Supplementary material S1:
The content table of the handbook of laws and regulations for environmental volunteers

Environmental Protection Law of the People's Republic of China (2014 Revision) ……1
Measures for the Implementation by Competent Environmental Protection Departments of Consecutive Daily Penalties ……9
Measures for the Implementation of Sealing-up and Impounding by Competent Environmental Protection Departments ……11
Measures for the Implementation by Competent Environmental Protection Departments of Limiting and Halting Production for Remediation ……14
Measures for the Determination and Handling of Falsification in Environmental Monitoring Data ……17
Measures for Public Participation in Environmental Protection ……19
Atmospheric Pollution Prevention and Control Law of the People's Republic of China ……34
Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes ……50
Law of the People's Republic of China on Environmental Impact Assessment……70
Regulations on Environmental Protection of Guizhou Province ……78
Regulations on Promoting Ecological Civilization Construction in Guizhou Province ……88
Regulations on the Water Pollution Prevention and Control in Guizhou Province ……97
Overall Work Plan for the full Implementation of the River Chief System in Guizhou Province ……109
Regulations on the Atmospheric Pollution Prevention and Control in Guizhou Province……114
Regulations on the Water Resources and Environment Protection of Hongfeng Lake and Baihua Lake in Guizhou Province……122
Regulations on the Water Resources and Environment Protection of Aha Reservoir in Guiyang City ……127
Regulations on the Ecological Civilization City Construction in Guiyang City ……131

Supplementary material S2: Classification of training content and observed case examples

Basic training		
Training content	**Forms**	**Participants**
The handbook of laws and regulations for environmental volunteers	Both online and on-site (Multiple times according to the content shown in the content table)	Civilian environmental supervisors, and watershed residents who are interested (sometimes more than 100)
The use of investigation tools: pH test strips, drones, GPS system, reporting apps, etc.	On-site (Repeated teaching until mastered)	Only civilian environmental supervisors (from 1 to 8)
Supplementary training		
Training content		**Forms**
How to understand red-headed official documents (for instance, Guanshanhu District Environmental Protection Supervision and Rectification Leading Group Office Documents; Guanshanhu District River Chief System Office Documents in September 2019)		Online sharing and discussion
The case study of the river chief system and public participation in other cities and provinces (for instance, case study of sewage management in Guangming Village, Longling Industrial Park, Yiyang City in March 2020; case study of emissions from Mohekou Industrial Park in Bengbu, Anhui in June 2020)		Online sharing and discussion
Work programme and investigation checklist (for instance, Water pollution investigation work plan for Xiaowan River Basin in Guanshanhu District, Guiyang City in March 2020; Detailed list of on-site surveys for the pilot project of "Panoramic display of solid waste education and standardized management")		Online sharing, discussion and on-site instruction
How to write daily work report, including monitor data, pollution source statistics, photos, and comparison before and after rectification, etc.		Online sharing, discussion and on-site instruction
Summary of environmental protection work of enterprises in the watershed (for instance, Project work summary of an alumina company in Guizhou in December 2019)		Online sharing, discussion and on-site instruction
The content of enterprise environmental management records and archives		Online sharing and discussion
The latest policy documents and survey reports (for instance, the "Beautiful China I am an Actor" notice in March 2020; the public ecological environment behavior survey report in July 2020)		Online sharing and discussion
Guiyang's achievements in ecological civilization construction		Online sharing and discussion