

July 9, 2021

Craig MacMullin, MBA, CPA, CGA, Chair Halifax Water Halifax, Nova Scotia

The Annual General Meeting of the Halifax Water Board will be held virtually on Thursday, July 15, 2021 at 10:00 a.m. Visit <a href="https://www.halifaxwater.ca">www.halifaxwater.ca</a> to register to attend the meeting.

#### **AGENDA**

#### **Regular Reports**

- 1. Chair's Opening Remarks
- 2. Approval of Minutes of the 2020 Annual General Meeting, held on Thursday, July 18, 2020 *Motion*: That the Halifax Water Board approve the minutes of the July 18, 2020 Annual General Meeting.
- 3. Strategic Initiatives Overview
  - 2020/21 Accomplishments
  - 2021/22 Goals

#### **Capital Projects**

4. Major Capital Initiatives for 2021/22

#### **Financial**

5. Year End Financial Results – 2020/21

#### **Other Business**

- 6. Question and Answer Forum
- 7. Chair's Closing Remarks

Original Signed By:

Heidi Schedler Secretary









# **Strategic Initiatives Overview**

Annual General Meeting July 15, 2021

Cathie O'Toole General Manager

STRAIGHT from the SOURCE



#### 1 J Halifay Water

### **Our Vision**

- We will provide our customers with high quality water, wastewater, and stormwater services.
- Through adoption of best practices, we will place the highest value on public health, customer service, fiscal responsibility, workplace safety and security, asset management, regulatory compliance, and stewardship of the environment.
- We will fully engage employees through teamwork, innovation, and professional development.



### **Our Mission**

 To provide worldclass services for our customers and our environment.



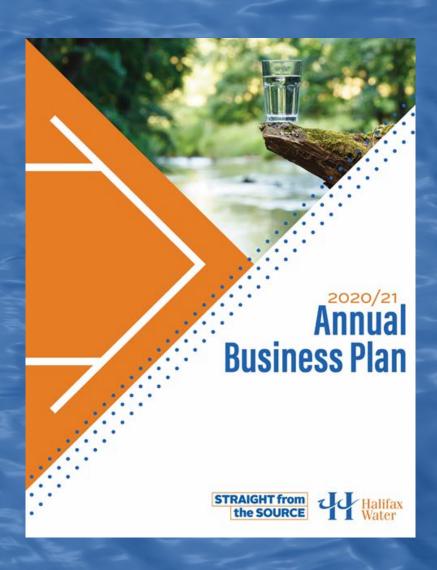
## **Critical Success Factors**

- High Quality Drinking Water
- Service Excellence
- Responsible Financial Management
- Effective Asset Management
- Workplace Safety and Security
- Regulatory Compliance
- Environmental Stewardship
- Motivated and Satisfied Employees

Business planning and performance measurement drives results



## Achievements in 2020/21



### **Water Services**



- Water research program Research on source lake recovery and geosmin continued with minor delay due to COVID-19.
- Continue Lake Major upgrades
   Incorporated in new Water Supply
   Enhancement Program
- Assure distribution system water quality during main breaks New standard operating protocol implemented
- Implement enhanced lead service line replacement program Launched in March 2021
- Complete lead service line renewals in conjunction with municipal projects – Berlin St. completed. Drummond Court & Leaman St. municipal projects were deferred
- Complete dam safety review and develop strategy to address findings – Dam safety review is complete and actioned

### **Wastewater & Stormwater Services**



- Complete first year of wastewater research and evaluate Completed and expanded to include COVID-19 WW research
- Confirm plan for HHSP upgrades to meet 2040 environmental compliance – Awaiting approval from NSUARB on timing of planning activities
- Complete wet weather management projects and explore private side I&I reduction – Wet weather management projects completed.
   Exploration of private side I&I programs on-going.
- Develop level of service standard for odour and strategy to achieve the standard – Completed and approved by HW Board
- ✓ Interface with municipality on flooding issues and stormwater Supporting Lot Grading By-Law, Halifax Stormwater Management Standards for Development Activities, and property specific issues
- Evaluate success of doing large cross culvert work in house Complete

## **Engineering & Information Services**



- NSUARB acceptance of 2019 Integrated Resource Plan Complete
- Optimize capital project delivery and improve % of annual capital budget spent – On-going
- Obtain approvals for East/Central depot consolidation Depot consolidation concept, and land purchase approved
- Support HRM Cogswell Area Redevelopment Land issues resolved and support for the project is on-going
- Water supply plant upgrades JD Kline and Lake Major Water Supply Enhancement Program developed
- Delivery of key IT projects (payroll, customer portal, ERP) Complete or on-track, other than ERP.
- GIS update of stormwater impervious area Complete
- Implement risk-based condition assessment and improved decisionmaking tools for asset management – On-going. NSUARB approval received in June 2021 for Analytics Decision Support System

#### vate. 7

## **Regulatory Services**

- NSUARB approval of updated Regional Development Charge Approved in October, effective May 31, 2022
- Commence corporate implementation of EMS Plan developed and resourced
- Maintain regulatory compliance and enhance reporting meeting requirements
- Ensure large water plants have NSE approvals or permission to operate –
   Approvals in place
- Implement new permitting system for engineering approvals Complete
- Evaluate ISO45001 (safety) certification and complete physical security audit – Delayed to 21/22 due to COVID-19
- Discuss point of sale disclosures with the NS Real Estate Commission –
   Carried forward to 21/22

## **Corporate Services**



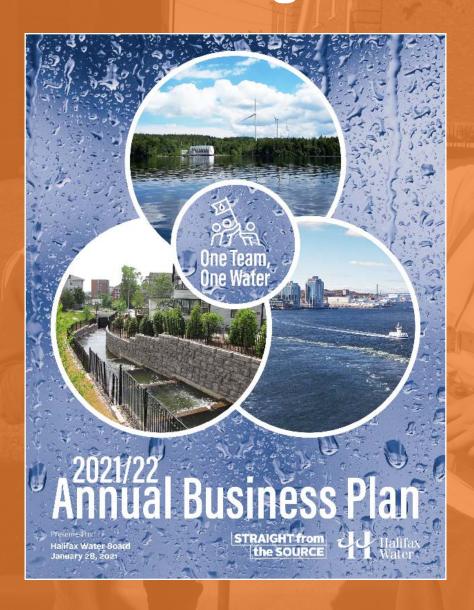
- Customer experience Customer Portal & use of AMI data –
   Launched November 2020
- Billing possible transition to HRM print shop, monthly billing and improved collections – Deferred to 21/22
- Enhancing linkages between Customer Care Centre and operations through CMMS – New telephony system and on-going work on integration with CMMS
- Operational and financial benefits of new enterprise resource planning system (ERP) – Capital project approved
- Updated funding strategies short term strategy adjusted due to COVID-19 to avoid water or wastewater rates increases in 20/21. No water rate increase in 21/22, however wastewater rates increased April 1, 2021, and RDCs increase May 31, 2022
- ✓ Improved Management and Board reporting Changes implemented

### **Administration**



- Obtain by-law and approvals for the Cogswell District Energy System – Bylaw complete and NSUARB ruling on regulatory status obtained.
- Operationalize enterprise risk management Program manager hired, ERM Board Committee established, and Steering Committee created.
- Update Governance Manual and board reporting Complete
- Train new supervisors and develop skills for all leaders in providing feedback - Complete
- Train all employees on psychological health and safety Complete
- ✓ Enhance customer communications a) water and wastewater rate increases and b) stormwater service – 20/21 initiatives complete, but this is an area for continuous improvement

## 2021/22 Strategic Initiatives



## **Operations - Water Services**



- Complete Water Quality Master Plan Version 4
- Secure approval for Water Supply Enhancement Program
- Fully implement enhanced algal monitoring as a permanent program
- Launch and successfully implement year 1 of the new LSL replacement program
- Implement findings from the dam safety review
- Recommend next steps for Water Loss Control program

# **Operations - Wastewater & Stormwater Services**

- Complete Biosolids Facility upgrade plan and progress procurement for Capital and Operating contracts
- Continue to implement wastewater research program as per plan submitted to NSERC
- Consult stakeholders on the plan for HHSP upgrades to meet 2040 compliance
- Complete Wet Weather Management projects and initiate any changes required to enable an effective private side I&I reduction program
- Communicate and implement actions from the odour strategy

## **Engineering & Technology Services**



- Optimize capital project delivery and improve % of annual capital budget spent
- Complete design and tender process for Burnside Depot construction
- HRM Cogswell Redevelopment infrastructure relocation
- Promote the multi-year Water Supply Enhancement Program (WSEP) and implement year-1 Clarifier Design Phase
- Develop a road map for data intelligent water and deliver key
   IT projects (Cyber Security and ERP)
- Finalize levels of service for asset management (AM), and evaluation of AM Program
- Monitor & report on Integrated Resource Plan progress

## **Regulatory Services**



- Implement an annual Regional Development Charge stakeholder consultation process
- Phase corporate implementation of the Environmental Management System (EMS)
- Maintain regulatory compliance and enhance reporting
- Launch new service account compliance program
- Evaluate ISO45001 (safety) certification and complete a physical security audit
- Enhance the stormwater credit program and support stormwater billing
- Develop a Climate Action Plan for Halifax Water that supports HalifACT 2050, and enhances coordination and reporting of climate change adaptation and mitigation initiatives

## **Corporate Services**



- Analyze impervious area data, and apply to adjust rates for stormwater service
- Integrate the Customer Connect portal and increase customer utilization
- Commence ERP design
- Update procurement policy and processes
- Improve financial forecasting and reporting
- Update Cost of Service Manual and apply for NSUARB approval
- Implement new bill design and monthly billing, and improve collection process

### **Administration**

- Obtain approval for regulations governing the Cogswell District Energy System
- Update Service Level Agreement with HRM
- Roll out updated Code of Conduct to all employees
- Roll out Risk Management Policy and update risk registers
- Engage next Dispute Resolution Officer for NSUARB approval, and plan transition
- Enhanced stormwater customer communication & education
- Complete unconscious bias training for managers and align Halifax Water with HRM culture & diversity initiatives

## **Summary**



- The proposed capital and operating budgets for 2021/22 support delivery of the 2021/22 Business Plan
  - Capital budget requirement \$126.2 million
  - Operating budget requirement \$155.2 million in total expenditures
- There are many business risks to be managed in order to achieve the objectives of the 2021/22 Business Plan; including on-going impacts of COVID-19
- Performance will be measured against the Corporate Balanced Scorecard (CBS) approved by the Halifax Water Board

## 2021/22 Business Plan

#### **Our Vision**

We will provide our customers with high quality water. wastewater, and stormwater

Through adoption of best practices, we will place the highest value on public health. customer service, fiscal responsibility, workplace safety and security, asset management, regulatory compliance, and stewardship of the environment.

We will fully engage employees through teamwork, innovation, and professional development.

#### Our Mission

To provide world-class services for our customers and our environment.



## One Team, One Water

#### Operations

#### Wastewater & Stormwater Services

- · Complete Biosolids Facility upgrade plan and progress procurement for Capital and Operations contracts
- Continue to implement Wastewater research program as per plan submitted to NSERC
- Stakeholder consultation on plan for HHSP upgrades to meet 2040 environmental compliance
- Complete Wet Weather Management projects and initiate any changes required to enable an effective private side I&I reduction program
- Communicate and implement actions from odour strategy

- Complete Water Quality Master Plan V4
- Secure approval for water treatment plant upgrade program (strategy)
- Fully implement enhanced algal monitoring program as a permanent program
- Launch and successfully implement year 1 of the new LSL replacement program
- Implement findings from dam safety review
- Develop a roadmap for data utilization and intelligent water
- Recommend next steps for Water Loss Control program

#### **Our Values**

Relationships: we nurture relationships with our customers, our team members and the environment. We are engaged in the neighbourhoods we serve and we support continual learning across our team.

Innovation: we are among the top utilities across the continent and we are known on the global stage. We always ask, "how can we improve efficiency, sustainability, creativity and the customer experience?"

Accountability: we refuse to cut corners. We check in with our excellence standards regularly and look to one another for support. Safety steers our decisionmaking. We are driven to make our policies. decisions and projects as clear as our drinking water.

Protection: Halifax Water protects the health and well-being of our population. We exist to guard natural resources, finding ways to sustain our communities and environment.

#### Administration

- · Obtain approval for regulations governing Cogswell District Energy System
- Update Service Level Agreement with · Roll out updated Code of Conduct to all
- employees Roll out training Risk Management Policy
- & update Corporate Risk Register Engage next Dispute Resolution Officer
- for NSUARB approval
- Enhance and roll out Stormwater customer communication and education
- Complete unconscious bias training for managers/supervisors and align Halifax Water with HRM culture & diversity

#### **Regulatory Services**

- Implement Regional Development Charge annual stakeholder consultation
- Phased corporate implementation of EMS
- Maintain regulatory compliance and enhance reporting
- Launch new service account compliance
- Evaluate ISO45001 (safety) certification and complete physical security audit
- Enhance stormwater credit program and
- continue support of stormwater billing Coordinate HalifACT 2050 Halifax Water climate change adaptation and mitigation projects



#### Corporate Services

- Analyze impervious area data, and apply to adjust rates for stormwater
- Integrate customer connect portal and continue to increase utilization
- Commence ERP design subject to NSUARB approval
- Update procurement policy and
- Improve financial forecast and
- Update Cost of Service Manual and apply for NSUARB approval
- Implement new bill design and monthly billing, and improve the collection process

#### **Engineering & Technical Services**

- · Optimize capital project delivery and %
- of annual capital budget spent Complete design and tender process for Burnside Depot construction
- HRM Cogswell Redevelopment infrastructure relocation
- Promote the multi-year Water Supply Enhancement Program (WSEP) and implement year 1 Clarifier design phase
  Deliver key IT projects (Cyber Security
- Finalize levels of service for asset management, and evaluation of Asset Management Program Monitor and report on progress of the
- Integrated Resource Plan

STRAIGHT from the SOURCE





https://halifaxwater.ca/sites/default/files/2021-03/2021-22-Annual-Business-Plan.pdf



## 2021/22 Major Capital Initiatives

Reid Campbell
Director of Engineering &
Technology Services

STRAIGHT from the SOURCE



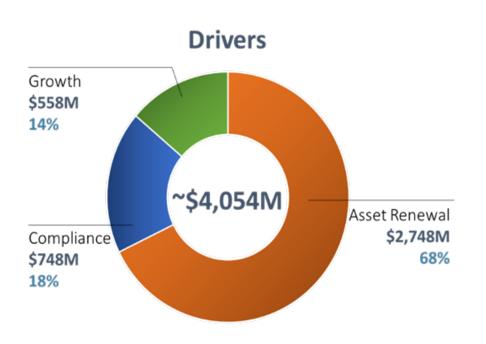


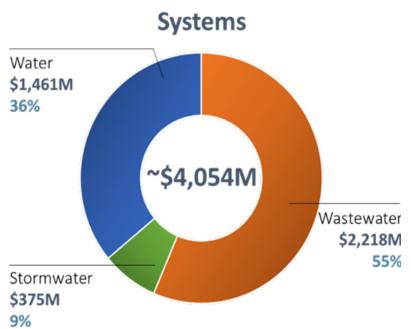
## The Path to Sustainability

- As a regulated utility, Halifax Water must recover its capital and operating costs in conformance with the Public Utilities Act of Nova Scotia.
- Ensure a continued or enhanced level of service to customers.
- Halifax Water must renew aging water, wastewater and stormwater infrastructure, maintain compliance with new federal wastewater regulations and facilitate growth.
- The latest Integrated Resource Plan (IRP) completed in 2019 indicates investments over 30-year period in the order of \$4.0 Billion.



## Recommended IRP Expenditures by Driver over 30 Years







2021/2022 **Capital Budget by Asset Class All Divisions** 



\$126,209,000



#### **Asset Category**

Water - \$36,540,000

#### Major projects:

- WSEP JD Kline and Lake Major Clarifier Design
- Cobequid Road Transmission Main Looping Windgate Drive Extension
- Water Distribution Main Renewal Program
- Lead Service Line Replacement Program
- Cowie Hill Reservoir Replacement
- HRM Cogswell Redevelopment Water Transmission Main Relocation





## Asset Category Wastewater - \$76,855,500

#### **Major Projects:**

- Fairview Cove Trunk Sewer Tunnel Construction
- Wastewater System Trenchless Rehabilitation Program
- Integrated Wastewater Collection Projects
- Albro Lake Watershed Separation
- Morris Lake and Russell Lake Forcemains Rehabilitation
- Pumping Station Rehabilitations
- Punch Bowl Pumping Station Elimination
- Halifax WWTF Fine Screen Replacements and Clarifier Upgrades
- HRM Cogswell Redevelopment Wastewater Sewer Relocation
- Biosolids Processing Facility Preliminary Design



## Asset Category Stormwater - \$12,813,500

#### Major Projects:

- Integrated Stormwater Collection Projects
- Driveway and Cross Culvert Renewal Program
- Ellenvale Run Retaining Wall System Replacement Phase 5
- HRM Cogswell Redevelopment Storm Sewer Relocation





## Asset Category Corporate Projects - \$24,355,000

#### **Project Highlights:**

- IT Strategic Plan Implementation Year 4
  - Enterprise Resource Planning Solution
  - Cybersecurity Program
- Corporate Flow Monitoring Program
- Detailed Design of Burnside Operations Facility
- Fleet Upgrade Program



# **Questions or Comments?**







## Year End Results 2020-21

Annual General Meeting July 15, 2021





## Year End Results 2020-21: Highlights

- Clean audit opinion
- Loss of \$(0.9)M based on International Financial Reporting Standards (IFRS) accounting and loss of \$(9.9)M based on NSUARB Water Utility Accounting and Reporting Handbook (Handbook).
  - Financial Statements and notes are based on IFRS.
  - Schedules A to E of audited statements are based on NSUARB Handbook which is used for rate setting.
  - No major changes to financial statements or reporting this year.



## Statement of Financial Position – Assets

				From Pr	ior Year
March 31 (in thousands)		2021	2020	\$ Change	% Change
Total current assets	\$	89,913	\$ 92,131	\$ (2,218)	-2.4%
Total non-current assets		1,334,399	1,320,877	13,522	1.0%
Total assets and regulatory deferral account	\$	1,424,312	\$ 1,413,008	\$ 11,304	0.8%

- Current assets decreased by \$2.2M, lower earnings, debenture delay, and Stormwater bills sent later than prior year.
- Non-current assets increased by \$13.5M:
  - Capital work in progress increased \$12.8M due to expenditures of \$60.4M offset by transfers to utility plant in service and intangibles.
  - \$51.2M transferred to utility plant in service and intangibles offset by depreciation and amortization expense. Larger assets capitalized were: Port Wallace Transmission Main \$5.9M, Land \$4.8M, Inflow/Infiltration Reduction Projects \$2.3M, Corporate Flow Monitoring Program \$1.8M, and Bennery Access Road Upgrade \$1.5M.

2

## Statement of Financial Position – Liabilities and Equity



					From Pr	ior Year
March 31 (in thousands)	2021		2020		\$ Change	% Change
Total current liabilities	\$	58,716	\$	67,524	\$ (8,808)	(13.0%)
Total long term liabilities		1,161,818		1,140,787	 21,031	1.8%
Total liabilities		1,220,534		1,208,311	12,223	1.0%
Total equity		203,778		204,697	 (919)	(0.4%)
Total liabilities and equity	\$	1,424,312	\$	1,413,008	\$ 11,304	0.8%

- Current liabilities decreased by \$8.8M due to reduced capital spend.
- Long term liabilities increased by \$21.0M:
  - Deferred contributed capital increased \$4.5M due to contributed asset additions, collection of Regional Development Charges (RDC) and interest earned, offset by amortization.
  - Long term debt increased \$5.5M (new debt \$25.0M; repayments \$19.5M).
  - The employee benefit obligation increased \$10.4M as FMV assets increased and the discount rate used to measure the obligation decreased.
- Debt service ratio in 20.29% below the HRM debt guarantee ratio of 35%,



## Summarized Comprehensive Earnings

Summarized Comprehensive Earnings									
	2020/21 '000			2019/20 '000		Change	% Change		
Operating revenues	\$	136,569	\$	137,750	\$	(1,181)	(0.9%)		
Operating expenditures		141,973		139,040		2,933	2.1%		
Loss from operations before financial and other revenues and expenditures		(5,404)		(1,290)		(4,114)	318.9%		
Financial and other revenues		19,773		20,236		(463)	(2.3%)		
Financial and other expenditures		11,867		12,611		(744)	(5.9%)		
Earnings for the year before regulatory deferral account depreciation		2,502		6,335		(3,833)	(60.5%)		
Regulatory deferral account depreciation		(192)		(192)		-	0.0%		
Earnings for the year		2,310		6,143		(3,833)	(62.4%)		
Other comprehensive (loss) earnings		(3,229)		14,756		(17,985)	(121.9%)		
Total comprehensive (loss) earnings for the year	\$	(919)	\$	20,899	\$	(21,818)	(104.4%)		

- Consumption is down 1.85% on a volumetric basis (\$1.5M), stormwater revenue decreased \$0.2M and fire protection revenue increased \$0.4M.
- Wage rate increases and 3 net new positions, increased chemical costs, lower accrued pension expense and depreciation increases.
- Other comprehensive earnings (OCI) increased as function of the change in the liability for employee benefits. The OCI adjustment at year-end was a loss of \$3.2M.

## IFRS vs NSUARB Net Income - Reconciliation



Reconcile IFRS to NSUARB									
	,	2020/21	2019/20						
		'000	'000						
IFRS comprehensive (loss) earnings	\$	(919)	\$ 20,899						
Add non-cash pension expense		7,086	8,382						
Subtract debt principal payments		(20,379)	(18,719)						
Add depreciation expense on contributed assets		18,810	19,025						
Subtract amortization of contributed capital		(18,810)	(19,025)						
Add various depreciation adjustments		1,100	2,634						
Add (subtract) OCI loss (gain)		3,229	(14,756)						
NSUARB loss	\$	(9,883)	\$ (1,560)						

- Accrued pension is not an expense for NSUARB.
- Principle payments on long term debt is an expense for NSUARB.
- Depreciation expense on contributed assets is not an expense for NSUARB, offset by the removal of the amortization of contributed capital.
- Various depreciation adjustments.



### **NSUARB Handbook Results**

Summarized Statement of Earnings										
		Budget 2020/21 '000		Actual 2020/21 '000		Actual 2019/20 '000	Bu	2020/21 dget/Actual Variance	2020/21 Budget/Actual % Variance	
Operating revenues Operating expenditures	\$	138,615 118,111	\$	113,689	\$	137,750 109,326	\$	(2,046) (4,422)	(1.5%) (3.7%)	
Earnings from operations Financial and other revenues		20,504 620		22,880 963		28,424 1,211		2,376 343	11.6% 55.3%	
Financial and other expenditures Loss for the year	\$	37,077 (15,953)	\$	33,726 (9,883)	\$	31,195 (1,560)	\$	(3,351) 6,070	(9.0%)	

- Revenues are consistent with IFRS.
- Operating expenditures lower by \$4.4M due to lower training, deferral of new positions and lower consulting costs.
- Financial and other revenues increased due to higher interest earned.
- Financial and other expenditures were lower due to delays in issue of long term debt.

### **NSUARB Handbook Results**



Operating Results by Service										
	E	Budget	Actual		Actual	2020/21	2020/21			
	2	020/21	2020/21		2019/20	Budget/Actual	Budget/Actual			
		'000	'000		'000	\$ Variance	% Variance			
Water	\$	(4,275) \$	495	\$	5,205	\$ 4,770	(111.58%)			
Wastewater		(7,845)	(7,958)		(5,035)	(113)	1.44%			
Stormwater		(3,833)	(2,420)		(1,730)	1,413	(36.86%)			
Loss	\$	(15,953) \$	(9,883)	\$	(1,560)	\$ 6,070	(38.05%)			

Operating Results by Activity											
		Budget	Actual	Actual	2020/21	2020/21					
		2020/21	2020/21	2019/20	Budget/Actual	Budget/Actual					
		'000	'000	'000	\$ Variance	% Variance					
Regulated activities	\$	(16,259) \$	(10,710) \$	(2,260)	\$ 5,549	(34.13%)					
Unregulated activities		306	827	700	521	170.26%					
Loss	\$	(15,953) \$	(9,883) \$	(1,560)	\$ 6,070	(38.05%)					

- Water services earnings of \$0.5M was \$4.7M more than budget due to lower operating expenditures and debt payments.
- Wastewater services loss of \$8.0M was \$0.1M more than budget \$4.5M due to lower revenues offset by lower operating expenditures and debt payments.
- Stormwater services loss of \$2.4M was \$1.4M less than budget due to lower operating expenditures and debt payments.
- Unregulated activities due to lower costs to treat septage and airline effluent.



## Challenges – 2021/22 and beyond

- Review of the manual used to allocate cost and Rate Design
- Improve the predictive capabilities for revenues using AMI data
- Managing operating costs for 2021/22 and identifying savings where possible
- Managing accounts receivable to improve collections
- Improving capital spend
- Developing the budget for 2022/23 with a go forward funding strategy that is able to smooth future rate increases
- Impact of decisions on Stormwater service expansion



## **Questions?**

## Thank you



