



令和6年6月 第93巻 第6号 (第1077号)

「巻頭言」上下水道一体での事業推進に向けて……………	松原 誠……………	(1)
「報文」におい嗅ぎGCを用いた水道水における珪藻由来の 樹脂臭に関する調査と浄水処理の改善……………	仲田 義信 昌田 孝文 阿部 晃也 新井 和秀 二本木 秀……………	(2)
「報文」有機物の水質検査に用いる採水容器としての樹脂容器の 適用可能性の検討……………	渡川 直人 三関 佳晃 荒井 慎 中川 活 金谷 喬……………	(13)
「資料」令和6年度水道施設関係予算の概要……………	国土交通省水管理・国土保全局水道事業課……………	(22)
「資料」令和6年度地方財政の見通しと水道事業……………	総務省自治財政局公営企業経営室……………	(25)
「資料」令和6年度独立行政法人水資源機構予算の概要 ……………	国土交通省水管理・国土保全局水資源部水資源政策課……………	(54)
文 献 抄 録……………		(60)
公平性の観点から見た水道料金滞納手数料と財政支援プログラムの評価……………	梅崎 大陸……………	(60)
持続可能な水管理のための都市水資源の回収の評価： Filton 飛行場のケーススタディ (イギリス)……………	小林 尚貴……………	(62)
ペルフルオロアルキル化合物およびポリフルオロアルキル化合物 (PFAS) を含む 粒状活性炭 (GACs) の再生および賦活化に関する研究の現状……………	上原 佳奈……………	(64)
浄水処理におけるジェオスミン及び2-メチルイソボルネオールの除去……………	三好 太郎……………	(66)
文 献 目 録……………		(69)
新聞情報目録……………		(71)
ニュース……………	(巻頭)	
支部だより……………	(巻頭)	
「会告」日本水道協会第104回総会の 開催について……………	(巻頭)	
「会告」令和6年度 日本水道協会主要行事予定表……………	(巻頭)	
「会告」令和6年度 日本水道協会研修会開催日程案……………	(巻頭)	
「会告」公益社団法人日本水道協会 受信力・情報発信力の強化に向けて……………	(巻頭)	
「お知らせ」水道協会雑誌・水道研究発表会 講演集掲載論文等のJ-STAGE への公開について……………	(巻頭)	
「資料」水道用品検査実績(令和6年3月分)……………		(74)
「公表」JIS製品認証事業の認証……………		(79)
「お知らせ」本協会共催・協賛・後援の行事……………		(80)
「お知らせ」今後開催予定の国際会議……………		(86)
「会告」日本水道協会「水道シニア国際 協力専門家登録制度」のご案内……………		(87)
「会告」日本水道協会 「研修講師登録制度」のご案内……………		(88)
日本水道協会発行図書目録……………		(90)
JWWA (日本水道協会) 規格目録……………		(92)
「会告」法律・経営無料相談のご案内……………		(94)
「お知らせ」今月の新蔵書……………		(95)
水道協会雑誌投稿規程……………		(96)
会誌編集委員会及び抄録委員会委員名簿……………		(99)
編集後記……………		(100)

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Contents

- Implementing the Integrated Approaches to Water and Wastewater Management ...
..... by Makoto MATSUBARA ... (1)
- Investigation of a Resin-like Odorous Compound Found in Drinking Water Derived from Diatoms Using GC-Olfactometry, and Subsequent Improvement of Water Purification Processes ...
..... by Yoshinobu NAKADA, Takayoshi HATA, Akifumi ABE, Kazuya ARAI and Hideharu NIHONGI ... (2)
- A resin-like odor observed in tap water from Kawasaki City was investigated using gas chromatography with an odor-sniffing technique. The study estimated that 1-Hexen-3-one is the causative agent, which originates from diatoms such as the genus *Aulacoseira* found in raw water at the water purification plant. 1-Hexen-3-one was detected in a sample in which *Aulacoseira granulata* var. *angustissima* was mono-cultured from raw water and subsequently the cells were disrupted by ultrasonic waves. Furthermore, the concentration of 1-Hexen-3-one increased due to chlorination. Therefore, it was decided to develop a test method to determine the formation potential of 1-Hexen-3-one as an indicator for monitoring raw water. Regarding the control of odor, 1-Hexen-3-one was confirmed to be removed by powdered activated carbon. It should be noted that 1-Hexen-3-one is likely to be removed equivalently or less compared with 2-methyl-isoborneol.
- Investigation of Applicability of Plastic Bottle as Water Sampling Container for Organic Substances in Water Quality Test ...
..... by Naoto WATANABE, Kasumi KAWAMOTO, Kouichi MIURA, Shinya SEKIKAWA, Katsuhito ARAI, Takahiko NAKAI, Takeshi KANASHIKI, Tetsuya HASEGAWA, Hiroyuki TATEISHI, Miki KIMURA, Hiromi FUJII, Koji KOSAKA and Norihiro KOBAYASHI ... (13)
- We investigated whether plastic bottles could be used as water sampling containers for water quality test items where glass water sampling containers are specified in the testing method of organic substance. In a survey for water utilities, although some water utilities expressed concerns about adsorption and durability, approximately 80% of water utilities wished the use of plastic bottles, indicating that there is a strong need. For the investigation, we used high-density polyethylene (HDPE) bottle, which have high availability and chemical resistance and are used as water sampling containers for water quality testing for inorganic substances. In a comparative test using samples in which the target substance was added to tap water, we confirmed that TOC, formaldehyde, phenols, and haloacetic acids were comparable to glass bottles. However, in a carryover test targeting formaldehyde and phenols, carryover was observed in phenols when HDPE bottles were used. Additionally, during the investigation, we confirmed that the acetone cleaning specified in the testing methods for formaldehyde and phenols is not necessarily necessary when using glass bottles. Based on the above results, we made a proposal to the Ministry of Health, Labor and Welfare's Water Quality Testing Method Review Committee to revise the testing methods.
- Abstracts of Foreign References (60)
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