CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF MAY 23, 2018

Item 8, Report No. 5, of the Finance, Administration and Audit Committee, which was adopted without amendment by the Council of the City of Vaughan on May 23, 2018.

8 CLEAN WATER AND WASTEWATER FUND AWARDED PROJECTS <u>FUNDING REALLOCATION</u>

The Finance, Administration and Audit Committee recommends approval of the recommendation contained in the following report of the Deputy City Manager, Public Works and the Chief Financial Officer and City Treasurer, dated May 7, 2018:

Recommendations

1. That Council authorize the City Treasurer to apply the required budget amendment to the existing approved capital funding arising from the CWWF funding reallocation.

(A copy of the attachments referred to in the following report have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)



Finance, Administration and Audit Committee Report

DATE: Monday, May 07, 2018 WARD(S): ALL

TITLE: CLEAN WATER AND WASTEWATER FUND AWARDED PROJECTS FUNDING REALLOCATION

FROM:

Stephen Collins, Deputy City Manager, Public Works

Laura Mirabella, Chief Financial Officer and City Treasurer

ACTION: DECISION

Purpose

To provide Council with a status update on the Clean Water and Wastewater Fund (CWWF) awarded projects and to obtain Council approval on the CWWF projects funding reallocation.

Recommendations

1. That Council authorize the City Treasurer to apply the required budget amendment to the existing approved capital funding arising from the CWWF funding reallocation.

Report Highlights

- The City received notices on June 25 and July 28, 2017 from the Ministry of Infrastructure indicating that all projects submitted for the CWWF had been approved for funding.
- A CWWF Task Force was formed, led by the DCM of Public Works, to facilitate a collaborative effort amongst various city departments.
- Budgets have been appropriately established, procurement plans have been developed and project management teams have been identified for CWWF projects in accordance to requirements in the original CWWF Transfer Payment Agreement.
- The CWWF Program timeline has been extended to March 31, 2020 from original deadline of March 2018.
- An opportunity emerged in January 2018 for the City to maximize potential grant funding inflow by reallocating surplus funds resulting from savings from existing projects to other projects up to the limit of the grant approval
- The funding reallocation application was submitted to Infrastructure Ontario on January 31, 2018 and was approved by the Federal Government on April 9, 2018.

Background

The Ministry of Infrastructure notified the City in June and July 2017 that CWWF grant money was approved for 34 projects

The Clean Water and Wastewater Fund (CWWF) is a federal program designed to accelerate short-term community investment supporting projects that will contribute to the rehabilitation, modernization, and planning and design of drinking water, wastewater and stormwater infrastructure.

The City received notices on June 25 and July 28, 2017 from the Ministry of Infrastructure indicating that all projects submitted for the CWWF had been approved for funding.

The CWWF grants will assist in funding thirty-four (34) projects including: VMC Edgeley Pond and Park, Centre Street Watermain Replacement, Stegman's Mill Watermain Replacement, Andrew Park/Button/Marilyn Place/ North Humber Road Watermain Replacement, Clarence Street Slope Stabilization, watermain condition assessments and various water metering related programs.

Pursuant to the requirement of the Clean Water and Wastewater Fund, the CWWF Transfer Payment Agreement was executed on September 25, 2017 by the Mayor and the City Clerk, as per the authority provided in June 28, 2016 Council Resolution.

Previous Reports/Authority

<u>N/A</u>

Analysis and Options

The CWWF grant award has supported the City's ability to immediately fund projects that would otherwise have been deferred in the short term or to alleviate funding pressure on existing capital programs that are underway.

Given the amount of awarded funding and the significant short term and long term positive impact on the community, a Task Force was formed, led by the DCM of Public Works, to facilitate a collaborative effort amongst various city departments. Throughout the summer months of 2017, staff from several departments across the City worked quickly and diligently to take the following actions to ensure all projects are carried out in accordance with the CWWF Agreement terms and conditions.

- Budgets had been appropriately established for CWWF projects and the details of the resulting 2017 budget amendment was communicated through the City's 2017 Q2 Quarterly Fiscal Health Report presented at the September 20, 2017 Finance, Administration and Audit Committee
- Procurement plans had been developed to ensure that contracts are consistent with and incorporate the relevant provisions of the CWWF agreement while allowing goods and services to be tendered in a timely fashion
- Project management teams had been identified to ensure smooth delivery of the CWWF funded infrastructure

The original deadline to complete all CWWF funded projects was March 31, 2018

Originally, the Clean Water and Wastewater Fund Program Guidelines specified that projects must be complete with all costs incurred prior to March 31, 2018. Extensions required a pre-approval by the Province and the Federal Government for potential extension to March 31, 2019 provided that the need is demonstrated and minimum of 60 percent of the costs would be incurred prior to March 31, 2018.

The City received notification that the CWWF funded projects had been granted an extension to March 2020

The timelines required to deliver these projects within the grant requirement dates were extremely aggressive which in turn could impose risks of possible higher bid prices and rushed project delivery. In addressing those potential risks, staff identified timeline extensions and scope changes required for successful project completion and submitted a request to Infrastructure Ontario on September 5, 2017. The City received confirmation from Infrastructure Ontario on December 20, 2017 that the request for project extension

to March 31, 2019 had been approved by the federal government, with a condition that each project be 60 percent complete by March 2018.

Coordination continued between City staff and the senior levels of government in assisting the City to respond to new CWWF program developments. In addition, the Task Force team participated in the province's advocacy effort which urged the federal government to provide further flexibilities in project timelines and scope changes.

On January 4th, 2018, staff received an email notification from Infrastructure Ontario that the CWWF Program had extended the program timeline to March 31, 2020.

A CWWF webinar in January 2018 advised that re-allocation of grant money within the existing approved projects would be entertained

On January 24th, 2018, staff participated in a CWWF webinar hosted by Infrastructure Ontario. CWWF recipients were told during the webinar that there would be an opportunity to submit a scope change request and Infrastructure Ontario would consider the financial impact on CWWF projects. Further, the requirement for projects to be 60 percent complete by March 2018 was relaxed. The City was also given the authority to reallocate funds to approved projects up to the limit of the grant approval to offset over and under funding of tendered projects, provided one that the reallocation was required because of scope change; and two an application for the reallocation was submitted to the federal government by January 31, 2018.

The City took advantage of the re-allocation and submitted information to Infrastructure Ontario to maximize the grant

The Task Force considered the timeline extension and funding reallocation as a great opportunity for the City to help manage capital project risk and to help ensure overall grant funding is maximized. The Task Force reviewed the tender results for each project, revised project cost estimates, re-prioritized projects and put together a proposed scope change and funding reallocation and submitted the request to Infrastructure Ontario before the deadline.

Staff received confirmation that the re-allocation was approved

Staff received confirmation from Infrastructure Ontario that the scope change and the funding reallocation had been approved by the Federal Government on April 9, 2018.

Financial Impact

The total eligible cost approved for CWWF funding was maximized at \$27.80 million, of which \$13.90 million was to be funded from the Federal CWWF program contribution, \$6.95 million was to be funded from the Provincial CWWF contribution and the remaining \$6.95 million was to be funded by the City.

Given that the CWWF application was prepared under a very tight timeline, it reflected the best reasonable estimate of the project costs based on information available at the time of the grant application. Procurement results indicated that close to \$5.0 million in cost savings is expected from some CWWF projects. Therefore, the proposed funding allocation aims to maximize the City's CWWF grant funding by reallocating funds within the funding limit.

Broader Regional Impacts/Considerations

York Region received CWWF funding for twenty-nine (29) regional projects; advancing regional capital projects through third party funding benefits local municipalities through continued provision of reliable Regional water and wastewater services.

Conclusion

The City received confirmation that all thirty-four (34) projects submitted for the CWWF grant had been approved for funding. Completion of these projects is essential to keeping our communities safe, healthy and livable. A task force was formed, led by the DCM of Public Works, to facilitate a collaborative effort amongst various city departments and to address action items in a timely and appropriate manner.

An opportunity emerged in late January for the City to maximize potential grant funding by reallocating funds to approved projects up to the limit of the grant approval. The application for funding reallocation was submitted to Infrastructure Ontario on January 31, 2018 and was approved by the Federal Government on April 9, 2018.

For more information, please contact:

Maggie Wang, Manager, Corporate Financial Planning & Analysis, Ext. 8029

Attachments

1. The CWWF Awarded Projects Funding Reallocation List

Prepared by

Maggie Wang, MBA, CPA, CGA, A.I.M.A., Manager, Corporate Financial Planning & Analysis, Ext 8029 CWWF Task Force Team



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	Project Information			Financial Information after Funding Reallocation					Financial Information Prior to Funding Reallocation			
Unique Project ID	Project Title	Project Description	Total Project Cost	Total Eligible Cost	Program Contribution (Eligible Expenditures)	Provincial Contribution (Eligible Expenditures)	Municipal Contribution (Eligible Expenditures)	Total Project Costs before Funding Reallocation	Program Contribution (Eligible Expenditures)2	Provincial Contribution (Eligible Expenditures)2	Municipal Contribution (Eligible Expenditures)3	
	Oakbank Pond Aeration System: to improve water quality and pond environment.	Retrofit, install / upgrade to the aeration system in Oakbank Pond. Oakbank Pond is a self contained pond that receives over-land runoff (stormwater) from the surrounding neighborhood. The pond supports various amphibians and wildlife. Because of urbanization pressures the pond requires aeration to promote and sustain pond health. Oakbank pond covers 18,000 sq.m.Additional scope to include implimentation of preliminary works associated in support of the project.										
VAU-001	Pulk Water Stations (4)	Potrofitting (including electrical, mechanical and civil works) and upgrade of the controls and	\$133,248.00	\$119,435.00	\$59,717.50	\$29,858.75	\$29,858.75	\$116,390.00	\$51,500.00	\$25,750.00	\$25,750.00	
VALL 002	Automated Billing System Retrofit	automated billing system on the existing four (4) bulk water filling stations. Bulk water access is required to support the City-wide building boom and to minimize water theft and non-revenue water Based on expert input scope redefined	6426 202 00	¢122.164.00	¢61.082.00	¢20 E41 00	¢20 541 00	¢220.000.00	¢150.000.00	¢75 000 00	Ê75 000 00	
VA0-002	City of Vaughan Distribution	As part of the City's infrastructure review and risk analysis, this project will use HydroVAC and	\$150,295.00	\$122,104.00	\$01,082.00	\$50,541.00	\$30,541.00	\$559,000.00	\$150,000.00	\$75,000.00	\$75,000.00	
VAU-003	Watermain Condition Assessment	regular excavations to davlight/expose water mains to assess and log the pipe control on a prioritize future replacements, The actual project value came back lower than the estimated costs due to following reasions: (a) initial scope was developed based on the information available at that time; (b) Market condition and lots of interest within the consulting industry	\$453,604.00	\$406,581.00	\$203,290.50	\$101,645.25	\$101,645.25	\$678,000.00	\$300,000.00	\$150,000.00	\$150,000.00	
	Detailed Design and Phase LA construction for the Edgeley Stormwater Management Pond Improvements in the Vaughan Metropolitan Centre	Detailed Design Scope This project will complete the design of improvements to the City's existing storm water management pond. The goal of this project is to create a signature public destination that provides innovative sustainable stormwater management, highlights historic and cultural value of the area, incorporates active and passive recreation and advances Vaughan's city-building efforts in light of the significant transit investments in the downtown. Redevelopment of Edgeley Pond and Park, as part of the Black Creek corridor renewal, is important to moving development in Vaughan's new downtown forward. The project will involve an extensive consultation with stakeholders, landowners, agencies, and the public. The detailed design process will be developed over 2017 and early 2018. Phase 1A Construction Scope This project will complete the initial phase of construction improvements to the City's existing storm water management pond. This initial phase of the project will involve the majority of civil works including site preparation, mobilization, earthworks, erosion and sediment control. Anticipated start of construction is Q2-2018 with an expected completion of Q1 2020. Overall Phase 1 works including landscape will be completed in 2020.										
VAU-004			\$4,888,688.54	\$4,327,158.00	\$2,163,579.00	\$1,081,789.50	\$1,081,789.50	\$3,720,138.54	\$1,646,079.00	\$823,039.50	\$823,039.50	
VAU 005	Black Creek Renewal Class- E nvironmental Assessment- Study	This Class Environmental Assessment (EA) Study will be conducted as a follow up to the Black Creek- Optimization Master Plan Class EA, and will look at alternative design concepts and a preferred- solution for the required creek improvements between Highway 7 and Highway 407 on the east side of Jane St.	\$ 378,550.00	\$335,000.00	\$ 167,500.00	\$83,750.00	\$83,750.00	\$378,550.00	\$167,500.00	\$83,750.00	\$83,750.00	
VAU-006	City of Vaughan Replacement of Out of Calibration Residential, Commercial and Institutional Water Meters	This project will identify and replace residential, commercial and institutional water meters that do not meet the American Waterwork's Association (AWWA) industry standard specifications of plus/minus 1.5% accuracy and that cannot be calibrated in the field (approx. 3000 residential water meters and approx. 600 Industrial, Commercial and Institutional water meters). The actual project value came back lower than the estimated costs due to following reasions: (a) initial scope was developed based on the information available at that time; (b) Market condition and lots of interest within the consulting industry the accual came back slightly lower (less than 3%) than the estimated cost due to market condition.	\$2,254,315.60	\$1,998,677.30	\$999,338.65	\$499,669.33	\$499,669.33	\$2,260,000.00	\$1,000,000.00	\$500,000.00	\$500,000.00	
VAU-007	Investigation and Design of 15 culverts in the northern rural areas - City Wide	Investigation and Design of various culverts in preparation for the replacement/ rehabilitation of 15 existing corrugated steel pipe culverts which are located in the northern rural areas of the City of Vaughan. The existing corrugated steel pipes have deteriorated and may impact their ability to convey the desired storm water during a major storm event as well as to protect the structural integrity of the roadway.	\$98,000.00	\$86,500.00	\$43,250.00	\$21,625.00	\$21,625.00	\$128,029.00	\$56,650.00	\$28,325.00	\$28,325.00	
VAU-008	Repair and Rehabilitation of Pump Stations and Booster Station	The City of Vaughan's Condition Assessment of older wastewater lift stations and water pumping stations will include recommendations which will be applied to this project to identify equipment and process improvements and to develop a comprehensive maintenance program to augment our existing program, repair/replacement and capital improvement program. The Condition Assessment involved a comprehensive field investigation in Q4-2016 and early Q1-2017 that documented improvements related to standby generators, noise protection, vertical exhaust stacks, electrical wiring, access hatches, pressure gauges, fall arrest, ventilation, impeller operation, bar screen, overflow piping, access hatches. The recommendations focused on the appropriate intervention to address the observed issue. Interventions included repair, replace/reconstruct, install/construct, or inspect/further assess.	\$635.154.00	\$569.312 00	\$284.656.00	\$142.328.00	\$142.328.00	\$644.100.00	\$285,000,00	\$142.500.00	\$142.500.00	
	Maplewood Booster Station	Complete the design for the Upgrade of controls to include variable speed drive's (VFD's) to improve										
VAU-009		consumption, and TSSA compliant stand-by generator	\$208,950.43	\$177,837.00	\$88,918.50	\$44,459.25	\$44,459.25	\$169,500.00	\$75,000.00	\$37,500.00	\$37,500.00	

Project Information		Financial Information after Funding Reallocation					Financial Information Prior to Funding Reallocation				
						Provincial	Municipal	Total Project	Program	Provincial	Municipal
Unique	Droject Title	Deviast Description	Total Droject Cost	Total Elizible Cost	Program	Contribution	Contribution	Costs before	Contribution	Contribution	Contribution
Project ID	Project Intie	Project Description	Total Project Cost	Total Eligible Cost	Exponditures)	(Eligible	(Eligible	Funding	(Eligible	(Eligible	(Eligible
					Experiarcares)	Expenditures)	Expenditures)	Reallocation	Expenditures)2	Expenditures)2	Expenditures)3
	Pressure District Assessment	This study will review existing pressure districts/zones in order to develop a strategy and make									
	and District Metering Area Strategy for Non-Revenue Water	recommendations on future improvements, and to provide a strategy for the implementation of District Metering Areas for the reduction of non-revenue water. Major growth in the distribution									
	Reduction	system and increases in non-revenue water have driven this project. Revised scope to include									
		additional field testing requirements and additions due to weather constraints.									
VAU-010			\$574,348.50	\$511,383.10	\$255,691.55	\$127,845.78	\$127,845.78	\$452,000.00	\$200,000.00	\$100,000.00	\$100,000.00
	Smart Water Metering - City	A study to report on the feasibility, costs, benefits and schedule to install an automated meter									
	Wide Automated Meter Reading	reading system and associated infrastructure.									
	Infrastructure (AMI)	revenue water and district meter areas to lower and measure unaccounted for water: A smart meter									
	Implementation and Costing	system will allow customers to view their up to date consumption and billing info which promotes									
	Strategy	conservation and wise use of water; Provide a customer-focused solution which enhances abilities									
		to identify leaks, water quality and/or safety issues; Determine the most cost effective method to									
		deliver smart metering and associated technologies; Enhance accuracy of water meter billing (e.g.									
		hard to read meters and estimated reads). Additional scope to verify existing meter size at premises that went under a change of usage prior to remplacement of a new meter.									
VAU-011		that were under a change of usage profito remplacemite of a new meter.	\$967,672.40	\$857,953.70	\$428,976.85	\$214,488.43	\$214,488.43	\$847,500.00	\$375,000.00	\$187,500.00	\$187,500.00
	Non-Revenue Water Assessment	This study will produce a report identifying area gaps in measurement and water loss with capital									
	and Reduction	and financial recommendations. The 2017 budget for unmetered (non-revenue) water is at 13.00%									
	Recommendations	or approximately \$14 M.									
		Ine non-revenue water (NRW) can be broken down as: apparent losses – customer meter									
		suppression, main flushing and maintenance. The actual project value came back lower than the									
		estimated costs due to following reasions: (a) initial scope was developed based on the information									
		available at that time; (b) Market condition and lots of interest within the consulting industry									
VAU-012			\$247,686.50	\$220,541.90	\$110,270.95	\$55,135.48	\$55,135.48	\$305,100.00	\$135,000.00	\$67,500.00	\$67,500.00
	Vaughan Corrosion Control	Implementation of the work includes an assessment to plan, cost and assess what is required to-									
	Implementation Strategy	of all appurtenances and infrastructure reducing future capital costs in the distribution system. The									
		original funding deadline created timing constraints and inclement weather conditions impacted the									
VAU-013		higher project cost	\$656,622.78	\$588,554.96	\$294,277.48	\$147,138.74	\$147,138.74	\$452,000.00	\$200,000.00	\$100,000.00	\$100,000.00
	Rehabilitation of Four	Removal of accumulated sediment to improve functionality of the stormwater pond. Sediment									
	Design Volumes and Efficiencies	removal also improves water quality in receiving watershed. Given that a majority of the targeted									
	besign volumes and empletered	cleanouts will be extremely beneficial in improving the surrounding watersheds. The removal works									
		are capitalized as they extend the life of the asset. Additional site preparations, including purchase									
		of gravel for road construction, were required to allow heavy equipment to access the site.									
VAU-014	Cituuida Capitan, Courar Custom	This project will conduct a closed size it tolevision inspection of 172,002 m coniton, and storm	\$1,383,869.59	\$1,286,483.61	\$643,241.81	\$321,620.90	\$321,620.90	\$565,000.00	\$250,000.00	\$125,000.00	\$125,000.00
	Inflow and Infiltration	sewers and piping to inform capital asset management program. The City's 10% closed-circuit									
	Monitoring Program (Closed-	television program is structured to investigate various areas of the City of Vaughan over a 10 year									
	circuit television Inspection)	cycle. We would accelerate the program in some of our older areas where the construction material									
		is more susceptible to hydraulic and structural issues. The actual project value came back lower									
		than the estimated costs due to following reasions: (a) initial scope was developed based on the									
VAU-015		industry	\$350,627.28	\$314,279.96	\$157,139.98	\$78,569.99	\$78,569.99	\$565,000.00	\$250,000.00	\$125,000.00	\$125,000.00
	Citywide Sanitary Sewer System	This project will install and monitor flow meters and micro meters within mini basins identified as									
	Inflow and Infiltration	high priority areas. The data will be analyzed for significant Inflow/Infiltration occurrences and rain									
	Monitoring Program (Flow	gauge data will be utilized in support of the flow monitoring program and associated data analysis.									
	meters and micro meters)	to support York Regions mandate from the Ministry of the Environment and Climate Change to									
		reduce Inflow and Infiltration in York Region. Inflow and infiltration contribute unnecessary water to									
		wastewater collection and treatment system resulting in higher operational costs. The City of									
		Vaughan developed an Inflow and Infiltration Reduction Program which notes Flow Monitoring as a									
		key component of the Program. High priority areas will be identified using the Region of York's flow									
		monitoring data, past records of sewer surcharges and conveyance constraints, high peak flows during wet weather conditions and intensification corridors identified under the City of Vousbook									
		Official Plan. The actual project value came back lower than the estimated costs due to following									
		reasions: (a) initial scope was developed based on the information available at that time; (b) Market									
		condition and lots of interest within the industry									
VAU-016	Undate water models undate	This project will update the water model to perform hydraulic applycic on the water distribution	\$219,416.00	\$196,671.00	\$98,335.50	\$49,167.75	\$49,167.75	\$226,000.00	\$100,000.00	\$50,000.00	\$50,000.00
	of the water distribution system	system. This work will inform the capital asset management program, and will help optimize system.									
	hydraulic analysis model	efficiencies, and support development. The actual project value came back lower than the estimated									
		costs due to following reasions: (a) initial scope was developed based on the information available									
VALL 017		at that time; (b) Market condition and lots of interest within the consulting industry	(ara aac ++	6226 402 02	ć110.000.00	CEC EAE OF	CEC EAR OF	¢440,400,00	6104 544 50	602.274.00	602 274 20
VAU-01/			\$252,338.41	\$226,180.03	\$113,090.02	\$56,545.01	\$56,545.01	\$418,100.00	\$184,541.50	\$92,271.00	\$92,271.00

Project Information		Financial Information after Funding Reallocation					Financial Information Prior to Funding Reallocation				
					Program	Provincial	Municipal	Total Project	Program	Provincial	Municipal
Project ID	Project Title	Project Description	Total Project Cost	Total Eligible Cost	Contribution (Eligible	Contribution (Fligible	(Fligible	Costs before Funding	Contribution (Fligible	Contribution (Fligible	(Fligible
i roject ib					Expenditures)	Expenditures)	Expenditures)	Reallocation	Expenditures)2	Expenditures)2	Expenditures)3
	Update wastewater models - update of the wastewater	Update the wastewater model to perform hydraulic analysis on the wastewater collection system to inform the capital asset management program, optimize system efficiencies and assist development.									
	collection system hydraulic	The actual project value came back lower than the estimated costs due to following reasions: (a)									
	analysis model	initial scope was developed based on the information available at that time; (b) Market condition	6242.007.00	6207 242 70	6452 C74 20	676 025 60	676 025 60	¢ 4 4 0 0 0 0 0 0	6404 544 50	602 274 00	602 274 00
VAU-018	Church Street Stormwater	The Church St. Storm Pumping Station is a small stormwater pumping station comprising a concrete	\$342,887.80	\$307,342.78	\$153,671.39	\$76,835.69	\$76,835.69	\$418,100.00	\$184,541.50	\$92,271.00	\$92,271.00
	pumping station pump	wet well (estimated volume of 3 m3) housing a single 0.5 horsepower submersible pump, and an									
	improvements	above grade control panel. The wet well inlet is constantly submerged indicating the stormwater									
		will be replaced along with float system and minor electrical upgrades to improve the performance									
		of the pumping system. In addition, the forcemain will be further evaluated to determine the cause									
		of the clogging issue. Stand-by equipment will be rquired to ensure pumping is not interrupted during the retrofit of the pumping station.									
VAU-019			\$55,957.70	\$50,156.79	\$25,078.40	\$12,539.20	\$12,539.20	\$52,375.50	\$23,175.00	\$11,587.50	\$11,587.50
	Renabilitation of Sugar Bush Road Stormwater Pond to	Removal of accumulated sediment to improve functionality of the stormwater pond. Given the significant size of this pond, cleaning of the forebay will the main focus of the clean-up. A									
	Restore Design Volumes	bathymetric survey will be completed to determine the volume of sediment to be removed. The									
		sediment will be analyzed to determine the appropriate disposal location. The removal works are									
		cleanouts (refer to VAU-014), additional site preperations will be required prior to pond cleaning.									
VAU-020			\$232,886.60	\$216,423.10	\$108,211.55	\$54,105.78	\$54,105.78	\$87,292.50	\$38,625.00	\$19,312.50	\$19,312.50
	Stormwater Pond to Restore	survey will be completed to determine the volume of sediment to be removed. The sediment will be									
	Design Volumes	analyzed to determine the appropriate disposal location. An excavator will be utilized to									
		temporarily stockpile sediment on site in order to allow moisture content to be reduced. The									
		other storm pond cleanouts (refer to VAU-014), additional site preparations will be required prior to									
VAU-021	Dahahilitatian (Daalaannaatafa	pond cleaning.	\$693,279.80	\$644,447.31	\$322,223.65	\$161,111.83	\$161,111.83	\$162,946.00	\$72,100.00	\$36,050.00	\$36,050.00
	975mm Corrugated Steel Pipe	Vaughan Road, just east of Huntington Road.									
	Culvert at 6550 King-Vaughan										
VAU-022	Road, just east of Huntington Road.		\$303.000.00	\$268.000.00	\$134.000.00	\$67.000.00	\$67.000.00	\$711.900.00	\$315.000.00	\$157,500.00	\$157,500.00
	Retaining Wall Rehabilitation for	This project will rehabilitate the existing retaining wall adjacent to the concrete culvert crossing								, . ,	
	Stormwater Management at	intersite Place. This wall has failed, and the failure is attributed to its proximity to the stormwater									
VAU-023		water assets to ensure that proper conveyance of storm water.	\$340,000.00	\$300,000.00	\$150,000.00	\$75,000.00	\$75,000.00	\$768,400.00	\$340,000.00	\$170,000.00	\$170,000.00
	Pine Valley Storm Headwall and	Construction of an appropriate storm water management solution to mitigate erosion and sediment									
	Spillway Reliabilitations	the structural integrity of the roadway. The project includes the installation of plunge pools, weirs,									
VAU-024		check dams, rip rap and energy dissipaters.	\$373,000.00	\$330,000.00	\$165,000.00	\$82,500.00	\$82,500.00	\$565,000.00	\$250,000.00	\$125,000.00	\$125,000.00
	Stormwater Management Slope Stabilization by Rehabilitating	This project will stabilize the existing slope on the east side of Clarence Street and work will rehabilitate the existing retaining wall to mitigate further stormwater erosion damage to the slope.									
	an Existing Retaining Wall along	We will also replace the failed culvert. This project identifies the necessary rehabilitation of storm									
	the east side of Clarence Street.	water assets to ensure that proper conveyance of storm water within the vicinity of these creeks.									
		uncontrolled stormwater conveyance due to its proximity to the Humber River and the failure of an									
VALL 025		existing 2400mm culvert crossing the roadway. Consequently, there are concerns that the existing	¢050,000,00	6840.000.00	¢ 420,000,00	\$210,000,00	6210 000 00	¢1.605.000.00	6750.000.00	6275 062 00	6275 000 00
VAU-025	Islington Avenue Storm Water	Rehabilitation/Replacement of the existing 400m corrugated steel pipe storm sewer on Islington	\$950,000.00	\$840,000.00	\$420,000.00	\$210,000.00	\$210,000.00	\$1,095,000.00	\$750,000.00	\$375,000.00	\$375,000.00
	Management Improvements	Avenue, north of Bindertwine Boulevard. The project includes storm water management	A1 40 0000	A105.5	400 500 500	404.055.55	404.055.55		4005 055	A. 10	A. 10 507
VAU-026	Investigation and design for the	improvements along Islington Avenue. Investigation and design for the rehabilitation/replacement of the existing Corrugated Steel Pine	\$142,000.00	\$125,000.00	\$62,500.00	\$31,250.00	\$31,250.00	\$644,100.00	\$285,000.00	\$142,500.00	\$142,500.00
	rehabilitation/replacement of	(CSP) culverts at the intersection of Kirby Road and Kipling Avenue.									
	the existing Corrugated Steel	Replacement/ rehabilitation of existing three corrugated steel pipe culverts which are located west,									
	intersection of Kirby Road and	pipes have deteriorated and may impact their ability to convey the desired storm water during a									
VALL 027	Kipling Avenue	major storm event as well as to protect the structural integrity of the roadway.	¢140.000.00	60F 000 00	647 500 00	633 756 63	(22.750.00	¢130.030.03	(== 000	600 500	600 F00 -
VAU-027	Investigation and design for the	This project is for the Investigation and detailed design of the existing 255m of 250 mm and 250m of	\$110,000.00	\$95,000.00	\$47,500.00	\$23,750.00	\$23,750.00	\$128,820.00	\$57,000.00	\$28,500.00	\$28,500.00
	Replacement/Rehabilitation of	525mm concrete sanitary sewer on Rayette Road and 370m of 600mm concrete sanitary pipe on									
	sanitary sewer on Rivermede Road and Rayatte Road	Rivermede Road. The investigation will determine the feasibility of rehabilitating these pipe segments. Following this investigation, a detailed design will be undertaken. These course sections									
VAU-028	nood and nayatte nood.	currently service 29 industrial properties.	\$110,000.00	\$95,000.00	\$47,500.00	\$23,750.00	\$23,750.00	\$228,181.83	\$101,232.74	\$50,616.37	\$50,616.37

Project Information					Financial Information Prior to Funding Reallocation						
Unique Project ID	Project Title	Project Description	Total Project Cost	Total Eligible Cost	Program Contribution (Eligible Expenditures)	Provincial Contribution (Eligible Expenditures)	Municipal Contribution (Eligible Expenditures)	Total Project Costs before Funding Reallocation	Program Contribution (Eligible Expenditures)2	Provincial Contribution (Eligible Expenditures)2	Municipal Contribution (Eligible Expenditures)3
VAU-029	Replace the existing 300mm ductile watermain to Polyvinyl Chloride on Centre Street from Dufferin Street to Bathurst Street.	Replace the existing 300mm ductile iron watermain to Polyvinyl Chloride (PVC) on Centre Street from Dufferin Street to Bathurst Street. The existing iron watermain requires excessive maintenance and repairs and it is more cost effective to replace it in conjunction with the H2 - Bus Rapid Transit design and construction contract. Overall water quality will improve along with the decrease in service disruptions due to watermain breaks.	\$3,560,000.00	\$3,150,000.00	\$1,575,000.00	\$787,500.00	\$787,500.00	\$4,107,273.02	\$1,822,189.26	\$911,094.63	\$911,094.63
VAU-030	Replace the existing ductile iron watermain (150mm and 300mm diameter) with Polyvinyl Chloride watermain.	Replace the existing ductile iron watermain (150mm and 300mm diameter) with Polyvinyl Chloride watermain on Rosmull Court / Crofters Road / Kirkhill Place. The existing iron watermain requires excessive maintenance and repairs and it is more cost effective to replace it in conjunction with the City's road works. Overall water quality will improve along with the decrease in service disruptions due to watermain breaks.	\$3,223,220.62	\$2,859,959.86	\$1,429,979.93	\$714,989.96	\$714,989.97	\$3,223,220.62	\$1,429,979.93	\$714,989.96	\$714,989.97
VAU-031	Replacement of the ductile iron watermain (150mm, 300mm and 400mm diameter) with Polyvinyl Chloride watermain on Andrew Park/ Button/ Marilyn Place/North Humber Road	This project will replace the ductile iron watermain (150mm, 300mm and 400mm diameter) with Polyvinyl Chloride watermain in the area of Andrew Park, Marilyn Place, Button Road, North Humber Drive. The existing iron watermain requires excessive maintenance and repairs and it is more cost effective to replace it in conjunction with the City's road works. Overall water quality will improve along with the decrease in service disruptions due to watermain breaks.	\$2,429,000.00	\$2,150,000.00	\$1,075,000.00	\$537,500.00	\$537,500.00	\$2,679,995.65	\$1,188,978.49	\$594,489.24	\$594,489.25
	Replacement of the ductile iron watermain (150mm and 300mm diameter) with Polyvinyl Chloride (PVC) watermain on Planchet Road and Basaltic Road and Mckenzie Street and Villagewood Crt and Rossmull Crt	This project will replace the existing ductile iron watermain (150mm and 300mm diameter) with Polyvinyl Chloride watermain in the area of Planchet Road , Basaltic Road and Mckenzie Street, Villagewood Crt and Rossmull Crt.									
VAU-032	Investigation analysis and	The investigation preliminary design datailed design and the construction for the conservation	\$1,635,000.00	\$1,450,000.00	\$725,000.00	\$362,500.00	\$362,500.00	\$2,053,636.51	\$911,094.63	\$455,547.31	\$455,547.31
VAU-033	rehabilitation/replacement Program for 2018, and the construction of the watermain rehabilitation	the intersequence, preniminary design, declared design and the Obstatiction for the Poplatement of the existing double for a second sec	\$2,804,197.00	\$2,481,590.00	\$1,240,795.00	\$620,397.50	\$620,397.50	\$798,636.42	\$354,314.58	\$177,157.29	\$177,157.29
VAL 024	Investigation, analysis and design of the Watermain rehabilitation/replacement Program for 2019	The investigation, preliminary design and detailed design for the replacement of the existing ductile iron watermain (150mm, 200mm and 300mm diameter) with Polyvinyl Chloride watermain in the area of Ayton Cr, Chatworth Cr, Crofters R4, Paddington Rd, Woburn Dr, Costa Rd, Creditstone Rd, Doughtton Rd, Freshway Rd, Killaloe Rd (300mm watermain), and Clark Ave and Steeles Ave at the main statement of the stat	6405 000 00	£425 000 00	6247 500 00	¢100 750 00	¢100 750 00	6700 COC 40			
Total		LP Track	\$495,000.00 \$31,260,264.54	\$435,000.00 \$27,807,632.40	\$13,903,816.20	\$108,750.00 \$6,951,908.09	\$108,750.00 \$7,035,658.10	\$798,636.42 \$31,387,922.03	\$354,314.58 \$13,903,816.20	\$177,157.29 \$6,951,908.59	\$177,157.29 \$6,951,908.60