ICS 07.060
CCS P13

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 30736-2014

The limitation on infilling components of sea reclamation and enclosure project

围填海工程填充物质成分限值

Issued on: March 27, 2014 **Implemented on: April 1, 2015**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;
Standardization Administration of China

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Foreword

The standard Chapter 4 and 5 are mandatory, other content are recommended. This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard was proposed by the State Oceanic Administration. This standard by the National Standardization Technical Commission for Oceanography (SAC/TC283) centralized. This standard was drafted. National Marine Environmental Monitoring Center, State Oceanic Administration, Marine Consulting Center. The main drafters of this standard. Yang Xinmei, Xu Lina, Han Dragon, Zhang Yonghua, Fuyuan Bin. Reclamation works filling material composition limits

1 Scope

GB 30736-2014 is the Chinese national standard on the limitation on infilling components of sea reclamation and enclosure project, in the field of natural and applied sciences. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 27 March 2014 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2015. Classification: ICS 07.060, CCS P13. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

It should not contain metallurgical waste, mining waste, fuel waste, chemical waste, municipal solid waste (inert demolition Except for construction materials), hazardous waste, agricultural waste, wood waste, plant debris and clear a large animal Damage to the marine

environment, the quality of the material body, etc. 2 smell no smell, stench

3 body weight in line with the size of a single block reclamation projects in the dam or cofferdam design requirements

4 relative density greater than the relative density of construction sea water

5 omegad (Hg) (x 10-6) 0.20 0.50 1.20 6 omegad (Cd) (x 10-6) 0.50 1.50 6.00 7 omegad (Pb) (x 10-6) 60.0 130.0 300.0 8 omegad (Zn) (x 10-6) 150.0 350.0 720.0 9 omegad (Cu) (x 10-6) 35.0 100.0 240.0 10 omegad (Cr) (x 10-6) 80.0 150.0 324.0 11 omegad (As) (x 10-6) 20.0 65.0 112.0 12 omegad (OC) (x 10-2) 2.0 3.0 5.0 13 omegad (S2 -) (x 10-6) 300.0 500.0 720.0 14 omegad (oil) (x 10-6) 500.0 1000.0 1800.0 15 omegad (666) (x 10-6) 0.50 1.00 1.80 16 omegad (DDT) (x 10-6) 0.02 0.05 0.12 17 omegad (PCBs) (x 10-6) 0.02 0.20 0.72 18 coliform bacteria than the number of wet weight/(a / g, wet weight) 200 Implementation of environmental background values before a certain area gamma radiation dose rate 19 gamma radiation dose rate/(nGy/h) is not greater than reclamation project

5.4 Evaluation Method The sample to be used for reclamation in the fill mass index of each component detection detection value and the corresponding category in Table 1. Comparative composition limits, like Each product component detection index detection value did not exceed the respective substance category in Table 1 component limit requirements as the category reclamation project filled substance.

6 reclamation in sample collection and testing methods filling substance

6.1 Sample Collection Reclamation project filled with material collected samples should comply with the provisions of Appendix A.

6.2 Sample Detection Reclamation in the seabed dredged material and other substances from the waters fill detect sample, using the method set out in Table 2. Inert inorganic ground Material and inert construction and demolition materials, etc. from the land reclamation project filled with the test substance in a sample, using the method set out in Table 3. sample Fill the test results "reclamation project filled material component detecting Report" (see Appendix B). Reclamation fill material sample detection method Table 2 sea-borne Wai No. Item reference standard analytical method detection limit

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 12763.8 specification for oceanographic survey - Part 8. Marine Geology Geophysical Survey

GB/T 14583 environmental terrestrial gamma radiation dose rate measurement

specification

GB/T 14550 Determination of BHC and DDT in soil by gas chromatography

GB/T 17108 marine function zoning Technical Guidelines Flame atomic

GB/T 17138 Soil quality copper, zinc absorption spectrophotometry

GB/T 17141 Soil quality lead and cadmium by graphite furnace atomic absorption spectrophotometry

GB 17378.1 marine monitoring Part 1. General

GB 17378.2 specification for marine monitoring Part 2. Data processing and quality control analysis

GB 17378.3 specification for marine monitoring Part 3. Sample collection, storage and transportation

GB 17378.5 specification for marine monitoring Part 5. Sediment analysis

GB 17378.7 specification for marine monitoring Part 7. Ecological survey of offshore pollution and biological monitoring

GB 18668 marine sediment quality

GB/T 22105.1 soil quality total mercury, total arsenic, total lead Atomic fluorescence spectrometry - Part 1. Determination of total mercury in soil

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Reclamation project seareclamationandenclosureproject Around the sea and reclamation in general. By means of a cofferdam or embankment enclosure for sea reclamation projects. In ocean engineering circle surrounded by the sea Region, with gravel, dirt and other substances formed land fill for reclamation.

3.2 Reclamation works filling substance infilingcomponentsofseareclamationandenclosureproject In the reclamation project for the enclosure and fill a specific range of used waters and adjacent waters of Environmental Quality does not produce unacceptable Solid or semi-solid substances that damage, generally include an inert inorganic geological material, inert construction and demolition materials, dredged material and the like.

3.3 Background values environmentalbackgroundvalue Environmental levels of various elements of the reclamation project before implementation.

3.4 Inert inorganic geological material inertinorganicgeologicalmaterial Pollution and low organic matter content, and not the surrounding environment after throwing fill significant

chemical reactions inorganic geological material is not subject to.

3.5 Inert construction and demolition materials constructionanddemolitionmaterial Construction, renovation, demolition and other works produced not contaminated and low organic matter content of the construction waste and spoil, and after throwing filled not Waters surrounding environment significant chemical reaction, their material composition of gravel, sand, clay, concrete, rubble and bricks and the like.

4 filling material reclamation project material requirements and classification

4.1 filling material reclamation project material requirements Reclamation works fill material should not contain metallurgical waste, mining waste, fuel waste, chemical waste, municipal solid waste (inert demolition Construction materials excluded), hazardous waste, agricultural waste, wood waste, plant debris and clear a large animal carcasses and other damage to the marine environment quality substance.

4.2 reclamation project filled the classification of substances Categories reclamation in filling substances shall meet the requirements of marine sediment quality of marine functional zones GB/T 17108 stipulated.

4.2.1 coastal reclamation fill material

4.2.1.1 The first coastal reclamation fill material Material

4.1 compliance, in line with the size of the block reclamation projects in the dam or cofferdam design requirements, in line with GB 18668 first Marine functional areas of substance use class marine sediment quality requirements for first class coastal reclamation fill material.

4.2.1.2 The second category coastal reclamation fill material Material

4.1 compliance, in line with the size of the block reclamation projects in the dam or cofferdam design requirements, in line with the second GB 18668 Marine functional areas of substance use class marine sediment quality requirements for the second class coastal reclamation fill material.

4.2.1.3 The third coastal reclamation fill material Material

4.1 compliance, in line with the size of the block reclamation projects in the dam or cofferdam design requirements, in line with GB 18668 Third Marine functional areas of substance use class marine sediment quality requirements for the third-class coastal reclamation fill material.

4.2.2 reclamation fill material Material

4.1 compliance, in line with the third substances coastal reclamation fill material composition limits required for the filling material reclamation.