

Table 1 Abundance of heavy metal elements in the world and Japan (mg/kg)

	Cadmium	Chromium	Mercury	Selenium	Lead	Arsenic	Fluorine	Boron
Average value in the crust	0.2	100	0.08	0.05	13	1.8	625	10
Element content of the continental crust	0.098	185	0.08	0.05	8	1	625	10
Average of the upper crust of the Japanese archipelago	-	84	-	-	16.9	6.5–7.1	-	-
Average of river deposits in Japan	0.158	65.2	0.054	-	23.1	9.32	-	-

Source: Manual for Handling Rocks and Surplus Soils Containing Naturally-occurring Heavy Metals at Construction Sites (tentative version)

Table 2 Structure of the Handbook

<b>Chapter 1 Introduction</b>
1.1 Purpose of the Handbook
1.2 Positioning of surplus soils containing naturally-occurring heavy metals as per the Soil Contamination Countermeasures Act and response actions during construction work
1.3 Procedure of response actions to acidic surplus soils
1.4 Outline of surveys and measures discussed in the Handbook
1.5 Definitions of terms in the Handbook
<b>Chapter 2 Basic Matters</b>
2.1 Kinds and distribution
2.2 Risks
2.3 Handling in construction work
2.4 Positioning in the legal system
<b>Chapter 3 Survey</b>
3.1 Basic concept
3.2 Motivation of survey
3.3 Legal survey
3.4 Voluntary survey
3.5 Survey and planning appropriate for each project stage
3.6 Points to note about surveys
3.7 Indicators and test methods
<b>Chapter 4 Measures</b>
4.1 Basic concept
4.2 Measures in voluntary response
4.3 Prediction of impacts on filling and refilling
4.4 Measures during execution
4.5 Monitoring
4.6 Post-execution management
<b>References</b>