

Coastal Environment Improvement by Iron and Steelmaking Slag

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Experiments were conducted to assess the applicability of iron and steelmaking slag to improve the waters and bottom sediment as well as base of algae and sessile organisms. From experimental results, it was clear that granulated blast furnace slag restrains the occurrence of hydrogen sulfide, supplies silicate to seawater and increases a benthonic organisms which inhabited within the slag. We also observed that steelmaking slag has a characteristic as a base of algae and sessile organisms. It is suggested that iron and steelmaking slag

250mm

Fig.1~ Scheme of granulated slag on the bottom setting

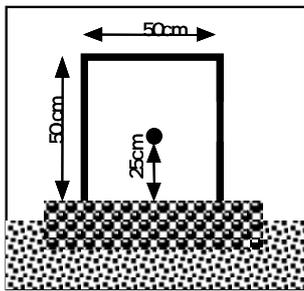


Fig.2~ Setting scheme of granulated slag and black box

2.3~

NKK No.169(2000.3)pp.24-28
70 150mm

4

20 30mm
150mm

Photo 1

3

3.~

3.1~

Fig.4 Fig.5

pH H₂S
pH H₂S
10ppm

H₂S 9ppm
0.05ppm
0.5ppm

pH

2

H₂S

H₂S

10

2

1

2.4~

Fig.3

4.3~

10)

1.0 1.5mm

(1)

0.5mm

(2)

(3)

4.4~

(4)

4

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Fe

H₂S

Fe

5.~