

2021 WATER NEW ZEALAND CONFERENCE & EXPO PRELIMINARY PROGRAMME

MONDAY 20 SEPTEMBER

Pre-Conference workshop: Focusing on the three pou (pillars) of three waters reform – Taumata Arowai and Department of Internal Affairs
(Full day workshop from 9.30am – 4.30pm)

TUESDAY 21 SEPTEMBER

7:30	Registration Opens					
8:45	Conference Opening and Welcome from the Water New Zealand President					
9:10	Opening Guest Speaker: Hon Nanaia Mahuta, Minister of Local Government					
9:40	Guest Speaker: Dr Souxsie Wiles					
10:30	Morning Tea – Exhibition Area					
	Thought Leadership: Water Transformation	Te Mana O Te Wai / Three Waters Reform	Drinking Water Quality and Source Water Management	Pipelines - New and Renew	Wastewater Operations	Workshop Stream
11.00	UTILITY OF THE FUTURE David Ehrhardt, Andreas Heuser & Shannon Riley – Castalia Advisors	USING EVIDENCE BASED DECISION MAKING TO PREPARE FOR WATER REFORM Neil Jorgensen – Rationale & Tom Dyer – Dunedin City Council	LAB WORK, PILOT TRIALS AND BRAINS TRUST DELIVERING FRESH SUPPLY FOR THRIVING TOWNS Will Jacobson - Stantec	STAYING AHEAD OF THE CURVE – COST- EFFECTIVE AND ENVIRONMENTALLY CONSCIOUS INNOVATION Courtney Pratt – Fulton Hogan	A PROACTIVE APPROACH TO MANAGING A SMELLY AFTERTHOUGHT Jessica Daniel – Jacobs	Young Professionals Workshop
11.30	ONE WATER, TOO MANY CHALLENGES: PRIORITISING INVESTMENT WHEN THERE IS TOO MUCH TO DO Fraser Clark – Wellington Water	A DECADE OF INSTITUTIONAL REFORMS IN SOUTH EAST QUEENSLAND'S WATER SECTOR – LESSONS AND CONSIDERATIONS Abel Immaraj & Kate Lanskey – Aurecon	SMALL AND RURAL WATER SUPPLIES RISK AND OPTIONS ASSESSMENT Rachael Casey – Rata & Shaun Hodson – AMBI	WHEN THE PROBLEM IS SO BIG, WHERE DO YOU START? RENEWALS TO MEET YOUR BUDGET Nicola Whelan-Henderson & Rico Parkinson – Stantec	STABILITY AND SUSTAINABILITY: OPTIONS ASSESSMENT FOR WELLINGTON'S SLUDGE MINIMISATION FACILITY Leah Agustin – Beca & Steve Hutchison – Wellington Water	
12.00	RESHAPING WATER BUSINESSES AROUND THE CIRCULAR ECONOMY/SUSTAINABLE DEVELOPMENT GOALS Adam Lovell – Wsaa	WASTEWATER DISPOSAL AND THE NPS- FM 2020: WHAT DOES THE FUTURE LOOK LIKE?? Oliver Hunt – Pattle Delamore Partners	MANAGING FUTURE UNCERTAINTIES USING IWM AND THE ADAPTIVE PLANNING APPROACH Vijesh Chandra - GHD	SUPPLY PIPE FAILURE CORRELATION WITH PRESSURE AND GROUND MOVEMENT Lunita Lopez – University of Auckland	DEVELOPMENT OF A LOW-COST SEWER SAMPLING SYSTEM Cassandra Billiau – Watercare Services Ltd	
12:30	Lunch – Exhibition Area					
	Poster Q&A Session – Foyer					

	Thought Leadership: Te Ao Maori	Three Waters Reform	Drinking Water Quality and Source Water Management	Pipelines - New and Renew	Science	Workshop Stream
2:00	A MĀORI PERSPECTIVE ON THE FRESHWATER DEBATE Tina Ngata – Wai Māori	LESSONS ON GREEN INFRASTRUCTURE MANAGEMENT AND THEIR APPLICATION TO THREE WATERS REFORM Francis Leniston – Wellington Water	WHAT IF ALLOWABLE DRINKING-WATER NITRATE LIMITS ARE REDUCED TO ADDRESS POSSIBLE CHRONIC HEALTH EFFECTS? Bridget O'Brien – WSP & Timothy Chambers – University of Otago	GET THOSE TURD TAXIS OFF OUR STREETS! A STORY OF SLUDGE PIPELINE REPAIR IN WELLINGTON Elliot Altham - Stantec	MICROPLASTICS IN THE WATER ENVIRONMENT – SHOULD WE BE WORRIED AND WHAT CAN WE DO? Bridget Rule & Gary Macdonald – Beca	WeCan/SWIG Workshop
2:30	A WAIKATO-TAINUI PERSPECTIVE Donna Flavell – Waikato Tainui	INCORPORATING CULTURAL CONTEXT INTO WATER MANAGEMENT: INDIA EXCHANGE Shannon Davies – Aecom	MOVING TOWARDS A PROACTIVE WAY OF PREDICTING WATER QUALITY Louise Weaver – ESR	DALDY STREET OUTFALL David Pattinson – McConnell Dowell	MICROPLASTICS IN WASTEWATER IN NEW ZEALAND: CURRENT DATA AND KNOWLEDGE GAPS Helena Ruffell – University of Canterbury	
3:00	ENABLING MANA WHENUA INVOLVEMENT Mahina-A-Rangi Baker – Massey University	MEASURING DROUGHT RESILIENCE: WATER SUPPLY SECURITY IN THE REFORM PROCESS Jonathan Reed – Beca & Charlotte Reed – Tonkin + Taylor	NITRATE TRENDS IN GROUNDWATER: FROM KNOWN KNOWNS TO KNOWN UNKNOWNNS Helen Rutter – Aqualinc Research Ltd	PUMP EFFICIENCY MONITORING - GIVING UP THE CARBS James Curtis – Cardno & Paul Winstanley – Wellington Water	EMERGING CONTAMINANTS – CURRENT STATUS IN NEW ZEALAND Becky Macdonald & Claire Conwell – Jacobs	
3:30	Afternoon Tea – Exhibition Area					
	Thought Leadership: Three Waters Service Delivery	Sustainability	Drinking Water Quality and Source Water Management	IWA Science	Wastewater Operations	Workshop Stream
4:00	THREE WATERS SERVICE DELIVERY REFORM Department of Internal Affairs	WHAT ABOUT A ZERO ENVIRONMENTAL FOOTPRINT WASTE WATER TREATMENT PLANT Richard Greenwood, Becky Macdonald & Grace Stumbles – Jacobs	THE SOLUTIONS TO THE HAVELOCK NORTH WATER CONTAMINATION EVENT Richard Parkinson - Stantec	MICROBIAL SOURCE IDENTIFICATION AND APPORTIONMENT FOR POLLUTION REDUCTION Carlos Campos – Cawthron Institute	INCREASING WATER RETAINING STRUCTURES LIFE AND SAFETY WITH HYDROGEL TECHNOLOGY Douglas Hamlin – Markham	
4:30	ECONOMIC REGULATION PANEL Kevin Counsell – NERA, Richard Fletcher – Aurora & Michael Arthur – Metis Consultants	POWERING A GREENER FUTURE – ASSESSING THE REAL WORLD BENEFITS OF SOLAR PV FOR WATER UTILITIES Laurence Jenner – Watercare Services Ltd	FROM CATCHMENT TO CONSUMER - A WATER SAFETY JOURNEY Jessica Hamilton & Marcia Jones – Jacobs	THE IMPACT OF ATMOSPHERIC RIVERS ON RAINFALL IN NEW ZEALAND Jingxiang Shu – University of Auckland	A CASE STUDY ON THE SEISMIC PERFORMANCE OF WASTEWATER PIPELINES FOLLOWING THE VALENTINE'S DAY EARTHQUAKE Melanie Liu – Beca & Greg Preston – UC Quake Centre	
5:00		HOW TO REDUCE POTABLE WATER DEMAND FOR A SPORTS PARK BY 100% Elizabeth Garner - Jacobs	GROUNDTRUTHING A PFAS MODEL Aslan Perwick – Pattle Delamore Partners Ltd	IWA Annual General Meeting	A LESSON IN RESILIENCE PREPAREDNESS - RETICULATION CRITICAL SPARES Tracey Mitchell – New Plymouth District Council	
5:30	Intergroup Welcome Reception – Exhibition Area					

WEDNESDAY 22 SEPTEMBER

7.15	WATER New Zealand AGM					
8:00	Registration Opens					
8:30	Keynote: Bill Bayfield - Chief Executive - Taumata Arowai					
9:15	Keynote: Traci Houpapa, Chair - Federation of Māori Authorities					
10:00	Morning Tea – Exhibition Area					
	Thought Leadership Regulatory Reform	Climate Change - Adaptation and Mitigation	Smart Water - Digital and Data	Procurement and Project Delivery	Asset Management	Workshop Stream
10:30	TAUMATA AROWAI WATER SERVICES REGULATOR – OUR REGULATORY APPROACH Ray McMillan, Katy Te Amo & Jim Graham – Taumata Arowai	CLIMATE CHANGE PRESSURES IN THE WASTEWATER SECTOR AND ADAPTIVE PLANNING Emily Diack – GHD	SMART WATER METERING - OPTIMISING YOUR RETURN ON INVESTMENT Hugh Blake-Manson – Waugh Infrastructure Management	WHAT IS SO EXCITING ABOUT THE DELIVERY OF A 60MLD FLOATING PUMP STATION? DURING A DROUGHT & PANDEMIC? WITHIN 12 MONTHS? Greg Cameron & Holger Zipfel – MTL	THREE WATERS GROWTH PLANNING TO SUPPORT INTEGRATED INVESTMENT AND LAND USE PLANNING Katrina Murison & Olena Chan – Wellington Water	WSMG Workshop
11:00		MEASURING YOUR EMISSIONS ON A PATHWAY TO NET ZERO Glenn Conley – Watercare	OPERATIONALISING SMART METER NETWORKS: BENEFITS FOR UTILITIES AND THEIR CUSTOMERS Tony Wise - Jacobs	RENEWALS – TURNING PROJECTS INTO PROGRAMMES Beth Parkin – Wellington Water & Stantec	WASTEWATER PER CAPITA LOADING RATES, DESIGN STANDARDS & HOUSING GROWTH Teresa Scott - GHD	
11:30	RMA REFORM IMPLICATIONS FOR 3 WATERS Simon Pilkinton – Russell McVeagh	DRINKING WATER TREATMENT IN A CLIMATE OF CHANGE Sally Williamson – Aurecon	APPLICATION OF DIGITAL ENGINEERING IN THE WATER SECTOR Farzam Farzadi – Beca, Sven Harlos – Watercare & Matt Stanford – Fletcher Construction	CITY RAIL LINK STORMWATER DROP STRUCTURES Renier Els – Aecom & Warren Bird - WSP	NANAKO STREAM: DEVELOPING A COMPREHENSIVE STORMWATER SOLUTION Robert Kelly – Aurecon & Josh Hudson – Tonkin + Taylor	
12:00	NEW ZEALAND’S CARBON BUDGETS Jo Hendy - Climate Change Commission	TARAWA WATER SUPPLY SOLAR DISTILLATION PROJECT – COMMUNITY WATER SECURITY India Eiloart – Engineers Without Borders New Zealand	LEVERAGING DATA TO OPTIMIZE WATER NETWORK OPERATIONS Diana Galindo – Mott Macdonald	IT IS WATER CONSERVATION OR UNIVERSAL WATER METERING – APPLYING THE KÜBLER ROSS CHANGE CURVE David Taylor & Maria Buzzella – New Plymouth District Council	OVERFLOW CONSENTING AND DESIGN STORM SELECTION BASED ON CONTINUOUS SIMULATION OF 25-YEAR HISTORICAL RAINFALL Joel Wilson – WCS	
12:30	Lunch – Exhibition Area					

	Thought Leadership: Transforming Water – Infrastructure & Workforce	Wastewater Treatment	Smart Water - Digital and Data	Procurement and Project Delivery	Asset Management	Workshop Stream
1:30	INFRASTRUCTURE COMMISSION: OUR STRATEGY Ross Copland – Infrastructure Commission	OPTIMISATION OF WASTEWATER IRRIGATION Neeraj Pratap – Pattle Delamore Partners	UTILISING INTELLIGENT ALGORITHMS TO OPTIMISE CAPITAL INVESTMENTS AND ASSET REHABILITATION Joel Wilson – WCS	SNELLS BEACH WWTP: COLLABORATIVE WORKING FOR COST AND CARBON SAVINGS Douglas Bale – Mott Macdonald	OUR HIGHLY CRITICAL ASSETS – WHAT IS UNDER THE BONNET? Robert Blakemore – Wellington Water	Climate Change Workshop
2:00	INSPIRING A WATER SECTOR FUTURE Nina Ive & Dina Demiri – Tertiary Education Commission	THE HUMBLE WETLAND – A CARBON SUPERHERO? Kate Simmonds & Lucy Ferris – Jacobs	UNLOCKING THE BANGKOK RAIN RADAR NETWORK Liam Sutherland-Stacey – Weather Radar NZ & Nasrine Tomasi – Mott Macdonald	MODULAR TREATMENT SOLUTION EFFICIENCIES FOR HASTINGS DISTRICT COUNCIL Ryan Hunt & Steve Cave - Filtec Ltd	DYNAMIC ADAPTIVE PATHWAY PLANNING – ADDING FLEXIBILITY IN AN UNCERTAIN FUTURE Danielle Maynard – GHD & Apra Boyle-Gotla – WSL	
2:30	BRIDGING THE CAPABILITY GAP: LEVERAGING THE FINANCIAL ROI ON INDUSTRY TRAINING INTO BETTER BUSINESS OUTCOMES Clare Feeney – Environmental Communications Ltd		EARLY-WARNING NETWORKS FOR RAINWATER-DEPENDENT COMMUNITIES Zach Preston – EWBNZ	SMALL COMMUNITY WIN BY SMART PROCUREMENT THAT SAVES TIME AND PUTS MONEY BACK INTO THE LOCAL ECONOMY Simon Cartwright – Southern Cross Consulting	WAIPA DISTRICT METER AREA DESIGN Haiming Li – WSP	
3:00	Afternoon Tea – Exhibition Area					
	Thought Leadership Community & the customer	Thought Leadership: Climate Change	Workforce - Development, Capability & Training	Wastewater Treatment	Sustainability	Workshop Stream
3:30	ENGAGING WITH ACTIVISTS Eugene Doyle – Owhiro Bay Conservation Group	INSURING RESILIENT AND SUSTAINABLE COMMUNITIES INTO THE FUTURE Wendy Saunders - EQC	FUTURE PROOFING NEW ZEALAND - A GUIDE TO KNOWLEDGE SHARING Benjamin Bowden – Far North District Council	SUPERCritical UV: A NEW DISINFECTION TECHNOLOGY FOR HARD TO TREAT LIQUIDS Matthew Sells – Novolabs (A Massey Ventures Company)	BIOGAS PRODUCTION WITH HIGH CALORIC VALUE FROM WASTEWATER VIA HYDROGEN ASSISTED ANAEROBIC DIGESTION Afrooz Bayat – University of Canterbury	Climate Change Workshop
4:00	GIVING CUSTOMERS A VOICE IN SHAPING THE FUTURE Amanda Singleton – Watercare	CLIMATE ADAPTION Catherine Iorns Magallenes – Victoria University of Wellington	HOW TO RECRUIT STAFF IN A TIGHT LABOUR MARKET Greg Steele - Downer	PAIHIA WWTP, INNOVATIVE IN POND REMOVAL OF AMMONIA USING BIOSHELLS Andrew Springer – WSP	FROM CONCEPT TO REALITY: CENTRAL INTERCEPTORS INFRASTRUCTURE SUSTAINABILITY JOURNEY Olivia Philpott – Watercare Services Ltd	
4:30	GOOD CUSTOMER SERVICE DOESN'T EXIST WITHOUT COMPLAINTS Mary Olliver – Utilities Disputes Ltd	NET ZERO 2030 ROUTEMAP Maria Manidaki – Mott Macdonald	DEVELOPING ENGINEERING AS A CAREER PATH FOR MĀORI Jodie Hurley & Awhina Nqatuere – Aurecon & Toi Kai Rawa	CONTAINERISED WASTEWATER TREATMENT PLANTS HELP KEEP AUCKLAND'S GROWTH SUSTAINABLE Thomas Board – Apex Environmental	A SOCIAL VALUE BLUEPRINT FOR OUR AOTEAROA WATER SECTOR Alex Cheesebrough & Louise Loughnan – Jacobs	
6:00	“Our Shout” - Water New Zealand’s Pre-dinner Drinks					
7:00	Downer Conference Dinner					

THURSDAY 23 SEPTEMBER

8:30	Registration Opens	
9:00	Keynote: Associate Professor Huhana Smith – Massey University	Exhibition Visitors' Morning
9:45	Keynote: Allan Prangnell, Executive Director Three Waters - Department of Internal Affairs	
10:15	Morning Tea	
10:45	Keynote: Jon Lamonte, Chief Executive - Watercare	
11:15	WATER NEW ZEALAND SESSION	
12:15	Water New Zealand – The Next Year: Water New Zealand President Helen Atkins	
12:30	Conference Close	