1. Record Nr. UNINA9910466893403321 Autore Brett Michael T. Titolo The bioavailable phosphorus (BAP) fraction in effluent from advanced secondary and tertiary treatment / / by Michael T. Brett, Bo Li, University of Washington Pubbl/distr/stampa Alexandria, Virginia:,: Water Environment Research Foundation,, 2015 ©2015 **ISBN** 1-78040-555-3 Descrizione fisica 1 online resource (100 p.) Disciplina 546.712 Soggetti **Phosphorus** Water quality bioassay Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. ""Cover""; ""Copyright""; ""Acknowledgments""; ""Abstract and Benefits""; Nota di contenuto ""Table of Contents""; ""List of Tables""; ""List of Figures""; ""List of Acronyms and Abbreviations"; ""Executive Summary""; ""Chapter 1.0: Introduction""; ""1.1 Introduction""; ""1.2 Objectives""; ""Chapter 2.0: Materials and Methods""; ""2.1 Plant Information""; ""2.2 Sampling""; ""2.2.1 Sample Collection""; ""2.2.2 Sample Characterization""; ""2.3 QA/QC""; ""2.3.1 Quality Control Procedures""; ""2.3.2 Quality Assessment Procedures""; ""Chapter 3.0: Impact of Filter Size and Autoclaving"" ""3.1 Comparison of Filter Size"""3.2 Comparison of Autoclaved and Filtered BAP""; ""Chapter 4.0: P Speciation and BAP in EBPR Effluents with No Chemical Addition""; ""4.1 Introduction""; ""4.2 Results""; ""4.2.1 Coeur d'Alene - Membrane Bioreactor (CDA-MBR)""; ""4.2.2 North Durham Water Reclamation Facility (NDWRF)""; ""4.2.3 Snoqualmie Wastewater Reclamation Facility (SWRF)""; ""4.3 Discussion""; ""Chapter 5.0: P Speciation and BAP in MBR Effluents with Chemical Addition""; ""5.1 Introduction""; ""5.2 Results""; ""5.2.1 Broad

Run Water Reclamation Facility (BRWRF)""

""5.2.2 Ruidoso Village Regional Wastewater Treatment Plant

(RVRWTP)"""5.3 Discussion""; ""Chapter 6.0: P Speciation and BAP in Single-Stage Tertiary Effluents with Chemical Addition""; ""6.1 Introduction""; ""6.2 Results""; ""6.2.1 South Durham Water Reclamation Facility (SDWRF)""; ""6.2.2 Coeur d'Alene-Tertiary Membrane Filter (CDA-TMF)""; ""6.2.3 Metropolitan Syracuse Wastewater Treatment Plant (MSWTP)""; ""6.2.4 Blue Plains Advanced Wastewater Treatment Plant (BPAWTP)""; ""6.2.5 Hayden First-Stage BlueWater PRO® Effluent (HWRF-1st BW)""

""6.2.6 City of Las Vegas Water Pollution Control Facility (LVWPCF)""" 6.3 Comparisons""; ""Chapter 7.0: P Speciation and BAP in Dual-Stage Tertiary Effluents with Chemical Addition"; ""7.1 Introduction"; ""7.2 Dual-Stage Filtration Process""; ""7.2.1 Rock Creek Wastewater Treatment Plant (RCWTP)""; ""7.2.2 Durham Advanced Wastewater Treatment Plant (DAWTP)""; ""7.2.3 Iowa Hill Wastewater Treatment Plant (IHWTP)""; ""7.2.4 Coeur d'Alene-Blue PRO® (CDA-CUMF)""; ""7.2.5 Hayden Second-Stage BlueWater PRO® Effluent (HWRF-2nd BW)""; ""7.2.6 Farmers Korner Wastewater Treatment Plant (FKWTP)"" ""7.3 Discussion""""Chapter 8.0: Impact of Advanced P Removal Process""; ""8.1 Impact of Different P Removal Processes""; ""8.2 Impact of Chemical Addition""; ""Chapter 9.0: Comparison of Chemical Analysis and Bioassay Outcomes""; ""9.1 Introduction""; ""9.2 Results""; ""9.2.1 tBAP vs. TP and TRP""; ""9.2.2 sBAP vs. SP and SRP""; ""Chapter 10.0: Bioavailability of Different P Species"; ""10.1 Introduction""; ""10.2 Materials and Methods""; ""10.3 Results""; ""10.3.1 Inorganic P Compounds""; ""10.3.2 Organic P compounds""; ""10.3.3 Humic Substances""; ""10.3.4 SP Uptake Rate Experiments"" ""10.4 Discussion""