

Staffing Summary

	2015	2016	2016	2017	2018	2019	
	Actual	Budget	Forecast	Budget	Budget	Budget	Note
Directorate	7.00	7.00	7.00	5.00	5.00	5.00	(1)
City Garage	4.63	4.46	4.46	4.31	4.31	4.31	
Roads & Sidewalks	14.58	14.81	14.81	15.81	15.81	15.81	
Solid Waste Management	9.26	9.47	9.47	9.26	9.26	9.26	(2)
Water and Sewer	21.25	19.25	19.25	20.25	20.25	20.25	(3)
	56.72	54.99	54.99	54.63	54.63	54.63	
Permanent	53.08	51.08	51.08	51.08	51.08	51.08	
Part-time/Casual	3.64	3.91	3.91	3.55	3.55	3.55	
	56.72	54.99	54.99	54.63	54.63	54.63	

Note:

- (1) 2015 and 2016 include one engineer financed by Capital Fund but starting in 2017 the engineering tasks for new capital projects will go back to private consultants.

 Administrative Assistant was previously reported under Directorate but starting in 2017 it is under the consultants.
 - Administrative Assistant was previously reported under Directorate but starting in 2017 it is under Roads & Sidewalks.
- (2) Facility Tradesperson from 2008 onwards = 0.08 PY
- (3) One new Administrative Assistant starting from 2017

PUBLIC WORKS & ENGINEERING

The Department of Public Works & Engineering strives to provide costeffective and responsive municipal services to the public within the policies, objectives and budget outlined by City Council. The Department delivers programs in three areas: the Engineering Division, the Works Division and the Solid Waste Division.

The Works Division carries out the operations and maintenance programs which cover the delivery of basic municipal services, including: piped or trucked water and sewer services to all City residents, garbage collection, maintenance and repair of the City's roadways and sidewalks, and vehicle servicing for all City departments.

The Engineering Division delivers and administers the City's capital works programs, which include major construction under the water and sanitation program (such as water treatment and sewage disposal facilities), the roads and sidewalks program (new road construction, paving and concrete work), the land development program and major and minor capital works for other City departments.

The Solid Waste Division carries out the disposal of waste in accordance with regulations, and facilitates recycling.

This department is also responsible for Community Energy Plan initiatives. According to Yellowknife's 2013 Energy Inventory, the average Yellowknifer emitted less CO2 than the national average but, as a whole, the community still spends an estimated \$144 million on energy

annually. Within the framework of rising fuel prices and Canada's commitment to reduce emissions, the City has developed a Community Energy Plan (CEP) that was adopted by Council in 2006. The scope of the CEP includes a focused effort to reduce emissions and energy use within City operations and to support the community in its effort to do the same. An update to the CEP is being drafted now, setting targets to 2025 and 2050.



				2017		
	2015	2016	2016	Budget	2018	2019
	Actual	Budget	Forecast	Approved	Budget	Budget
	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)
Revenue						
User Charges	504	391	415	421	429	433
	504	391	415	421	429	433
Expenditures (By Activity)						
Administration	636	899	776	815	852	879
City Garage	1,046	780	688	794	821	848
Public Transit	1,527	1,630	1,585	1,648	1,687	1,740
Roads & Sidewalks	3,428	3,684	3,716	3,729	3,862	3,977
	6,637	6,993	6,765	6,986	7,221	7,443
Net Revenue (Expenditures)	(6,134)	(6,602)	(6,351)	(6,565)	(6,793)	(7,010)
Expenditures (By Object)						
Wages & Benefits	2,617	2,997	2,859	3,032	3,123	3,195
Other O&M	4,593	4,937	4,848	4,733	4,901	5,086
Internal Recoveries	(573)	(942)	(942)	(780)	(803)	(839)
	6,637	6,992	6,765	6,986	7,221	7,443
Details of Other O&M						
General Services	1,750	1,909	1,912	1,931	1,987	2,047
Materials	510	523	546	530	553	569
Maintenance	50	65	69	65	68	70
Utility- Fuel	65	72	64	65	70	77
Utility- Power	966	959	966	983	1,026	1,067
Vehicle O&M & Fuel	680	467	349	379	395	420
Others	-	-	-	-	-	-
<u> </u>	4,020	3,995	3,907	3,953	4,098	4,248

Public Work	s & Engineering Directorate Budge	et				1	
					2017		
		2015	2016	2016	Budget	2018	2019
		Actual	Budget	Forecast	Approved	Budget	Budget
		(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)
Revenue		, , , , , , , , , , , , , , , , , , ,	,	, ,	, ,	,	, ,
	User Charges	5	-	-	-	-	-
		5	-	-	-	-	-
Expenditure	es (By Activity)						
	Legislation & Governance	64	90	78	82	85	88
	Capital Planning	89	126	109	114	119	123
	Project Management	95	135	117	122	128	132
	Roads & Sidewalks	159	225	194	204	213	220
	Water & Sewer	127	180	155	163	170	176
	Public Transit	32	45	39	41	43	44
	Drafting	70	99	85	90	94	97
		636	899	776	815	852	879
Net Revenu	e (Expenditures)	(631)	(899)	(776)	(815)	(852)	(879)
Expenditure	es (By Object)						
	Wages & Benefits	607	856	730	779	810	836
	Other O&M	29	43	46	36	42	42
		636	899	776	815	852	879
Details of O		4 =	4.4	4.4			1.1
	General Services	17	14	14	12	14	14
	Materials Maintenance	8	23	26	21	25	25
	Utility- Fuel	-	-	-	-	-	-
	Utility- Power	-	-	-	_	-	-
	Vehicle 0&M & Fuel	4	6	6	3	3	3
	Others	-	-			-	
	Guioro	29	43	46	36	42	42
							,



City Garage	<u>Budget</u>			,				
					2017			
		2015	2016	2016	Budget	2018	2019	
		Actual	Budget	Forecast	Approved	Budget	Budget	
		(\$000\$)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000\$)	Note
Expenditur	es (By Activity)							
	Fleet Repair & Maintenance	1,416	1,512	1,426	1,373	1,420	1,479	
	Maintenance Costs Allocated	(573)	(942)	(942)	(780)	(803)	(839)	(1)
	Garage/Yard Maintenance	171	175	171	169	171	173	
	Standby Generator Maintenance	32	34	33	31	32	34	
		1,046	780	688	794	821	848	
							_	
	Wages & Benefits	450	526	482	523	535	545	
	Other O&M	1,170	1,196	1,148	1,051	1,088	1,142	
	Maintenance Costs Allocated	(573)	(942)	(942)	(780)	(803)	(839)	(1)
		1,046	780	688	794	821	848	
Details of (Other O&M							
	General Services	36	28	31	29	30	31	
	Materials	60	55	55	55	58	59	
	Maintenance	-	-	-	-	-	-	
	Utility- Fuel	65	72	64	65	70	77	
	Utility- Power	55	49	55	58	60	63	
	Vehicle O&M & Fuel	380	50	1	63	68	74	
	Others		-	-	-	-		
		596	254	206	271	286	303	

Note:

(1) This represents the vehicle O&M and fuel costs to be incurred by Fleet Management on behalf of other departments. The costs will be reallocated to other departments.

Public Transit Budget							
				2017			
	2015	2016	2016	Budget	2018	2019	
	Actual	Budget	Forecast	Approved	Budget	Budget	
	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	Note
Revenue	(1)	(,)	(,)	(1)	(,)	(1)	
User Charges	424	391	391	396	404	408	
	424	391	391	396	404	408	
Expenditures (By Activity)							
Transit Operations	1,527	1,630	1,585	1,648	1,687	1,740	
Net Revenue (Expenditures)	(1,103)	(1,239)	(1,195)	(1,252)	(1,284)	(1,332)	
Expenditures (By Object)							
Other O&M	1,527	1,630	1,585	1,648	1,687	1,740	
	1,527	1,630	1,585	1,648	1,687	1,740	
Details of Other O&M							
General Services	1,517	1,621	1,576	1,638	1,677	1,730	(1)
Materials	9	4	4	5	5	5	
Maintenance	1	5	5	5	5	5	
Utility- Fuel	-	-	-	-	-	-	
Utility- Power	-	-	-	-	-	-	
Vehicle O&M & Fuel	-	-	-	-	-	-	
Others		-	-	-	-	-	
	1,527	1,630	1,585	1,648	1,687	1,740	

Note:

(1) Mostly transit contracted costs



Workload Indicators	Public Transit Performance Measures	Projected	Actual	Projected	Forecasted	Forecasted	Forecasted	Notes			
No. of hours bus service provided 12,000 11,872 12,000 12,000 12,000 (1) Annual ridership based on revenue 196,000 189,505 192,000 194,000 196,000 198,000 (2) No. of hours accessible transit was provided 3,900 3,862 3,900 3,900 3,900 3,900 (3) Annual ridership on accessible transit based on daily trip sheets 7,000 6,187 7,000 7,000 7,000 7,000 7,000 Efficiency Measures Annual subsidized cost per capita \$63.69 \$53.44 \$57.41 \$59.72 \$60.77 \$62.63 (4) Annual revenue/cost ratio 0.22 0.28 0.25 0.24 0.24 0.23 (5) Annual subsidized cost per capita (accessible transit) \$12.52 \$12.49 \$12.72 \$12.82 \$13.04 \$13.36 (6) Annual revenue/cost ratio (accessible transit) 0.07 0.06 0.07 0.06 0.06 0.06 (7) Effectiveness Measures % of users very satisfied or somewhat satisfied with the overall transit system - 86% 86% 86% 86% 86% (8) Notes: (1) Changes to transit routes in September 2014 and September 2015. Replacement of Route B Split bus with Express buses reduced the overall hours of service pro (2) The ridership in 2013 was 165,226. (3) Accessible transit started in September of 2005. (4) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$30.53 in 2012. (5) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$11.39 in 2012. (6) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was 0.15 in 2012.		2015	2015	2016	2017	2018	2019				
No. of hours bus service provided 12,000 11,872 12,000 12,000 12,000 (1) Annual ridership based on revenue 196,000 189,505 192,000 194,000 196,000 198,000 (2) No. of hours accessible transit was provided 3,900 3,862 3,900 3,900 3,900 3,900 3,900 (3) Annual ridership on accessible transit based on daily trip sheets 7,000 6,187 7,000 7,000 7,000 7,000 7,000 Efficiency Measures Annual subsidized cost per capita \$63.69 \$53.44 \$57.41 \$59.72 \$60.77 \$62.63 (4) Annual revenue/cost ratio 0,22 0,28 0,25 0,24 0,24 0,24 0,23 (5) Annual subsidized cost per capita (accessible transit) \$12.52 \$12.49 \$12.72 \$12.82 \$13.04 \$13.36 (6) Annual revenue/cost ratio (accessible transit) 0,07 0,06 0,06 0,06 0,06 (7) Effectiveness Measures % of users very satisfied or somewhat satisfied with the overall transit system - 86% 86% 86% 86% 86% (8) Notes: (1) Changes to transit routes in September 2014 and September 2015. Replacement of Route B Split bus with Express buses reduced the overall hours of service pro (2) The ridership in 2013 was 165,226. (3) Accessible transit started in September of 2005. (4) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$30.53 in 2012. (5) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was 0.45 in 2012. (6) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was 0.15 in 2012.	Mod Lod Loden										
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Efficiency Measures Annual subsidized cost per capita \$63.69 \$53.44 \$57.41 \$59.72 \$60.77 \$62.63 (4) Annual revenue/cost ratio 0.22 0.28 0.25 0.24 0.24 0.23 (5) Annual subsidized cost per capita (accessible transit) \$12.52 \$12.49 \$12.72 \$12.82 \$13.04 \$13.36 (6) Annual revenue/cost ratio (accessible transit) 0.07 0.06 0.07 0.06 0.06 0.06 0.06 (7) Effectiveness Measures % of users very satisfied or somewhat satisfied with the overall transit system - 86% 86% 86% 86% 86% (8) Notes: (1) Changes to transit routes in September 2014 and September 2015. Replacement of Route B Split bus with Express buses reduced the overall hours of service pro (2) The ridership in 2013 was 165,226. (3) Accessible transit started in September of 2005. (4) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$30.53 in 2012. (5) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$11.39 in 2012. (6) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$11.39 in 2012. (7) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$0.15 in 2012.	Annual ridership on accessible transit based on daily										
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Annual subsidized cost per capita \$63.69 \$53.44 \$57.41 \$59.72 \$60.77 \$62.63 (4) Annual revenue/cost ratio 0.22 0.28 0.25 0.24 0.24 0.23 (5) Annual subsidized cost per capita (accessible transit) \$12.52 \$12.49 \$12.72 \$12.82 \$13.04 \$13.36 (6) Annual revenue/cost ratio (accessible transit) 0.07 0.06 0.07 0.06 0.06 0.06 (7) Effectiveness Measures % of users very satisfied or somewhat satisfied with the overall transit system - 86% 86% 86% 86% 86% 86% (8) Notes: (1) Changes to transit routes in September 2014 and September 2015. Replacement of Route B Split bus with Express buses reduced the overall hours of service pro (2) The ridership in 2013 was 165,226. (3) Accessible transit started in September of 2005. (4) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$30.53 in 2012. (5) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$11.39 in 2012. (7) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$1.139 in 2012.											
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Annual revenue/cost ratio (accessible transit) 0.07 0.06 0.07 0.06 0.07 0.06 0.06 0.06 0.06 0.06 0.06 0.07 0.06	Annual revenue/cost ratio	0.22	0.28	0.25	0.24	0.24	0.23	(5)			
Effectiveness Measures % of users very satisfied or somewhat satisfied with the overall transit system - 86% 86% 86% 86% 86% 86% 86% 86% 86% 86%	Annual subsidized cost per capita (accessible transit)	\$12.52	\$12.49	\$12.72	\$12.82	\$13.04	\$13.36	(6)			
% of users very satisfied or somewhat satisfied with the overall transit system - 86% 86% 86% 86% 86% 86% 86% 86% 86% 86%	Annual revenue/cost ratio (accessible transit)	0.07	0.06	0.07	0.06	0.06	0.06	(7)			
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 (1) Changes to transit routes in September 2014 and September 2015. Replacement of Route B Split bus with Express buses reduced the overall hours of service pro (2) The ridership in 2013 was 165,226. (3) Accessible transit started in September of 2005. (4) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$30.53 in 2012. (5) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was 0.34 in 2012. (6) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was \$11.39 in 2012. (7) The national average for Yellowknife's population group according to the Canadian Urban Transportation Association was 0.15 in 2012. 											
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to i according to a manoit ourself in 2012, 04% were satisfied of somewhat satisfied with the overall transit service.	-			•							

Roads & Sidewalks							
				2017			
	2015	2016	2016	Budget	2018	2019	
	Actual	Budget	Forecast	Approved	Budget	Budget	
	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	Note
Revenue							
User Charges	75	-	24	25	25	25	
	75	-	24	25	25	25	
Expenditures (By Activity)							
Adminstrative Support	-	-	-	86	92	96	(1)
Snow & Ice Control	1,192	1,155	1,316	1,310	1,351	1,383	
Street Maintenance	566	617	623	583	602	617	
Street Sweeping	226	325	246	238	245	253	
Storm/Ditch Maintenance	288	370	323	309	318	326	
Traffic Signals/Lighting/Marking	1,158	1,217	1,209	1,203	1,254	1,303	
	3,428	3,684	3,716	3,729	3,862	3,977	
Net Revenue (Expenditures)	(3,353)	(3,684)	(3,692)	(3,704)	(3,837)	(3,952)	
Expenditures (By Object)							
Wages & Benefits	1,560	1,615	1,647	1,731	1,778	1,815	
Other O&M	1,868	2,069	2,069	1,999	2,084	2,162	
outer oath	3,428	3,684	3,716	3,729	3,862	3,977	
Details of Other O&M							
General Services	180	246	291	252	266	273	(2)
Materials	433	441	461	449	465	480	
Maintenance	50	60	64	60	63	65	
Utility- Fuel	-	-	-	-	-	-	
Utility- Power	911	911	911	925	966	1,004	(3)
Vehicle O&M & Fuel	295	411	342	313	324	342	
Others	-	-	-	-	-	-	
	1,868	2,069	2,069	1,999	2,084	2,163	

Note:

(1) Administrative Assistant was previously budgeted under PW & Engineering Directorate and starting in 2017, it is under Roads & Sidewalks.

(2) Mostly road patching & snow removal contracted costs

(3) Street and traffic lights



Snow & Ice Control Budget						
				2017		
	2015	2016	2016	Budget	2018	2019
	Actual	Budget	Forecast	Approved	Budget	Budget
	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)
Snow Removal/Clearing						
General Services	10	53	53	61	68	69
Materials	0	2	2	1	1	1
	10	55	55	62	69	70
Vehicle O&M & Fuel	130	156	151	138	143	151
Labour	729	666	769	769	788	803
	869	876	975	968	999	1,024
Winter Sanding						
Materials	198	208	208	211	217	221
	198	208	208	211	217	221
Vehicle O&M & Fuel	14	9	16	15	15	16
Labour	111	62	117	117	120	122
	322	279	341	343	352	359
	1,192	1,155	1,316	1,310	1,351	1,383

Snow and Ice Control Performance Measures	Projected 2015	Actual 2015	Projected 2016	Forecasted 2017	Forecasted 2018	Forecasted 2019	Notes
Workload Indicators							
Annual snowfall (cm)	155	166.4	155	155	155	155	(1)
Lane/road kilometres maintained	205.97	205.97	206.89	206.89	206.89	206.89	
Efficiency Measures							
Cost per km of snow removed and cleared on roads							
and city streets	\$6,350	\$6,350	\$5,583	\$5,708	\$5,829	\$5,960	(2)
Notes:							
(1) Annual Snowfall: (Actual)							
2008 199.0 cm							
2009 174.1 cm							
2010 124,8 cm							
2011 130 cm							
2012 140.8 cm							
2013 152 cm							
2014 136 cm							
2015 166.4 cm							
(2) Cost per km includes ice control (winter sanding).							



Street Maintenance Budget			,		1	
				2017		
	2015	2016	2016	Budget	2018	2019
	Actual	Budget	Forecast	Approved	Budget	Budget
	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)
Dust Control						
Materials	33	27	34	33	34	35
	33	27	34	33	34	35
Vehicle O&M & Fuel	5	9	6	6	6	6
Labour	35	47	37	37	38	39
	73	83	77	76	78	80
Gravel Road Maintenance						
Materials	24	16	16	16	17	17
	24	16	16	16	17	17
Vehicle O&M & Fuel	8	10	10	9	9	10
Labour	36	35	38	38	39	40
	68	62	64	63	65	66
Paved Road Maintenance						
General Services	153	157	197	160	165	169
Materials	77	78	78	78	82	83
	230	235	275	238	247	252
Vehicle O&M & Fuel	19	30	22	20	21	22
Labour	123	152	129	129	133	135
	372	416	426	387	400	410
Cidewall, Maintenana						
Sidewalk Maintenance	44	45	45	45	48	40
General Services				45	6	49
Materials	4	6	6	6		6
Vahiala O. M. P. Fual	48	51	51	51	54	55
Vehicle O&M & Fuel	1	1	1	1	1	1
Labour	5	5	5	5	5	5
	54	57	57	57	60	61
	566	617	623	583	602	617

Street Maintenance Performance Measures	Projected	Actual	Projected	Forecasted	Forecasted	Forecasted	Notes			
	2015	2015	2016	2017	2018	2019				
Workload Indicators										
_ane kms of paved roads	156.99	156.99	160.96	160.96	164.26	165.12				
Lane kms of paved alleys	8.37	8.37	9.05	9.05	9.05	9.05				
Lane kms of unpaved roads	30.69	30.69	26.96	26.96	23.66	22.8				
Lane kms of unpaved alleys	9.92	9.92	9.92	9.92	9.92	9.92				
Total	205.97	205.97	206.89	206.89	206.89	206.89				
Total	203.91	203.91	200.89	200.89	200.89	200.89				
Kms of new roads added	3,739	3,970	0.000	0.000	0.000	0.000	(1)			
Table of flow roads added	3,133	0,010	0.000	0.000	0.000	0.000	(=)			
Efficiency Measures										
Cost per km maintained – road/alley	\$2,913	\$2,996	\$3,011	\$2,847	\$2,910	\$2,982				
	, _,,	-,	, , , ,	, _, _ ,	, -,	7 – 70 – 1				
Note (1):										
2014 Reconstruct - 52 Avenue from 49 Street to 56 St	reet (610 m); Ra	accine / Ingrah	nam / Doornbos (592 m)						
2014 Pave - DeWeerdt Drive, Driscoll Road, Haener Driv	/e (465 m) - grav	el to paveme	ent							
2014 Added gravel roads to maintain- Lemay Drive (31	4 m); Norseman	Drive (498 m	n); Gibben Drive (6	66m); Hall Cres (3	353 m) - total 1,2	231 m				
2015 Pave - Utsingi Drive, including Taltheilei Drive, Ettl	nen Drive, Dryboi	nes tie-ins to [Deh Cho Boulevar	d (1,150 m); Len	nay Drive (144 n	n) - gravel to pave	ement			
2015 Added gravel roads to maintain - Hall Crescent (8	12 m); Stinson/	Fairchild/Bell	anca/Anson/Cata	lina (1,927 m) -	total 2,739 m					
2016 Added paved road to maintain Highway 4, 49th A	venue to Giant b	oat launch (3	3,653 m) (Note) i	oad not aquired	by city in 2016					
2016 Reconstruct - Franklin Avenue, 41 Street to Wile	y Road (697 m);									
2016 Pave - Etthen/Taltheilei/Cameron (1,015 m) - gra	avel to pavemen	t								
2016 Added gravel roads to maintain - Hall Crescent (3	15 m), Grace La	ke South (60	9 m)							
2017 Reconstruct - Kam Lake Road, Finlayson Drive to Deh Cho Boulevard (845 m)										
2017 Reconstruct - 52 Street, 52 Avenue to 51 Avenue overlay (184 m); 51 Street, 51 Avenue to 52 Avenue overlay (184 m)										
2018 Pave - Northlands (Norseman/Stinson/Fairchild/Bellanca/Anson/Catalina) (2,270 m); Block 501 Phase 1,2&3 (528m); Grace Lake North (500 m) 3.298 m gravel to pavement										
2019 Pave Cemetery road, (400 m) Block 501 phase	•									
2019 Reconstruct- School Draw, 46 Street to 44 Street	(235 m) 45 Str	eet, 49 Avenu	e to 50 Avenue (215 m) 47 Stree	t, 49 Avenue to	51 Avenue (386	m)			



Street Sweeping Budget						
				2017		
	2015	2016	2016	Budget	2018	2019
	Actual	Budget	Forecast	Approved	Budget	Budget
	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)
Vehicle O&M & Fuel	73	124	84	77	80	84
Labour	153	201	162	161	165	169
	226	325	246	238	245	253

Street Sweeping Performance Measures	Projected 2015	Actual 2015	Projected 2016	Forecasted 2017	Forecasted 2018	Forecasted 2019	Notes		
Workload Indicators									
Total paved roads/alleys/lanes (km)	165.4	165.4	170.0	170.0	173.3	174.2			
Lane kms									
Efficiency Measures									
Cost per km to street sweep	\$1,820	\$1,366	\$1,447	\$1,406	\$1,414	\$1,453	(1)		
Sweeping includes parking lots, sweeping 7 days a week, bulk sand pickup and street washing.									
Notes:									
(1) Cost includes sweeping: labour, fuel and O&M costs.									

Storm / Ditch Maintenance Budget							
					2017		
		2015	2016	2016	Budget	2018	2019
		Actual	Budget	Forecast	Approved	Budget	Budget
		(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)	(\$000's)
Ditch Mainte	enance						
	General Services	6	14	18	14	15	15
	Materials	5	3	3	3	3	3
		11	17	21	17	18	18
	Vehicle O&M & Fuel	9	16	11	10	10	11
	Labour	33	42	35	35	35	36
		53	75	67	62	63	65
Storm Sewe	r Maintenance						
	General Services	1	3	8	3	3	3
	Materials	28	29	28	28	30	30
		29	31	36	30	33	33
	Vehicle O&M & Fuel	26	41	30	27	28	30
	Labour	180	223	190	190	194	198
		235	295	256	247	255	261
		288	370	323	309	318	326



Traffia Si	gnals/Lighting/Marking						
ITATITIC SI	gilais/ Ligitting/ Marking				2017	1	
		2015	2016	2016	2017 Budget	2018	2019
		Actual	Budget	Forecast	_	Budget	Budget
		(\$000's)	(\$000's)	(\$000's)	Approved (\$000's)	(\$000's)	(\$000's)
Line Pair	ating	(\$0003)	(\$0003)	(\$0003)	(\$0005)	(\$0005)	(\$0005)
Lille Fall	Materials	37	36	36	37	37	38
	Materials	37	36	36	37	37	38
	Vehicle O&M & Fuel	37	4	30	3	3	38
	Labour	70	93	74	74	76	77
	Labour	110	133	113	114	116	118
		110	133	113	114	110	110
Sign Mai	ntenance						
J	General Services	-	1	1	1	1	1
	Materials	22	30	30	30	32	38
		22	31	31	31	33	39
	Vehicle O&M & Fuel	4	6	4	4	4	4
	Labour	48	55	51	51	52	53
		74	91	86	86	89	97
Street De	ecorating						
	General Services	11	12	12	9	9	9
	Materials	6	10	10	8	8	8
		17	22	22	17	17	17
	Vehicle O&M & Fuel	3	5	4	4	4	4
	Labour	29	26	31	31	32	32
		49	53	57	52	53	53
T== 66: = 0	Ohno oh limbalo m						
manne &	Street Lighting General Services	5	20	33	18	21	21
	Power - Street lights	872	869	869	868	903	939
	_	39	42	42	58	63	
	Power - Traffic lights	916	931	944	943	987	65 1,025
	Vehicle O&M & Fuel	910	931	0	943	0	1,025
	Labour	8	9	9	9	9	9
	25.000	924	940	953	952	996	1,035
		1,158	1,217	1,209	1,203	1,254	1,303
				,			

Traffic Signals/Lighting/Marking Performance Measures	Projected 2015	Actual 2015	Projected 2016	Forecasted 2017	Forecasted 2018	Forecasted 2019	Notes	
Workload Indicators								
Street lights	1617	1,634	1,657	1737	1760	1783		
Traffic lights	18	18	18	20	20	20	(1), (2)	
Pedestrian crosswalks	7	7	8	8	8	8		
Efficiency Measures								
Average yearly energy cost for street lighting	\$937,300	\$871,552	\$869,000	\$868,400	\$903,200	\$939,300		
Average yearly energy cost for traffic lights	\$46,200	\$39,346	\$42,000	\$58,000	\$62,500	\$65,000	(3)	
Notes:								
(1) The traffic lights are in sets, therefore 18 sets of traffic lights totals 87								
(2) 2017 Budget includes addition of traffic lights at the intersection of Kam Lake Road and Finlayson Drive and Franklin Avenue and 44th Street.								
(3) LED light installation completed in 2008, intersections to be metered	. Actual power costs	s were reduced	from \$83,000 in	2008 to \$39,34	6 in 2015.			

