1. Record Nr. UNINA9910798561603321

Titolo	Operation of nutrient removal facilities / / Water Environment Federation
Pubbl/distr/stampa	Alexandria, Virginia : , : Water Environment Federation, , 2013
ISBN	1-57278-299-4 1-5231-0303-5
Descrizione fisica	1 online resource (xlvi, 591 pages) : illustrations
Collana	WEF manual of practice ; ; Number 37
Disciplina	628.166
Soggetti	Sewage - Purification - Nutrient removal Sewage disposal plants - Management Sewage lagoons - Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Prepared by the Operation of Nutrient Removal Facilities Task Force of the Water Environment Federation."--Title page verso.
Nota di contenuto	Wastewater consitutents that affect nutrient removal -- Nitrification -- Nitrification in biofilm reactors -- Denitrification -- Combined nitrifiying and denitrifying systems -- Enhanced biological phosphorus removal -- Chemical precipitation of phosphorus -- Enhanced biological phosphorus removal systems -- Combined nitrogen and phosphorus removal processes -- Optimization of nutrient removal systems -- Recycle streams management -- Process control using oxidation-reduction potential and dissolved oxygen -- Process control, instrumentation, and automation -- Laboratory analyses -- Case studies-Nitrification and denitrification -- Case studies-Enhanced biological phosphorus removal -- Appendix A: Optimization and troubleshooting guides.
Sommario/riassunto	This manual is for plant managers, operators, design engineers, and regulators looking to gain a better understanding of fundamental biological and chemical processes that are in use at nutrient removal facilities and the ways that operators may use, monitor, and control these processes to meet their facility's treatment goal.