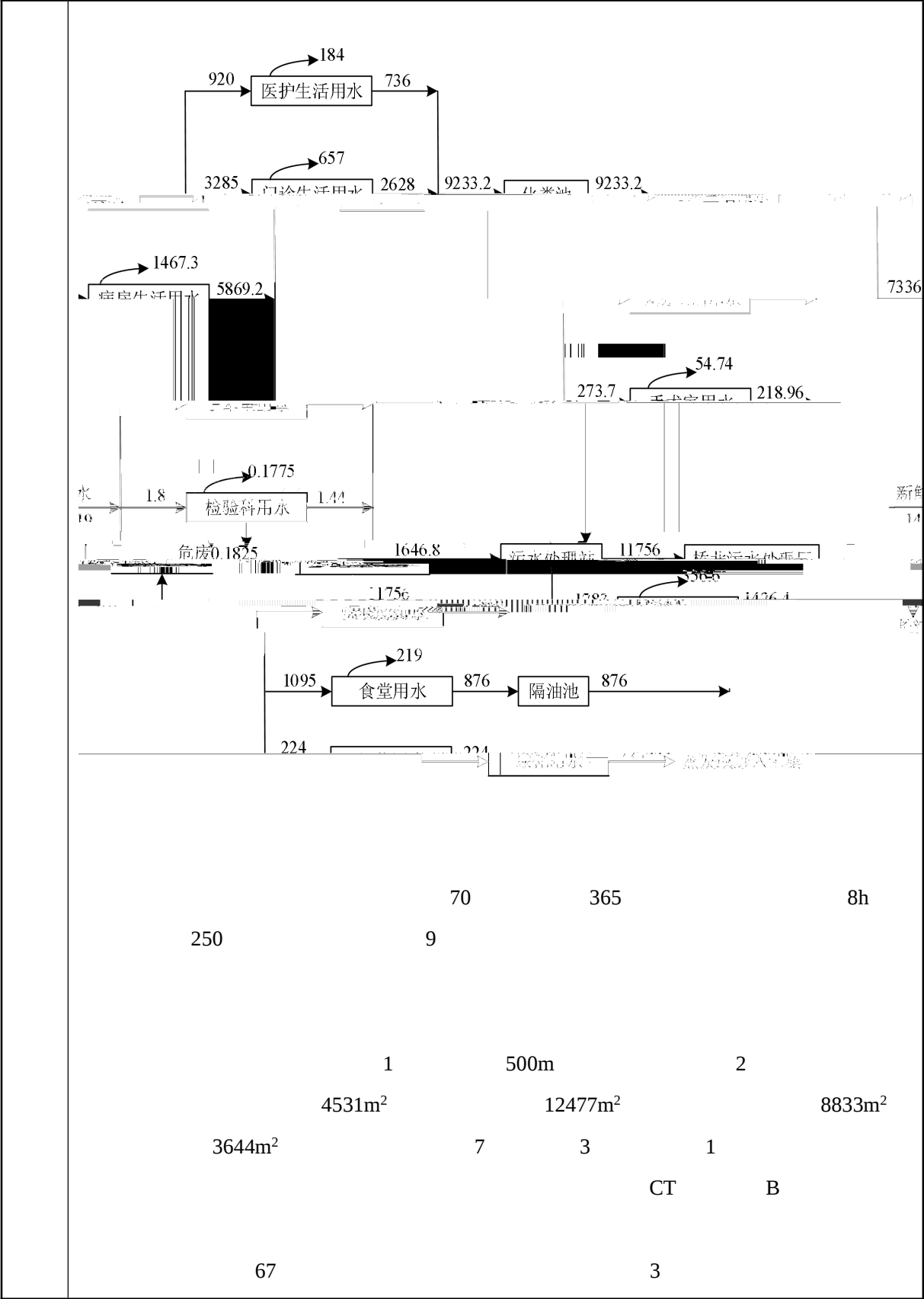
2

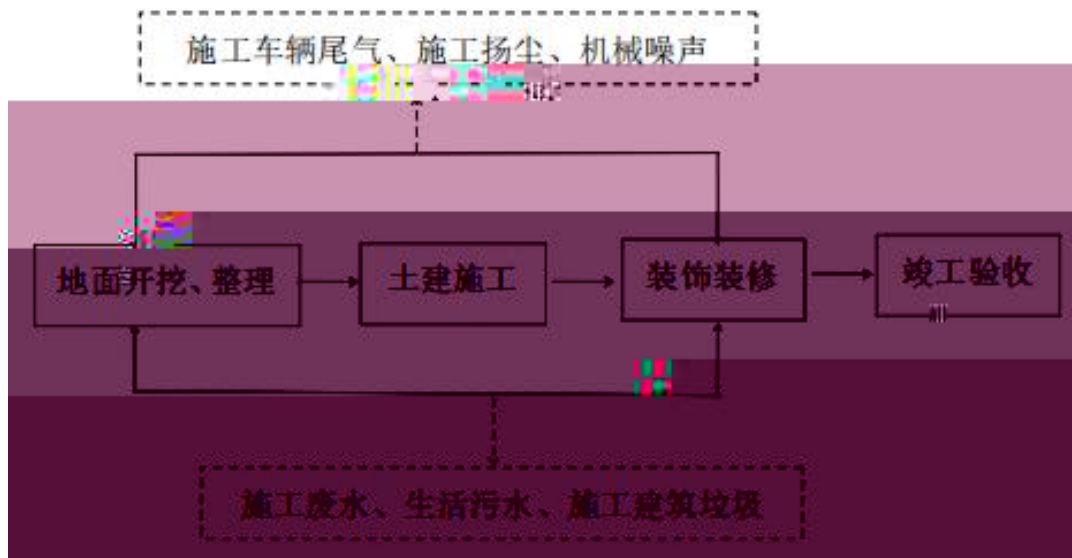
20m²

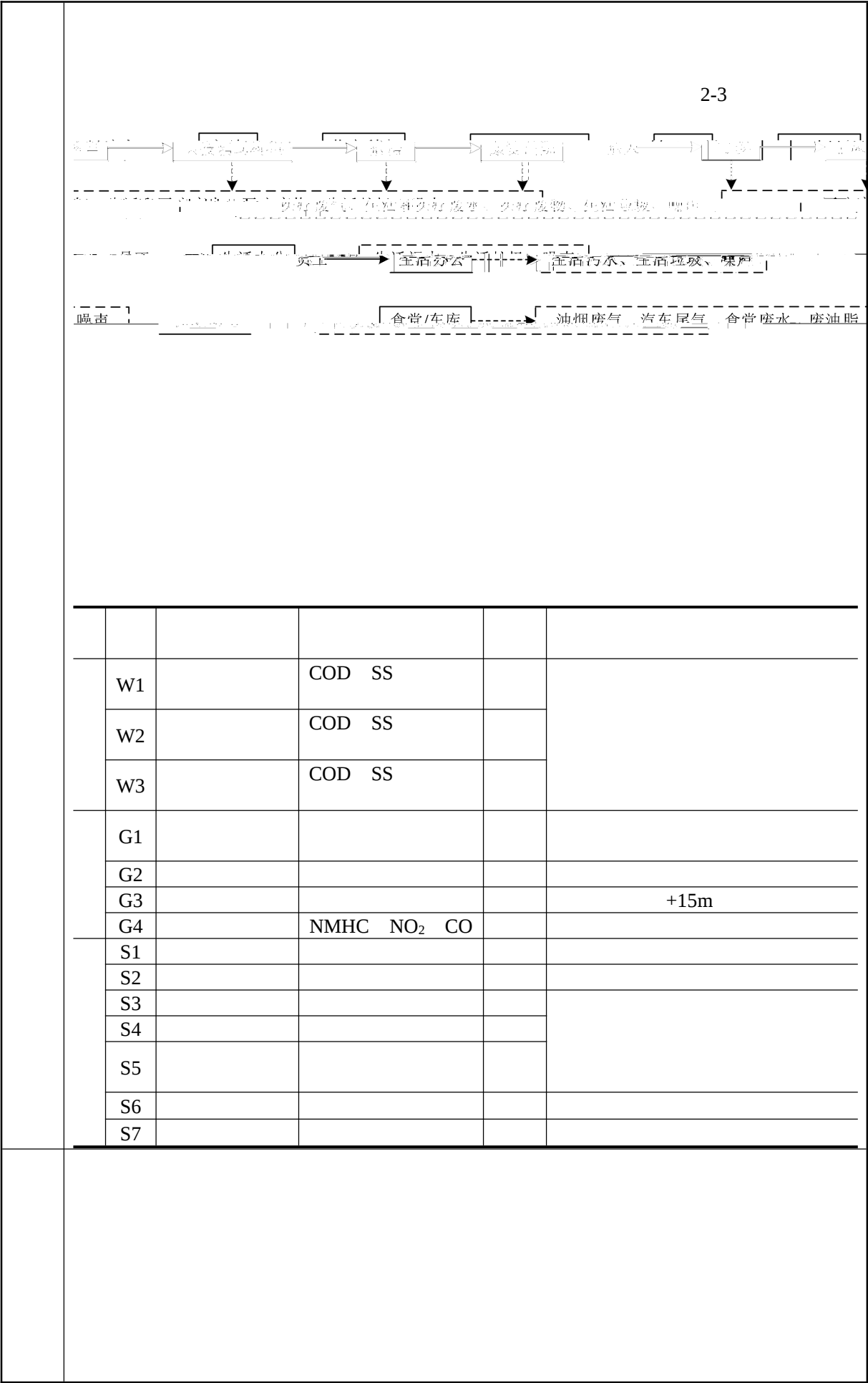
2-4

1		/	1	
2		/	1	
3		/	1	
4	24	/	1	
5		/	1	
6		/	1	
7		/	1	
8		/	1	
9	B	/	2	
10		/	1	
11		/	2	
12		/	2	
13	X DR	/	1	
14	X CT	/	1	
15		/	1	
16		/	1	
17		/	1	
18		/	1	
19		/	1	
20		/	3	
21		/	1	
22		/	2	
23		/	2	
24		/	1	
25		/	1	
26		/	1	
27		/	2	
28		/	2	
29		/	1	
30		/	1	
31		/	1	
32		/	1	
33		/	2	
34		/	1	

2-5						
1	75%	720		60mL		24000mL
2	84	600		518g		51800g
3		840		100mL		40L
4		11200		7.5#		2000
5		15200		20		6000
6		1000		12*100		1000
7		50		100mL		20
8		2400		0.2g*20		600
9		10		500mL		10
10		2200		0.6#		500
11		2200		B		500
12		520				200
13		4000		15cm		1000
14		25000		7		5000
15		15650		2mL		2000
16		24000		20mL		5000
17		300		10mL		150
18		22000		100 /		200
19		50		50mL		10
20	M_5D	35		20L		5
21		3		4000mL		1
22	M_53LEOII	3		800mL		1
23	M_53LH	3		2000mL		1
24	c	5000		25 /		100
2-6						
1		-114.1 1 = 0.79 12 363				
2-1						







2021				300			
4		82.2%		0.9			
91	6				65		61
4	O ₃		PM _{2.5}	PM _{2.5}		29 μ g/m ³	
6.5%		PM ₁₀	56 μ g/m ³		NO ₂	33 μ g/m ³	
8.3%		SO ₂	6 μ g/m ³		14.3%	CO	
95	1.0mg/m ³		9.1%		O ₃	8	52
14.2%							

8 人

C H

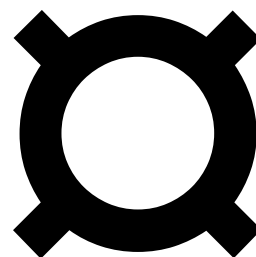
3

30⁽⁹⁹

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6



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500

3-2

GB14554-93 1 2

GB18466-2005 3

		15	4.9		1.5	GB14554-93
			0.33		0.06	
			2000		20	
					1.0	GB18466-2005
					0.03	
					10	

DB32/4041-2021 3

VOCs

DB32/4041-2021 2

GB18466-2005 2

GB18918-2002 A

1 pH .

	≤40		≤45	
	≤40		≤45	
	/		≤50	
	/		≤40	
	≤50		≤55	
	30dB			

1

380

36

2003 206

2

GB18599-2020

2021

GB18597-2001

HJ2025-2012

	NH ₃	0.007	0.0063	0.0007	8760
	H ₂ S	0.0003	0.00027	0.00003	

5km/h

NMHC NO₂ CO

4.1-3

		NMHC	NO ₂
	191	24.1	22.25

b

5km/h

1138m

2.5min

5min

c

1.6

90 /d

d

1187.94m²

3.5m

6 /h

63714m³/h

e

0.2L/km

5km/h

2.78×10⁻⁴L/s

g=fmt

f

g/L

m

L/s

t

s

0.083L

CO NMHC NO₂ 15.92g 2.00g 1.48g

4.1-4

IJ

MM

$$\text{NH}_3$$

1000

0.72

0.0007

0.0063

80

0.144

0.00014

0.0013

15

0.3

25

DA001

0

10 años

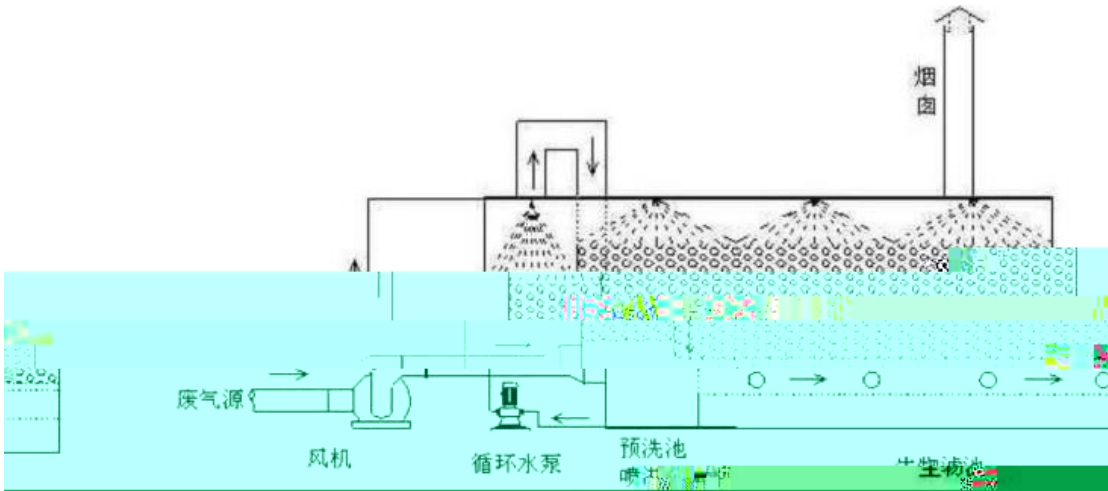
...

50%

DA001		NH ₃	0.36	0.00035	0.5	1	
		H ₂ S	0.015	0.000015	0.5	1	

\ Đ ư ợ c ử ư ợ c



	0~40 5 20~35 				
	90% HJ1105—2020 90% 90% 2000m³/h				
1	/	/	/	/	/
	/				/

1	DA001	NH ₃	0.144	0.00014	0.0013
		H ₂ S	0.006	0.000006	0.00005
		NH ₃			0.0013
		H ₂ S			0.00005
		NH ₃			0.0013
		H ₂ S			0.00005

75%

GB18483-2001

2.0mg/m³

DB32/4041-2021

GB14554-93

GB18466-2005 3

HJ819-2017

HJ1105-2020

	DA001		1 /	GB14554-93
			1 /	GB18466-2005 3
			1 /	DB32/4041-2021
			1 /	

m

		15 L/ ·		200		1095t/a
	0.8			876t/a		
		36L/ ·		250		
3285t/a	0.8			2628t/a		
		67		300L/ ·d		
	7336.5t/a		0.8		5869t/a	
	3			250L/ ·d		
273.7t/a	0.8			219t/a		
				0.005t/d		1.8t/a
			0.1			0.8
	1.5t/a					
				0.02m ³ /	0.023m ³ /	0.012m ³ /
	67			1345t/a		
30kg	40L/kg			438t/a		1783t/a
0.8				1426t/a		
		1659.13m ²				2012
	1 4	0.6L/m ² ·	2 3	2L/m ² ·		2
104		224t/a				
		14919t/a		11756t/a		
	4.2-1					
				t/a		t/a
1		36L/ ·	70	920	0.8	736
2		15 L/ ·	200	1095	0.8	876
3		36L/ ·	250	3285	0.8	2628

4		300L/ ·d	67	7336.5	0.8	5869.2
5		250L/ ·d	3	273.7	0.8	218.96
6		0.005t/d	365d	1.8	0.8	1.44
7		0.055m ³ /	67	1345	0.8	1076
		40L/kg	30kg	438	0.8	350.4
8		0.6L/m ² ·	1659.13m ²	224	0	0
		2 L/m ² ·	1659.13m ²			
9		/	/	14919	/	11756

GB18466-2005 2

(GB/T

31962-2015) 1 B

GB18918-2002 A

‖OD Σ00 B693

9233.
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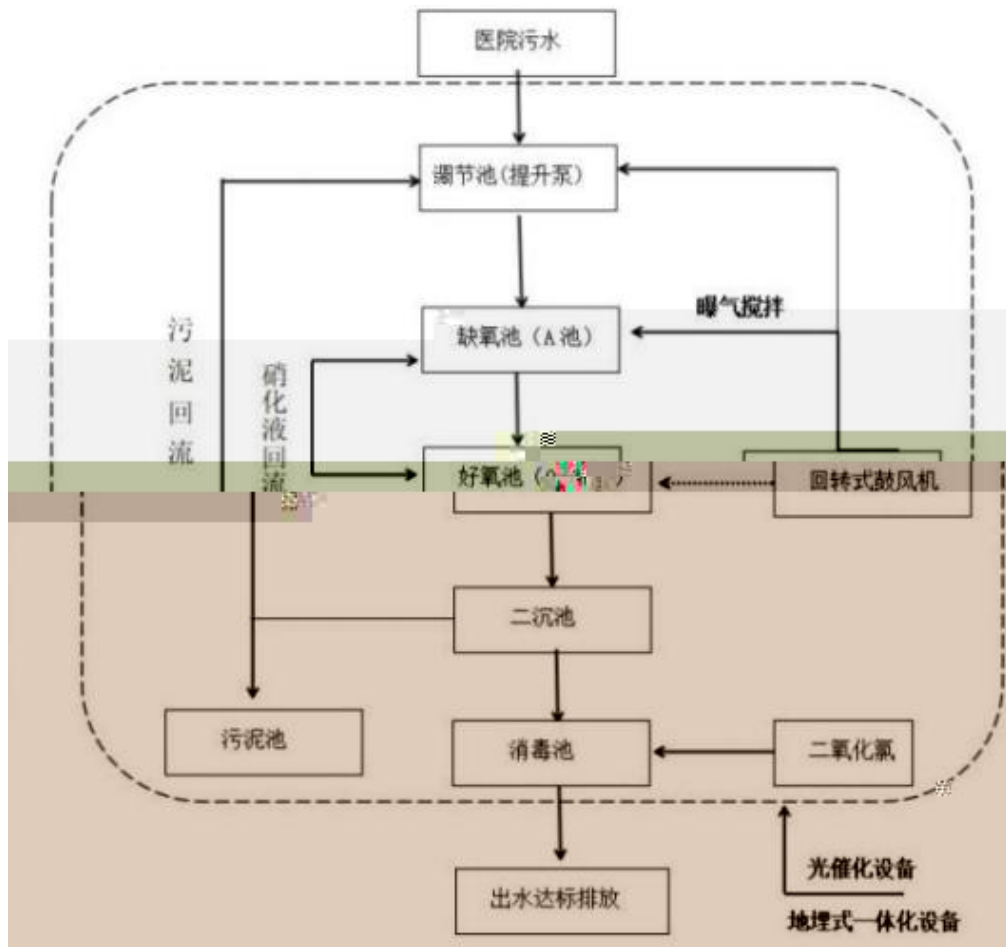
“

”

GB18466-2005 2

GB18918-2002 1 A

“ + +A/O+ + ”



b

c

66.7

d

NO²⁻ NO³⁻ N₂

a

b

c

A B

mg/L	400	300	45	1.6×10 ⁸ MPN/L
mg/L	350	240	40	/
%	12.5	20	10	/
mg/L	350	240	40	/
mg/L	180	50	22	/
%	48.6	80	45	/
mg/L	/	/	/	

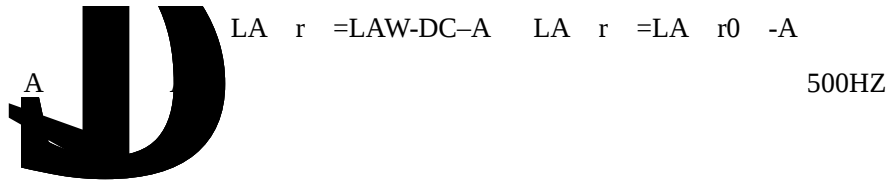
	%	/	/	/	99.99%
	%	55	85	50	
	mg/L	250	60	45	5000MPN/L

63Hz 8KHz 8

Lp_r

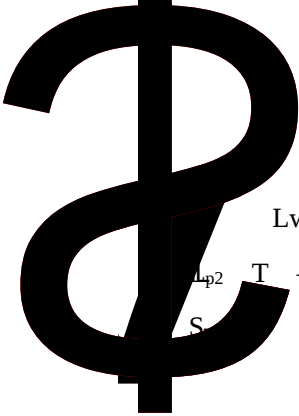
$$Lp_r = Lw + Dc - A$$

$$A = A_{div} + A_{at}$$



Lp1 Lp2

LP2pp



L_w —
 L_{p2} —
 S — m^2



A

$$L_A(r) = L_A(r_0) - A_{div}$$

$L_A(r)$ —

r — A — dB — A

$L_A(r_0)$ —

r_0 — A — dB — A — A

A_{div} —

dB

$$A_{div} = 20 \lg(r/r_0)$$

A_{div} —

dB

r_0 —

m

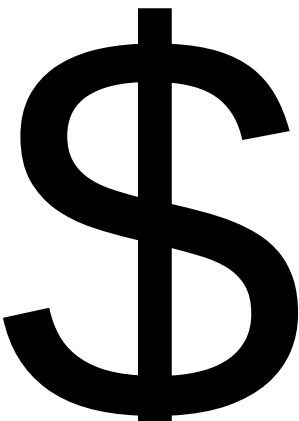
r —

m

C

V

V



61.7125t/a

1					74.46	√	/	GB34330-2017
2					36.5	√	/	
3					1.0	√	/	
4					61.7125	√	/	
5					0.5	√	/	
6					30.96	√	/	
7					15.16	√	/	

	HW01	831-001-01 831-002-01 831-003-01 831-004-01 831-005-01	61.7125				30d	T,In	
	HW01	831-001-01	0.5				30d	In	
	HW01	831-001-01	30.96				30d	In	
	HW01	831-001-01	15.16				30d	In	

1

2

GB18597-2001

2019 327

2019.9.24

20m ²										29.5t																													
1		61.712 5	HW01	831-001-01 831-002-01 831-003-01 831-004-01 831-005-01		0.6	30d		20m ²																														
2		0.5	HW01	831-001-01		0.3	30d																																
3		30.96	HW01	831-001-01		3	30d																																
4		15.16	HW01	831-001-01		2	30d																																
3																																							
HW01				HW01				HW01																															
HW01																																							
1		8	025-8655 3600	JSNJJBX Q0116CSI 0061		HW01 :18000 /	2019-01	2023-12																															
4																																							
										(HJ 2025-2012)										B																			
																														5									

HJ 964-2018 A.1

HJ610-2016

A

161

1

2

3

4

5

1

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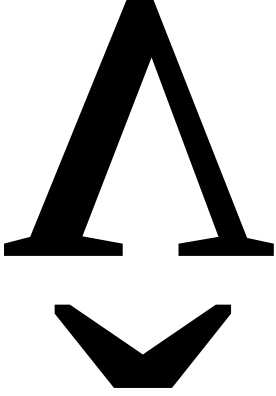
, 30 3

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10%

20

:

119 120

500m



