

T/GDAEPI 21 2023

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Technical specification for supervision of groundwater pollution prevention and  
remediation process in nonferrous metal mining areas

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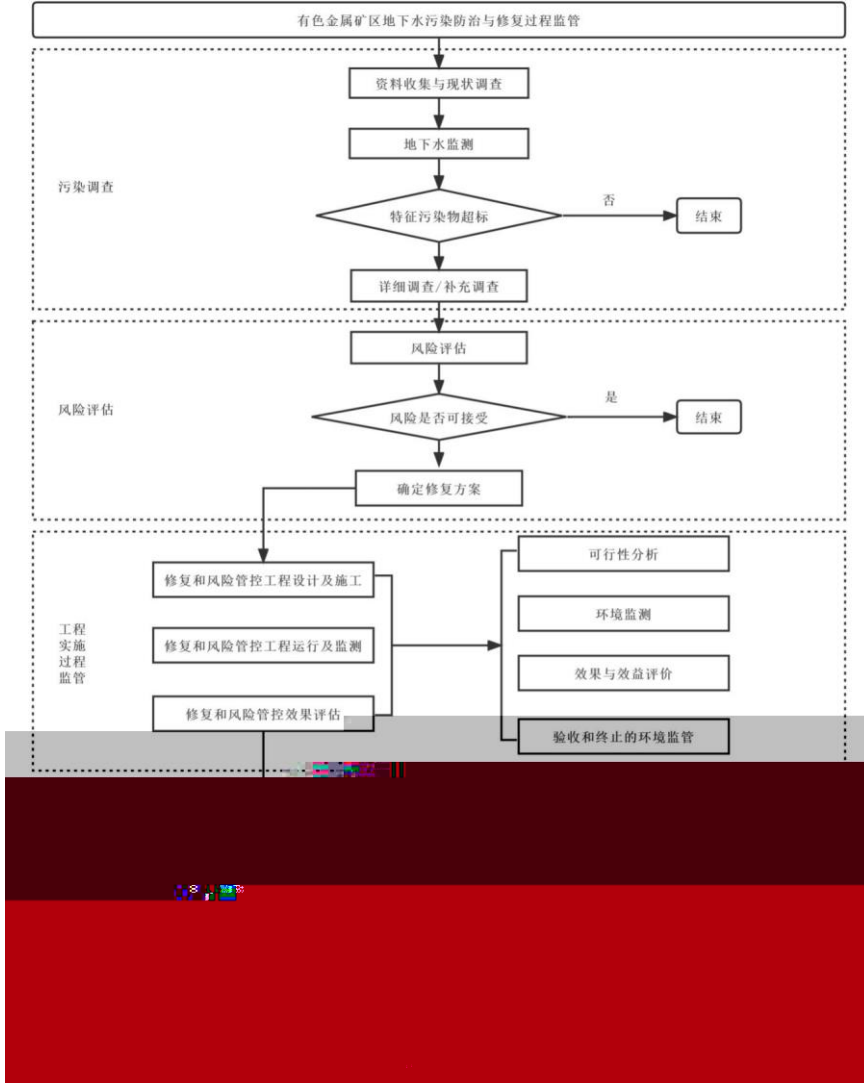


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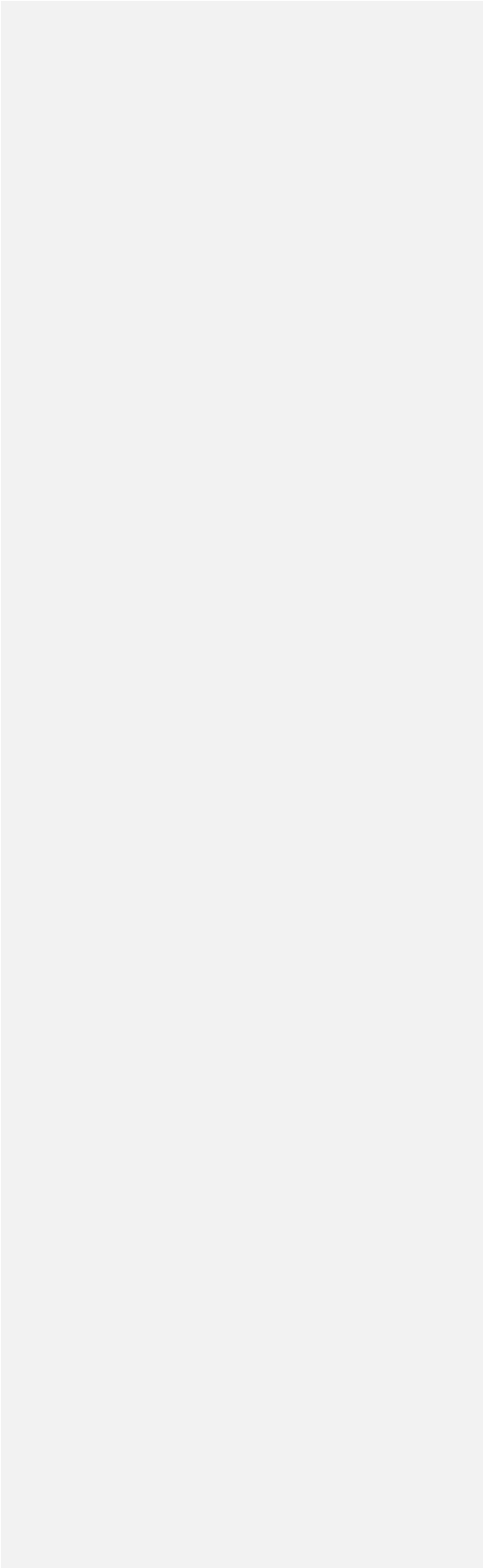


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groundwater vulnerability



-12. 11. 2019 9:59:31 AM (GMT+08:00) ...





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GB 8537

HJ 25.3

HJ

164 2020

GB/T 14848

HJ/T 91.2

HJ/T 166

HJ/T 20

HJ/T 91.2

HJ 164 2020

1

3

2

HJ 164 2020

T/GDAEPI 20 2023

[A1]:

HJ 164 2020 1

T/GDAEPI 17 2023

[A2]:

6.3.1

5

HJ/T 91.2

1

1  
3  
30 m 50 m 1  
30 m 50 m 2 3  
1  
1  
HJ 164 2020

DZ/T 0270

A

2

1 m

15 min

a) HJ 164 2020 C

/

b)

c)

HJ/T 91.2 HJ/T 166

VOCs

SVOCs

HJ 1019 HJ 164 2020 C

HJ 164 2020 HJ/T 91.2 HJ/T 166

T/GDAEPI 21 2023

B

pH

HJ 164 2020

GB 3838

GB 36600

HJ 168

HJ 630

RB/T 214

HJ 164 2020

$$P_i = T_i \times L_i \times Q_i \dots\dots\dots 1$$

$P_i$        $i$   
 $T_i$        $i$   
 $L_i$        $i$   
 $Q_i$

$T_i$       3                      1 km                      2  
 $L_i$                       1

1

	$L_i$
	0.1
	0.5
	0.7
	0.5
	1

2

2

	$Q_i$
	3
	6

	$Q_i$
	9

2004 208

$$P_I = \sum W_i \times P_i \dots\dots\dots 2$$

$P_I$

$W_i$       $i$

$P_i$       $i$

$P_I$

6

$W_i$

5

PI

5

3

$P_I$					

D

HJ 164 2020

HJ 164 2020

pH

GB/T

14848

HJ 164 2020 E



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2

1 ~2

A.1

	— —				

\*

B.1

			CaCO <sub>3</sub>	
	O <sub>2</sub>	N		COD <sub>Mn</sub>

C

EPA DRASTIC

DRASTIC

A

S

T

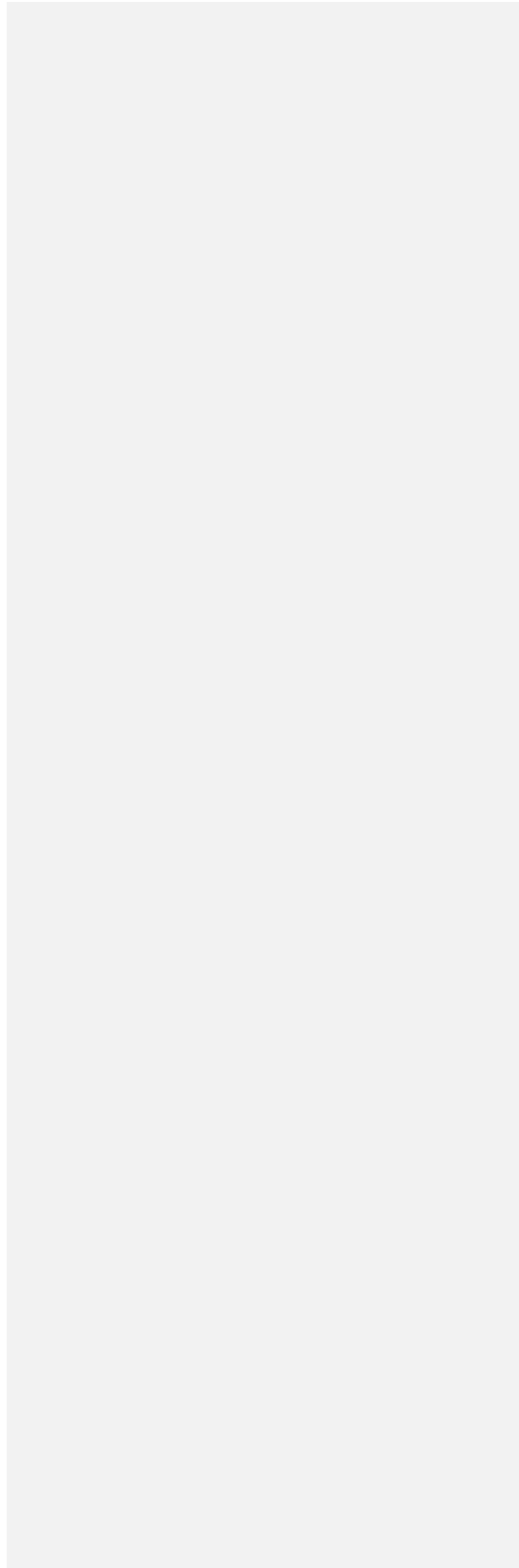
D

I

R

C

C.1



DRASTIC

DRASTIC

5,4,3,2,1,5,3

DRASTIC

DRASTIC = 5 × D + 4 × R + 3 × A + 2 × S + 1 × T + 5 × I + 3 × C.....

200

100

23

10

226

DRASTIC

DRASTIC

50

DRASTIC

5

C.2


DRASTIC

$$R_C = \sum [1 - \exp(-D_i Q_i) / W] \dots\dots\dots$$

$R_C$   
 $D_i$   
 $Q_i$   
 $W$

$i$   
 $i$

mg kg d<sup>-1</sup>;

kg (d mg)<sup>-1</sup>

kg

$$R_n = (D_i / R_{FDi}) \times 10^{-6} / W \dots\dots\dots$$

- [1] GB 3838
  - [2] GB 8537
  - [3] GB/T 14848
  - [4] GB 36600
  - [5] DZ/T 0270
  - [6] DZ/T 0282 2015 1:50000
  - [7] HJ 2.1
  - [8] HJ 19
  - [9] HJ/T 20
  - [10] HJ 25.2
  - [11] HJ 25.3
  - [12] HJ/T 91.2
  - [13] HJ 164 2020
  - [14] HJ/T 166
  - [16] HJ 610
  - [17] HJ 964 ( )
  - [18] HJ 1019
  - [19] GWI-D3 1112
  - [20] T/GDAEPI 17 2023
  - [21] T/GDAEPI 20 2023
  - [22] 2014 99
  - [23] 2019 770
  - [24] 2019 770
  - [25] 2004 208
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