

KWQM Article Index

KEYSTONE WATER QUALITY MANAGER

A

activated biofilter

The Risks of Accepting Uncertain Technology: A Case Study — Lagnese, Joseph, Jr.; Nov-Dec 2000; p. 26

activated sludge

Control of Filamentous Bulking in a Complete-Mix Act. Sludge Process Treating High-Strength Industrial Wastewater — Adey, Alfred et al; Nov-Dec 1997; p. 25

Measurement of Diurnal Variations in BNR Systems — Koloras, August et al; July-August 1998; p. 9

Calculating Metal Removal Efficiencies — Leininger, Kurt; Jan-Feb 1998; p. 32

Effect of Treatment Processes Wastewater Temperature: University Area Joint Authority Treatment Facility — Smith, David et al; July-August 1999; p. 10

Achieving Biological Nutrient Removal with Activated Sludge — Deeny, Kevin; Apr-Jun 2008; p. 12

ag use

Biosolids 2000 - Pennsylvania Progress and Problems — Toffey, William; May-June 1997; p. 22

Biosolids 2000: Public Acceptance of Biosolids Recycling — Machno, Peter et al; Sept-Oct 1997; p. 12

Sludge Forum: Called to Testify — Snyder, Jay; May-June 1998; p. 39

Biosolids Case Study – ALCOSAN — Shanan, Carole; Jan-Feb 2000; p. 12

Critical Commentary on Part 503: A Review — Elliott, Herschel; May-June 2000; p. 12

agriculture

Non-Point Sources - Agricultural and Forests — Lewis, Barry; July-August 1997; p. 10

anaerobic digestion

Egg-Shaped Digester: New Technology Works for Small Communities — Smith, Russell; July-August 2000; p. 16

Economics of Anaerobic Sludge Digestion in Cylindrical Digesters at Joint Water Pollution Control Plant — Freiss, Philip et al; Nov-Dec 2001; p. 22

area/velocity flow meter

Quality Assurance/Quality Control Aspects of Using a Submersible Area/Velocity Probe for Metering Combined Sewer Overflows — Drnach, Joseph A.; Oct-Nov-Dec 2006; p. 12

Are Your Open-Channel Meters Accurate? — Cantwell, Jeff J.; Jan-Mar 2007; p. 12

automatic controls

Here Come the Robots — Nelson, Mike; Jul-Sep 2008; p. 29

Here Come the Robots Part 3 — Nelson, Mike; Jan-Sep 2009; p. 24

B

biochemical oxygen demand

Using an HBOD Probe to Measure Biochemical Oxygen Demands of Wastewaters — Booki, Min et al; July-Aug 2001; p. 24

biological nutrient removal (BNR)

Achieving Biological Nutrient Removal with Activated Sludge — Deeny, Kevin; Apr-Jun 2008; p. 12

Biological Nutrient Removal: A Primer for Pennsylvania Municipalities — Part II — Shope, Dale C; Jan-Feb-Mar 2006; p. 14

Combining Existing Trickling Filter Treatment with Nitrogen Removal Technology: Optimizing a Modified Single Sludge Nitrification-Denitrification System — Kardohehly, Stephanie L et al; Jan-Feb 2001; p. 28

Measurement of Diurnal Variations in BNR Systems — Koloras, August et al; July-August 1998; p. 9

Sludge Production from Biological Excess Phosphorus Removal — Heerbrandt, Paul, III et al; Sept-Oct 1997; p. 21

Meeting Chesapeake Bay Nutrient Requirements with an Older SBR — Bluge, Joseph A.; Apr-Jun 2008; p. 17

Nutrient Reductions for Sewage Treatment Facilities in the Chesapeake Bay Watershed — Young, Carol A. and Hugh V. Archer; Jan-Mar 2008; p. 39

Meeting the Chesapeake Bay Strategy at an Affordable Cost — Hill, Bill et al; Apr-Jun 2008; p. 52

Enhancing the Performance of Oxidation Ditches — Moore, Larry W.; Jul-Sep 2008; p. 16

biosolids

Biosolids 2000: Public Acceptance of Biosolids Recycling — Machno, Peter et al; Sept-Oct 1997; p. 12

Wastewater Solids Conditioning Prior to Digestion — Garvey, Diane; Apr-Jun 2008; p. 61

National Biosolids Conference Focuses on Climate Change — Garvey, Diane; Jul-Sep 2008; p. 25

Biosolids Managers Collaborate on Public Outreach Efforts — Garvey, Diane; Jul-Sep 2009; p. 29

blending

Regulatory Perspective — We Need a Blending Policy — Wheatley, Nancy, Matthews, Bob, Vargas, Mel; Jan-Feb 2004; p. 14.

EPA Sewage Treatment Blending Policy Draft: Why All the Commotion? — Lusardi, Peter; Mar-Apr 2004; p. 20.

brownfields

Superfund and Brownfields Initiatives — Cleaning Up Contaminated Sites — Reuther, Chris; Nov-Dec 1998; p. 26

bulking

Control of Filamentous Bulking in a Complete-Mix Act. Sludge Process Treating High-Strength Industrial Wastewater — Adey, Alfred et al, Nov-Dec 1997; p. 25

C

carbon credits

National Biosolids Conference Focuses on Climate Change — Garvey, Diane; Jul-Sep 2008; p. 25

carbon sources

The Importance of QA/QC — Brough, Lindsey; Jan-Mar 2008; p. 34

Chesapeake Bay

DEP Leaves Many Questions Unanswered Regarding Nutrient Reduction Strategy for the Chesapeake — Lusardi, Peter J., Reese, Jodi R.; May-June 2005; p. 13

What Would It Take to Clean Up the Bay by 2010? — Fahrenthold, David A., Washington Post Staff Writer; Apr-June 2007; p. 21

Meeting Chesapeake Bay Nutrient Requirements with an Older SBR — Bluge, Joseph A.; Apr-Jun 2008; p. 17

Nutrient Reductions for Sewage Treatment Facilities in the Chesapeake Bay Watershed — Young, Carol A. and Hugh V. Archer; Jan-Mar 2008; p. 39

chlorine

Coping With Chlorine: Understanding and Investigating Effluent Limits for Total Residual Chlorine — Hurst, Randy; Jan-Feb 1997; p. 35

Should I Measure "Free Chlorine" or "Total Chlorine" Residual — McCulloch, Gavin; Mar-Apr 2005; p. 14

Clean Air Act

Air, Water, and Methyl tertiary-Butyl Ether: An Environmental Balancing Act — Wall, Roland; July-Aug 2001; p. 14

Clean Water Act

Effect of POTW Effluent Discharges on Copper in Receiving Water — Shi. Bo et al; Mar-Apr 1997; p. 10

Environmental Regulations: Is the System Working? Does It Need to be Changed? — Lewis, Barry; Sept-Oct 1998; p. 10

Regulatory reform and the Clean Water Act — Lewis, Barry; July-August 1998; p. 20

Improving TMDLs — Larson, Wendy L.; Mar-Apr 2004; p. 14

Clean Water Act Thirty Years Later — Part 3 — Wall, Roland; Jul-Aug 2004; p. 14

collection system

Pollution Prevention in Philadelphia: Sealing With Illicit/Defective Laterals — Holst, Arthur; Sept-Oct 1999; p. 41

Wastewater Collection System Preventive Maintenance Planning — Cupp, Barry; Nov-Dec 1999; p. 10

Combined Sewer Overflows in Pennsylvania: An Opportunity or a Time Bomb? — Strehl, Charles; Nov-Dec 1999; p. 16

Flow Measurement in Collection Systems — Cantwell, Jeff J.; Nov-Dec 2004; p. 24

Collection Systems — Asset or Liability — Strauch, Joseph A., Wetzel, Dawn M.; Sept-Oct 2005; p. 22

Combine Sewer Overflow System: Facing the Looming Crisis — Ross, Erik A.; Apr-May-June 2006; p. 12

composting

An Investigation of the Effects of Mixing on In-Vessel Composting in an Advanced life Support System — Nordai, William et al; Mar-Apr 2000; p. 10

conservation

Pollution Prevention is Everyone's Responsibility — Lewis, Barry; Nov-Dec 1997; p. 15

Involving Employees in Environmental Enhancement of Water/Wastewater Treatment Plants — Holst, Arthur M.; Sept-Oct 2001; p. 16

Water Demand or Demanding Water? Hertz, Greg; Jan-Mar 2008; p. 23

construction

"NIMBY" Need Not Be a Problem for Today's Community Friendly Facilities — Maxwell, Lauren E.; Mar-Apr 2002; p. 20

control logic

When Logic Gets Fuzzy — Perez, Robert X., Pumps & Systems; Oct-Dec 2007; p. 14

copper

Effect of POTW Effluent Discharges on Copper in Receiving Water — Shi. Bo et al; Mar-Apr 1997; p. 10

CSO

Combined Sewer Overflows in Pennsylvania: An Opportunity or a Time Bomb? — Strehl, Charles; Nov-Dec 1999; p. 16

Combined Sewer Overflow Control Planning in Pennsylvania — Horst, William et al; July-August 1999; p. 26

SSO Rule and CMOM Program At A Glance — Kishpaugh, Scott G.; Mar-Apr 2002; p. 12

A Lack of Coordination — Hall, John C., Cohen, Gary B., Hall, William T.; May-June 2002; p. 14

Combine Sewer Overflow System: Facing the Looming Crisis — Ross, Erik A.; Apr-May-June 2006; p. 12

Quality Assurance/Quality Control Aspects of Using a Submersible Area/Velocity Probe for Metering Combined Sewer Overflows — Drnach, Joseph A.; Oct-Nov-Dec 2006 p. 12

Are Your Open-Channel Meters Accurate? — Cantwell, Jeff J.; Jan-Mar 2007; p. 12

D

decentralized systems

Decentralized Wastewater Management: The Pennsylvania Model — Archer, Hugh V.; Nov-Dec 2005; p. 14

Nitrogen Reduction & the Small Flow Treatment Facility — Archer, Hugh V.; Jul-Aug-Sept 2006; p. 12

dechlorination

Reduction of Total Chlorine Residual Discharge from WWTP Using Innovative Design Techniques — Book, Brian et al; Jan-Feb 1997; p. 27

denitrification

Combining Existing Trickling Filter Treatment with Nitrogen Removal Technology: Optimizing a Modified Single Sludge Nitrification-Denitrification System — Kardohely, Stephanie L et al; Jan-Feb 2001; p. 28

Successful Nitrogen Removal Through Modified Sequencing Batch Reactor Technology — Kauffman, Robert L.; Sept-Oct 2004, p. 14

deregulation

Deregulation of the Electric Industry is About Much More Than Cost — Lewis, Barry; Jan-Feb 1998; p. 19

disinfection

Reduction of Total Chlorine Residual Discharge from WWTP Using Innovative Design Techniques — Book, Brian et al; Jan-Feb 1997; p. 27

Heterogeneous Photocatalysis: A New Process for Water and Wastewater Disinfection — Thornton, Hilary et al; Sept-Oct 1998; p. 31

DMR

The Importance of DMRs in the NPDES Program — Lloyd, Norman; May-June 1998; p. 41

E

effluent guidelines

2008 Effluent Guidelines Program Plan — Musselman, Judy; Jan-Mar 2009; p. 29

electrical controls

Application Considerations for Control Enclosures in Water and Wastewater Treatment Plants — Marrano, Steven; July-Aug 2000; p. 30

electricity

Deregulation of the Electric Industry is About Much More Than Cost — Lewis, Barry; Jan-Feb 1998; p. 19

erosion

Non-Point Sources - Agricultural and Forests — Lewis, Barry; July-Aug 1997; p. 10

Non-Point Sources - Lifestyle Decisions — Lewis, Barry; July-Aug 1997; p. 18

Pollution and Our Waterways — You'd Be Surprised at the Sources — Lewis, Barry; Mar-Apr 1998; p. 10

ethics

It's the Engineers' Turn — Hurst, Randy; Apr-Jun 2009; p. 29

F

filtration

Gravity Downflow Filtration Using Crumb Rubber Media for Tertiary Wastewater Filtration — Graf, Chris et al; Nov-Dec 2000; p. 12

fish kill

Microscopic Murderer: Pollution May Be Motivating Pfiesteria to Kill Fish by the Thousands — Reuther, Chris; May-June 1999; p. 10

flow metering

Flow Measurement in Collection Systems — Cantwell, Jeff J.; Nov-Dec 2004, p. 24

Quality Assurance/Quality Control Aspects of Using a Submersible Area/Velocity Probe for Metering Combined Sewer Overflows — Drnach, Joseph A.; Oct-Nov-Dec 2006; p. 12

Are Your Open-Channel Meters Accurate? — Cantwell, Jeff J.; Jan-Mar 2007; p. 12

funding

American Recovery and Reinvestment Act (Federal Stimulus) — Ross, Erik and Jennifer Hass; Jul-Sep 2009; p. 27

G

gas wells

Marcellus Shale Gas Well Operations Impact on Pretreatment Programs — Musselman, Judy; Jul-Sep 2009; p. 20

H

hailed waste

Hauled Waste and Its Industrial Pretreatment Implementations — Musselman, Judy F.; Apr-Jun 2008; p. 19

I

industrial waste

Meeting Industrial Discharge Compliance Limits with Constructed Wetland Treatment Systems — Mahoney-Goodrich, J.W.; Mar-Apr 1997; p. 22

Hauled Waste and Its Industrial Pretreatment Implementations — Musselman, Judy F.; Apr-Jun 2008; p. 19

Effluent Guidelines Under Development — Musselman, Judy F.; Apr-Jun 2008; p. 23

Solving the Effluent Aluminum Problem at a Concrete Products Company: Industrial, Municipal, and Regulatory Personnel Collaborate in Problem Solving Efforts for the Common Good — Goldblatt, Mikel; April-Jun 2009; p. 14

infiltration/inflow

Combined Sewer Overflow Control Planning in Pennsylvania — Horst, William et al; July-Aug 1999; p. 26

Pollution Prevention in Philadelphia: Sealing With Illicit/Defective Laterals — Holst, Arthur; Sept-Oct 1999; p. 41

Wastewater Collection System Preventive Maintenance Planning — Cupp, Barry; Nov-Dec 1999; p. 10

Combined Sewer Overflows in Pennsylvania: An Opportunity or a Time Bomb? — Strehl, Charles; Nov-Dec 1999; p. 16

SSO Rule and CMOM Program At A Glance — Kishpaugh, Scott G.; Mar-Apr 2002; p. 12

IRRC

A Comprehensive Analysis of the Regulatory Process — Holst, Arthur; Nov-Dec 1998; p. 10

L

laterals

Pollution Prevention in Philadelphia: Sealing With Illicit/Defective Laterals — Holst, Arthur; Sept-Oct 1999; p. 41

leadership

Leading your Leaders: A Bottom-Up Approach — Ross, Berry A; Jan-Mar 2008; p. 12

legislation

A Comprehensive Analysis of the Regulatory Process — Holst, Arthur; Nov-Dec 1998; p. 10

liability

A Truly Unique Profession, Revisited — Hurst, Randy; Jul-Sep 2008; p. 35

lime

Evaluation of Two Methods for Lime Stabilization of Biosolids — Harrison, Karen; Mar-Apr 1996; p. 56

The Influence of Lime Dose on the Destruction of Viable *Ascaris* sp. Ova in Lime-Stabilized Biosolids — Furjanic, Sean et al; Jan-Feb 1999; p. 40

local limits

Calculating Metal Removal Efficiencies — Leininger, Kurt; Jan-Feb 1998; p. 32

M

maintenance

Wastewater Collection System Preventive Maintenance Planning — Cupp, Barry; Nov-Dec 1999; p. 10

An Alternative Solution: Diving in a Wastewater Treatment Plant — Jones, Thomas; Nov-Dec 2001; p. 12

Where's Your Peppermint Patty? — Hertz, Greg; Apr-Jun 2009; p. 27

management

Industry Challenges Require Cooperation, Not Conflict — Ross, Erik A.; July-Sept 2007; p. 14

Klew Less Learns about Delegation — Nelson, Mike; Apr-Jun 2009; p. 23

Klew Less Learns about Micromanagement — Nelson, Mike; Jul-Sep 2009; p. 35

Refocusing on Security, Emergency Response Planning and Potential Liability — Ross, Erik A. and Carl R. Shultz, Esq.; July-Sept 2007 p. 17

Marcellus Shale

Marcellus Shale Gas Well Operations Impact on Pretreatment Programs — Musselman, Judy; Jul-Sep 2009; p. 20

MBR

Achieving Biological Nutrient Removal with Activated Sludge — Deeny, Kevin; Apr-Jun 2008; p. 12

media

Gravity Downflow Filtration Using Crumb Rubber Media for Tertiary Wastewater Filtration — Graf, Chris et al; Nov-Dec 2000; p. 12

metals

Meeting Industrial Discharge Compliance Limits with Constructed Wetland Treatment Systems; Mahoney-Goodrich, J.W.; Mar-Apr 1997; p. 22

Calculating Metal Removal Efficiencies — Leininger, Kurt; Jan-Feb 1998; p. 32

In-Line Treatment of Metal Contaminated Storm Water with a Porous Polymer — Kliem, John, et al; Nov-Dec 1998; p. 34

Growing Cleaner: Phytoremediation Goes Commercial But Many Questions Remain — Reuther, Chris; Jan-Feb 1999; p. 22

N

nitrification

Combining Existing Trickling Filter Treatment with Nitrogen Removal Technology: Optimizing a Modified Single Sludge Nitrification-Denitrification System — Kardohely, Stephanie L et al; Jan-Feb 2001; p. 28

non-point pollution

Non-Point Sources - Agricultural and Forests — Lewis, Barry; July-Aug 1997; p. 10

Control of Stormwater Runoff and Its Effect on Non-Point Source Pollution — Knoebel, Timothy; July-Aug 1997; p. 29

Non-Point Sources - Lifestyle Decisions — Lewis, Barry; July-Aug 1997; p. 18

Prevention is Everyone's Responsibility — Lewis, Barry; Nov-Dec 1997; p. 15

Pollution and Our Waterways — You'd Be Surprised at the Sources — Lewis, Barry; Mar-Apr 1998; p. 10

Lehigh River Electronic Probe Study Reveals Daily and Seasonal Biological Cycles — Parkland High School; Mar-Apr 1998; p. 32

The Chemical Ecology of Tom's Run — Kokolis, Ellie; May-June 1998; p. 16

Parkland High School's Lehigh River Watch Hydrolab Probe Study in Its Second Year — Parkland High School; Sept-Oct 1999; p. 13

Involving Employees in Environmental Enhancement of Water/Wastewater Treatment Plants — Holst, Arthur M.; Sept-Oct 2001; p. 16

NPDES

The Importance of DMRs in the NPDES Program — Lloyd, Norman; May-June 1998; p. 41

Much Ado About Not Too Much: DEP Amends (Slightly) Its NPDES Regulations — Hurst, Randall G.; Mar-Apr 2001; p. 14

The New DEP Water Quality Regulations — Part II: Changed Water Quality Criteria Increase Costs and Risks for Some Permittees — Hurst, Randall G.; May-June 2001; p. 12

DEP NPDES Permitting Discretion Not Unbridled—EHB Agrees — Cohen, Gary B., Hall, John C.; July-Aug 2002; p. 24

Hauled Waste and Its Industrial Pretreatment Implementations — Musselman, Judy F.; Apr-Jun 2008; p. 19

nutrients

"Nutrient Trading " Part 1: Harnessing Commerce as a Tool to Control Water Pollution — Wall, Roland; Jan-Feb 2005; p. 14

DEP Leaves Many Questions Unanswered Regarding Nutrient Reduction Strategy for the Chesapeake — Lusardi, Peter J., Reese, Jodi R.; May-June 2005; p. 13

Biological Nutrient Removal: A Primer for Pennsylvania Municipalities — Part II — Shope, Dale C; Jan-Feb-Mar 2006; p. 14

Nitrogen Reduction & the Small Flow Treatment Facility — Archer, Hugh V.; Jul-Aug-Sept 2006; p. 12

Numeric Nutrient Stream Criteria — Archer, Hugh; Jul-Sep 2009; p. 25

nutrient trading

"Nutrient Trading " Part 1: Harnessing Commerce as a Tool to Control Water Pollution — Wall, Roland; Jan-Feb 2005; p. 14

Nutrient Reductions for Sewage Treatment Facilities in the Chesapeake Bay Watershed — Young, Carol A. and Hugh V. Archer; Jan-Mar 2008; p. 39

O

operator certification

Are you Certified? — Hurst, Randy; Jan-Mar 2009; p. 21

Licensing Wastewater Operators in PA: An Educational Project — Fields, Jenifer; Apr-Jun; p. 25

operating cost

It's Time Municipalities Re-Think How They Privatize — LaChance, Peter; Sept-Oct 2000; p. 24

oxidation ditches

Enhancing the Performance of Oxidation Ditches — Moore, Larry W.; Jul-Sep 2008; p. 16

P

pfisteria

Microscopic Murderer: Pollution May Be Motivating Pfiesteria to Kill Fish by the Thousands — Reuther, Chris; May-June 1999; p. 10

pharmaceuticals

Pharmaceuticals Management — Musselman, Judy; Apr-Jun 2009; p. 31

phosphorus

Sludge Production from Biological Excess Phosphorus Removal — Heerbrandt, Paul, III et al; Sept-Oct 1997; p. 21

photocatalysis

Heterogeneous Photocatalysis: A New Process for Water and Wastewater Disinfection — Thornton, Hilary et al; Sept-Oct 1998; p. 31

phytoremediation

Growing Cleaner: Phytoremediation Goes Commercial But Many Questions Remain — Reuther, Chris; Jan-Feb 1999; p. 22

pollution

Deregulation of the Electric Industry is About Much More Than Cost — Lewis, Barry; Jan-Feb 1998; p. 19

Pollution and Our Waterways — You'd Be Surprised at the Sources — Lewis, Barry; Mar-Apr 1998; p. 10

Lehigh River Electronic Probe Study Reveals Daily and Seasonal Biological Cycles — Parkland High School; Mar-Apr 1998; p. 32

The Chemical Ecology of Tom's Run — Kokolis, Ellie; May-June 1998; p. 16

In-Line Treatment of Metal Contaminated Storm Water with a Porous Polymer — Kliem, John, et al; Nov-Dec 1998; p. 34

Superfund and Brownfields Initiatives — Cleaning Up Contaminated Sites — Reuther, Chris; Nov-Dec 1998; p. 26

Growing Cleaner: Phytoremediation Goes Commercial But Many Questions Remain — Reuther, Chris; Jan-Feb 1999; p. 22

Microscopic Murderer: Pollution May Be Motivating Pfiesteria to Kill Fish by the Thousands — Reuther, Chris; May-June 1999; p. 10

Parkland High School's Lehigh River Watch Hydrolab Probe Study in Its Second Year — Parkland High School; Sept-Oct 1999; p. 13

Polluted Water — Ercolino, Jill; Sept-Oct 2000; p. 10

Stream ReLeaf Project Preserves Pennsylvania Waters, Helps Restore Chesapeake Bay — Porter, Abby; Sept-Oct 2000; p. 38

Air, Water, and Methyl tertiary-Butyl Ether: An Environmental Balancing Act — Wall, Roland; July-Aug 2001; p. 14

PCBs: A Persistent Issue — Wall, Roland; July-Aug 2002; p. 24

privatization

It's Time Municipalities Re-Think How They Privatize — LaChance, Peter; Sept-Oct 2000; p. 24

process equipment

Egg-Shaped Digester: New Technology Works for Small Communities — Smith, Russell; July-Aug 2000; p. 16

Application Considerations for Control Enclosures in Water and Wastewater Treatment Plants — Marrano, Steven; July-Aug 2000; p. 30

The Risks of Accepting Uncertain Technology: A Case Study — Lagnese, Joseph, Jr.; Nov-Dec 2000; p. 26

Gravity Downflow Filtration Using Crumb Rubber Media for Tertiary Wastewater Filtration — Graf, Chris et al; Nov-Dec 2000; p. 12

Economics of Anaerobic Sludge Digestion in Cylindrical Digesters at Joint Water Pollution Control Plant — Freiss, Philip et al; Nov-Dec 2001; p. 22

polymers

Optimizing Polymers in Wastewater Operations—Part I — Hawraney, Alfred E.; Sept-Oct 2002; p. 14

Optimizing Polymers in Wastewater Operations—Part II — Hawraney, Alfred E.; Nov-Dec 2002; p. 14

Pretreatment

Hauled Waste and Its Industrial Pretreatment Implementations — Musselman, Judy F.; Apr-Jun 2008; p. 19

public education

Public Education Gets Kids Wild About Water Quality — Schober, Mike; Jul-Aug 2004; p. 28.

public infrastructure

Public Infrastructure Investment Makes Sense — Bertera, Bill; Jan-Feb 2009; p. 15

public relations

Sludge Forum: Called to Testify — Snyder, Jay; May-June 1998; p. 39

Unexamined Assumptions — Hurst, Randy; Jan-Feb 1999; p. 9

Unexamined Assumptions — Part II — Hurst, Randy; Mar-Apr 1999; p. 27

Involving Employees in Environmental Enhancement of Water/Wastewater Treatment Plants — Holst, Arthur M.; Sept-Oct 2001; p. 16

"NIMBY" Need Not Be a Problem for Today's Community Friendly Facilities — Maxwell, Lauren E.; Mar-Apr 2002; p. 20

Public Education Gets Kids Wild About Water Quality — Schober, Mike; Jul-Aug 2004; p. 28.

pumps

When Logic Gets Fuzzy — Perez, Robert X.; Pumps & Systems; Oct-Dec 2007; p. 14

Q

quality assurance/quality control (QA/QC)

The Importance of QA/QC: Part 1 — Brough, Lindsey; Jan-Mar 2008; p. 34

The Importance of QA/QC: Part 2 — Brough, Lindsey; Apr-Jun 2008; p. 58

R

rate increases

Leading your Leaders: A Bottom-Up Approach — Ross, Berry A; Jan-Mar 2008; p. 12

recycling

Pollution Prevention is Everyone's Responsibility — Lewis, Barry; Nov-Dec 1997; p. 15

regulations

Coping With Chlorine: Understanding and Investigating Effluent Limits for Total Residual Chlorine — Hurst, Randy; Jan-Feb 1997; p. 35

Biosolids 2000 - Pennsylvania Progress and Problems — Toffey, William; May-June 1997; p. 22

Regulatory reform and the Clean Water Act — Lewis, Barry; July-Aug 1998; p. 20

Environmental Regulations: Is the System Working? Does It Need to be Changed? — Lewis, Barry; Sept-Oct 1998; p. 10

A Comprehensive Analysis of the Regulatory Process — Holst, Arthur; Nov-Dec 1998; p. 10

The 1992 Pennsylvania Residual Waste Management Regulations: Effective or Counterproductive Policy — Furjanic, Sean et al; Mar-Apr 1999; p. 9

Combined Sewer Overflow Control Planning in Pennsylvania — Horst, William et al; July-Aug 1999; p. 26

Critical Commentary on Part 503: A Review — Elliott, Herschel; May-June 2000; p. 12

Act 203 Implementation — Archer, Hugh V.; Jan-Feb 2001; p. 14

Much Ado About Not Too Much: DEP Amends (Slightly) Its NPDES Regulations — Hurst, Randall G.; Mar-Apr 2001; p. 14

The New DEP Water Quality Regulations—Part II: Changed Water Quality Criteria Increase Costs and Risks for Some Permittees — Hurst, Randall G.; May-June 2001; p. 12

Air, Water, and Methyl tertiary-Butyl Ether: An Environmental Balancing Act — Wall, Roland; July-Aug 2001; p. 14

SSO Rule and CMOM Program At A Glance — Kishpaugh, Scott G.; Mar-Apr 2002; p. 12

A Lack of Coordination — Hall, John C., Cohen, Gary B., Hall, William T.; May-June 2002; p. 14

The New Operator Certification Law—What Operators Need to Know — Hurst, Randall G.; May-June 2002; p. 22

DEP NPDES Permitting Discretion Not Unbridled—EHB Agrees — Cohen, Gary B., Hall, John C.; July-Aug 2002; p. 24

Regulatory Perspective – We Need a Blending Policy — Wheatley, Nancy, Matthews, Bob, Vargas, Mel; Jan-Feb 2004; p. 14

Improving TMDLs — Larson, Wendy L.; Mar-Apr 2004; p. 14

EPA Sewage Treatment Blending Policy Draft: Why All the Commotion? — Lusardi, Peter; Mar-Apr 2004; p. 20

Clean Water Act Thirty Years Later — Part 3 — Wall, Roland; Jul-Aug 2004; p. 14

2008 Nutrient Standards Update — Hall, William and John Hall; Apr-Jun 2008; p. 51

residual waste

The 1992 Pennsylvania Residual Waste Management Regulations: Effective or Counterproductive Policy — Furjanic, Sean et al; Mar-Apr 1999; p. 9

resources

NEW-Free Resource for Operators — Simon, Sophie; Jul-Sep 2009; p. 39

respiration

Respirometry as a Process Monitor for Activated Sludge: An Examination of the Respiration Rate Ratio during Toxic Slug Events — Yakub, Gary, and Davies, Peter; Jan-Feb 2002; p. 14

runoff

Non-Point Sources - Lifestyle Decisions — Lewis, Barry; July-Aug 1997; p. 18

Control of Stormwater Runoff and Its Affect on Non-Point Source Pollution — Knoebel, Timothy; July-Aug 1997; p. 29

S

Safety

Safety Incentives: Part 1 — Nelson, Mike; Jan-Mar 2008; p. 18

Safety Incentives: Part 2 — Nelson, Mike; Apr-Jun 2008; p. 22

SBR

Successful Nitrogen Removal Through Modified Sequencing Batch Reactor Technology — Kauffman, Robert L.; Sept-Oct 2004; p. 14 Achieving Biological Nutrient Removal with Activated Sludge — Deeny, Kevin; Apr-Jun 2008; p. 12

Meeting Chesapeake Bay Nutrient Requirements with an Older SBR — Bluge, Joseph A.; Apr-Jun 2008; p. 17

Meeting the Chesapeake Bay Strategy at an Affordable Cost — Hill, Bill et al; Apr-Jun 2008; p. 52

SCADA

Opportunities for Growth and Flexibility at Derry Township Municipal Authority — Guagno, Joseph; May-June 1997; p. 12

selector

Control of Filamentous Bulking in a Complete-Mix Act. Sludge Process Treating High-Strength Industrial Wastewater — Adey, Alfred et al; Nov-Dec 1997; p. 25

Measurement of Diurnal Variations in BNR Systems — Koloras, August et al; July-Aug 1998; p. 9

sludge

Biosolids 2000 - Pennsylvania Progress and Problems — Toffey, William; May-June 1997; p. 22

Biosolids 2000: Public Acceptance of Biosolids Recycling — Machno, Peter et al; Sept-Oct 1997; p. 12

Sludge Production from Biological Excess Phosphorus Removal — Heerbrandt, Paul, Ill et al; Sept-Oct 1997; p. 21

Sludge Forum: Called to Testify — Snyder, Jay; May-June 1998; p. 39

The Influence of Lime Dose on the Destruction of Viable *Ascaris* sp. Ova in Lime-Stabilized Biosolids — Furjanic, Sean et al; Jan-Feb 1999; p. 40

Critical Commentary on Part 503: A Review — Elliott, Herschel; May-June 2000; p. 12

Comparison of Calculation Methods for the Extended Aeration Bench Test — Arant, Steve et al; May-June 2001; p. 20

sludge stabilization

The Influence of Lime Dose on the Destruction of Viable *Ascaris* sp. Ova in Lime-Stabilized Biosolids — Furjanic, Sean et al; Jan-Feb 1999; p. 40

Egg-Shaped Digester: New Technology Works for Small Communities — Smith, Russell; July-Aug 2000; p. 16

Comparison of Calculation Methods for the Extended Aeration Bench Test — Arant, Steve et al; May-June 2001; p. 20

Economics of Anaerobic Sludge Digestion in Cylindrical Digesters at Joint Water Pollution Control Plant — Freiss, Philip et al; Nov-Dec 2001; p. 22

small community systems

Decentralized Wastewater Management: The Pennsylvania Model — Archer, Hugh V.; Nov-Dec 2005; p. 14

Nitrogen Reduction & the Small Flow Treatment Facility — Archer, Hugh V.; Jul-Aug-Sept 2006; p. 12

SSO

Collection Systems — Asset or Liability — Strauch, Joseph A., Wetzel, Dawn M.; Sept-Oct 2005; p. 22

storm water

Control of Stormwater Runoff and Its Affect on Non-Point Source Pollution — Knoebel, Timothy; July-Aug 1997; p. 29

In-Line Treatment of Metal Contaminated Storm Water with a Porous Polymer — Kliem, John, et al; Nov-Dec 1998; p. 34

stream quality

Lehigh River Electronic Probe Study Reveals Daily and Seasonal Biological Cycles — Parkland High School; Mar-Apr 1998; p. 32

The Chemical Ecology of Tom's Run — Kokolis, Ellie; May-June 1998; p. 16

Parkland High School's Lehigh River Watch Hydrolab Probe Study in Its Second Year — Parkland High School; Sept-Oct 1999; p. 13

Polluted Water — Ercolino, Jill; Sept-Oct 2000; p. 10

Stream ReLeaf project Preserves Pennsylvania Waters, Helps Restore Chesapeake Bay — Porter, Abby; Sept-Oct 2000; p. 38

Third Party TMDLs — Palachek, Randy, Freedman, Paul L., Kilks, David L.; Jan-Feb 2004; p. 18

Something Smells Fishy Here! — Hertz, Greg; Apr-Jun 2008; p. 66

strict liability

A Truly Unique Profession, Revisited — Hurst, Randy; Jul-Sep 2008; p. 35

superfund

Superfund and Brownfields Initiatives — Cleaning Up Contaminated Sites — Rether, Chris; Nov-Dec 1998; p. 26

sustainable design

Develop a Building Block Strategy in Sustainable Wastewater Treatment Design Part I — Daigger, Glen and Helen Littleton; Jul-Sep 2009; p. 14

T

tapping fee

Act 203 Implementation — Archer, Hugh V.; Jan-Feb 2001; p. 14

temperature

Effect of Treatment Processes Wastewater Temperature: University Area Joint Authority Treatment Facility — Smith, David et al; July-Aug 1999; p. 10

TMDL

2008 Nutrient Standards Update — Hall, William and John Hall; Apr-Jun 2008; p. 11

Big Trouble for Dischargers? — Hall, John C. and William T. Hall; Apr-June 2007; p. 14

Improving TMDLs — Larson, Wendy L.; Mar-Apr 2004; p. 14.

Point Source Effluent Limitations for Nutrients: A Discussion of TMDLs and Statewide Nutrient Standards — Archer, Hugh V.; Apr-Jun 2008; p. 18

Third Party TMDLS — Palachek, Randy, Freedman, Paul L., Kilks, David L.; Jan-Feb 2004; p. 18.

toxicity

Effect of POTW Effluent Discharges on Copper in Receiving Water — Shi, Bo et al; Mar-Apr 1997; p. 10

Respirometry as a Process Monitor for Activated Sludge: An Examination of the Respiration Rate Ratio during Toxic Slug Events — Yakub, Gary, and Davies, Peter; Jan-Feb 2002; p. 14

PCBs: A Persistent Issue — Wall, Roland; July-Aug 2002; p. 24

Third Party TMDLS — Palachek, Randy, Freedman, Paul L., Kilks, David L.; Jan-Feb 2004; p. 18.

toxicity units (TU)

Ruling on WET Methods Leaves Resolution of Critical Issues to Permitting — Hall, John, Shermer, Steve, Moore Time; July-Aug 2005; p. 14

training

Environmental Training Center: A New Concept for Operator Training in Pennsylvania — Yuefeng, Xie et al; Mar-Apr 2001; p. 28

The New Operator Certification Law—What Operators Need to Know — Hurst, Randall G.; May-June 2002; p. 22

TRC

Reduction of Total Chlorine Residual Discharge from WWTP Using Innovative Design Techniques — Book, Brian et al; Jan-Feb 1997; p. 27

Coping With Chlorine: Understanding and Investigating Effluent Limits for Total Residual Chlorine — Hurst, Randy; Jan-Feb 1997; p. 35

Should I Measure “Free Chlorine” or “Total Chlorine” Residual — McCulloch, Gavin; Mar-Apr 2005; p. 14

V

vector attraction reduction

Comparison of Calculation Methods for the Extended Aeration Bench Test — Arant, Steve et al; May-June 2001; p. 20

W

wastewater treatment

Growing Cleaner, Part II: The Cleaning Power of Wetlands — Reuther, Chris; Mar-Apr 1999; p. 49

The Risks of Accepting Uncertain Technology: A Case Study — Lagnese, Joseph, Jr.; Nov-Dec 2000; p. 26.

Successful Nitrogen Removal Through Modified Sequencing Batch Reactor Technology — Kauffman, Robert L.; Sept-Oct 2004; p. 14.

wetlands

Meeting Industrial Discharge Compliance Limits with Constructed Wetland Treatment Systems — Mahoney-Goodrich, J.W.; Mar-Apr 1997; p. 22

Growing Cleaner, Part II: The Cleaning Power of Wetlands — Reuther, Chris; Mar-Apr 1999; p. 49

whole effluent toxicity (WET)

Ruling on WET Methods Leaves Resolution of Critical Issues to Permitting — Hall, John, Shermer, Steve, Moore Time; July-Aug 2005; p. 14

WWTP operation

Opportunities for Growth and Flexibility at Derry Township Municipal Authority — Guagno, Joseph; May-June 1997; p. 12

Unexamined Assumptions — Hurst, Randy; Jan-Feb 1999; p. 9

Unexamined Assumptions — Part II — Hurst, Randy; Mar-Apr 1999; p. 27

Effect of Treatment Processes Wastewater Temperature: University Area Joint Authority Treatment Facility — Smith, David et al; July-Aug 1999; p. 10

It’s Time Municipalities Re-Think How They Privatize — LaChance, Peter; Sept-Oct 2000; p. 24

Environmental Training Center: A New Concept for Operator Training in Pennsylvania — Yuefeng, Xie et al; Mar-Apr 2001; p. 28

Using an HBOD Probe to Measure Biochemical Oxygen Demands of Wastewaters — Booki, Min et al; July-Aug 2001; p. 24

An Alternative Solution: Diving in a Wastewater Treatment Plant — Jones, Thomas; Nov-Dec 2001; p. 12

Respirometry as a Process Monitor for Activated Sludge: An Examination of the Respiration Rate Ratio during Toxic Slug Events — Yakub, Gary, Davies, Peter; Jan-Feb 2002; p. 14

A Lack of Coordination — Hall, John C., Cohen, Gary B., Hall, William T.; May-June 2002; p. 14

Optimizing Polymers in Wastewater Operations—Part I — Hawraney, Alfred E.; Sept-Oct 2002; p. 14

Optimizing Polymers in Wastewater Operations—Part II — Hawraney, Alfred E.; Nov-Dec 2002; p. 14