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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JG/T 549-2018

Replacing JG/T 5061.2-1995

**Open end thin-wall sampler
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces JG/T 5061.2-1995 "Open Thin Wall Earth Reader". Major technical changes compared to JG/T 5061.2-1995 as follows.

- Updated the reference standard and adopted the latest domestic technical standards;
- Change the main parameter code to the inner diameter requirement;
- Increased waste soil cylinders;
- Increased the basic parameter slurry area ratio;
- Modified the allowable deviation of the sampling tube size;
- Adjust JG J89 "Technical Standards for Undisturbed Soil Sampling" to JG J/T 87 "Technical Regulations for Geological Exploration and Sampling of Construction Engineering";
- Revised material technical requirements, test methods, inspection rules, marking, packaging, transportation and storage;
- The product replacement standard, storage conditions, factory certificate, environmental protection, resource conservation, durability requirements and other content have been clarified.

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Technical Committee for Engineering Survey and Measurement Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is mainly drafted by. Construction of Comprehensive Investigation and Design Institute Co., Ltd., Shanghai Jinyin Geotechnical Investigation Equipment Co., Ltd.

This standard was drafted. Sinometall Metallurgical Survey and Design Institute Co., Ltd., Changjiang Geotechnical Engineering Corporation (Wuhan), Northwest Comprehensive Survey Design and Research Institute, Hebei Construction Survey and Research Institute Co., Ltd., Architectural Design and Research Institute of Xinjiang Uygur Autonomous Region, North Exploration of China Ordnance Industry Research and Design of Kunming Design and Research Institute Co., Ltd., Central South Survey and Design Institute (Hubei) Co., Ltd. and China Nonferrous Metals Industry Hospital Co., Ltd.

1 Scope

This standard specifies the classification and marking, requirements, test methods, inspection rules and marking, packaging, transportation and storage of open thin wall earth borrows.

This standard is applicable to the use of partial flow plastic, soft plastic, clay, silt, silt grade I quality and flow plastic, soft plastic clay in the borehole.

Earth borrower for Class II quality soil samples.

2 Reference files

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 197 ordinary thread tolerance GB/T 1031 Product Geometric Specifications (GPS) Surface structure profiling surface roughness parameters and their values GB/T 9808 seamless steel pipe for drilling GB/T 12771 stainless steel welded steel pipe for fluid transportation GB/T 14976 stainless steel seamless pipe for fluid transportation GB/T 15519 chemical conversion film steel black oxide film specification and test method GB/T 16950 geological core drilling tools GB 50021 Geotechnical Investigation Specification JG J/T 87 Technical Specifications for Construction Engineering Geological Exploration and Sampling

3 Terms and definitions

The following terms and definitions apply to this document.

Open thin wall earthmoving device openendthin-walsampler the discharge hole passage is open type, the inner diameter is 75mm and 100mm, the area ratio is less than or equal to 10%, and the inner clearance ratio is 0%~ 1.0% linerless earth borrower.

Area ratio the ratio of the outer diameter cross-sectional area of the thin-walled sampling tube to the cross-sectional area of the inner diameter of the cutting edge and the

cross-sectional area of the inner diameter of the cutting edge is expressed as a percentage.

Internal clearance ratio insideclearanceratio the ratio of the difference between the inner diameter of the thin sampling tube and the inner diameter of the cutting edge to the inner diameter of the cutting edge (in percent).

Slurry area ratio areaofdrainageratio the ratio of the minimum cross-sectional area of the open-hole thin-walled earth-moving device to the cross-sectional area of the inner diameter of the sampling tube (in percent).