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Hydrochemical Characteristics and Cause Analysis of Karst Water in Middle and South Shandong Province: Case of Shuangcui Karst Water System

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Abstract: 18 groups of Shuangcui karst water samples were collected in September, 2013. The hydrochemical characteristics of the samples was analyzed, and R factor analysis method was applied to investigate the dominant factor that impacted the chemical composition in this Karst area. According to the results, under the alkaline geochemical background, Mg²⁺, K⁺ and F⁻ in the Karst water was mainly influenced by ion isomorphism in aeration zone from groundwater. Cl⁻, Na⁺, NO₃⁻ and SO₄²⁻ were related to man-made pollution while HCO₃⁻, Ca²⁺ and PH values were impacted by carbon sink. 87.103% of the formation cause of hydrochemical characteristics of the Karst water in Shuangcui water system could be explained by these 3 factors mentioned above.

Key words: cause analysis; chemical characteristics; Karst water

水利部召开 2015 年水文工作视频会议

2015年3月11日,水利部召开2015年水文工作视频会议,全面贯彻落实党的十八大、十八届三中全会、四中全会精神,以新时期治水思路为指引,按照今年政府工作报告要求和全国水利厅局长会议部署,分析当前面临的新形势新任务,概要总结2014年工作,安排部署2015年重点工作。水利部副部长刘宁出席会议并讲话。

刘宁强调,2015年是全面深化改革的关键之年,是全面推进依法治国的开局之年,也是稳增长调结构的紧要之年。水文部门要继续发扬行业精神,以水文重点工作为抓手,努力开创水文事业发展新局面,为民生水利以及经济社会发展提供更加有力支撑。一要立足于防大汛、抗大旱、防强台,全力做好防汛抗旱水文测报工作。二要结合水文事业改革发展新形势新要求,加快推进体制机制创新,进一步强化水文行业管理。三要切实加强水文项目建设管理,中小河流水文监测系统要力争在今年8月底前基本完成建设任务,国家地下水监测工程要抓紧做好各项准备工作。四要不断拓宽水文服务领域,要按照实施最严格水资源管理制度、城乡水生态文明建设的战略部署,不断推进水资源水生态监测和城市水文工作。

刘宁强调,党的十八大以来,党中央高度重视党

风廉政建设。近年来,水文投入显著增加,廉政风险防控任务十分繁重,水文部门要全面落实全国水利系统党风廉政建设工作会议精神,大力推进党风廉政建设。一要贯彻廉政建设责任制,落实领导干部“一岗双责”特别是主要负责同志“第一责任人”职责,做好党风廉政建设责任分解,将压力层层传导到基层水文单位。二要健全廉政风险防控体系,深入学习贯彻《水利行业廉政风险防控手册(水文分册)》,建立健全廉政风险防控体系。三要强化项目建设资金监督管理,加强对招标投标、资金拨付等关键环节的监督,确保资金安全和干部安全。四要公正参与水资源管理考核,增强责任意识和担当意识,为水资源管理监督考核提供准确可靠的数据和成果。

部水文局邓坚局长主持会议并作会议总结。部水文局通报了水文基础设施建设管理和国家地下水监测工程项目建设情况。河北、辽宁、江苏、山东、湖南、青海、长江委等水文部门负责人作了交流发言。

水利部机关有关司局负责人在主会场参加会议。各流域机构、各省(自治区、直辖市)水利(水务)厅(局),新疆生产建设兵团水利局相关负责人以及水文、水保部门负责人在各地分会场参加会议。