

1807



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1

	1038				
	0571- 87761630				311200
				E4813	
	/			/	
	400000		169		0.042%
1.1					
1.1.1					
	125	m3/d			32
m3/d	157	m3/d			
	"	"			

1.1.2

2014

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1

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216.3

m3

2020

2

3

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44

" " " "

1.2

1.2.1

- (1) (2015. 1. 1)
- (2) (2018. 1. 1)
- (3) (2016. 1. 1)
- (4) (1997. 3. 1)
- (5) (2016. 11. 7)
- (6) (2016. 9. 1)
- (7) 2017. 7. 16
- (8) (2018. 4. 28)

(9) (2010);

(10) 2011. 1. 8

(11) (2006. 12. 1)

(12) 1999 257

1.2.2

(1) 2016. 7. 1

(2) (2013. 12. 19)

(3) (2018. 3. 1)

(4) 2013. 12. 19

(5)

(6)

(7) 2010. 11. 25

(8) (2010 4 1)

(9) 2003. 8. 1

(10) (2016. 4. 19)

(11) 2014. 4. 1

(12) 2012. 5. 18

(13) 2017. 8. 4

1.2.3

(1) (HJ2. 1-2016)

(2) (HJ2. 2-2008)

(3) (HJ/T2. 3-93)

(4) — (HJ610-2016)

(5) (HJ2. 4-2009)

(6) (HJ19-2011)

1.2.4

(1)

(2)

(3) — —

(4)

(5)

(6)

1.3

1.3.1

320

26.2

1.3.2

1

200

m3/d

160

m3/d

40

m3/d

2040

70%

2

37.0m

40.0m

71.0m

70.0m

70.0m

71.0m

71.0m

-0.5m

71.5m

52m

3

52m

60m

70m

1.3.4.1

0.462km

4.510km

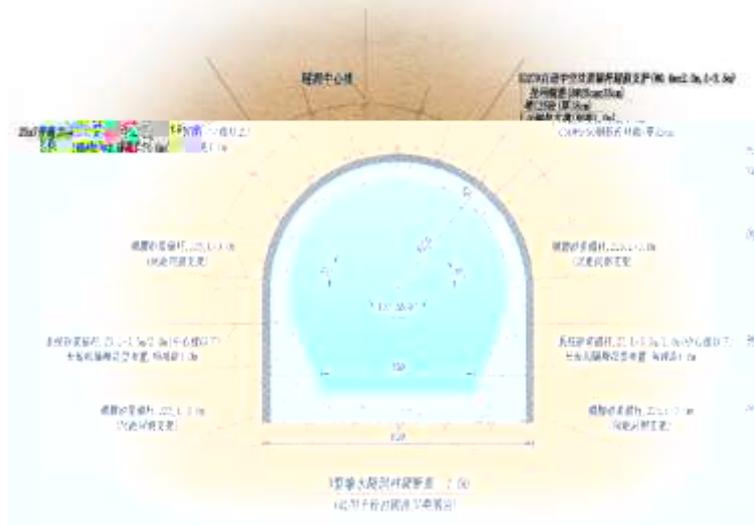
8.054km

1

	6.2m	6.2m	5.0m	25
L=3.5m	C25	15cm	C30W6F50	
	1.2m		0.45m	
	3.5m			1-1

1-1 III

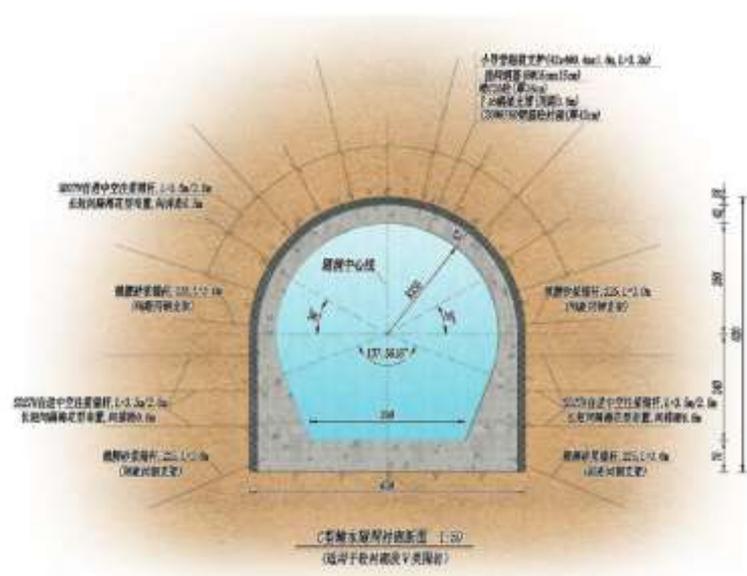
	6.2m	6.2m	5.0m	
1m	25		L=3.5m/2.0m	25
	L=3.5m/2.0m	C25	18cm	C30W6F50



1-2 IV

6.2m 6.2m 5.0m

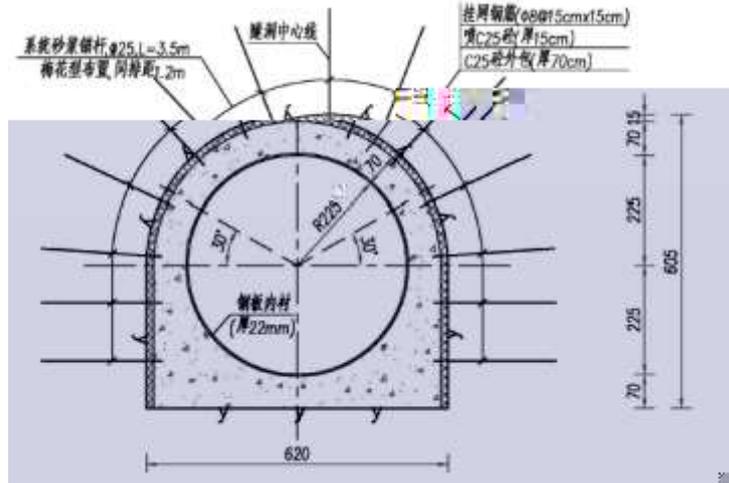
0.8m SD27N L=3.5m/2.0m C25
 18cm C30W6F50 0.8m
 0.42m 3.5m
 42×4 3.2m 0.4m 1.6m
 1-3



1-3 V

6.2m 6.2m 4.5m 25

L=4.0m C25 15cm C25 0.70m
 22mm 1.5m
 1-4



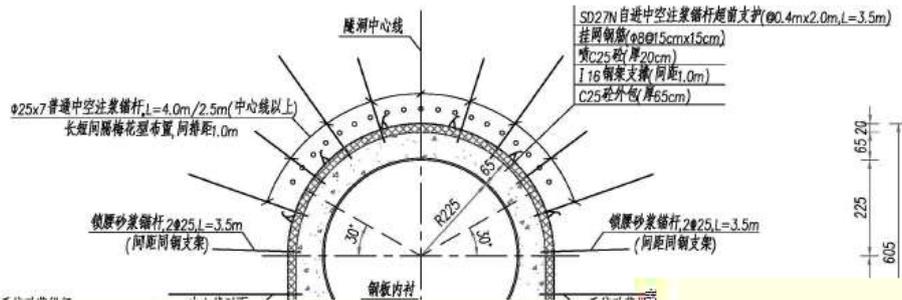
1-4 III

6.2m 6.2m 4.5m

1m 25 L=4.5m/3.0m 25
 L=4.5m/3.0m C25 20cm C25
 0.65m 22mm 1.0m

SD27N

3.5m 0.4m 2.0m 1-5



1-5 IV

6.2m 6.2m 4.5m

0.8m SD27N L=4.5m/3.0m C25
 20cm C25 0.65m 22mm

0.8m

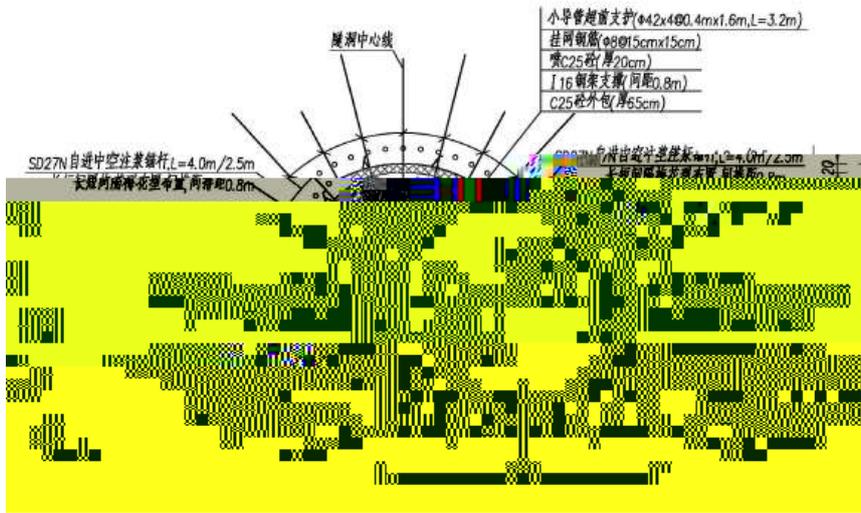
42x 4

3.2m

0.4m

1.6m

1-6



1-6 V

3

6.0m

5.0m

C50

6

35cm

5.7m

90°

M15

270°

C15

k

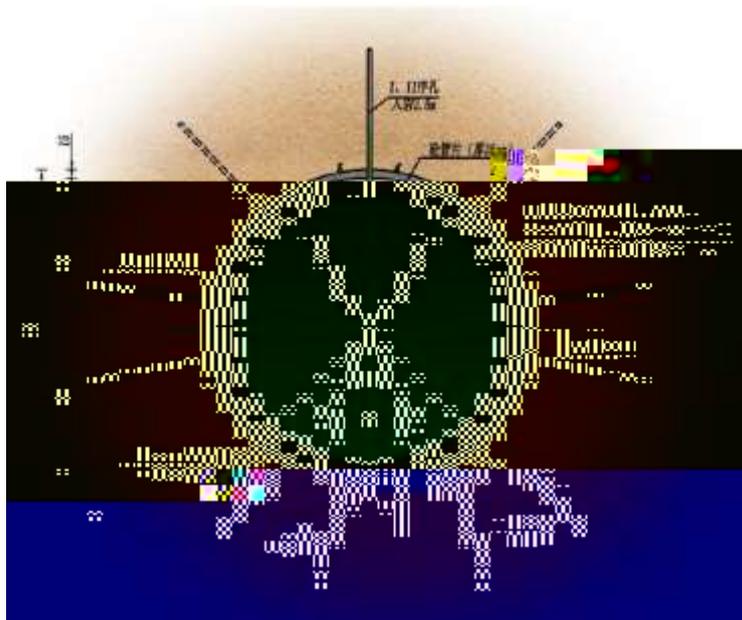
10-6 cm/s

3.5m

1.5m

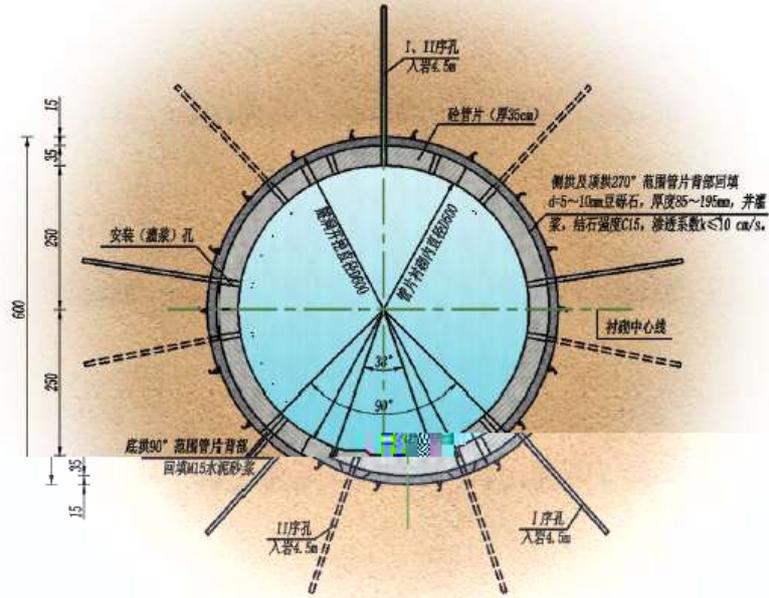
5/6

1-7



1-7 III

	6.0m	5.0m	C50	6	35cm
5.7m		90°	M15		270°
			C15	k	10-6 cm/s
				4.5m	1.5m
5/6		1-8			



1-8 IV

1.3.4.2

DN3800 38mm
DN3800 38mm

0.94km

5.48km

1.3.4.3

	6.2m	6.2m	5.5m	350mm
3.8m		1-9		

22

6

1-2

9

14

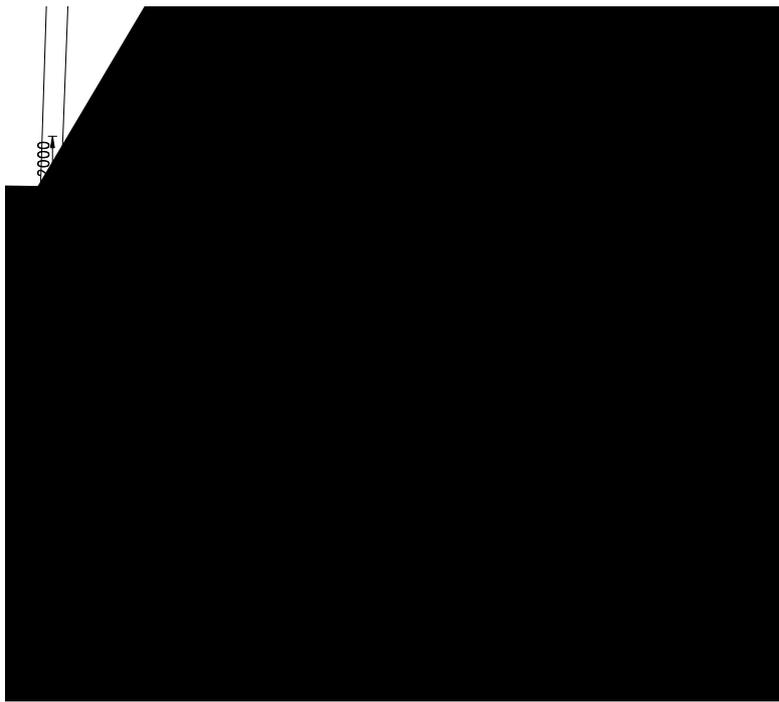
4

1-2

1-10

1-2

				hm ²		
1		119° 57' 37.84"	30° 11' 17.02"	0.40	0.50	150
2		120° 1' 25.80"	30° 8' 44.07"	0.10	0.20	150
3		120° 1' 36.91"	30° 8' 36.50"	0.20	0.20	150
4		120° 2' 44.04"	30° 8' 17.88"	0.40	0.50	150
5		120° 3' 33.99"	30° 7' 55.84"	0.40	0.50	150
6	/DG01	120° 3' 36.08"	30° 7' 25.98"	0.30	0.30	150
7	DG02	120° 3' 45.68"	30° 6' 57.02"	0.20	/	20
8	DG03	120° 4' 5.99"	30° 6' 55.36"	0.15	/	20
9	DG04	120° 4' 24.51"	30° 6' 53.75"	0.20	/	20
10	DG05	120° 4' 39.34"	30° 6' 52.46"	0.30	/	20
11	DG06	120° 4' 44.34"	30° 6' 52.10"	0.15	/	20
12	DG07	120° 5' 6.56"	30° 6' 50.19"	0.15	/	20
13	DG08	120° 5' 28.91"	30° 6' 48.30"	0.20	/	20
14	DG09	120° 5' 50.56"	30° 6' 46.44"	0.20	/	20
15	DG010	120° 6' 8.81"	30° 6' 44.79"	0.15	/	20
16	DG011	120° 6' 25.18"	30° 6' 43.42"	0.20	/	20
17	DG012	120° 6' 44.15"	30° 6' 41.88"	0.30	/	20
18	DG013	120° 7' 2.94"	30° 6' 40.24"	0.30	/	20
19	/	120° 7' 4.60"	30° 6' 35.17"	0.30	/	25
20		120° 8' 41.12"	30° 6' 19.45"	0.20	/	10
21		120° 9' 50.39"	30° 5' 50.02"	0.20	/	25
22		120° 11' 5.89"	30° 5' 28.80"	0.20	/	25
		/		5.2	2.2	1225



1-10

5.0m

4m

3

6m

30m

2.5km

5.0km

7.5km

1.3.5.2

TBM+

1

30cm

2

TBM

TBM

TBM

TBM

500 800m/

TBM

2

3

60 180m/

3

1-11

5 10m

4

1-11

1.6 2.0m

1.3.5.3

X
X

1.3.6

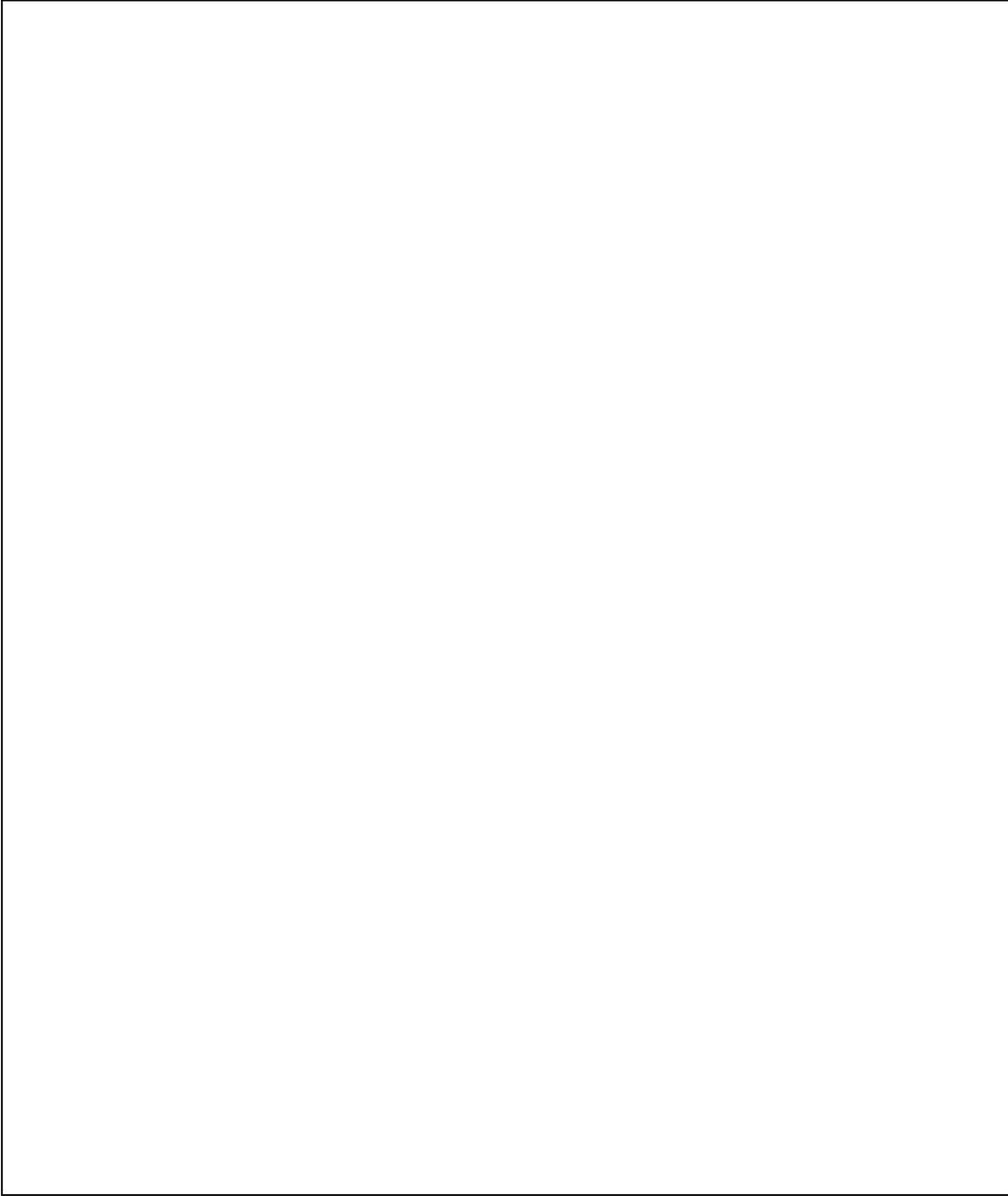
320 8
1 1
9 1-3
1-3

		m	m		m	
1		/	1300		>15	TBM
2		26	32		>40	TBM
3	320	50	51		>30	TBM
4		12	12		>21	TBM
5		5	6		>30	TBM
6		15	17		>30	

13

37

37



2

2.1

2.1.1

250km

130km

29° 11'

30° 34'

118° 20'

120° 37'

2.1.2

100m

2 10m

100m 500m

6-9m

2.1.3

1960 2000 40

16.5

41.6 2013 8 7

-9.6 1969 2

6

1435mm

150 160

2356.1mm 1954

744.4mm 1978

25mm/d

16

50mm/d

2.1.5

10m
600m 700m

2.1.6

1
500m

500 800m

800 1100m

1100m

63%

2.2

2.2.1

2007 2016 1 11 2007 19 2001-
2020 2016 1 11
2016 16

2001-2020

2.2.2

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2015

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1

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3

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2.2.3

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DG011 DG013

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"

2.2.4

			0110-I-5-
10		0110-II-1-1	
	0183-II-1-2	- -	0101-II-4-1
		0106-V-0-2	0106-III-1-
1		0101-I-5-1	0109-I-
5-1	0109-II-4-11	5	

2-2

2-2

(0110-1-5-10)	;			
0110-11-1-1	;	25	25	

0183-11 -
1-2

			<p>122 140</p> <p>155</p> <p>30 43</p> <p>44 45 48</p> <p>49</p> <p>51 58 84</p> <p>85</p> <p>86 88 90</p> <p>87 112</p> <p>96 115</p> <p>116</p> <p>118</p> <p>119 120</p>	
<p>- -</p> <p>0101-11 -</p> <p>4-1</p>		<p>1</p> <p>2</p> <p>3</p> <p>4</p>	<p>78</p> <p>79 104</p>	

		<p>78 79</p> <p> 104</p> <p>5</p> <p>6</p> <p>7</p> <p>8 25</p> <p>9</p> <p>10</p>		
0106-V-0- 2		<p>1</p> <p> 29 140 27</p> <p>2</p>	140	27 29



3

4

5

6

7

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5

6

7

0109-I-5- 1	1 II 2 3			
0109- II-4-11	1 2 3	25	1 2 3 4	

3

3.1

3.1.1

2016 4 1 2016 4 7

1850m

3-1

3-1

	SO ₂ NO ₂ PM ₁₀	2016. 4. 1-4. 7 7	SO ₂ NO ₂ PM ₁₀

GB3095-2012

I 1

I Ci / Si

I---

Ci--- i

μg/m³

Si--- i

μg/m³

3-2

3-2		mg/m ³		
		SO ₂	NO ₂	PM ₁₀
		2016. 4. 1-2016. 4. 7		0.022-0.049
		0.15	0.08	0.15

GB3095-2012

3.1.2

2015

II

II

2017 1 18 -19

www.zhzh.gov.cn 2017 10

3-3

3-3		mg/L					
			10.86	1.58	0.029	0.032	II
			I	I	II	II	
			6.14	3.31	0.478	0.063	II
			II	II	II	II	
	100m		4.36	3.06	0.617	0.06	IV
			IV	II	III	II	
			5.08	2.55	0.6	0.063	III

			III	II	III	II	
			7.02	2.16	0.342	0.079	II
			II	II	II	II	
			9.16	3.6	0.09	0.05	II
			I	II	I	II	
			6.4	3.8	0.259	0.39	V
			II	II	II	V	
II			6	4	0.5	0.1	

3.1.3

2017 12 12

3-4

3-4

			LeqA			/	
			dB(A)	dB(A)			
N1-1			64.3	70		246	1053
			53.1	55		69	273
N1-2			51.6	60		/	/

3.1.4

3.2

11

200m

3-5

GB3096—2008

2

200m

3-5

3-5

3-5

			/	/				m				
/	1							120	TBM		13	GB3095-2012 GB3096-2008 2 GB10070-88
	2							0	TBM		35	
	3							0	TBM		83	
/	4							100	TBM+		20	
/	5							120	TBM+		11	
	6							160			2	
/	7							100			20	

			/	/				m				
/	8							0			150	
/	9							40			230	
/	10							155			25	GB3095-2012 GB3096-2008 2 4a GB10070-88
/	11							125				GB3095-2012 GB3096-2008 2 GB10070-88
	12								TBM			GB3838-2002 II

			/	/					m		
13								TBM			GB3838-2002 II
14											GB3838-2002 II
15											GB3838-2002 II
16											GB3838-2002 II
17											GB3838-2002 II
18											GB3838-2002 II
19											GB3838-2002 II
20											GB3838-2002 II
21		-					150				150m
22								TBM			2660m

*

4

4.1

4.1.1

GB3095-2012

4-1

3

4-1

		PM ₁₀	SO ₂	NO ₂	CO
mg/m ³		0.07	0.06	0.04	/
		0.15	0.15	0.08	4
		/	0.5	0.2	10

4.1.2

II

II

II

(GB3838-2002) II

4-2

5

4-2

mg/L pH

I

II

III

IV

V

	0.15	0.5	1.0	1.5	2.0
P	0.02	0.1	0.2	0.3	0.4
	0.05	0.05	0.05	0.5	1.0

4.1.3

GB/T15190-2014

2

35

GB3096-2008

4a

35m

4a

4-3

6

4-3

dB A

2	60	50
4a	70	55

4.1.4

GB10070-88

4-4

4-4

dB

	dB	
	70	67
	75	72
	75	72
	75	72

4.2

4.2.1

GB16297-1996

4-5

4-5

		mg/m ³
		1.0
SO ₂		0.4

NO _x		0.12
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4.2.2

GB8978-

1996

(GB18918-2002)

A

4-6

4-6

mg/L

pH

		pH	SS	COD		
GB8978-1996		6-9	400	500	45*	20
GB18918-2002	A	6-9	10	50	5	1

1

(GB/T31962-2015)

4.2.3

GB12523-2011

4-7

4-7

dB A

70	55

15dB A

4.3

5

5.1

5.1.1

2017 11

1

13.6km

5m

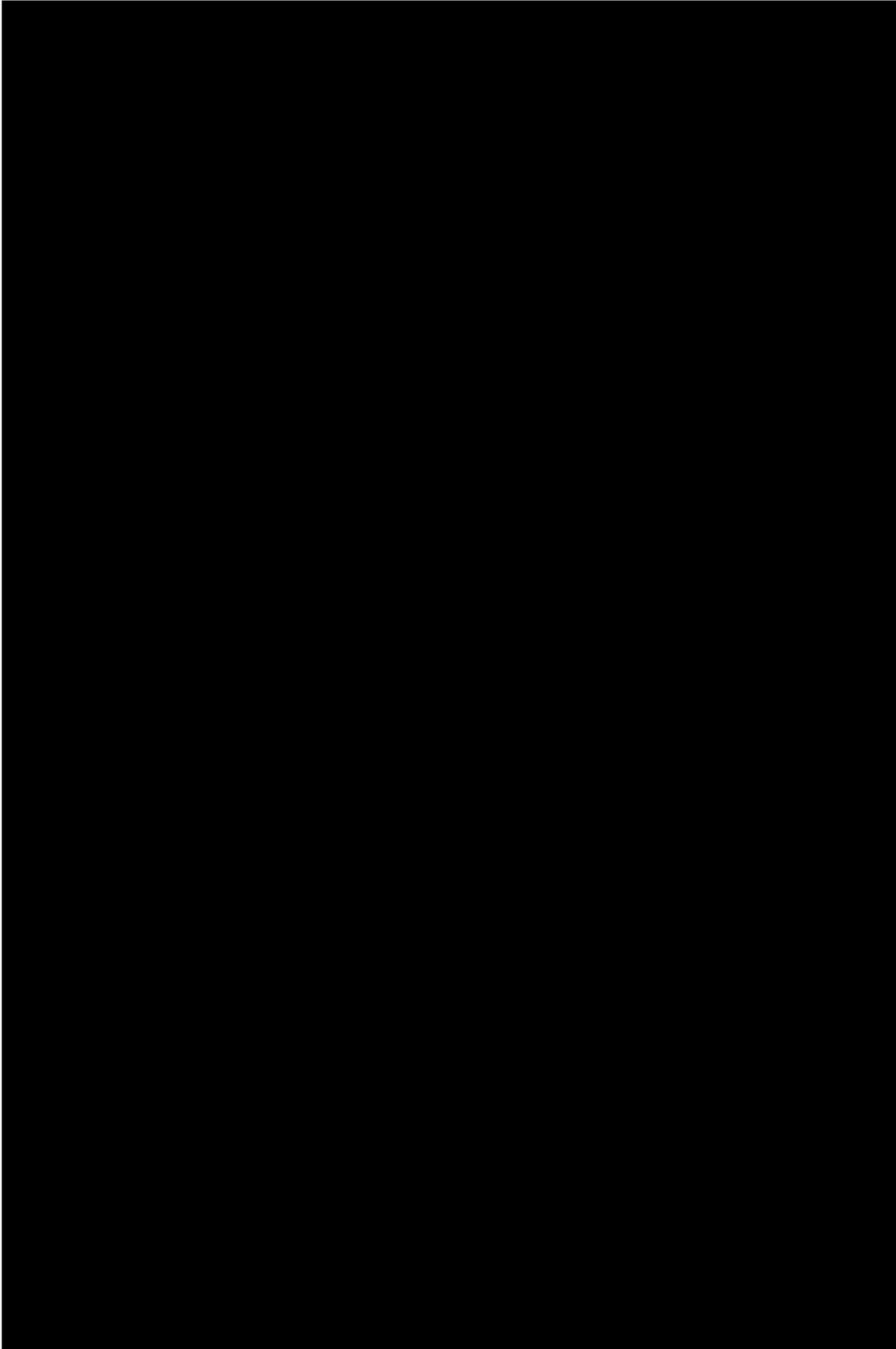
330

6.4

400

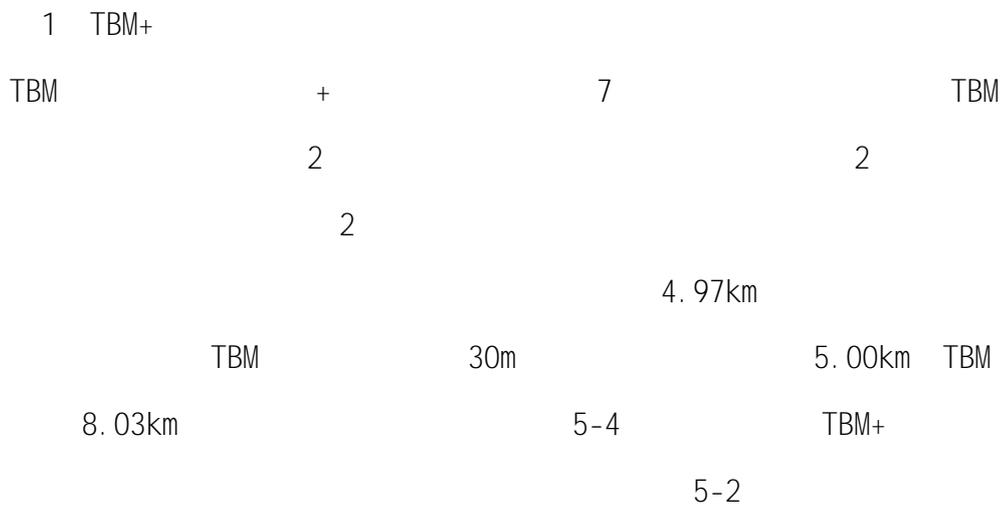
220

26.2



	6.8		
	7		

5. 1. 2



5-2		TBM+			
		m		m	
1		0+0.000		/	/
2		0-060.000	7+964.001	8024.001	TBM
3		7+964.001	7+994.001	30.0	
4		7+994.001	8+945.232	951.23	
5		8+945.232	9+839.000	893.77	
6		9+839.000	10+620.268	781.27	
7		10+620.268	11+249.756	629.49	
8		11+249.756	12+090.343	840.59	
9		12+090.343	12+965.776	875.45	
* 2 13. 20km 7 15 1 14 5-4 5-3 5-3					
				m	*
1		0+000.00	0+550.77	550.77	2
2		0+550.77	1+264.85	714.08	
3		1+264.85	1+671.83	406.98	2
4		1+671.83	2+699.00	1027.17	
5		2+699.00	3+606.17	907.17	2
6		3+606.17	4+688.16	1081.99	
7		4+688.16	6+147.16	1458.99	2
8		6+147.16	7+355.85	1208.69	
9		7+355.85	8+656.24	1300.39	2
10		8+656.24	9+640.35	984.11	
11		9+640.35	10+667.76	1027.41	2
12		10+667.76	11+331.26	663.51	
13		11+331.26	12+126.87	795.61	2

14		12+126.87	12+529.88	403.00	
15		12+529.88	13+208.78	678.90	1

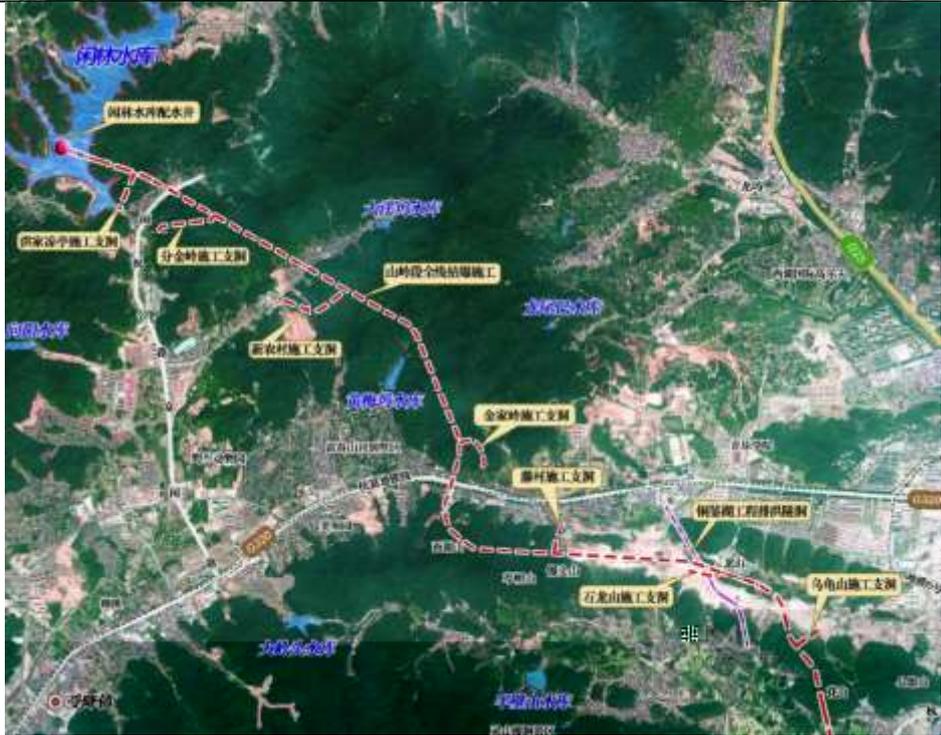
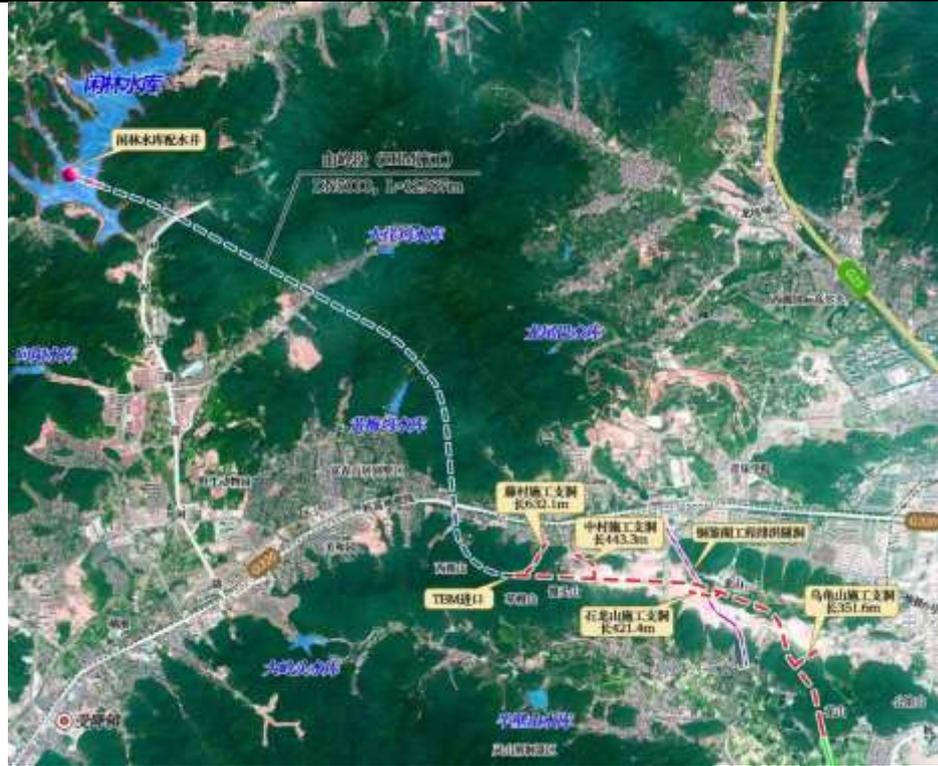
*

5-4

5-4

	TBM+		
km	13.0	13.2	TBM+ TBM+ 2 5 TBM+
	4	7	TBM+ 4 3 TBM+
	TBM+		TBM+ TBM+
	2660m 150m	2660m 500m 150m	TBM+ 500m TBM+

TBM+



5-4

5-4 TBM+

TBM+

5.1.3

1 6.2m +

4 1# 3#

2# 4#

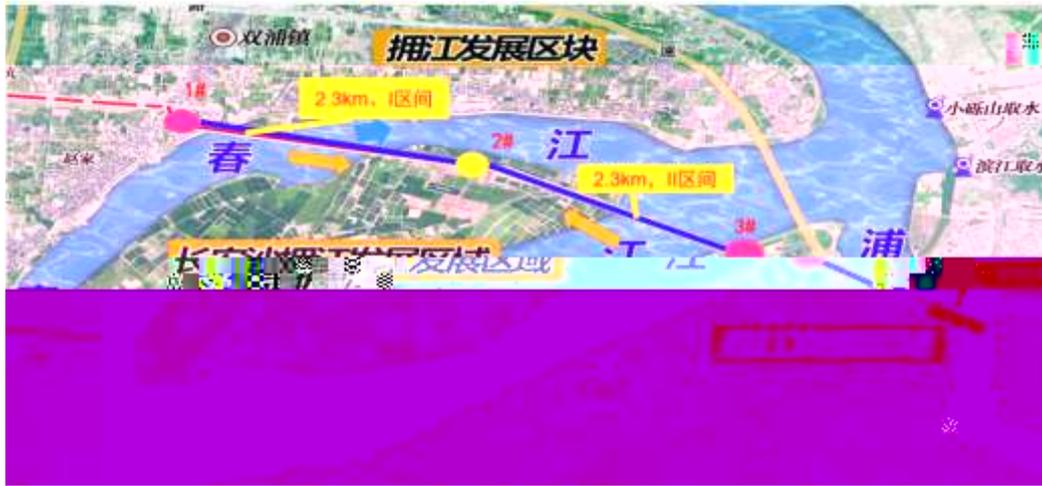
1 I 2.3km

2 II 2.3km

3 III

2.2km

5-5



5-5

2 2× DN2800

5 1

5 :

1 I 1# 2#

1.5km

2 II 2# 3#

1.6km

3 III 4# 3#

1.5km

4 IV 5# 4#

1.1km

		4.6km			
		4.6km			
2km					
5.2					
5.2.1					
		5-5		5-6	
		5-5			
		km			
		13.0	G320	5.0m	TBM+
		6.4			

			4	6.4km 7m 14 10× 10m	
		6.8	2 1	4	

5-6

	1. 2. 3.	1. 2. CO 3. NO _x SO ₂		1. 2. 3.
	1. 2. 3.	1. SS 2. COD SS 3. COD		1. - GB8978-1996 2.
	1. 2. 3.	1. 2.		1. 2. 3.

- 1.
- 2.
- 3.

- 1.
- 2.

		1.		1.
		2.		2.
				3.

5.2.1.1

1

TSP

2

NO₂ CO SO₂

5.2.1.2

1

COD BOD₅

COD BOD₅ 350mg/L 200mg/L 35.0mg/L

1225 98m³/d COD BOD₅

34.3kg/d 19.6kg/d 3.43kg/d

2

SS

COD 200mg/L 20mg/L
5.2.1.3

		111.47	m ³		37.61	m ³	72.69
m ³	1.17	m ³			37.61	m ³	
	30.74	m ³	0.45	m ³	74.31	m ³	

5.2.2

6

							*
				/	40150 [*]	0	40150
			COD	/	8.03	6.02	2.01
				/	0.80	0.77	0.03
				/	35770	0	35770

7

7.1

7.1.1

7-1

7-1

1				
2				

3

98m³/d

COD_{Cr} BOD₅

11

(GB8978-1996)

2

1

SS

GB8978-1996

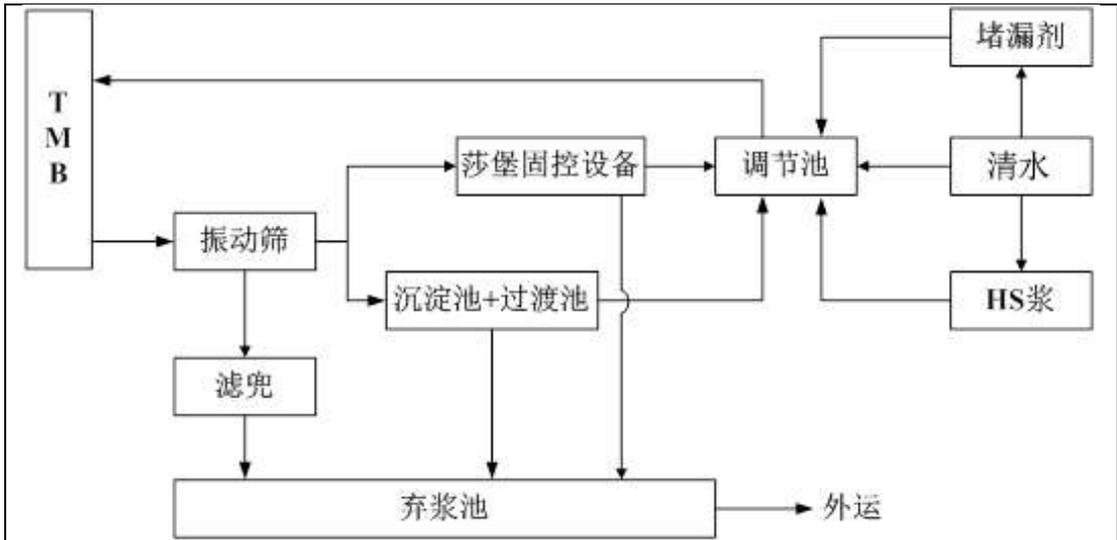
2

2

1

7-

1



7-1

3

GB8978-1996

4

CODcr

20mg/L CODcr

200mg/L

GB8978-1996

3

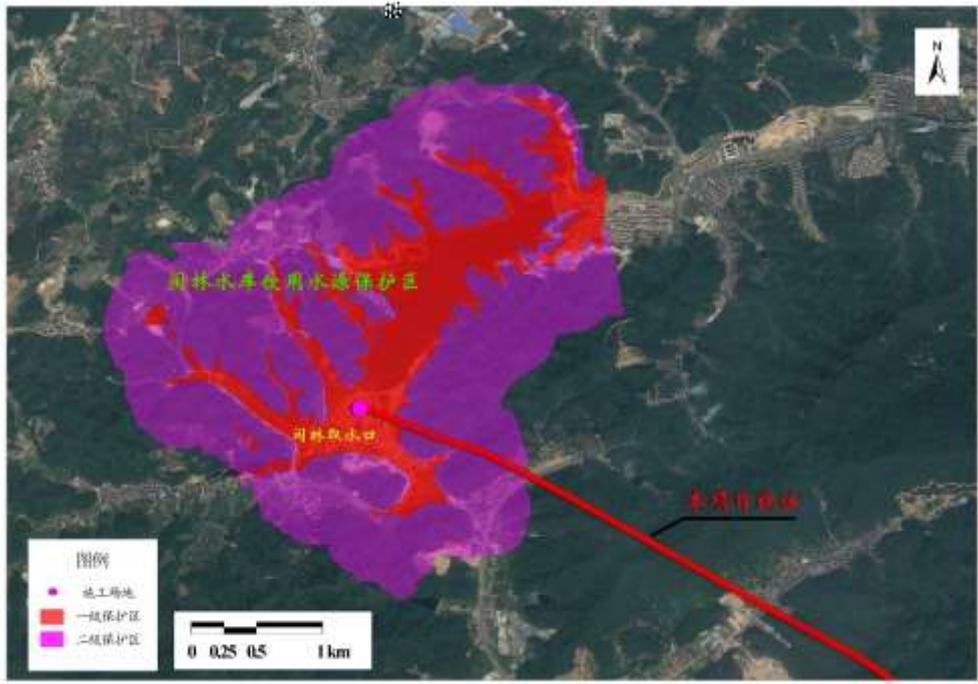
2015

[2015]71

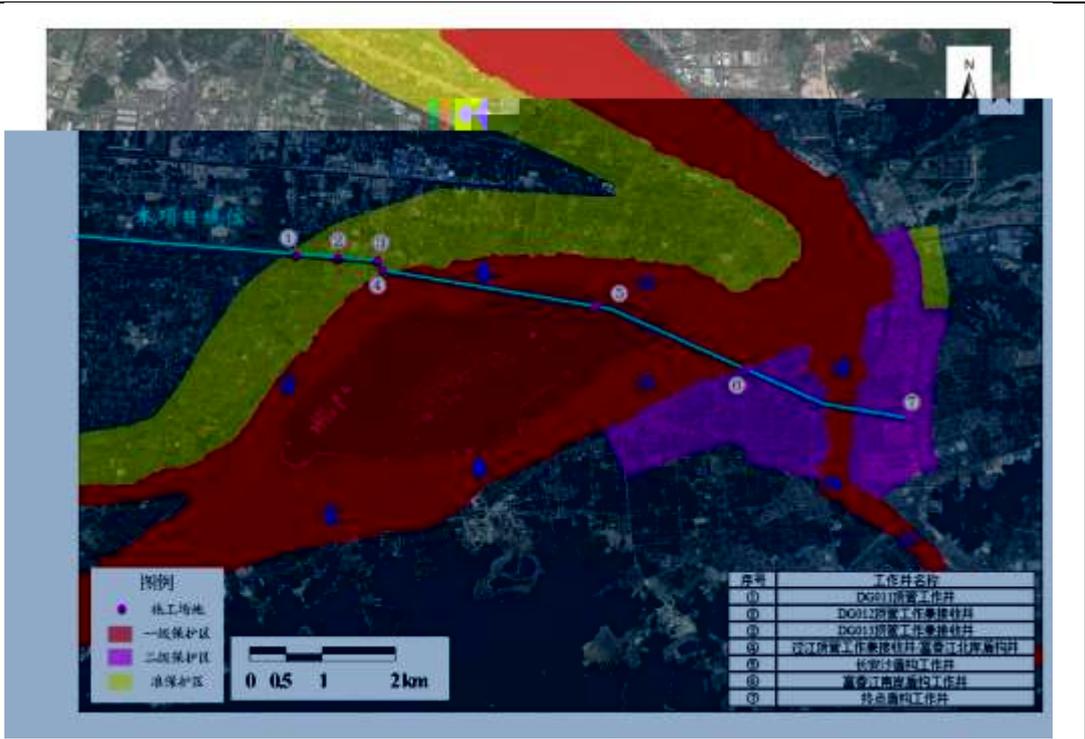
DG011

DG013

5080
 300
 4480 300
 2800 1000
 1800
 1300
 9 17
 13
 7-2 7-3



7-2



7-3

7.1.1.2

TSP
SO₂ CO

TSP NO₂

1

(1)

60%

100m

4 5

70%

7-2

7-2

(m)		5	20	50	100
TSP (mg/m ³)		10.14	2.89	1.15	0.86
		2.01	1.40	0.67	0.60

4 5

TSP 20 50m

(2)

$$Q = 2.1(V_{50} - V_0)^3 e^{-1.023W}$$

Q— kg/ .

V₅₀— 50m m/s

V₀— m/s

W— %

V₀

7-3

7-3

(μm)	10	20	30	40	50	60	70
(m/s)	0.003	0.012	0.027	0.048	0.075	0.108	0.147
(μm)	80	90	100	150	200	250	350
(m/s)	0.158	0.170	0.182	0.239	0.804	1.005	1.829
(μm)	450	550	650	750	850	950	1050
(m/s)	2.211	2.614	3.016	3.418	3.820	4.222	4.624

7-3

250 μm

1.005m/s

250 μm

2

NO_x CO

CO NO_x

3

CO₂ H₂O CO NO₂ NO O₂ N₂

CO NO_x

200

7.1.3

1

(1)

	111.47	m ³	37.61	m ³	37.16	m ³
74.31	m ³	29.34	m ³	44.97	m ³	

(2)

1225

612.5kg/d

0.5kg

22

7.1.4

1

5-5

(GB/T3096-2008)

(GB12523-2011)

$$L_p = L_{p0} - 20 \log \frac{r}{r_0} - \delta$$

L_p — dBA
 L_{p0} — dBA
 r — m
 r_0 — m
 — dB(A)

7-4

7-4

	dB(A)									dB(A)		dB(A)	
	10 m	50 m	70 m	100 m	200 m	250 m	300 m	400 m	500 m				
	81	67	64	61	55	53	51	49	47	70	55	2 60 4 70	2 50 4 55
	78	64	61	58	52	50	48	46	44				
	80	66	63	60	54	52	50	48	46				
	82	68	65	62	56	54	52	50	48				
	79	65	62	59	53	51	49	47	45				

7-4

3

70m

300m

10 15dB

22

7-

7-

1			100m	2
2			180m	2
3	DG09		135m	2

4	DG013		90m	2
5	/		60m	2
6			100m	2

60 180m
60m 100m

70m

2

0.5kg 40m

84 dB
A
7-

7-

r(m)	40	80	120	200	400	800	1500	2500
L _A (dB)	84	78	74.5	70	64	58	52.5	48

7- 120m

GB3096-2008 2 75 dB 200

1 70 dB

7-

100 2

4a

GB6722-2011

7-7 ()

7-8

7-7 ()

(cm/s)

()	f 10Hz	10 Hz f 50Hz	f Hz
		0.15 0.45	0.45 0.9
	1.5 2.0	2.0 2.5	2.5 3.0
	2.5 3.5	3.5 4.5	4.2 5.0

f

7-8

*

	(cm/s)	
	0.2	
	0.2 0.4	
	0.4 0.8	
	0.8 1.5	
	1.5 3.0	
	3.0 6.0	

*

2 3cm/s

2.5cm/s

(GB6722-2011)

K=200 a=1.65

0.5kg

24m

50m

7-6

100m

8

8.1

8.1.1

1

2

3

7 00 12 00 14 00 22 00

4

" "

8.1.2

1

GB12523-2011

2

3

7 00 12 00

14 00 22 00

4

5

6

7

2.5 3m

3

4

5

6

7

8.1.4

1

2

2.5m

3

4

2

5

100 4

80-100

4

100

6

7

"

"

8

9

10

8.1.5

1

2

8.1.6

8.1.6.1

1

2

3

4

5

30cm

6

8. 1. 6. 2

1

2

8.1.7

1

2

8-1

8-1

		A
		1 /
		pH SS COD 

8.1.8

1

1

2

2

3

12

5

4

1

2

3

"

"

4

8.2

8.3

8-2

8-2



TSP
PM

		COD		

8.4

169

400000

0.042%

8-2

	1		4
	2		40
	3		50
	4		5
	5		20
	6		30

	7		20
			169

9.1

0110-I-5-10

0110-II-1-1

0183-II-1-2

- -

0101-II-4-1

0106-V-0-2

0106-III-1-1

0101-I-5-1

0109-I-5-1

0109-II-4-11

" "

" "

" "

2011

"

"

2

2006-2020 2016

330100201700298

9.2

"

"

9-1

9-2

9-1

"

"

	" "	" "
1		
2		
3		" "
4		

9-2

1		
2		
3		

4		
5		

9.3 " "

9-3

9-3 " "

	3	

10

10.1

10.1.1

320

26.2

200 m³/d

160 m³/d

40 m³/d

400000

169

10.1.2

10.1.2.1

GB3095-2012

10.1.2.2

10.1.2.3

GB3096-2008

10.1.3

10.1.3.1

1

2

(GB12523-2011)

2010 (26)

3

4

(113)

5

“ ”

10.2

10-1

10-1

		TSP PM ₁₀ PM _{2.5}	2.5m	
		SS		
		COD		

10.3				
			8	3
			10-2	
			10-2	
1	**			
2	**			
3	**			
4	**			
5	**		12	

6	**			
7	**			
8	**			
9	**			
10	**			
11	**			

10.4

— —

ZT1. 1

ZT1. 1. 1

1

300m

2

ZT1. 1. 2

1

2

500

35 142 8 26 194 1400
151 1300 700
28
6

22

2

36

9

27

"

"

"

"

— —

55

17

	<i>Podiceps cristatus</i>	<i>Pelecanus</i>
<i>philippensis</i>	<i>Phalacrocorax carbo</i>	<i>Ardea cinerea</i>
<i>Garrulax canorus</i>	<i>Leiothrix lutea</i>	<i>Hirundo rustica</i>
<i>Pica pica serice</i>	<i>Cyanopica cyana swinhoi</i>	
<i>Passer montanus saturatus</i>	9 10	

4

ZT-

1

ZT-1

1			
2			

3			
4			
5			
6			
7			

8			 An aerial photograph of a multi-lane highway. The road surface is highlighted with a semi-transparent green overlay. There are some small colored markers (red, blue, green) on the left side of the road. The surrounding area includes trees and some buildings in the distance.
9			 A street-level view of a residential neighborhood. The image shows a paved road, several houses with light-colored facades, and lush green trees. The sky is overcast.
10			 A view from a road or bridge looking towards a large body of water. The water is a deep blue-green color. There are some trees and structures visible on the far side of the water.
11			 A street-level view of a road. A tall, white street lamp stands prominently on the left side of the road. In the background, a bridge spans across a body of water. The sky is clear and blue.
12			 A view of a large body of water, possibly a lake or a wide river. In the distance, there are several large, cylindrical industrial structures, likely part of a water treatment plant. The sky is blue with some light clouds.

5

ZT1.2

ZT1.2.1

1

2

3

18m

ZT1. 2. 2

ZT1. 2. 4

1

10

320

1381

96.7%

2

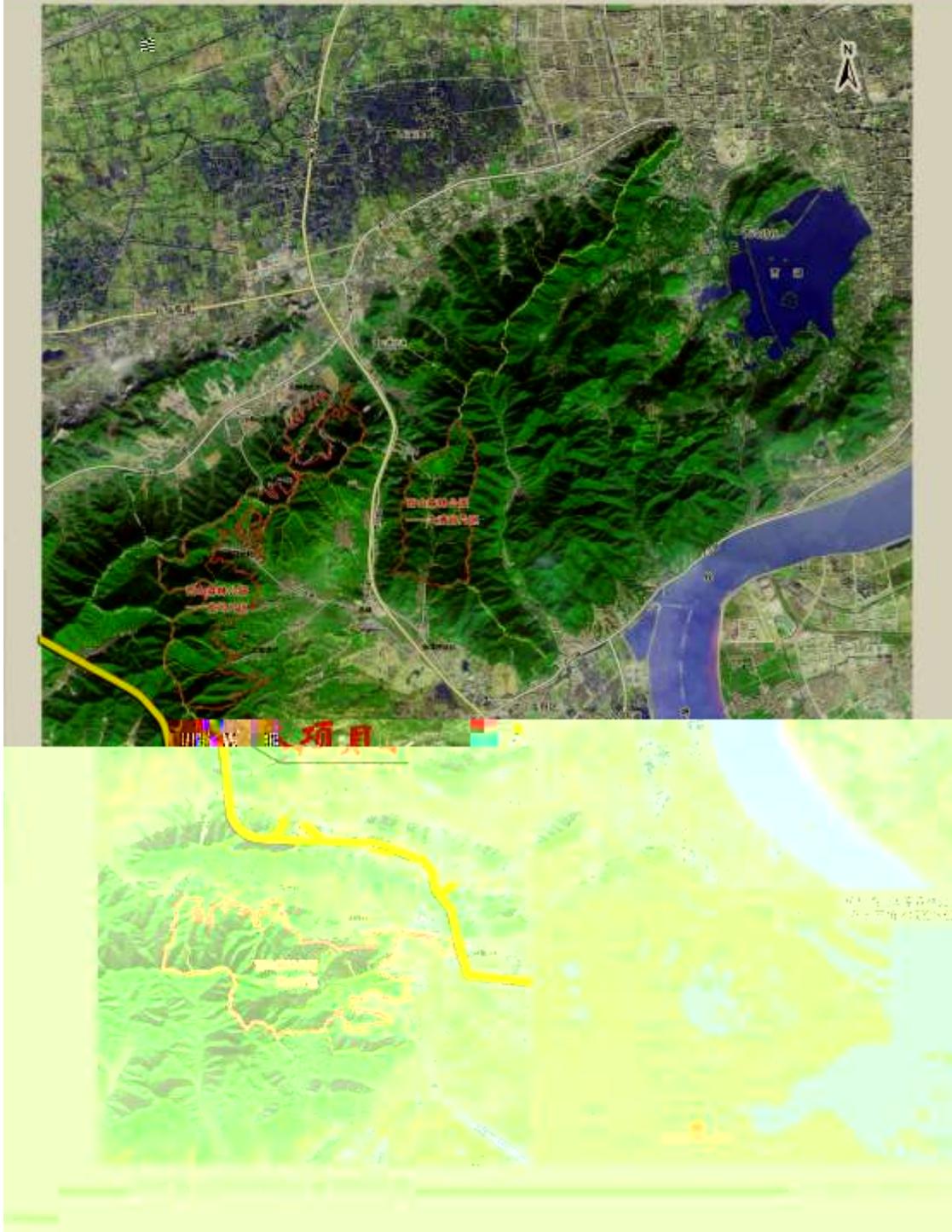
150m

250m

12m

ZT-2

150m



ZT-2

ZT1.2.5

(1)

1.9hm²

ZT-3

ZT-2

60m

100m

ZT-2

				hm ²		200m
1				0.40	0.50	
2				0.10	0.20	100m 180m
3				0.20	0.20	
4				0.40	0.50	
5				0.40	0.50	
6	/DG01			0.30	0.30	
7	DG02	120° 3'45.68"	30° 6'57.02"	0.20	/	
8	DG03	120° 4'5.99"	30° 6'55.36"	0.15	/	
9	DG04	120° 4'24.51"	30° 6'53.75"	0.20	/	
10	DG05	120° 4'39.34"	30° 6'52.46"	0.30	/	
11	DG06	120° 4'44.34"	30° 6'52.10"	0.15	/	
12	DG07	120° 5'6.56"	30° 6'50.19"	0.15	/	
13	DG08	120° 5'28.91"	30° 6'48.30"	0.20	/	
14	DG09	120° 5'50.56"	30° 6'46.44"	0.20	/	

						135m
15	DG010	120° 6'8.81"	30° 6'44.79"	0.15	/	
16	DG011	120° 6'25.18"	30° 6'43.42"	0.20	/	
17	DG012	120° 6'44.15"	30° 6'41.88"	0.30	/	
18	DG013	120° 7'2.94"	30° 6'40.24"	0.30	/	90m
19	/	120° 7'4.60"	30° 6'35.17"	0.30	/	60m
20		120° 8'41.12"	30° 6'19.45"	0.20	/	
21		120° 9'50.39"	30° 5'50.02"	0.20	/	
22		120° 11'5.89"	30° 5'28.80"	0.20	/	100m

ZT-3

		hrř			
1			0.90	0.90	
2		0.10	0.20	0.30	
3			0.40	0.40	
4			0.90	0.90	
5			0.90	0.90	
6	/ DG01		0.60	0.60	
7	DG02		0.20	0.20	
8	DG03		0.15	0.15	
9	DG04		0.20	0.20	
10	DG05		0.30	0.30	
11	DG06		0.15	0.15	
12	DG07		0.15	0.15	
13	DG08		0.20	0.20	
14	DG09		0.20	0.20	

15	DG010		0.15	0.15	
16	DG011		0.20	0.20	
17	DG012		0.30	0.30	
18	DG013		0.30	0.30	
19	/	0.30		0.30	
20		0.20		0.20	
21		0.20		0.20	
22			0.20	0.20	
		0.8	6.6	7.4	/

2

1

72.69 m³

21.30 m³ 6.42 m³ 44.97 m³
1.3km 6.81 m³ 5.34 m³
5.34 m³ 1.47 m³ 5.1km
6.86 m³ 1.08 m³ 1.08 m³ 5.78
m³ 6.8km 22.57 m³ 6.90
m³ 0.48 m³ 6.42 m³
22.09 m³
74.31 m³

2

1.37 m³

1.37 m³

ZT-5

) (
()	

ZT1.3