

## Publications for 2012

### Book - Scholarly Research

Linden, K, McClelland, C, Drewes, J, Khan, SJ, & et al, 2012, Water Reuse 2030: Identifying Future Challenges and Opportunities, WaterReuse Research Foundation, Alexandria, VA, USA.

### Book - Edited

Cox, RJ, Doug Lord, Miller, BM, Peter Nielsen, et al, (ed) 2012, Climate Change adaptation guidelines in coastal management and planning, Engineers Media, Australia.

### Chapter - Scholarly Research

Fell, R, Stapledon, D, & MacGregor, P 2012, Landslides and geologic environments, Landslides Types, Mechanisms and Modelling (first, pp. 134 - 143). Cambridge University Press, Cambridge UK.

Garg, S, Rose, AL, & Waite, TD 2012, Pathways Contributing to the Formation and Decay of Ferrous Iron in Sunlit Natural Waters, Aquatic Redox Chemistry (ACS Symposium Series, Vol. 1071, pp. 153 - 176). American Chemical Society, Washington, DC.

Glamore, W 2012, Incorporating Innovative Engineering Solutions Into Tidal Restoration Studies, Restoring Tidal Flow to Salt Marshes: A Synthesis of Science and Management. Island Press.

### Chapter - Textbook

Mariani, A 2012, Emerging Technologies and Novel Approaches, Climate Change adaptation guidelines in coastal management and planning, First, pp. 71-82. Engineers Media, Australia.

### Journal - Refereed & Scholarly Article

Alturki, A, McDonald, J, Khan, SJ, Hai, FI, et al, 2012, 'Performance of a novel osmotic membrane bioreactor (OMBR) system: Flux stability and removal of trace organics', Bioresource Technology, 113, pp. 201-206.

Antony, A, Subhi, N, Henderson, RK, Khan, SJ, et al, 2012, 'Comparison of reverse osmosis membrane fouling profiles from Australian water recycling plants', Journal of Membrane Science, 407-408, pp. 8-16.

Beya, JF, Peirson, WL, & Banner, ML 2012, 'Turbulence beneath finite amplitude water waves', Experiments in Fluids, 52, pp. 1319-1330.

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Blenkinsopp, CE, Masselink, G, Turner, IL, & Russell, P 2012, 'Can standard energetics models be used to predict net cross-shore sediment flux at the beach face?', Australian Journal of Civil Engineering, 9, pp. 19-34.

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- Dang, T. C. Fujii, M, Rose, AL, Bligh, MW, & et al, 2012, 'Characteristics of the freshwater cyanobacterium *Microcystis aeruginosa* grown in iron-limited continuous culture', *Applied and Environmental Microbiology*, 78, pp. 1574-1583.
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- Dungan, RS, Klein, M, & Leytem, AB 2012, 'Quantification of bacterial indicators and zoonotic pathogens in dairy wastewater ponds', *Applied and Environmental Microbiology*, 78, pp. 8089-8095.
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### Conference - Full Paper Refereed

Badenhop, AM, & Timms, WA 2012, 'Long-term Salinity Changes in an Inland Aquifer, NSW, Australia', *HWRS 2012 Conference, Proceedings of the 34th Hydrology & Water Resources Symposium*, pp. 43–51, November 19 – 22, 2012.

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Lisa Granqvist, Glamore, W, & Cox, RJ 2012, 'Using elevated digital images to map tidal hydraulics and saltmarsh evolution', 34th Hydrology & Water Resources Symposium, Sydney, 19-22 November 2012.

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Yap, R, Holmes, M, Peirson, WL, Whittaker, M, et al, 2012, 'The selectivity of pH regulated alum coagulation in dissolved air flotation of algae laden stabilization pond effluent a case study', OZwater'12, Sydney Convention and Exhibition Centre, 8-10 May 2012.

van den Akker, B, Trinh, T, Coleman, H, Stuetz, RM, et al, 2012, 'Validation of a full-scale membrane bioreactor for water recycling', Ozwater, Sydney, 8-10 May 2012.

### **Conference - Full Paper, Not Refereed**

Clark, M, Payne, TE, Collins, RN, Harrison, JJ, et al, 2012, 'Unravelling metal binding on modified bauxite refinery residues', 9th International Alumina Quality Workshop, Perth, Australia, March 2012.

Cox, RJ, Stacey Atkinson, & Joseph, K 2012, 'Climate change adaptation for the Solomon Islands', 8th International Conference on Coastal and Port Engineering in Developing Countries, Chennai India, February 2012.

Fang Yuan, & Cox, RJ 2012, 'Sensitivity of longshore sediment transport to changes in offshore wave climate', Coast to Coast Living on the edge, Brisbane, September 2012.

Glamore, W, & Rayner, D 2012, 'Coastal wetlands remediation in a changing climate: process understanding and application', 2012 NSW Coastal Conference, Kiama, NSW, 6-9 November 2012.

Jeong, C, Mukerji, Z, & Mariethoz, G 2012, 'Adaptive Spatial Resampling Applied to Seismic Inverse Modelling', Geostats 2012, Oslo, Norway, June 11-15.

Jha, S, & Mariethoz, G 2012, 'Statistical downscaling of land-atmospheric variables using Direct Sampling method', Geomatrix12, Mumbai, India, 26-29 February.

Lanckriet, T, Puleo, J, Masselink, G, Turner, IL, & et al, 2012, 'Detailed field measurements of sheet flow sediment transport in the swash zone.', 33rd International Conference on Coastal Engineering, Santander, Spain, July 1-6, 2012.

Lenehan, N, Coghlan, IR, & McIlveen, M 2012, 'Two dimensional planning: the application of tidal projections to determine risk management triggers', NSW Coastal Conference, Kiama, NSW, 6-9 November, 2012.

Lundie, S, McLaren, J, van Buuren, N, Moore, A, et al, 2012, 'Greenhouse Gas Footprinting of the Australian Dairy Industry', 2nd New Zealand Life Cycle Assessment Conference: Life Cycle Assessment: A Business Compass for Sustainable Development, Auckland, 28-29 March 2012.

Mariethoz, G, Comunian, A, Irrazaval, I, & Renard, P. 2012, 'Conditional simulation of realistic meandering channels using 1D multiple-point simulations'. Geostatistics Oslo 2012, Norway, June 11-15.

Mariethoz, G, Kelly, B.F.J. & Baker, A 2012, 'Insights in paleoclimate variability through the variographic analysis of stalagmite time series'. Geostatistics Oslo 2012, Norway, June 11-15.

Mariethoz, G, Renard, P. & McCabe, MF 2012, 'Reconstruction of multivariate satellite images using multiple-point statistics', Geostats 2012, Oslo, Norway, June 11-15.

McCarroll, Brander, R, Macmahan, JH, Turner, IL, et al, 2012, 'RIPSAFE - Rip current swimmer and flater experiments', 2nd International Rip Current Symposium , Sydney, 30 October – 11 November.

Merschman, E, Merschman, E, Mariethoz, G, Straubhaar, J. et al, 2012, 'Guidelines to Perform Multiple-Point Statistical Simulations with the Direct Sampling Algorithm'. Geostatistics Oslo 2012, Norway, June 11-15.

Mole, MA, Davidson, MA, Turner, IL, Splinter, K, et al, 2012, 'Modelling Multi-Decadal Shoreline Variability and Evolution', 33rd International Conference on Coastal Engineering, Santander, Spain, July 1-6, 2012.

Puleo, J, Conley, D, Masselink, G, Russell, P, et al, 2012, 'Comprehensive study of swash-zone hydrodynamics and sediment transport.', 33rd International Conference on Coastal Engineering, Santander, Spain, July 1-6, 2012.

Sano, M, Baum, S, Bussey, M. Carter, B. et al, 2012, 'Adapting coasts to climatic futures, an Australian perspective', 33rd International Conference on Coastal Engineering, Santander, Spain, July 1-6, 2012.

Van rooijen, A, Reniers, A, van Thiel de Vries, J, Blenkinsopp, CE, & et al, 2012, 'Modelling swash zone sediment transport at Le Truc Vert, France', 33rd International Conference on Coastal Engineering, Santander, Spain, July 1-6, 2012.

Yap, R, Whittaker, M, Peirson, WL, Jefferson, B, et al, 2012, 'Poly-Surfactants as Micro-Bubble Surface Modifiers for the Flotation of Microcystis', 6th International Conference on Flotation for Water and Wastewater Systems, New York City, USA, 29 October - 1 November 2012.

Yap, R, Whittaker, M, Peirson, WL, Jefferson, B, et al, 2012, 'The impact of Microcystis aeruginosa strain on cell removal using bubbles modified with poly(diallyldimethyl ammonium chloride)', 6th International Conference on Flotation for Water and Wastewater Systems, New York City, USA, 29 October 1- November 2012.

### Conference - Abstract Only

Acworth, RI, Timms, WA, Fitzpatrick, A, & Greve, A K 2012, 'Aquitard storativity estimates based upon geophysical (cross-hole and MASW) measurements of the bulk modulus', International Association of Hydrogeologists, Niagara, Canada, 16 -21 September.

Baker, A, Mariethoz, G, & Kelly, BFJ 2012, 'Karst unsaturated zone hydrogeological properties constrained by annually laminated stalagmite growth-rate time-series', 39th IAH Congress, Niagara Falls, Canada, September 16-21, 2012.

Boland, DD, Collins, RN, Glover, C, Payne, TE, & et al, 2012, 'Fe(II)-mediated reduction of Cr(VI) and U(VI) in the presence of Fe(III) oxyhydroxides ', Goldschmidt 2012, Montreal, Canada, June 2012.

Boland, DD, Collins, RN, & Waite, TD 2012, 'Fe(II)-mediated transformation of ferrihydrite to goethite and associated reduction of U(VI) to U(V): Thermodynamic and kinetic considerations', International workshop on uranium biogeochemistry: transformations and applications, Ascona, Switzerland, March 2012.

Boland, DD, Collins, RN, Glover, C, Payne, TE, & et al, 2012, 'Using XAFS and q-XAFS to monitor U and Fe speciation during Fe(III) oxyhydroxide transformations', XAFS15, Beijing, China, July 2012.

Brander, R, Drozdowski, D, Dominey-Howes, D, Turner, IL, et al, 2012, 'The RIPS SAFE Project - A holistic approach to understanding the rip current hazard.', Australian Water Safety Conference 2012, Sydney, 4-5 June.

Clark, M, Payne, TE, Harrison, JJ, Comarmond, J, et al, 2012, 'Modified Bauxite Refinery Residues for Immobilizing U(VI)', South Pacific Environmental Radioactivity Association Conference, Lucas Heights, October 2012.

Coleman, H, Marquis, C, & Amal, R 2012, 'Removal of Endotoxins in water using Titanium Dioxide Photocatalysis', International Water Association Leading Edge technology, Brisbane Australia, 3-7 June 2012.

- Coleman, HM, Pee, W, Peng, W, & Le-Clech, P 2012, 'Degradation of endocrine disrupting chemicals in water using a hybrid photocatalytic-membrane reactor', International Water Association Leading Edge technology, Brisbane Australia, 3-7 June 2012.
- Collins, RN, Rose, AL, Glover, C, Rosso, K, et al, 2012, 'Applying q-EXAFS and thermodynamics to deduce ferric iron geometry during hydrolysis and precipitation', Telluride Biogeochemistry and Redox Transformations of Iron Workshop, Telluride, CO, USA, August 2012.
- Comunian, A, Mariethoz, G, & Kelly, B.F.J. 2012, 'Using Climatic Insights to Guide Stochastic Process-Based Modelling of a Valley Filling Fluvial Sequence in the Murray-Darling Basin, Australia', British Sedimentological Research Group 51st Annual General Meeting, Dublin, Ireland, 18th - 20th December 2012.
- Glover, C, Collins, RN, Rose, AL, Boland, DD, et al, 2012, 'Facility for studying in-situ liquid phase dynamics and thermodynamics with XAS', XAFS15, Beijing, China, July 2012.
- Greve, A K, Rogan, A, Timms, WA, & Acworth, R 2012, 'Micro gravity and cross-hole seismic to monitor water storage changes in aquitards', ASEG 2012; 22nd international geophysical conference and exhibition, Brisbane, 26th February, 2012.
- Jha, S, & Mariethoz, G 2012, 'Statistical downscaling of land-atmospheric variables using the Direct Sampling method', geoENV2012, Valencia, Spain, September 19-21.
- Jha, S, & Mariethoz, G 2012, 'Using high-resolution bathymetry and Direct Sampling to characterise sedimentary evolution in large rivers', 34IGC, Brisbane, August 2012.
- Khan, U, Tuteja, NK, & Sharma, A 2012, 'A Hydrologic Response Units based Catchment Simulation Model', Asia Oceania Geosciences Society (AOGS)AGU joint assembly, Singapore, 13-17 August 2012.
- Kobashi, D, Golshani, A, Sano, M, Splinter, K, et al, 2012, 'Regional Modelling to Support Decisions in Coastal and Emergency Management', Coast to Coast, Brisbane, QLD, AU, 17-21 September 2012.
- Lisa Granqvist, Glamore, W, & Cox, RJ 2012, 'Using innovative imaging techniques to link saltmarsh distribution, on-site hydrology and wetland rehabilitation methods', Society for Ecological Restoration Australasia, Perth, Australia, 27-30 November 2012.
- Mariethoz, G, Comunian, A, Irrarrazaval, I, & Renard, P. 2012, 'A new angle: meandering river modelling using Direct Sampling', 34IGC, Brisbane, August 2012.
- Merschman, E, Mariethoz, G, & 2012, 'Using bivariate multiple-point statistics for the processing of proximal soil sensor data', geoENV2012, Valencia, Spain, September 19-21.
- Payne, TE, Collins, RN, Comarmond, J, Palmer, G, et al, 2012, 'Application of synchrotron XAS to probe sorption mechanisms in Uranium(VI)/Ferrihydrite/Titanium Dioxide systems', Australian Synchrotron Users Meeting, Melbourne, Australia, November 2012.
- Renard, P, Straubhaar, J, Caers, J & Mariethoz, G 2012, 'Conditioning Facies Simulations with Connectivity Data', European Geosciences Union General Assembly 2012, Vienna, Austria, 22-27 April 2012.

Splinter, K, Davidson, MA, & Turner, IL 2012, 'Modelling equilibrium shoreline response: application across multiple sites and minimum data', American Geophysical Union Annual Fall Meeting, San Francisco, CA, USA, Dec. 2-7, 2012.

Straubhaar, J. Renard, P. & Mariethoz, G 2012, 'Parallel implementation of the Direct Sampling algorithm on GPU', geoENV2012, Valencia, Spain, September 19-21.

Stroud, J, & Collins, RN 2012, 'Arsenic and trace metals in acid sulfate environments', 7th International Acid Sulfate Soil Conference, Vaasa, Finland, August 2012.

Stroud, J, & Collins, RN 2012, 'Assessment of arsenic and metal bioavailability in drain waters from acid sulfate environments', 3rd National Acid Sulfate Soils Conference, Melbourne, Australia, March 2012.

Stroud, J, & Collins, RN 2012, 'Characterisation of arsenic and trace metals in acid sulfate environments', Goldschmidt 2012, Montreal, Canada, June 2012.

Timms, WA, Hartland, A, Khan, SJ, & McDonald, J 2012, 'Application of multiple organic tracers for assessing fluxes through aquitards and potential connectivity with surface waters', International Association of Hydrogeologists, Niagara, Canada, 16-21 September.

Timms, WA, Hartland, A, & Greve, A K 2012, 'Aquitard assessment practices for agriculture, mining and coal-seam gas extraction', International Geological Congress, Brisbane, 5-10 August.

Timms, WA, Hartland, A, Acworth, RI, Whelan, M, et al, 2012, 'Geotechnical centrifuge permeameter for characterizing aquitards: pore water chemistry and potential inter-aquifer leakage', International Association of Hydrogeologists, Niagara, Canada, 16-21 September.

Timms, WA, Hartland, A, & Garces, D 2012, 'Geotechnical centrifuge permeameter technology to characterise geological barriers to pore water flow and inter-aquifer leakage.', 38th Symposium on the Advances in the Study of the Sydney Basin, Pokolbin, 10-11 May.

Turner, IL, Cameron, D, Davidson, M, Goodwin, I. et al, 2012, 'Monitoring and forecasting present and future shoreline variability in a changing climate', Coast to Coast Living on the edge, Brisbane, September 2012.

Turner, IL, Cameron, D, Davidson, MA, Goodwin, I. et al, 2012, 'Monitoring and forecasting present and future shoreline variability in a changing climate', Coast to Coast, Brisbane, QLD, AU, 17-21 September 2012.

Yap, R, Whittaker, M, Carruthers, J, S. Guillet, et al, 2012, 'The use of cationic polymers at bubble interfaces for water reclamation', 33rd Australasian Polymer Symposium, Hobart, Tasmania, 12-15 February 2012.

Yvanes-giuliani, Y, Fink, D, Rose, J, Waite, TD, & et al, 2012, 'Labile and exchangeable metal concentrations in Australian coastal acid sulfate soils: mechanisms controlling metal solubility', 7th International Acid Sulfate Soil Conference, Vaasa, Finland, August 2012.

Yvanes-giuliani, Y, Fink, D, Rose, J, Waite, TD, & et al, 2012, 'Mobilization of exchangeable aluminium in acid sulfate soils (ASS)', Goldschmidt 2012, Montreal, Canada, June 2012.

Yvanes-giuliani, Y, Fink, D, Rose, J, Waite, TD, & et al, 2012, 'Partitioning of aluminium in acid sulfate soils and implications for remediation', 3rd National Acid Sulfate Soils Conference, Melbourne, Australia, March 2012.

Zhang, Z, Wang, Y, Waite, TD, & Leslie, GL 2012, 'Effect of Ferric Chloride Dosing on Phosphorus Removal and Membrane Fouling in Membrane Bioreactor', the 7th Conference of Aseanian Membrane Society (AMS7), Busan, Korea, July 4 - 6.

### Conference - Presentation, not Published

Ajami, H, McCabe, MF, Evans, JP, & Stisen, S 2012, 'Assessing the Impact of Model Spin up on Surface Water-Groundwater Interactions Using an Integrated Hydrologic Model', American Geophysical Union, San Francisco, December 2012.

Cox, RJ, & Rowley, H 2012, 'Towards a Resilient Sydney - Infrastructure', Towards a Resilient Sydney, Sydney, December 2012.

Mahmud, K, Mariethoz, G, & Baker, A 2012, 'Conditional Simulation of Geological Textures by Image Quilting', 1st International Conference on Advances in Civil Engineering 2012 (ICACE 2012), CUET, Chittagong, Bangladesh, 12-14 December 2012.

Meixner, T, Soto, C, Ajami, H, , et al, 2012, 'Water Presence in an Arid and Semi-arid River: Pattern, causes, mechanisms and change', American Geophysical Union, San Francisco, December 2012.

Rau, GC, Andersen, MS, & Acworth, RI 2012, 'The effect of non-uniform flow in homogeneous sediment on velocity quantification using heat as a tracer', American Geophysical Union Annual Fall Meeting, San Francisco, CA, USA, December 2-7, 2012.

Roser, D 2012, 'Exploring the Publics Exposure to Drinking and Bathing Water Microbes through the Construction', Palisade Risk Conference, Sydney, 29 – 30 May 2012.

Roser, D, Ashbolt, NJ, Petterson, S, & Jagals, P 2012, 'Uncertainties in the Application of QMRA when Prioritizing Drinking Water Infrastructure for Communities Lacking Satisfactory Water Supplies', World Congress on Risk 2012, Sydney, 18- 20 July 2012.

### Conference - Poster, not HERDC

Ajami, H, McCabe, MF, & Evans, JP 2012, 'Sensitivity of Groundwater Dynamics to Land Cover Change', American Geophysical Union, San Francisco, December 2012.

Ershadi, A, McCabe, MF, Evans, JP, & Mariethoz, G 2012, 'Bayesian uncertainty analysis of the input meteorological variables in estimation of the sensible heat flux', AGU Fall Meeting, San Francisco, 3-7 December 2012.

Graham, PW, McCabe, MF, & Ajami, H 2012, 'Influence of High Level Long Duration Dam Release on Stream-Aquifer Interactions', American Geophysical Union, San Francisco, December 2012.

Khan, U, Tuteja, NK, Ajami, H, & Sharma, A 2012, 'How to Reduce Computational Time in Distributed Hydrological Modeling?' American Geophysical Union, San Francisco, December 2012.

Timms, WA, Whelan, M, & Hartland, A 2012, 'Environmental time machine for assessing low permeability soils, tailings and rock', International Geological Congress, Brisbane, 5 -10 October.

## Technical Report

Badenhop, AM, Wasko, CD, & Timms, WA 2012, Namoi Groundwater Mapping and Transition Zones.

Blacka, MJ, & Flocard, F 2012, Coastal Adaptation and Protection Options for Port Sorrell and Shearwater.

Blacka, MJ, & Farrelly, B 2012, ICHTHYS LNG Plant Revetment Physical Modelling, Darwin Harbour

Blacka, MJ, Davey, E K, & Carley, JT 2012, Investigation of Roches Beach Protection Works.

Coghlan, IR, Ruprecht, J, & Blacka, MJ 2012, Abbot Point MCF 2D and Q3D Baseline Modelling Study.

Collins, RN, Yvanes-giuliani, Y, & Stroud, J 2012, Exploiting Natural Processes to Effectively Remediate Acidified Coastal Environments, ARC Linkage Project LP110100480, Annual Progress Report for 2011.

Flocard, F, Shand, TD, & Carley, JT 2012, Port Fairy Wave Power Resource Analysis.

Flocard, F, & Blacka, MJ 2012, Seawall Assessment Literature Review.

Glamore, W, Wasko, CD, & Smith, G 2012, Rehabilitation of Yarrahapinni Wetlands National Park: Hydrodynamic Modelling of Tidal Inundation.

Glamore, W, & Davey, E K 2012, Riverbank Vulnerability Assessment of the Seaham Weir Pool 201254149, Maddock III, T, Baird, K, Hanson, RT, Schmid, W, & et al, 2012, RIP-ET: A Riparian Evapotranspiration Package for MODFLOW-2005.

Mariani, A, Carley, JT, Lord, DB, & Shand, TD 2012, Identification of Coastal Hazard Risk Areas to Projected Sea Level Rise for the Manly Local Government Area .

Mariani, A, & Carley, JT 2012, Manly LGA Seawall Risk Assessment and Plan for Priority Upgrade/Replacement.

Mariani, A, & Coghlan, IR 2012, Seawall Structure Assessment at Bilgola and Clontarf, Sydney, NSW .

Miller, BM, & Tarrade, L 2012, Manning River Saline Dynamic Modelling.

Miller, BM, & Badenhop, AM 2012, Peer Review of Camden Gas Project Groundwater Investigations.

Ng, TS, Htut, TN, & Foster, SJ 2012, Fracture of steel fibre reinforced concrete the unified variable engagement model.

Rayner, D, Miller, BM, Flocard, F, Ruprecht, J, & et al, 2012, Brooklyn and Dangar Island Outfall Dilution Study: 3rd and 8th May 2012.



Rayner, D, Carley, JT, & Coghlan, IR 2012, New Brighton Beach Scraping Trial: Analysis of Dune and Beach Profile Data.

Ruprecht, J, & Blacka, MJ 2012, Gladstone Tug Berth Marina Physical Modelling.

Ruprecht, J, Shand, TD, & Miller, BM 2012, Melville Bay - Wind Hindcasting.

Shand, TD, Wasko, CD, Westra, SP, Smith, G, et al, 2012, Joint Probability Assessment of NSW Extreme Waves and Water Levels.

Shand, TD, Carley, JT, Smith, G, & Peirson, WL 2012, Review of Storm Surge and Coastal Inundation Modelling.

Smith, G, & Wasko, CD 2012, Throsby Creek Dredging: Flood Assessment.

Timms, WA, Ruprecht, J, & Greve, A K 2012, Hydraulic Conductivity Testing of Drill Core - Broken Hill MAR.

Timms, WA, Rahman, PF, & Hartland, A 2012, Hydraulic Conductivity Testing of Drill Core - Stuart Shale .

Timms, WA, Rahman, PF, McGeeney, DE, & Whelan, M 2012, Hydraulic Conductivity Testing of Drill Core - Surat Basin.

Wang, X, & Parcsi, GP 2012, Identification of Odorants from Leachate Dam and Leachate Pipe of Blaxland Landfill.