



ENVIRONMENTAL ENGINEERING

MASc Theses

Current as of May 2007

YEAR	THESIS TITLE	AUTHOR	SUPERVISOR(S)
2006	Interaction of Dissolved Soil Organic Matters and Pesticide Endosulfan and its Metabolite Endosulfan Sulfate	Chowdhury , R.	L. Li/J. Atwater
2006	Applications of Microwave Technology to Wastewater Treatment	Wong, W. T.	D. Mavinic/V. Lo
2005	Characterization of NOM in Water and the Effects of Ozonation on the NOM and Chlorinated DBPs	Chowdhury, F. L.	P. Berube/M. Mohseni
2005	Assessment of On-site Sewage Disposal System Impacts to Ground and Surface Waters in an Unconfined Aquifer	Goble, H. M.	K. Hall
2005	Laboratory Study of Coating Method to Prevent ARD Generation	Jia, W.	L. Li
2005	Impact of Hydrodynamic Conditions and Membrane Configuration on the Permeate Flux in Submerged Membrane Systems for Drinking Water Treatment	Lei, X. E.	P. Berube
2004	Toxicity of Anionic Surfactants in a Primary Effluent: Identification, Characterization and Removal	Bradley, J. C.	P. Berube
2004	Pilot Scale Struvite Recovery Potential from Centrate at Lulu Island Wastewater Treatment Plant	Fattah, K.	D. Mavinic
2004	Process Optimization of a Technical Scale Phosphorus Recovery System Through Struvite Crystallization at the City of Penticton Advanced Wastewater Treatment Plant	Forrest, A.	D. Mavinic
2004	Application of the Dynamic One-dimensional Model to Pulp and Paper Mill Wastewater Clarifiers	Lo, I-W	E. Hall
2004	Sequencing of p53 genes from Mytilus edulis and Mytilus Trossulus for use in Environmental Effects Monitoring of Primary Treated Effluent	Muttray, A.	E. Hall
2004	Modelling of Membrane Enhanced Biological Phosphorus Removal: Determining Model Parameters	Zhang, Z.	E. Hall
2003	Membrane Bioreactor Treating Kraft Evaporator Condensate at a High Temperature Under Different Operational Conditions and Turpentine Shockloads	Alsuliman, A.	E. Hall
2003	Modelling Carbon Oxidation in Pulp Mill Activated Sludge Systems: Calibration of ASM3	Baranao, P. A.	E. Hall
2003	Evaluation of the Removal of Disinfection By-Product Precursors with Ozone, UV and the Advanced Oxidation Process Ozone-UV	Chin, A.	D. Mavinic/P. Berube
2003	Pilot Scale Phosphorus Recovery from Anaerobic Digester Supernatant	Huang, H.	D. Mavinic
2003	Assessing the Impact of Corrosion Control and Increased Dissolved Oxygen Levels on GVRD Member Municipality Distribution and Premise Plumbing Systems	Knox, G. F.	D. Mavinic
2002	The Impact of Agricultural Land Uses on Water and Sediment Quality in the Agassiz/Harrison Hot Springs Water Shed, BC	Addah, J.	K. Hall

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2002	Pilot-scale Study of Phosphorus Recovery through Struvite Crystallization	Adnan, A.	D. Mavinic
2002	Pilot-scale Struvite Recovery Trials from a Full Scale Anaerobic Digester Supernatant at the City of Penticton Advanced Wastewater Treatment Plant	Britton, A.	D. Mavinic
2002	High Temp. Membrane Bioreactor Treating Kraft Evap. Condensate under Steady & Transient Conditions	Jen, R-C	Hall
2002	The efficiency of ultrafiltration membranes at removing TOC and THMFP in a British Columbia surface water	Kenway, S. E.	D. Mavinic/E. Hall
2002	Mobility of lead in the roadside soils of the 176th street and Transcanada Interchange, Surrey, BC	Lee, N.	K. Hall/Lavkulich
2002	Natural Attenuation of Aqueous Zinc in Shallow Soils over Permafrost Downslope of Galenko 300 Mine Adit. United Keno Mill Mines, Central Yukon	MacGregor, D. B.	L. Li
2002	The Effectiveness of Constructed Wetlands for Treatment of Woodwaste Leachate	Masbough, A.	K. Hall
2001	Investigation into the factors affecting controlled Struvite Crystallization at the Bench-Scale	Dastur, M. B.	D. Mavinic
2001	Changes in Aerobic Digester Performance with the Use of Methanol for Biological Nutrient Removal (BNR) in a Full-Scale Sequencing Batch Reactor (SBR)	Koh, J. J. H.	D. Mavinic/W. Oldham
2000	A Greenhouse Gas Analysis of Solid Waste Management in the Greater Vancouver Regional District	Barton, P. K.	J. Atwater
2000	Immobilization of SR13 on Different Support Media	Basu, O.	S. Baldwin/J. Atwater
2000	The Effect of Biofilm on the Formation in Chlorinated Drinking Water of a PVC Pipe Distribution System	Chan, K. C. W.	D.S. Mavinic
2000	The Vancouver Landfill - Final Closure Strategy	Foisy, J. J.	J. Atwater
2000	The Treatment of Wood Leachate Using Constructed Wetlands	Frankowski, K.	K. Hall
2000	Analysis of Laboratory Scale Aerated Basin Using Computational Techniques	Jenkinson, R. W.	E. Hall/G. Lawrence
2000	Methanol Induced Biological Nutrient Removal in a Full-Scale Sequencing Batch Reactor	Louzeiro, N.	D. Mavinic/W. Oldham
2000	The Effects of One Year of Fertilization on the Primary Productivity of the Arrow Reservoir	Roushorne, M. E.	K. Hall
2000	Post-Earthquake Solid Waste Management Strategy	Wojtarowicz, M.	J. Atwater
1999	The Hydraulic Conductivity and Adsorptivity of Clay Barrier Materials Containing Organoclay	Denham, W.	L. Li
1999	Fixed-film Fermentation of Wastewater and its Effect on BNR Plant Performance	Doucette, D.	D. Mavinic
1999	Biological Nitrification and Denitrification of High Ammonia Landfill Leachate using Pre- & Post-Denitrification Systems & Methanol as Supplementary Source of Organic Carbon	Ilies, P.	D. Mavinic
1999	Heavy Metal Sorption and Hydraulic Conductivity Studies using Three Types of Bentonite Admixes	Lia, F.	L. Li

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1999	Optimization of VFA Production in an Atad Reactor with respect to Aeration Rates and Removal of Phosphorus, incorporating a MAP Crystallizer from the Atad Supernatant	Sharma, A.	D. Mavinic
1998	Biofermentation of Primary Domestic Effluent with Attached Growth	Dumitrescu, A.	D. Mavinic/R. Barnard
1998	The Impact of Urbanization on Stream Habitat in Lower Mainland BC	Finkenbine, J.	J. Atwater/D. Mavinic
1998	Denitrification in the Abbotsford Aquifer and the Influence of a Stream Environment	Laretei, K.	J. Atwater
1998	A Toxicological and Chemical Analysis of Agricultural Runoff Entering the Nicomekl River Surrey, BC Throughout One Growing Season	McLeay, M.	K. Hall
1998	Parallel Treatment of a Minimum Effluent TMP-Newsprint Whitewater by Aerobic Membrane Biological Treatment and Ultrafiltration at 55o C.	Ragona, C. S. F.	E. Hall
1998	The Application of Semipermeable Divices to the Detection and Monitoring of 4-Nonylphenol in Aquatic Systems	Suffredine, L. J.	E. Hall
1998	Spawning Gravel Quality within the Coquitlam River. Potential Impacts from Gravel Pit Mining	Uren, S.	J. Atwater/D. Mavinic
1997	Internal Corrosion Control Using Zinc Orthophosphate, pH and Alkalinity Adjustment	Churchill, D.	D. Mavinic
1997	Water and Sustainability in the Lower Fraser Basin	McLean, B.	J. Atwater/J. Robinson
1997	Modelling Carbon Oxidation in Pulp Mill Activated Sludge Systems: Determining Model Parameters	Stanyer, D. J.	E. Hall
1997	Phosphorus Release from a Slow-Release Fertilizer Under Simulated Stream Conditions	Sterling, M.	K. Hall
1996	Phosphorous Removal and Flow Maximization in the Kamloops Rapid Infiltration System	Bakker, S. G.	J. Atwater/W. Oldham
1996	The Design of a Zero Effluent Discharge System for Westcoast Energy Inc.'s Fort Nelson Gas Plant	Bechtold, J. P.	J. Atwater
1996	The Effect of Primary and Secondary Sludge Mix Ratios on Volatile Fatty Acid Production in Themophilic Aerobic Digestion Using Pilot Scale ATAD Units	Fothergill, S.	D. Mavinic
1996	Aerobic Membrane Biological Reactor Treatment of Recirculated Mechanical Newsprint Whitewater at High Temperature	Tardif, O.	E. Hall