

<b>SUBJECT</b>	<b>UBC DEVELOPMENT CHARGES: INFRASTRUCTURE IMPACT CHARGES (IICS) AND COMMUNITY AMENITY CHARGES (CACs) (VANCOUVER)</b>
<b>MEETING DATE</b>	<b>FEBRUARY 15, 2018</b>

Forwarded to the Board of Governors on the Recommendation of the President

**APPROVED FOR SUBMISSION**



Santa J. Ono, President and Vice-Chancellor

<b>DECISION REQUESTED</b>	<b>IT IS HEREBY REQUESTED that <i>the UBC Board of Governors approve the 2018-2019 Infrastructure Impact Charge (IIC) and Community Amenity Charge (CAC) Plans as part of UBC's 2018-2019 Operating Budget approval.</i></b>
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<b>Report Date</b>	January 16, 2018
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**Presented By** Philip Steenkamp, Vice-President External Relations  
 Peter Smalles, Interim Vice-President Finance & Operations  
 Andrew Szeri, Provost and Vice-President Academic  
 Michael White, Associate Vice-President Campus & Community Planning  
 Pam Ratner, Vice-Provost and Associate Vice-President Enrolment & Academic Facilities  
 John Metras, Acting Associate Vice-President Campus Facilities

**EXECUTIVE SUMMARY**

This report updates the Board of Governors on the Vancouver campus infrastructure funding through Infrastructure Impact Charges (IICs) and Community Amenity Charges (CACs). The Board reviews and approves the IIC and CAC Plans as part of UBC's annual operating budget.

The Board first approved the use of IICs and CACs in 1997. These tools are part of UBC's unique municipal-like governance and the primary source of capital funds to provide infrastructure that enables Vancouver campus growth.

IIC and CAC revenue comes largely from a per square foot fee levied on campus neighbourhood development. Each year, the Board approves updated 10-year plans for revenues and expenditures. As with similar municipal charges, expenditures are based on projected growth, infrastructure studies and widely-accepted engineering standards. Over the next ten years, IIC expenditures focus on district energy, roadways, electrical and sewer works, and CACs on neighbourhood childcare spaces.

As in municipalities, UBC builds infrastructure in advance of growth. As a result, the IIC and CAC Plans are typically in a current-year rolling deficit position. The Administration manages deficit risk by coordinating with UBC's capital and liquidity planning processes. In line with Board policy, deficits do not exceed five years of projected revenues and the Plans balance at neighbourhood completion in 2041.

**INSTITUTIONAL STRATEGIC PRIORITIES SUPPORTED**

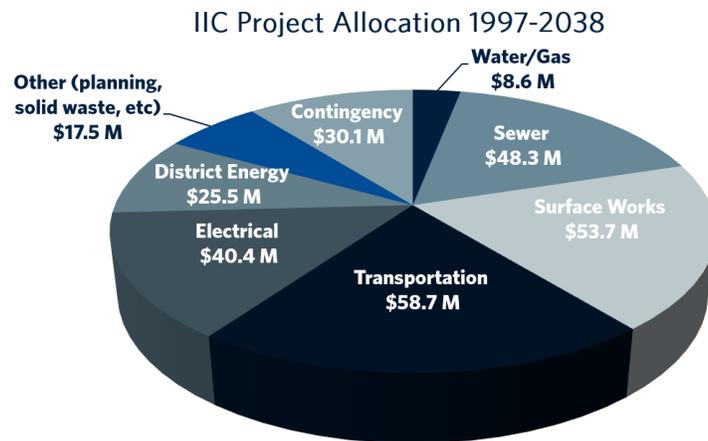
- Learning     
  Research     
  Innovation     
  Engagement (Internal / External)     
  International  
 or  Operational

## DESCRIPTION & RATIONALE **Background**

Development charges are financial tools municipalities use to fund infrastructure that enables growth. UBC-Vancouver has three types of development charges: 1) Infrastructure Impact Charges (IICs); 2) Community Amenity Charges (CACs); and 3) the UBC Properties Trust-administered cost of sales charge to fund neighbourhood infrastructure. This report focuses on IICs and CACs, which the Board of Governors first approved in 1997.

UBC's IIC funds enable growth by providing campus-wide infrastructure outside of neighbourhood boundaries. The IIC Plan is a detailed 10-Year Plan and a Summary Plan of revenue and projects from 1997 to 2041, when this current planned residential development is projected to complete. IIC expenditures include typical municipal infrastructure such as water, sewers, transportation, and surface works like parks. Given UBC's unique service delivery needs, IICs also fund a wider range of infrastructure than municipalities provide, such as the academic district energy system, electrical distribution and natural gas.

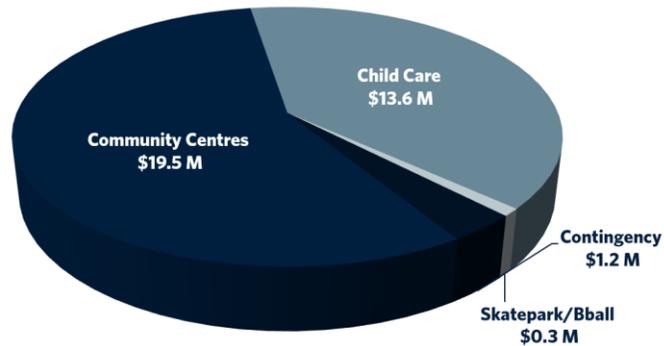
The chart below shows total IIC spending by project category. In total, from 1997 through March 2018, UBC will have received \$107.7M in IIC revenue and spent \$118.2M spent on IIC projects and interest, resulting in a \$10.7M deficit. The total IIC Plan is \$282.8M (not adjusted for inflation) as Attachment 1 shows, and balances when currently planned neighbourhood development completes in 2041.



CAC funds provide neighbourhood amenities required by UBC's provincially-approved Land Use Plan, like community centres and childcare spaces. UBC decides how to use CACs, a process that includes consultation with the University Neighbourhoods Association under the terms of the UBC-UNA Neighbours' Agreement. The Board of Governors also approves the CAC Plan. Like the IIC Plan, the CAC Plan has a detailed 10-Year Plan and a Summary Plan of all projected revenues and expenditures to 2041.

The chart below shows CAC spending by project category from 1997 through 2041. Chart 2 shows CAC spending by project category; spending focuses primarily on community centres and childcare spaces. Total CAC Plan revenues and expenses balance through 2041 at \$34.2M (not adjusted for inflation).

CAC Project Allocation 1997-2041



IIC and CAC revenue comes from a per square foot charge on new campus development. The rates are based on: projected growth in UBC's Land Use Plan and Vancouver Campus Plan; comprehensive studies to determine infrastructure need; and widely-accepted engineering standards. These studies are updated regularly to ensure rates provide the necessary funding to support UBC's growth. The table below shows 2018 rates.

Development Type	2018 IIC Rates \$/sq ft (2017 rates)	2018 CAC Rates \$/sq ft
Academic	\$0	\$0
Market Housing	\$37.23 (\$35.32)	\$3.25
Non-Market Housing (faculty/staff) Ancillary (student housing, athletics)	\$6.32 (\$6.00)	\$0
Commercial	\$37.32 (\$35.41)	\$0
Industry Research	\$4.96 (\$4.71)	\$0
Parking Structure	\$5.00 (\$4.74)	\$0

### Annual Inflationary Adjustments to IIC Rates

In November 2001, the Board approved indexing IIC rates to inflation. This reflects a principled approach of ensuring IIC revenue keeps pace with the cost of building infrastructure to enable UBC's growth. It also reflects best practices in the provincial government's guide to municipal development charges.

The Administration makes the inflationary adjustment each January using Statistics Canada's non-residential construction price index for the Vancouver metropolitan area. That index captures the cost of building infrastructure projects. Reflecting recent construction cost increases, the index results in a 5.4% increase to 2018 IIC rates. This adjustment is lower than other jurisdictions such as Vancouver, where development charges were adjusted 11.9% for 2018 based on a combination of inflation and land value growth.

### **2018-2019 IIC Plan**

The IIC Planning Committee – made up of senior academic, financial and operational staff – updates the IIC Plan for approval each year. Attachment 1 shows the 2018-2019 10-Year IIC Plan, including projected revenues and expenditures, and the Summary Plan listing all IIC projects to 2041.

The 2018-2019 IIC Plan projects \$16.3m in revenue and \$6.8M in expenses, leaving a rolling \$1.6M deficit at year's end. The IIC Plan typically runs a deficit of approximately \$20M and is projected to return to that level in 2019/20 due to significant electrical, road and district energy expenses. A deficit like this is typical for similar investments in municipalities as infrastructure is built to accommodate growth in advance of revenues. The Administration reviews IIC revenue projections annually as proposed projects are approved.

The list below shows IIC projects planned for the next ten-year period. These projects are funded in advance of growth and often result in annual IIC Plan deficits. The projected IIC deficits are consistent with the Board of Governors' 2012 direction that the IIC deficit not exceed five years of projected revenue. In the current plan the deficit never exceeds three years of projected revenue. To ensure efficiency and minimize costs, these projects are coordinated with other campus construction wherever possible.

### **2018-2022**

- District energy expansion, including a contribution to the Bioenergy Research and Demonstration Facility;
- Surface works including completing MacInnes Field and Brock Commons;
- Replacing the switchgear in one of UBC's two electrical substations;
- Sanitary sewer work to enable student housing growth and the future Stadium Neighbourhood; and,
- Transportation projects to address Wesbrook Mall roadbed failure and improve Student Union Boulevard.

### **2023-2027**

- Stormwater infrastructure to manage campus flooding and erosion risk;
  - Wayfinding and outdoor art enhancements;
  - Transportation projects including East Mall/Chancellor Blvd intersection improvements;
  - Increasing campus electrical supply with a third substation transformer and higher capacity high-voltage electricity feeder lines; and,
  - Continued improvement of solid waste management infrastructure.
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**2018-2019 CAC Plan**

The CAC Plan runs until full campus neighbourhood buildout in 2041. CAC revenue comes from a \$3.25 per square foot charge on market residential development. CAC expenses include amenities required under UBC’s provincially-approved Land Use Plan, primarily community centres and childcare spaces. The remainder of neighbourhood amenity funding is provided by UBC Properties Trust’s cost of sales development charge. CAC administration includes the same reporting, internal governance and Board approvals as IICs.

Attachment 2 shows CAC revenues and expenditures along with the 10-Year CAC Plan. From 1997 through March 2018, \$14.7M was collected in CACs and interest and \$17.9M spent on projects, resulting in a rolling \$3.2M deficit. This deficit is due to the Wesbrook Community Centre’s recent completion and will be eliminated over three years. As with the IIC Plan, a current-year deficit is typical for these types of infrastructure investments, which are completed in advance of neighbourhood buildout

Over the next ten years, CAC expenses focus on capital costs for neighbourhood childcare spaces. Operations are managed by a third-party under direction from UBC and the UNA. For example, the YMCA manages childcare operations in partnership with the UNA in the Vista Point residential rental building.

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<b>BENEFITS</b> Learning, Research, Financial, Sustainability & Reputational	The IIC and CAC Plans are UBC’s primary – and often only – source of capital funding for essential infrastructure, amenities and services. These investments are a key part of building a complete community at UBC and enable Vancouver campus growth. They also contribute to UBC’s sustainability objectives and are a critical part of UBC’s unique municipal-like campus governance.
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<b>RISKS</b> Financial, Operational & Reputational	Infrastructure projects are often ‘lumpy’ in capital terms: the investments are large and usually made in advance of growth and revenues received from development. This results in current-year IIC and CAC Plan deficits, which is typical in municipalities.
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To manage financial risk, the Board of Governors requires that IIC and CAC deficits do not exceed five-year revenue forecasts. In the current 10-Year IIC Plan the deficit does not exceed two years of projected revenue at any time and is balanced at the end of six years. The CAC 10-Year Plan deficit is eliminated in three years. A contingency is also held in both Plans against future revenues until Neighbourhood Plans are completed and revenue from future development is assured.

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<b>COSTS</b> Capital & Lifecycle Operating	IICs and CACs provide capital funding for growth-related infrastructure. Operating funding is absorbed within existing budgets by infrastructure operators.
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**FINANCIAL**  
Funding Sources,  
Impact on  
Liquidity

The Board of Governors approves the IIC and CAC Plans as part of UBC’s annual operating budget. IIC and CAC Plan deficits are limited to five or fewer years of projected revenue and managed within UBC’s liquidity plan.

The provincial government has previously declined to pay IIC charges for academic projects involving provincial funding on the Vancouver campus. This is at odds with the province providing for these costs when charged by municipalities, such as at UBC’s Okanagan campus. The Administration will continue to investigate mechanisms of addressing infrastructure needs related to academic growth, infrastructure repair and rehabilitation to meet this ongoing long-term need.

**SCHEDULE**  
Implementation  
Timeline

Attachments 1 and 2 show the detailed ten-year schedule of IIC and CAC Plan expenses.

**CONSULTATION**  
Relevant Units,  
Internal &  
External  
Constituencies

IIC and CAC Plans are developed in consultation with staff and external partners including the University Neighbourhoods Association. A Planning Committee with the following senior staff members oversees IIC Plan development:

- Associate Vice-President, Campus and Community Planning (Chair)
- Vice-Provost and Associate Vice-President, Enrolment and Academic Facilities (Vice-Chair)
- Vice-President Students
- Associate Vice-President Campus Facilities
- Comptroller
- Treasurer
- Managing Director, Energy and Water Services
- Managing Director, Infrastructure Development
- Managing Director, Student Housing and Hospitality Services
- CEO, UBC Properties Trust (*ex officio*)

**UBCPT**  
**COMMENTS**  
Complete for all  
reports that include a  
property component

Date of Review: January 24, 2018

Signed off by: Aubrey Kelly, CEO

UBC Properties Trust has reviewed and provided input to this report. We agree with the information presented.

**Attachments**

One: 2018-2019 IIC 10-Year Plan and Summary Plan

Two: 2018-2019 CAC 10-Year Plan and Summary Plan

<b>Previous Report Date</b>	February 14, 2017
<b>Decision</b>	Approved 2017-2018 Infrastructure Impact Charge (IIC) and Community Amenity Charge (CAC) Plans as part of UBC's 2017-2018 Operating Budget approval.
<b>Action / Follow Up</b>	Board approved IIC and CAC Plan as proposed.
<b>Previous Report Date</b>	February 15, 2016
<b>Decision</b>	Approved the 2016-2017 Infrastructure Impact Charge (IIC) Expenditure Plan (\$8.4M) and the 2016-2017 Community Amenity Charge (CAC) Expenditure Plan (\$0M) within the 2016-2017 UBC Operating Budget approval.
<b>Action / Follow Up</b>	Directed the Administration to conclude a comprehensive review of UBC's development charge policies.
<b>Previous Report Date</b>	June 12, 2012
<b>Decision</b>	Endorsement of the IIC Plan for the Vancouver campus as provided in the report.
<b>Action / Follow Up</b>	Board approved IIC Plan as proposed.

# Attachment One: 2018-2019 IIC 10-Year Plan and Summary Plan

As of:  
December 31, 2017

	Prior Years Actuals	2017/18 Actuals	2017/18 Forecast	0	1	2	3	4	5	6	7	8	9	10
2018-19 IIC 10 Year Plan (in \$M)				2018/19 Plan	2019/20 Plan	2020/21 Plan	2021/22 Plan	2022/23 Plan	2023/24 Plan	2024/25 Plan	2025/26 Plan	2026/27 Plan	2027/28 Plan	2028/29 Plan
<b>Revenue:</b>														
Market Housing Revenue (UBCPT) - Prepaid Lease	77.68	-	7.81	14.97	6.40	4.92	2.86	10.36	15.96	6.18	11.26	9.23	5.41	4.71
Market Housing Revenue (UBCPT) - Rental	-	-	-	-	-	-	6.26	-	-	3.40	-	-	4.18	-
Non-Market Housing & Commercial (UBCPT)	4.81	-	0.74	0.97	-	-	-	0.62	-	0.98	-	0.65	-	0.65
Campus Housing (Totem Infill, Housing Hubs) and Ancillaries	15.12	1.49	-	0.32	1.06	3.19	2.65	-	-	2.65	1.33	1.33	1.33	1.33
<b>Total Revenue</b>	<b>97.62</b>	<b>1.49</b>	<b>8.55</b>	<b>16.26</b>	<b>7.46</b>	<b>8.10</b>	<b>11.78</b>	<b>10.98</b>	<b>15.96</b>	<b>13.22</b>	<b>12.58</b>	<b>11.21</b>	<b>10.92</b>	<b>6.69</b>
<b>Expenditures:</b>														
<b>Water</b>														
W29, W44, W45	(0.60)	(0.19)	(0.17)	(0.44)		(0.51)								
W31, W34	(0.27)	-	-											
<b>Sanitary</b>														
S32 (Triumf), S40 (N Campus), S34 (S Campus) S11/S37/S35 (West Mall to S Campus)	(0.22)	(0.26)	-	(1.29)			(5.76)							
S31 (West Mall to Chancellor Blvd)	(0.81)	-	-				(1.65)							
<b>Stormwater</b>														
ST22-2 (Mid Campus Retention)	(2.80)	-	-		(2.20)									
ST22-1 (North Campus Retention), ST22-3 (South Campus Retention)							(2.00)	(3.00)	(5.00)					
ST23 (16th Ave)		(0.10)	(0.15)				(0.10)							
ST28 (Cliff Mitigation)				(0.10)	(0.90)									
<b>Surface Works</b>														
P62 (MacInnes Field)					(2.40)									
P57-Cons (East Mall/Ucommons)	(6.50)	(0.11)	(0.04)		(2.00)									
P61, P51, P49, P55, P36 (Tbird Plaza, St Andrews Walk, Volkoff, Education, MacMillan)	(0.95)	(0.20)	(0.83)	(0.48)			(0.25)		(0.50)					
P59 (Public Art)	(0.54)	(0.31)	(0.35)	(0.20)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)			
P60 (Wayfinding)	(0.26)	-	(0.01)	(0.15)	(0.15)	(0.15)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)
P58 (Commons Public Realm)	(2.00)	-	-		(2.00)			(2.00)					(1.00)	
P33 (Library Square)	0.06	(1.51)	(0.56)											
P36, P37 (Gateways)					(1.00)		(0.95)		(1.95)					
<b>Transportation</b>														
T28 (Gage south incl Aquatic Centre)	(7.03)	(0.87)	(0.09)											
T22 (East Mall/Chancellor)								(2.00)						
T26-Cons (Westbrook Mall)	(1.22)	(0.15)	(0.05)	(1.00)	(4.33)				(0.50)					
T6-Cons (North Gage)	(0.32)	(0.00)	-		(5.08)									
T12-2 University Boulevard - Phase 1 (Refund)	(9.50)	0.29	-											
T30 (Cycling infrastructure improvements)	(0.02)													
<b>Electrical</b>														
E25-1, E25-2, E28 (UNY Substation and Feeder Lines)				(0.75)	(3.00)	(3.00)			(0.50)	(3.50)	(6.00)			
E27 (Gage South SRW relocation)		(0.44)	-											
E25-3 Pre-Ducting for New Lines (Agronomy, West Mall)	(0.67)	-	-											
E26 Study - Upgrade Campus Electrical Supply from 44 - 62 MVA	(0.63)	0.00	(0.17)	(0.05)	(0.03)	(0.01)								
<b>Natural Gas</b>														
N19			(0.07)											
<b>District Energy</b>														
DE14 (BRDF Expansion)				(0.50)	(4.00)	(0.50)								
DE11 (UBldg), DE15 (Aquatic/Exchange Loop), DE16 (Gage Road Loop)	(10.24)	-	-	(1.76)		(0.63)								
<b>Solid Waste</b>														
SW3, SW5, SW7				(0.17)					(2.35)					
<b>Planning</b>														
PST (Master Servicing Plan Updates)										(3.00)				
<b>Prior Years Expenses</b>	(99.09)													
<i>Additional works to be confirmed in Campus Electrical Supply Study</i>														
<b>Other Projected Expenditures</b>														
<b>Total Expenses</b>	<b>(148.15)</b>	<b>(3.86)</b>	<b>(2.47)</b>	<b>(6.89)</b>	<b>(25.27)</b>	<b>(6.98)</b>	<b>(11.10)</b>	<b>(7.39)</b>	<b>(10.69)</b>	<b>(3.89)</b>	<b>(3.89)</b>	<b>(7.21)</b>	<b>(0.21)</b>	<b>(0.21)</b>
<b>Surplus/(Deficit)</b>	<b>(50.54)</b>	<b>(2.37)</b>	<b>6.08</b>	<b>9.37</b>	<b>(17.81)</b>	<b>1.12</b>	<b>0.68</b>	<b>3.59</b>	<b>5.26</b>	<b>9.33</b>	<b>8.69</b>	<b>3.99</b>	<b>10.70</b>	<b>6.47</b>
Interest Income/(Expense)	(4.70)	(0.32)	(0.19)	(0.28)	(0.50)	(0.92)	(0.97)	(0.91)	(0.73)	(0.40)	0.01	0.15	0.32	0.52
<b>Net Surplus/(Deficit)</b>	<b>(55.24)</b>	<b>(2.69)</b>	<b>5.89</b>	<b>9.08</b>	<b>(18.31)</b>	<b>0.20</b>	<b>(0.28)</b>	<b>2.68</b>	<b>4.53</b>	<b>8.92</b>	<b>8.70</b>	<b>4.15</b>	<b>11.03</b>	<b>7.00</b>
<b>IIC Balance, Beginning</b>		<b>(13.86)</b>	<b>(16.55)</b>	<b>(10.66)</b>	<b>(1.58)</b>	<b>(19.88)</b>	<b>(19.68)</b>	<b>(19.97)</b>	<b>(17.29)</b>	<b>(12.76)</b>	<b>(3.83)</b>	<b>4.87</b>	<b>9.02</b>	<b>20.04</b>
Surplus/(Deficit)		(2.69)	5.89	9.08	(18.31)	0.20	(0.28)	2.68	4.53	8.92	8.70	4.15	11.03	7.00
Contingency (\$25M for potential reduced floorspace)														
<b>IIC Balance, Ending</b>		<b>(16.55)</b>	<b>(10.66)</b>	<b>(1.58)</b>	<b>(19.88)</b>	<b>(19.68)</b>	<b>(19.97)</b>	<b>(17.29)</b>	<b>(12.76)</b>	<b>(3.83)</b>	<b>4.87</b>	<b>9.02</b>	<b>20.04</b>	<b>27.04</b>

Legend:

	New projects
	Planned Projects
	Completed projects
	Projects no longer required

IIC SUMMARY PLAN (2018-19)		Approved Budget from 2017-18	IIC To Date Actual as at 31-Dec-17	Estimate to Completion	Forecast 2018-19	Change in Budget From Previous Yr. [Over/(Under)]
Project ID	Description	(a)	(b)	(c) = (d) - (b)	(d)	(e) = (d) - (a)
<b>Revenues</b>						
	<b>Market Housing and Commercial</b>	\$253,142,782	\$77,677,932	\$160,338,611	\$238,016,542	(\$15,126,240)
	<b>Campus Housing and Ancillaries</b>	\$23,638,227	\$16,614,140	\$16,518,815	\$33,132,965	\$9,494,728
	<b>Non-Market Housing</b>	\$10,537,187	\$4,813,799	\$6,881,318	\$11,695,117	\$1,157,930
	<b>Total IIC Program Revenues</b>	<b>\$287,318,196</b>	<b>\$99,105,871</b>	<b>\$183,738,744</b>	<b>\$282,844,615</b>	<b>(\$4,473,581)</b>
<b>Expenditures</b>						
<b>Water</b>						
W32	Totem Park at Marine Drive	\$424,000	\$254,125	\$169,875	\$424,000	\$0
W37	Main Mall (U Blvd to Stores Rd)	\$247,500	\$0	\$247,500	\$247,500	\$0
W39	Agronomy Road (Main Mall to West Mall)	\$171,000	\$0	\$171,000	\$171,000	\$0
W41	Crescent Road north of Belkin Art Gallery	\$88,000	\$0	\$88,000	\$88,000	\$0
W43	Memorial Road (small section north of Auditorium Annex)	\$34,000	\$0	\$34,000	\$34,000	\$0
W44	Triumf (between ISAC1 and ISAC2)	\$160,000	\$0	\$160,000	\$160,000	\$0
W45	North of Research Ponds in South Campus	\$513,000	\$0	\$513,000	\$513,000	\$0
W48	Hospital Lane - Hospital Parking Lot	\$145,000	\$0	\$145,000	\$145,000	\$0
W29-NMSP	Material Recycling Looping	\$477,800	\$193,858	\$283,942	\$477,800	\$0
W47	Future Water Projects (to be confirmed with Master Servicing Plan updates)	\$1,000,000	\$0	\$1,000,000	\$1,000,000	\$0
W38	Stores Rd (Main Mall to West Mall)	\$300,534	\$300,534	\$0	\$300,534	\$0
W35	West Mall (U Blvd to Bio Sci Rd)	\$165,000	\$50,000	\$0	\$50,000	\$0
W34	East Mall (Agr Road and U Blvd)	\$175,000	\$182,637	\$0	\$182,637	\$0
W31	Hospital Lane - Hospital Parking Lot	\$100,000	\$88,941	\$0	\$88,941	\$0
W33	U Blvd (Main Mall to East Mall)	\$162,000	\$167,391	\$0	\$167,391	\$0
W36	Main Mall (Stores Rd to Agronomy Rd)	\$171,000	\$175,914	\$0	\$175,914	\$0
W42	Memorial Road (small section north of OAB)	\$63,000	\$65,096	\$0	\$65,096	\$0
W9-OMSP	Wesbrook Mall to Western Pkwy	\$35,804	\$35,804	\$0	\$35,804	\$0
W12-OMSP	Thunderbird Stadium - included upgrade for ice sports facility	\$471,522	\$471,522	\$0	\$471,522	\$0
W15-OMSP	Thunderbird road relocation	\$1,211,217	\$1,211,217	\$0	\$1,211,217	\$0
W17-OMSP	Agronomy replacement Health Sc to Wesbrook	\$373,083	\$373,083	\$0	\$373,083	\$0
W19-OMSP	Marine Dr., East Mall & Wesbrook Mall (not required)	\$281,335	\$281,335	\$0	\$281,335	\$0
W20-OMSP	Marine Res. Ph. 1 relocation	\$105,496	\$105,496	\$0	\$105,496	\$0
W21-OMSP	Strangway Bldg relocation	\$119,582	\$119,582	\$0	\$119,582	\$0
W22-OMSP	AERL	\$87,908	\$87,908	\$0	\$87,908	\$0
W23-OMSP	Swing Space	\$32,349	\$32,349	\$0	\$32,349	\$0
W24-OMSP	Food Nutrition & Health	\$119,060	\$119,060	\$0	\$119,060	\$0
W25-OMSP	Sauder, Marine Phase II	\$131,589	\$131,589	\$0	\$131,589	\$0
W27-OMSP	MOA relocation	\$195,759	\$195,759	\$0	\$195,759	\$0
<b>Total</b>		<b>\$7,561,538</b>	<b>\$4,643,199</b>	<b>\$2,812,318</b>	<b>\$7,455,516</b>	<b>\$0</b>
<b>Sanitary</b>						
S33	East Mall (north of Stores Road)	\$102,000	\$0	\$102,000	\$102,000	\$0
S35	West Mall (Stadium to Thunderbird)	\$891,000	\$0	\$891,000	\$891,000	\$0
S36	Wesbrook Mall (Pavilion Rd to 16th Avenue intersection)	\$494,000	\$0	\$494,000	\$494,000	\$0
S37	SW Marine Drive Phase 2 and 3 (extension of S11)	\$1,455,000	\$0	\$2,000,000	\$2,000,000	\$545,000
S39	Triumf outlet pipe for South Campus	\$1,063,000	\$0	\$1,063,000	\$1,063,000	\$0
S40	Wesbrook Crescent Chancellor to NW Marine (same as S17)	\$1,048,000	\$0	\$1,048,000	\$1,048,000	\$0
S11	SW Marine Drive Phase II & III (Totem flows - 2019-2020 - ~ \$1,505,000 - urgent)	\$2,865,000	\$48,556	\$2,816,444	\$2,865,000	\$0
S31	West Mall Upgrade - future growth, and low grades	\$2,085,000	\$437,243	\$1,647,757	\$2,085,000	\$0
S32	Nurseries Road - construction at up and down stream pipes	\$726,000	\$437,507	\$288,493	\$726,000	\$0
S41	Future Sanitary Projects (to be confirmed with updated Master Servicing Plan)	\$5,000,000	\$0	\$5,000,000	\$5,000,000	\$0
S38	West Mall Upgrade (extension of S31)	\$500,000	\$371,163	\$0	\$371,163	\$0
S2	Wesbrook - N of University (N007-N012) with Theological Neighbourhood	\$448,258	\$448,258	\$0	\$448,258	\$0
S4	Wesbrook - S of University (N014-N021) Regrade	\$456,506	\$456,506	\$0	\$456,506	\$0
S5	Agronomy (N027-N022) Service to new research	\$272,333	\$272,333	\$0	\$272,333	\$0
S7	SW Marine Phase I (S002-S048) - Includes flow meter, incinerator/GVRD sani. connection	\$727,340	\$727,340	\$0	\$727,340	\$0
S9	Wesbrook near Chancellor (N004-N002) (required) - Part of S1	\$82,582	\$82,582	\$0	\$82,582	\$0
S21	Sewer, storm and watermain extensions along Engineering Rd.	\$239,715	\$239,715	\$0	\$239,715	\$0
S22	Marine Dr., East Mall & Wesbrook Mall	\$638,523	\$638,523	\$0	\$638,523	\$0
S23	MOA relocation (incomplete - hold back)	\$218,353	\$0	\$218,353	\$218,353	\$0
S24	Marine Res. Ph. 1 relocation	\$14,487	\$14,487	\$0	\$14,487	\$0
S25	Thunderbird re-alignment	\$344,643	\$344,643	\$0	\$344,643	\$0
S25-2	TEF 3 Sanitary Sewer Project (Max \$93,176)	\$56,444	\$56,444	\$0	\$56,444	\$0
S26	AERL	\$29,986	\$29,986	\$0	\$29,986	\$0
S27	Food Nutrition & Health	\$49,862	\$49,862	\$0	\$49,862	\$0
S29	Marine Drive Sanitary (to Vanier Pumphouse)	\$148,082	\$148,082	\$0	\$148,082	\$0
<b>Total</b>		<b>\$19,956,115</b>	<b>\$5,021,584</b>	<b>\$15,350,694</b>	<b>\$20,372,278</b>	<b>\$545,000</b>

Annual Update on IIC and CAC Plans for the Vancouver Campus

Legend:

	New projects
	Planned Projects
	Completed projects
	Projects no longer required

IIC SUMMARY PLAN (2018-19)		Approved Budget from 2017-18	IIC To Date Actual as at 31-Dec-17	Estimate to Completion	Forecast 2018-19	Change in Budget From Previous Yr. [Over/(Under)]
Project ID	Description	(a)	(b)	(c) = (d) - (b)	(d)	(e) = (d) - (a)
<b>Stormwater</b>						
ST22-1	North Campus Retention Facility	\$5,000,000	\$0	\$5,000,000	\$5,000,000	\$0
ST22-2	Mid Campus Retention Facility	\$5,000,000	\$2,799,245	\$2,200,755	\$5,000,000	\$0
ST22-3	South Campus Retention Facility	\$5,000,000	\$0	\$5,000,000	\$5,000,000	\$0
ST22-4	Perimeter Interqualifier Drainage	\$6,843,925	\$0	\$6,843,925	\$6,843,925	\$0
ST23	18th Avenue Storm - restriction of 30m of 300mm dia., replacement for 600mm dia.	\$100,000	\$0	\$100,000	\$100,000	\$0
ST25	TRUIMF - constriction both up and down stream pipes	\$162,000	\$0	\$162,000	\$162,000	\$0
ST26	Chancellor - constriction caused by sedimentation due to inverts and pipe sizes (400 --> 600)	\$153,000	\$0	\$153,000	\$153,000	\$0
ST27	Wesbrook Mall and Marine Drive Stormwater	\$250,000	\$101,789	\$148,211	\$250,000	\$0
ST28	Cliff Erosion Mitigation NW Marine Drive	\$1,000,000	\$0	\$1,000,000	\$1,000,000	\$0
ST1	N. Catchment - Chancellor N100-N11 (Growth 20%) (one third complete)	\$194,843	\$194,843	\$0	\$194,843	\$0
ST2	N. Catchment - NW Marine Trunk (Growth 43%)	\$980,655	\$980,655	\$0	\$980,655	\$0
ST4	S. Catchment - Wesbrook Mall (Growth 10%)	\$34,666	\$34,666	\$0	\$34,666	\$0
ST5	S. Catchment - 18th Avenue (Growth 15%)	\$562,063	\$562,063	\$0	\$562,063	\$0
ST8	S. Catchment - Wesbrook Mall D44-D67 (Growth 40%) (In progress) - UBCPT Servicing Cost	\$86,335	\$86,335	\$0	\$86,335	\$0
ST11	S. Catchment - South of Marine Drive Outfall; S. Catchment - Marine Drive Biofiltration (Growth 60%)	\$97,042	\$97,042	\$0	\$97,042	\$0
ST13	Chancellor (Wesbrook Military) turning circle east of East Mall	\$453,480	\$453,480	\$0	\$453,480	\$0
ST14	MOA relocation	\$1,074,898	\$1,074,898	\$0	\$1,074,898	\$0
ST15	Marine Res. Ph. 1 relocation	\$43,535	\$43,535	\$0	\$43,535	\$0
ST16	Thunderbird re-alignment	\$352,345	\$352,345	\$0	\$352,345	\$0
ST17	Life Sciences	\$127,562	\$127,562	\$0	\$127,562	\$0
ST19	AERL	\$27,027	\$27,027	\$0	\$27,027	\$0
ST20	Food Nutrition & Health	\$122,215	\$122,215	\$0	\$122,215	\$0
ST21-1	Sauder, Marine Phase II	\$70,084	\$70,084	\$0	\$70,084	\$0
ST21-2	Beaty Biodiversity	\$243,635	\$243,635	\$0	\$243,635	\$0
<b>Total</b>		<b>\$27,979,309</b>	<b>\$7,371,418</b>	<b>\$20,607,891</b>	<b>\$27,979,309</b>	<b>\$0</b>
<b>Surface Works (Street Restoration, Public Realm, Lighting, etc.)</b>						
P61	Thunderbird Plaza	\$550,000	\$203,300	\$346,700	\$550,000	\$0
P60	Wayfinding	\$3,700,000	\$257,875	\$3,442,125	\$3,700,000	\$0
P22	Pathway - McMillan/Totem Residence	\$200,000	\$0	\$200,000	\$200,000	\$0
P30	MacMillan Courtyard - Social	\$0	\$0	\$500,000	\$500,000	\$500,000
P33	Large Commons -Library Gardens Terrace	\$2,000,000	\$1,444,735	\$555,265	\$2,000,000	\$0
P36	Campus Entryways -Gateways North & South Approaches	\$1,950,000	\$0	\$1,950,000	\$1,950,000	\$0
P37	Campus Entryways -Gateways Eastern Approaches (3)	\$1,950,000	\$0	\$1,950,000	\$1,950,000	\$0
P47	Pathway - Eastmall Pedestrian Laneway South	\$360,000	\$0	\$360,000	\$360,000	\$0
P49	Volkoff Pathway	\$0	\$0	\$480,000	\$480,000	\$480,000
P50	Pathway - Walter Gage Pathway	\$940,000	\$0	\$940,000	\$940,000	\$0
P51	Pathway - St. Andrews Walk	\$480,000	\$0	\$480,000	\$480,000	\$0
P55	Education Road Pathway	\$0	\$0	\$250,000	\$250,000	\$250,000
P56	Pathway - CIRS pathway	\$330,000	\$0	\$330,000	\$330,000	\$0
P58	Commons public realm (5 Commons)	\$5,000,000	\$2,000,000	\$5,000,000	\$7,000,000	\$2,000,000
P59	Public Art	\$2,500,000	\$850,216	\$1,649,784	\$2,500,000	\$0
P62	MacInnes Field	\$2,400,000	\$0	\$2,400,000	\$2,400,000	\$0
P63	Future Surface Works (to be confirmed with updated Master Servicing Plan)	\$5,000,000	\$0	\$5,000,000	\$5,000,000	\$0
P64	Public Art Installation Support	\$0	\$0	\$150,000	\$150,000	\$150,000
P31	Outdoor Social/Learning - Biological Sciences Learning Courtyard Accessibility	\$400,000	\$400,000	\$0	\$400,000	\$0
P26	Outdoor Social/Learning - Engineering Quad Social (Cheese Factory)	\$530,000	\$265,000	\$0	\$265,000	\$0
P25	Outdoor Social/Learning -Engineering Quad Learning (WWW)	\$260,000	\$288,981	\$0	\$288,981	\$0
P13	Pathway -Sustainability Street	\$500,000	\$499,790	\$0	\$499,790	\$0
P41	U Blvd: E Mall to Main Mall	\$3,000,000	\$3,009,386	\$0	\$3,009,386	\$0
P42	U Blvd: M Mall to West Mall	\$1,120,000	\$927,861	\$0	\$927,861	\$0
P35	Large Commons -Fairview Square -The Grove	\$1,750,000	\$1,750,000	\$0	\$1,750,000	\$0
P38	Main Mall: U Blvd to Crescent	\$5,530,000	\$5,530,000	\$0	\$5,530,000	\$0
P38-1	Main Mall and University Blvd Intersection	\$2,400,000	\$2,400,000	\$0	\$2,400,000	\$0
P39	Main Mall: U Blvd to Fairview	\$2,580,000	\$2,580,000	\$0	\$2,580,000	\$0
P40	Main Mall: Fairview to Agronomy	\$1,810,000	\$1,810,000	\$0	\$1,810,000	\$0
P6	Construct greenways (5 km)	\$485,948	\$485,948	\$0	\$485,948	\$0
P8	Other - e.g., library landscaping	\$955,751	\$955,751	\$0	\$955,751	\$0
P9	Ropes course	\$22,617	\$22,617	\$0	\$22,617	\$0
P10	AERL	\$159,996	\$159,996	\$0	\$159,996	\$0
P11	Swing Space	\$7,874	\$7,874	\$0	\$7,874	\$0
P24	Outdoor Social/Learning -Buchanan Courtyard Social (West)	\$750,000	\$750,000	\$0	\$750,000	\$0
P32	Large Commons -Library Gardens Walkway - Learner's Walk	\$1,086,783	\$1,086,783	\$0	\$1,086,783	\$0
<b>Total</b>		<b>\$50,708,971</b>	<b>\$27,686,115</b>	<b>\$25,983,874</b>	<b>\$53,669,989</b>	<b>\$3,380,000</b>

Annual Update on IIC and CAC Plans for the Vancouver Campus

Legend:

	New projects
	Planned Projects
	Completed projects
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IIC SUMMARY PLAN (2018-19)		Approved Budget from 2017-18	IIC To Date Actual as at 31-Dec-17	Estimate to Completion	Forecast 2018-19	Change in Budget From Previous Yr. [Over/(Under)]
Project ID	Description	(a)	(b)	(c) = (d) - (b)	(d)	(e) = (d) - (a)
<b>Transportation</b>						
T29	Wesbrook Mall / diesel bus terminal intersection and road improvements	\$2,000,000	\$1,082,676	\$917,324	\$2,000,000	\$0
T3	Wesbrook Mall & University Blvd - Intersection improvements and traffic signals	\$750,000	\$44,865	\$705,135	\$750,000	\$0
T23	Wesbrook / Chancellor intersection improvement	\$500,000	\$0	\$500,000	\$500,000	\$0
T26	Wesbrook Mall Rebuild - from University Blvd to Agronomy	\$4,000,000	\$244,859	\$3,755,341	\$4,000,000	\$0
T26-Cons	Wesbrook Mall	\$7,250,000	\$1,372,200	\$5,877,800	\$7,250,000	\$0
T28	Gage South Infrastructure and public realm (incl new Molniss Field and Aquatic Centre)	\$8,000,000	\$7,908,966	\$91,034	\$8,000,000	\$0
T6&P57-Cons	East Mall/University Commons/North Gage	\$14,050,000	\$6,926,882	\$7,123,118	\$14,050,000	\$0
T22	East Mall / Chancellor Roundabout and gateway feature	\$2,000,000	\$0	\$2,000,000	\$2,000,000	\$0
T31	Future Transportation Projects (to be confirmed with updated transportation studies)	\$8,000,000	\$0	\$10,000,000	\$10,000,000	\$2,000,000
T20	18th Avenue Pedestrian Crossings	\$600,000	\$580,857	\$0	\$580,857	\$0
T30	Cycling infrastructure improvements (East Mall and Stadium Road)	\$0	\$24,663	\$0	\$24,663	\$0
T1	Wesbrook Mall 18th Ave to SW Marine Drive	\$1,500,000	\$1,551,005	\$0	\$1,551,005	\$0
T25	Wesbrook / Agronomy intersection improvements	\$250,000	\$160,269	\$0	\$160,269	\$0
T4	Thunderbird - East Mall to Wesbrook	\$1,250,000	\$1,250,000	\$0	\$1,250,000	\$0
T5	Thunderbird - Wesbrook Mall to Ososyoos Crescent	\$500,000	\$500,000	\$0	\$500,000	\$0
T11	Marine Dr., Mid-Campus & Chancellor	\$1,453,749	\$1,453,749	\$0	\$1,453,749	\$0
T12-2	University Boulevard - Phase 1 (include \$500K deferred planning costs and \$1M public)	\$9,500,548	\$9,207,436	\$0	\$9,207,436	(\$293,112)
T14	Marine Res. Ph. 1 relocation	\$27,093	\$27,093	\$0	\$27,093	\$0
T15	AERL	\$25,172	\$25,172	\$0	\$25,172	\$0
T16	Food Nutrition & Health	\$27,837	\$27,837	\$0	\$27,837	\$0
T18	Roundabout on 18th Avenue	\$1,509,503	\$1,472,003	\$0	\$1,472,003	\$0
T19-1	Sauder, Marine Phase II	\$41,129	\$41,129	\$0	\$41,129	\$0
T19-2	Beaty Biodiversity	\$188,490	\$188,490	\$0	\$188,490	\$0
T8-Cons	Roadwork-diesel bus loop, East Mall, Wesbrook Mall, and Core Road Rehabilitation	\$1,906,919	\$890,588	\$0	\$890,588	(\$1,016,331)
<b>Total</b>		<b>\$58,080,440</b>	<b>\$33,608,340</b>	<b>\$25,091,951</b>	<b>\$58,700,291</b>	<b>\$690,557</b>
<b>Electrical</b>						
E25	Additional works to be confirmed in Campus Electrical Supply Study	\$10,250,000	\$0	\$10,250,000	\$10,250,000	\$0
E25-1	UNY-Substation Switchgear Replacement	\$6,750,000	\$0	\$6,750,000	\$6,750,000	\$0
E25-2	New Feeder Lines	\$4,500,000	\$0	\$4,500,000	\$4,500,000	\$0
E26	Study - Upgrade Campus Electrical Supply from 44 - 62 MVA	\$900,000	\$633,308	\$0	\$900,000	\$0
E28	UNY-Substation Third Transformer	\$5,500,000	\$0	\$5,500,000	\$5,500,000	\$0
E25-3	Pre-Ducting for New Lines (Agronomy, West Mall)	\$1,900,000	\$673,424	\$0	\$673,424	\$0
E27	Gage South Hydro SRW Relocation	\$450,000	\$435,643	\$0	\$435,643	\$0
E1	New University Boulevard - New Feeder	\$679,506	\$679,506	\$0	\$679,506	\$0
E9	Vanier/Food Services	\$613,492	\$613,492	\$0	\$613,492	\$0
E3-1	West Campus - New Feeder & Relocation	\$1,333,612	\$1,333,612	\$0	\$1,333,612	\$0
E3-2	West Mall - Relocation (move E8 to E3)	\$492,327	\$492,327	\$0	\$492,327	\$0
E4	UNY - Substation Upgrades	\$622,194	\$622,194	\$0	\$622,194	\$0
E5	East Campus - 69 KV Line Relocation	\$177,454	\$177,454	\$0	\$177,454	\$0
E6	South Campus - New Substation	\$151,480	\$151,480	\$0	\$151,480	\$0
E10-1	4KV Conversions (FIMP)	\$289,969	\$289,969	\$0	\$289,969	\$0
E10-2	Medical Blocks A, B & C	\$835,088	\$835,088	\$0	\$835,088	\$0
E10-3	Chemistry & South Campus 4KV (incl. Fisheries)	\$1,300,216	\$1,300,216	\$0	\$1,300,216	\$0
E10-4	Federal Agriculture/Food Sc.	\$198,129	\$198,129	\$0	\$198,129	\$0
E11	Underground 69KV to 18th Ave; Underground OH Service	\$2,255	\$2,255	\$0	\$2,255	\$0
E13	East Campus - Fraternity Village	\$347,768	\$347,768	\$0	\$347,768	\$0
E14	69KV Pole Relocation	\$16,982	\$16,982	\$0	\$16,982	\$0
E15	Strangway Bldg relocation	\$635,189	\$635,189	\$0	\$635,189	\$0
E16	Thunderbird re-alignment	\$998,339	\$998,339	\$0	\$998,339	\$0
E17	Life Sciences	\$762,276	\$762,276	\$0	\$762,276	\$0
E18	Life Sciences - 4 kV substation	\$605,253	\$605,253	\$0	\$605,253	\$0
E19	Swing Space	\$32,349	\$32,349	\$0	\$32,349	\$0
E20	Food Nutrition & Health	\$28,983	\$28,983	\$0	\$28,983	\$0
E21	Replace/upgrade cables at UNY (Main substation)	\$207,185	\$207,185	\$0	\$207,185	\$0
E22	Mid-Campus Electrical Duct Relocation	\$880,902	\$880,902	\$0	\$880,902	\$0
E23	MOA relocation	\$23,426	\$23,426	\$0	\$23,426	\$0
E24	Beaty Biodiversity	\$147,298	\$147,298	\$0	\$147,298	\$0
<b>Total</b>		<b>\$41,631,673</b>	<b>\$13,124,047</b>	<b>\$27,000,000</b>	<b>\$40,390,739</b>	<b>\$0</b>
<b>Natural Gas</b>						
N19	West Mall at Hawthorne Lane and Commons Block	\$65,000	\$0	\$65,000	\$65,000	\$0
N2	North Campus - Pressure Upgrade - Phase I	\$115,000	\$59,517	\$0	\$59,517	\$0
N4	North Campus - Pressure Conversion - Phase II	\$175,000	\$125,000	\$0	\$125,000	\$0
N14-2	Beaty Biodiversity	\$42,557	\$42,557	\$0	\$42,557	\$0
N1	North Campus - upgrade and takeover, VST upgrade	\$53,516	\$53,516	\$0	\$53,516	\$0
N3	North Campus - Piping Upgrades - Wesbrook Loop/Press Zone	\$314,969	\$314,969	\$0	\$314,969	\$0
N8	Marine Dr., West Mall, Korea House	\$69,389	\$69,389	\$0	\$69,389	\$0
N9	Marine Res. Ph. 1 relocation	\$41,293	\$41,293	\$0	\$41,293	\$0
N10	Life Sciences	\$48,347	\$48,347	\$0	\$48,347	\$0
N11	AERL	\$95,667	\$95,667	\$0	\$95,667	\$0
N12	Swing Space	\$32,349	\$32,349	\$0	\$32,349	\$0
N14-1	Sauder, Marine Phase II	\$1,359	\$1,359	\$0	\$1,359	\$0
N15	Terasen Gas Relocation in Chancellor	\$187,596	\$187,596	\$0	\$187,596	\$0
<b>Total</b>		<b>\$1,242,042</b>	<b>\$1,071,558</b>	<b>\$65,000</b>	<b>\$1,136,558</b>	<b>\$0</b>

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IIC SUMMARY PLAN (2018-19)		Approved Budget from 2017-18	IIC To Date Actual as at 31-Dec-17	Estimate to Completion	Forecast 2018-19	Change in Budget From Previous Yr. [Over/(Under)]
Project ID	Description	(a)	(b)	(c) = (d) - (b)	(d)	(e) = (d) - (a)
<b>District Energy</b>						
DE 11	UBVd ADES connections	\$560,000	\$0	\$560,000	\$560,000	\$0
DE 13	Future ADES connections (to be confirmed with future capital projects)	\$2,000,000	\$0	\$2,000,000	\$2,000,000	\$0
DE 14	BRDF Expansion	\$0	\$0	\$5,000,000	\$5,000,000	\$5,000,000
DE 15	Aquatic Centre/Exchange Housing loop	\$0	\$0	\$1,200,000	\$1,200,000	\$1,200,000
DE 16	Gage Road Loop	\$0	\$0	\$630,000	\$630,000	\$630,000
DE 17	Tbird Blvd/West Mall Expansion (Phase 1/2); placeholder subject to technical analysis	\$0	\$0	\$0	\$0	\$0
DE 18	Tbird Blvd/West Mall Expansion (Phase 3); placeholder subject to technical analysis	\$0	\$0	\$0	\$0	\$0
DE 9	Steam to Hot Water Conversion	\$10,000,000	\$10,000,000	\$0	\$10,000,000	\$0
DE 12	Gage South ADES connections	\$243,960	\$243,960	\$0	\$243,960	\$0
Steam 1	Power House (part of a \$6.2M generator/cogenerator and partially funding of boiler,	\$1,700,158	\$1,700,158	\$0	\$1,700,158	\$0
Steam 2	Agronomy and Health Sciences - extensions to Life Sci & Chem-Bio	\$896,267	\$896,267	\$0	\$896,267	\$0
Steam 3	Agronomy and Health Sciences - Trunk System for Life Sci & Chem-Bio	\$518,986	\$518,986	\$0	\$518,986	\$0
Steam 4	University Boulevard (Main Mall/West Mall) - Extensions to Academic Building	\$1,297,596	\$1,297,596	\$0	\$1,297,596	\$0
Steam 6	MOA relocation	\$779,526	\$779,526	\$0	\$779,526	\$0
Steam 7	Strangway Bldg relocation	\$325,277	\$325,277	\$0	\$325,277	\$0
Steam 10-1	Sauder, Marine Phase II	\$359,581	\$359,581	\$0	\$359,581	\$0
Steam 10-2	Beaty Biodiversity	\$28,658	\$28,658	\$0	\$28,658	\$0
<b>Total</b>		<b>\$18,710,010</b>	<b>\$16,150,010</b>	<b>\$9,390,000</b>	<b>\$25,540,010</b>	<b>\$6,830,000</b>
<b>Solid Waste</b>						
SW1	Relocation of Materials Recovery Facility	\$1,144,440	\$0	\$1,144,440	\$1,144,440	\$0
SW2	Expansion of MRF	\$468,180	\$0	\$468,180	\$468,180	\$0
SW3	Equipment - bins, containers, etc.	\$2,000,000	\$74,800	\$1,925,200	\$2,000,000	\$0
SW5	Waste Compactors	\$250,000	\$0	\$250,000	\$250,000	\$0
SW6	Upgrade compactor at Material Recovery Facility	\$150,000	\$0	\$150,000	\$150,000	\$0
SW7	Waste/Recycling enclosures	\$2,400,000	\$0	\$2,400,000	\$2,400,000	\$0
SW8	Expansion of In Vessel composting facility	\$1,600,000	\$0	\$1,600,000	\$1,600,000	\$0
SW4	In Vessel Composting (Total cost \$1.2M)	\$250,000	\$250,000	\$0	\$250,000	\$0
<b>Total</b>		<b>\$8,262,620</b>	<b>\$324,800</b>	<b>\$7,937,820</b>	<b>\$8,262,620</b>	<b>\$0</b>
<b>Planning, Services and Financing Costs</b>						
PS5	Electrical model upgrade	\$150,000	\$0	\$150,000	\$150,000	\$0
PS7	Future master servicing planning model updates	\$3,000,000	\$0	\$3,000,000	\$3,000,000	\$0
PS6	Electrical campus supply study	\$150,000	\$150,000	\$0	\$150,000	\$0
PS1	Consultant exp. (Urban Systems / Holland Barrs)	\$47,756	\$47,756	(\$0)	\$47,756	\$0
PS2	Couriers/Operational supplies & expense/Professional exp	\$350	\$350	\$0	\$350	\$0
PS3	Thunderbird Re-alignment (Water, Sanitary, Storm, Roadways, Landscaping)	\$157,534	\$157,534	\$0	\$157,534	\$0
PS4	MOA relocation	\$21,695	\$21,695	\$0	\$21,695	\$0
<b>Total</b>		<b>\$3,527,335</b>	<b>\$377,335</b>	<b>\$3,150,000</b>	<b>\$3,527,335</b>	<b>\$0</b>
<b>Pre-2003 Costs</b>						
Pre-2003-1	Treasury Expenses	\$9,736	\$9,736	\$0	\$9,736	\$0
Pre-2003-2	Project 8986 - Update of IICs (Max reached)	\$50,000	\$50,000	\$0	\$50,000	\$0
Pre-2003-3	Project 8984 - Technical Guidelines	\$248,814	\$248,814	\$0	\$248,814	\$0
Pre-2003-4	Municipal - Disney Clean Project	\$45,828	\$45,828	\$0	\$45,828	\$0
Pre-2003-5	Utilities Watermain Project (Max - old rates reached)	\$310,465	\$310,465	\$0	\$310,465	\$0
Pre-2003-6	Custodial Equipment	\$250,000	\$250,000	\$0	\$250,000	\$0
Pre-2003-7	Custodial - Floor mats & paper towel dispensers	\$100,000	\$100,000	\$0	\$100,000	\$0
Pre-2003-8	Gardeners - Benches	\$50,000	\$50,000	\$0	\$50,000	\$0
Pre-2003-9	Cliff Remediation Project	\$400,000	\$400,000	\$0	\$400,000	\$0
<b>Total</b>		<b>\$1,464,844</b>	<b>\$1,464,844</b>	<b>\$0</b>	<b>\$1,464,844</b>	<b>\$0</b>
<b>Transfer to Maintenance</b>						
	Transfer to Deferred Maintenance (2001-2012)	\$5,619,684	\$5,619,684	\$0	\$5,619,684	\$0
	Transfer back to IIC Program (include interest income) (2012)	(\$6,205,281)	(\$6,205,281)	\$0	(\$6,205,281)	\$0
	<b>Interest Income from Deferred Maintenance</b>	<b>(\$585,597)</b>	<b>(\$585,597)</b>	<b>\$0</b>	<b>(\$585,597)</b>	<b>\$0</b>
	<b>Total IIC Program Expenditures (before Interest)</b>	<b>\$238,539,299</b>	<b>\$110,257,654</b>	<b>\$137,389,548</b>	<b>\$247,913,893</b>	<b>\$11,445,557</b>
<b>Interest (Income)/Expense</b>						
	Interest (Income)/Expense	\$626,962	\$5,397,100.24	(\$532,107.66)	\$4,864,993	\$4,238,031
	<b>Total Interest (Income)/Expense</b>	<b>\$626,962</b>	<b>\$5,397,100</b>	<b>(\$532,108)</b>	<b>\$4,864,993</b>	<b>\$4,238,031</b>
	<b>Total IIC Program Expenditures (net of interest)</b>	<b>\$239,166,261</b>	<b>\$115,654,754</b>	<b>\$136,857,440</b>	<b>\$252,778,885</b>	<b>\$15,683,588</b>
<b>SUMMARY</b>						
	<b>IIC Revenue</b>	<b>\$287,318,196</b>	<b>\$99,105,871</b>	<b>\$183,738,744</b>	<b>\$282,844,615</b>	<b>(\$4,473,581)</b>
	<b>IIC Expenditures</b>	<b>(\$238,539,299)</b>	<b>(\$110,257,654)</b>	<b>(\$137,389,548)</b>	<b>(\$247,913,893)</b>	<b>(\$9,374,593)</b>
	<b>Interest Income/(Expense)</b>	<b>(\$626,962)</b>	<b>(\$5,397,100)</b>	<b>\$532,108</b>	<b>(\$4,864,993)</b>	<b>(\$4,238,031)</b>
	<b>Contingency for Potential Reduced Floorspace</b>	<b>(\$25,000,000)</b>	<b>\$0</b>	<b>(\$25,000,000)</b>	<b>(\$25,000,000)</b>	<b>\$0</b>
	<b>IIC Balance</b>	<b>\$23,151,935</b>	<b>(\$16,548,883)</b>	<b>\$21,981,304</b>	<b>\$5,065,730</b>	<b>(\$18,086,205)</b>

## Attachment Two: 2018-2019 CAC 10-Year Plan and Summary Plan

As of:

December 31, 2017

			-	0	1	2	3	4	5	6	7	8	9	10
	Prior Years Actual	2017/18 Actual	2017/18 Forecast	2018/19 Plan	2019/20 Plan	2020/21 Plan	2021/22 Plan	2022/23 Plan	2023/24 Plan	2024/25 Plan	2025/26 Plan	2026/27 Plan	2027/28 Plan	2028/29 Plan
<b>CAC 10 Year Plan (in \$M)</b>														
<b>Revenue:</b>														
Market Housing Revenue (UBCPT) - Prepaid Lease	13.05	-	0.72	1.31	0.56	0.43	0.25	0.90	1.39	0.54	0.98	0.81	0.47	0.41
Market Housing Revenue (UBCPT) - Rental	0.23	-	-	-	-	-	0.55	-	-	0.30	-	-	0.36	-
Transfers In (LOC balance from Treasury)	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Revenue &amp; Transfers In</b>	<b>15.78</b>	<b>-</b>	<b>0.72</b>	<b>1.31</b>	<b>0.56</b>	<b>0.43</b>	<b>0.80</b>	<b>0.90</b>	<b>1.39</b>	<b>0.84</b>	<b>0.98</b>	<b>0.81</b>	<b>0.84</b>	<b>0.41</b>
<b>Expenditures:</b>														
Wesbrook Place Community Centre	(13.56)	0.00	-	-	-	-	-	-	-	-	-	-	-	-
Wesbrook Place Community Centre - Childcare	-	-	-	-	-	-	-	-	-	(4.60)	-	-	-	-
EC4 Childcare (Vista Point Daycare)	(1.00)	1.00	-	-	-	(1.00)	-	-	-	-	-	-	-	-
Childcare	-	-	-	-	-	-	-	-	-	-	-	-	-	(2.30)
Acadia Community Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenses</b>	<b>(18.93)</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(1.00)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(4.60)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(2.30)</b>
<b>Surplus/(Deficit)</b>	<b>(3.15)</b>	<b>1.00</b>	<b>0.72</b>	<b>1.31</b>	<b>0.56</b>	<b>(0.57)</b>	<b>0.80</b>	<b>0.90</b>	<b>1.39</b>	<b>(3.76)</b>	<b>0.98</b>	<b>0.81</b>	<b>0.84</b>	<b>(1.89)</b>
Interest Income/(Expense)	0.76	(0.03)	(0.01)	(0.00)	0.02	0.02	0.02	0.04	0.07	0.04	0.01	0.03	0.05	0.04
<b>Net Surplus/(Deficit)</b>	<b>(2.40)</b>	<b>0.97</b>	<b>0.71</b>	<b>1.31</b>	<b>0.58</b>	<b>(0.55)</b>	<b>0.82</b>	<b>0.95</b>	<b>1.46</b>	<b>(3.72)</b>	<b>1.00</b>	<b>0.84</b>	<b>0.89</b>	<b>(1.85)</b>
<b>CAC Balance</b>														
	Prior Years Actual	2017/18 Actual	2017/18 Forecast	2018/19 Plan	2019/20 Plan	2020/21 Plan	2021/22 Plan	2022/23 Plan	2023/24 Plan	2024/25 Plan	2025/26 Plan	2026/27 Plan	2027/28 Plan	2028/29 Plan
<b>CAC Balance, Beginning</b>	<b>-</b>	<b>(2.40)</b>	<b>(1.43)</b>	<b>(0.72)</b>	<b>0.59</b>	<b>1.16</b>	<b>0.61</b>	<b>1.43</b>	<b>2.38</b>	<b>3.84</b>	<b>0.12</b>	<b>1.11</b>	<b>1.95</b>	<b>2.85</b>
Net Surplus/(Deficit)	(2.40)	0.97	0.71	1.31	0.58	(0.55)	0.82	0.95	1.46	(3.72)	1.00	0.84	0.89	(1.85)
Contingency (\$1.2M for reduced floorspace)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>CAC Balance, Ending</b>	<b>(2.40)</b>	<b>(1.43)</b>	<b>(0.72)</b>	<b>0.59</b>	<b>1.16</b>	<b>0.61</b>	<b>1.43</b>	<b>2.38</b>	<b>3.84</b>	<b>0.12</b>	<b>1.11</b>	<b>1.95</b>	<b>2.85</b>	<b>1.00</b>
<b>Loan payments breakdown</b>														
<b>CAC Balance, Beginning</b>	<b>(2.40)</b>	<b>(1.43)</b>	<b>(0.72)</b>	<b>0.59</b>	<b>1.16</b>	<b>0.61</b>	<b>1.43</b>	<b>2.38</b>	<b>3.84</b>	<b>0.12</b>	<b>1.11</b>	<b>1.95</b>	<b>2.85</b>	<b>2.85</b>
Net Surplus/(Deficit)	0.97	0.71	1.31	0.58	(0.55)	0.82	0.95	1.46	(3.72)	1.00	0.84	0.89	(1.85)	-
Add back: Forecasted UBCPT Loan payments	-	0.72	1.06	-	-	-	-	-	-	-	-	-	-	-
Contingency (\$1.2M for reduced floorspace)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>CAC Balance prior to funding</b>	<b>(1.43)</b>	<b>0.00</b>	<b>1.65</b>	<b>1.16</b>	<b>0.61</b>	<b>1.43</b>	<b>2.38</b>	<b>3.84</b>	<b>0.12</b>	<b>1.11</b>	<b>1.95</b>	<b>2.85</b>	<b>2.85</b>	<b>1.00</b>
UBCPT Loan (1st priority)	-	(0.72)	(1.06)	-	-	-	-	-	-	-	-	-	-	-
UBC Treasury (LOC) (2nd priority)	-	-	(0.59)	(1.16)	(0.61)	(0.14)	-	-	-	-	-	-	-	-
UBCPT Loan - Vista Point Daycare (3rd priority)	-	-	-	-	-	(1.00)	-	-	-	-	-	-	-	-
<b>CAC Balance after loan repayments</b>	<b>(1.43)</b>	<b>(0.72)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.29</b>	<b>2.38</b>	<b>3.84</b>	<b>0.12</b>	<b>1.11</b>	<b>1.95</b>	<b>2.85</b>	<b>1.00</b>

## Legend:

	New projects
	Planned Projects
	Completed projects
	Projects no longer required

CAC SUMMARY PLAN (2018-19)		Approved Budget from 2016-17	CAC To Date Actual as at 31-Dec-17	Estimate to Completion	Forecast 2018-19	Change in Budget From Previous Yr. [Over/(Under)]
Project ID	Description	(a)	(b)	(c)	(d) = (b) + (c)	(e) = (d) - (a)
<b>Revenues</b>						
Market Housing (Leasehold and Rental)		\$33,421,716	\$13,275,207	\$16,959,638	\$30,234,844	(\$3,186,872)
LOC1	LOC from Treasury (2.5% interest)	\$2,500,000	\$2,500,000	\$0	\$2,500,000	\$0
<b>Total CAC Program Revenues &amp; Transfers In</b>		<b>\$35,921,716</b>	<b>\$15,775,207</b>	<b>\$16,959,638</b>	<b>\$32,734,844</b>	<b>(\$3,186,872)</b>
<b>Expenditures</b>						
<b>CAC</b>						
CAC2-2	Wesbrook Place Community Centre - Childcare	\$1,800,000	\$0	\$1,800,000	\$4,600,000	\$2,800,000
FC1	EC4 Childcare (Vista Point Daycare)	\$1,000,000	\$0	\$1,000,000	\$1,000,000	\$0
EC2	Childcare	\$6,930,000	\$0	\$6,930,000	\$6,900,000	(\$30,000)
FC3	Acadia Community Centre	\$6,000,000	\$0	\$6,000,000	\$3,000,000	(\$3,000,000)
CAC2-1	Wesbrook Place Community Centre	\$13,400,000	\$13,559,157	\$0	\$13,559,157	\$159,157
C1	Hawthorne Place Community Centre Costs	\$3,008,766	\$2,939,224	\$0	\$2,939,224	(\$69,542)
C4	Shared Community Facility - Basketball Court	\$30,794	\$30,794	\$0	\$30,794	\$0
CAC1	Vancouver Child Care Expansion	\$1,100,000	\$1,100,000	\$0	\$1,100,000	\$0
CAC3	UNA Skateboard Park	\$300,000	\$300,000	\$0	\$300,000	\$0
<b>Total</b>		<b>\$33,569,560</b>	<b>\$17,929,175</b>	<b>\$15,730,000</b>	<b>\$33,429,175</b>	<b>(\$140,385)</b>
<b>Total CAC Program Expenditures (before Interest)</b>		<b>\$33,569,560</b>	<b>\$17,929,175</b>	<b>\$15,730,000</b>	<b>\$33,429,175</b>	<b>(\$140,385)</b>
<b>Interest (Income)/Expense</b>						
Interest (Income)/Expense		(\$1,901,966)	(\$727,721)	(\$1,174,245)	(\$1,901,966)	\$0
<b>Total Interest (Income)/Expense</b>		<b>(\$1,901,966)</b>	<b>(\$727,721)</b>	<b>(\$1,174,245)</b>	<b>(\$1,901,966)</b>	<b>\$0</b>
<b>SUMMARY</b>						
<b>CAC Revenue</b>		<b>\$35,921,716</b>	<b>\$15,775,207</b>	<b>\$16,959,638</b>	<b>\$32,734,844</b>	<b>(\$3,186,872)</b>
<b>CAC Expenditures</b>		<b>(\$33,569,560)</b>	<b>(\$17,929,175)</b>	<b>(\$15,730,000)</b>	<b>(\$33,429,175)</b>	<b>\$140,385</b>
<b>Interest Income/(Expense)</b>		<b>\$1,901,966</b>	<b>\$727,721</b>	<b>\$1,174,245</b>	<b>\$1,901,966</b>	<b>\$0</b>
<b>Contingency for Potential Reduced Floorspace</b>		<b>\$0</b>	<b>\$0</b>	<b>(\$1,200,000)</b>	<b>(\$1,200,000)</b>	<b>(\$1,200,000)</b>
<b>CAC Balance</b>		<b>\$4,254,122</b>	<b>(\$1,426,248)</b>	<b>\$1,203,883</b>	<b>\$7,635</b>	<b>(\$4,246,487)</b>